EPA Region 5 Records Ctr.
281516

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

REASSESSMENT

FOR

GARY DEVELOPMENT LANDFILL

Gary, INDIANA

Lake COUNTY

U.S. EPA ID: INN000508071

JULY 12, 2005

REVISED 6/1/2006 ag Ripley 5/23/2007

Signature Page
for
Gary Development Landfill
Reassessment
Gary, Indiana
Lake County
U.S. EPA ID: IND077005916

Prepared By: _____ Date: 7-12-05
Mark L. Jawonski, Project Manager
Site Investigation Section
Indiana Department of Environmental Management

Approved By: _____ Date: _____
Gabriele Hauer, Chief
Site Investigation Section
Indiana Department of Environmental Management

Approved By: _____ Date: 8/17/06
EPA Site Assessment Manager

Accepted By. Laura J. Ripley Date: 5/23/2007
EPA

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SECTION I

INTRODUCTION

The Indiana Department of Environmental Management (IDEM) Site Investigation Section, under a Cooperative Agreement (CA) with the United States Environmental Protection Agency, Region V, has been funded to perform Site Investigations (consisting of Preliminary Assessments (PA), Screening Site Inspections (SSI), and Expanded Site Inspections (ESI) at certain sites listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). This work is conducted under the authority of the Federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 (aka Superfund), and the Superfund Amendments and Reauthorization Act (SARA) of 1986. Sites eligible for SSIs include those sites for which the Preliminary Assessment (PA) did not conclude that `No Further Remedial Action is Planned'(NFRAP), as reflected in CERCLIS. After a site has been NFRAPed at the SSI phase, new information regarding the site may become available and may necessitate having the site reassessed.

The primary objectives of the site reassessment are:

- To collect additional data, using the Hazard Ranking System (HRS), required to make the determination of whether the site

should be placed on the National Priorities List (NPL);

- To identify sites that may require removal actions to address immediate threats to human health and/or the environment.

The Site Investigation Section was given approval by the U.S. EPA to conduct a Reassessment at the Gary Development Landfill after the site was referred to CERCLA from the Resource, Conservation, and Recovery Act (RCRA) program

The site operated from 1974 to 1987. The site is now abandoned and the corporation dissolved. The site accepted volatile organic compounds, semi-volatile organic compounds, asbestos, and pesticides, in addition to household wastes.

A review of IDEM records show that uncontrolled and untreated drainage was allowed to discharge directly into the Calumet River at the time the landfill was active (Reference 1). An SSI was conducted in 1984 and a Site Inspection Prioritization (SIP) was conducted in 1994.

Information contained within this report will be used to evaluate this site under the Revised Hazard Ranking System Model for possible inclusion on the National Priorities List (NPL) of hazardous waste sites.

SECTION II

SITE BACKGROUND

2.1 Introduction

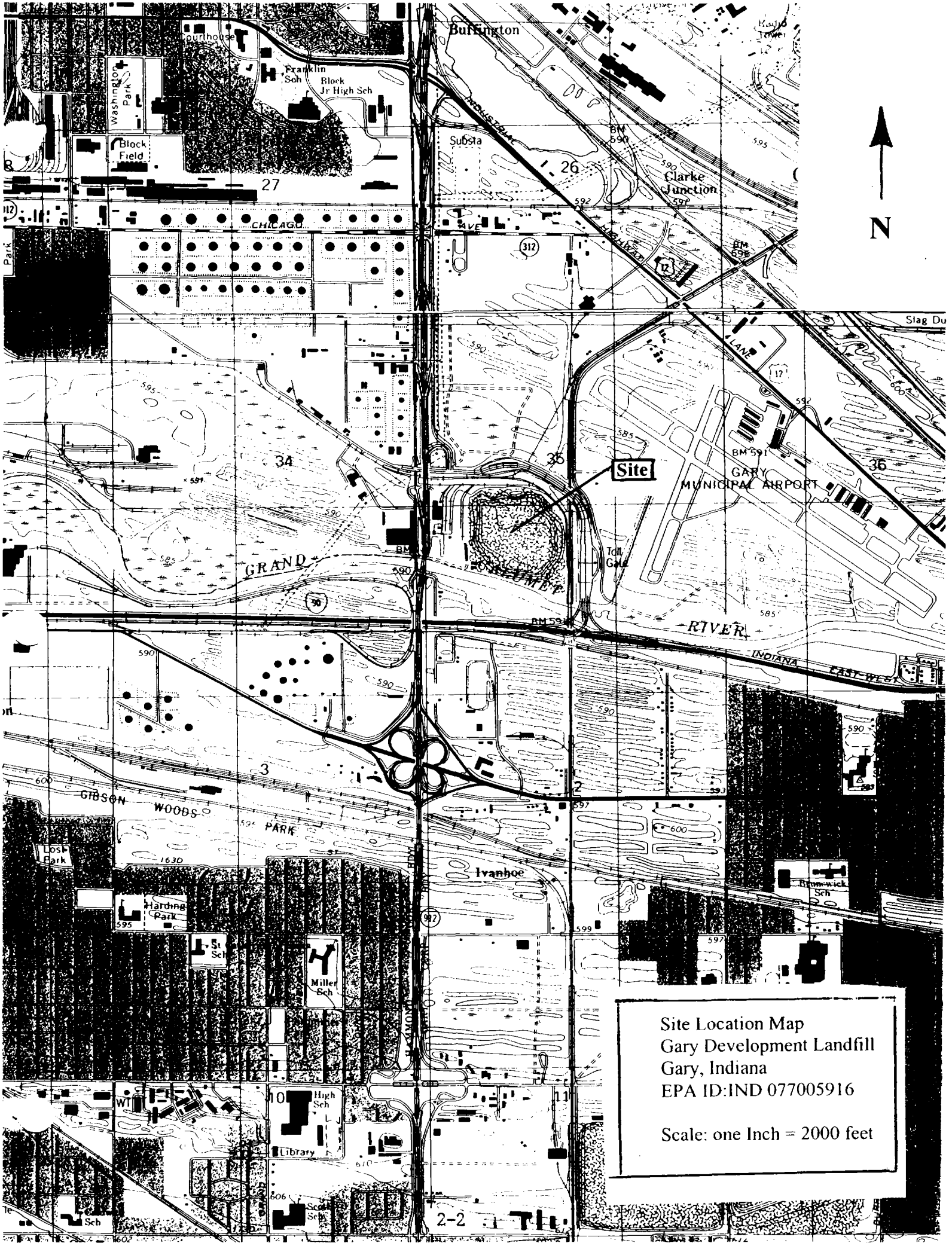
This section includes information obtained from the IDEM-RCRA and CERCLA files.

2.2 Site Description and Location

The site can be found on the U.S.G.S. Highland, Ind. Quadrangle Topographic Map. The site lies in the Southwest corner of section 35 in Township 37 North, Range 9 West. The site lies adjacent to the Grand Calumet River about 1000 feet west of the Gary Airport in an industrial setting south of Lake Michigan. The majority of the area is flat with grassy areas where streets, houses, parking lots, and buildings are not present. Refer to Site Location on page 2-2.

2.3 Site History

The Gary Development Landfill is an interim status RCRA land disposal facility. The site is 62 acres total, of which approximately 55 acres were utilized for solid and hazardous waste disposal. The landfill operated from 1974 to 1987. The site is now abandoned and the corporation dissolved. The site was a sanitary/industrial landfill that accepted materials



Site Location Map
Gary Development Landfill
Gary, Indiana
EPA ID:IND 077005916

Scale: one Inch = 2000 feet

including volatile organic compounds, semi-volatile organic compounds, asbestos, and pesticides. Refer to the Site Inspection Prioritization report for a list of what was deposited in the landfill.

A review of IDEM records show that uncontrolled and untreated drainage was allowed to discharge directly into the Calumet River when the landfill was active. Four (4) monitoring wells were installed on site by the operator. The water in the monitoring wells was collected and analyzed in 1990 by IDEM Corrective Action staff. Low levels of some metals, volatile organic compounds, semi volatile organic compounds, and pesticides were detected however, most of these parameters were found to be out of control by the laboratory and therefore not useable.

In 1986, U.S. EPA issued a RCRA 3008(a) administrative complaint and compliance order, which alleged that Gary Development Landfill accepted hazardous waste for disposal at their landfill which neither achieved interim status under RCRA, nor obtained a RCRA permit. Gary Development's appeal of this order was dismissed as untimely in August 1996. After negotiation, a consent decree required Gary Development to

pay $86,000 into a trust fund. The monies in the trust fund were to be used for the purpose of performing closure and post-closure care of the landfill, and conducting a ground water quality assessment program. In addition, the monies should be used for remediation of contamination and/or the prevention of releases of hazardous substances at the site.

Current cost estimates for site assessments, cover and vegetation, erosion control measures, groundwater monitoring wells, gas system installation-flares, drain and fill ponds, and other work far exceeds the amount in the trust fund.

SECTION III

PROCEDURES, FIELD OBSERVATIONS AND ANALYTICAL RESULTS

3.1 Introduction

This section outlines the procedures, observations and analytical results for the Gary Development Landfill.

3.2 Site Representative Interview and Reconnaissance Inspection

On April 20, 2005, Mark Jaworski, Project Manager, met on-site with Doug Fisher, Dan Chesterson, Mike Sickels, Tim Johnson, and Trevor Fuller. Following the meeting, on-site and background sample locations were established to determine natural environmental conditions of the immediate area. Inspection of the site revealed the following observations:

1) The site lies in a predominantly industrial area.
2) The site is covered with weeds and grasses.
3) No leachate seeps were seen where the landfill meets the surface water body.
4) Some areas of the landfill are devoid of vegetation.
5) Some metal and plastic debris was observed protruding out of the ground.
6) Vent pipes were observed along the southwest sector of the site.
7) Abandoned equipment, (i.e. crane, Jeep, fuel truck, and other debris) was observed throughout the site
8) Two (2) abandoned buildings were observed along the south-western corner of the site.
9) The site is not fenced. A locked gate is present at the entrance to the site.

3.3 Sample Procedures and Analytical Results

The laboratory results from the 2005 sampling of the Gary Development site have been determined to be acceptable for use and meet the criteria contained in the Contract Laboratory Program (CLP). (Refer to Analytical Results in Appendix B)

Any exceptions to the acceptance of this data will be identified in the QA/QC memorandum by the U.S. EPA chemists. (Refer to Appendix B)

3.3.1 Groundwater Samples

Groundwater samples were collected by IDEM personnel at locations selected during the reconnaissance inspection to determine if contaminants from the landfill are present in the groundwater off-site.

A total of nine (9) groundwater samples, including background and duplicate samples, were collected. The ground-water samples were obtained utilizing U.S. EPA's Concorde punch/drill machine. The groundwater samples are identified as 2005IN01S01 through 2005IN01S16, and E2BT7,E2BT8, and E2BW0 through E2BW6 samples 2005IN01S03/4/E2BT7 are considered background samples and were obtained from the Ivanhoe Nature Preserve area located southeast of the Gary Development Site.

The Groundwater Sample Location and Comment Table, Table 1 found on page 3-4, depicts the sample number, location of sample and any comments pertaining to the samples.

Groundwater samples were obtained using a Concord Drill Rig to advance borings to groundwater. The drill rods were pulled back up a couple feet exposing a well screen to allow the water to fill the hole. A parastaltic pump connected to a dedicated nalgene hose, was inserted into the rod and groundwater was purged until the water became clear. The sample was collected through the pump/tubing apparatus. At each sample location, two (2) groundwater samples were obtained to sample the upper and lower portions of the aquifer. Latex surgical gloves were worn and discarded between the collection of each sample. Refer to the Groundwater Sample Location Map, page 3-5, Figure 2, to view a location of each sample.

3.3.2 Soil Samples

Soil samples were collected by IDEM at locations selected during the reconnaissance inspection to determine the extent of potential contamination. On April 20 and 21, 2005, a total of 10 soil samples were collected. The 10 soil samples were identified as E2BS8/ME2BS8 through E2BT9/ME2BT9. The Soil Sample Location and Comments Table, Table 2 on page 3-7,

Table 1

Gary Development Landfill
Water Sample, Location, and Comment Table

Sample ID	Station Number	Location	Comments
E2BT7/2005IN1S03/4	GW1(5/7)	Ivanhoe Nature Preserve	Background; 250 feet north of Hobart Street (5 to 7 feet depth)
E2BW0/2005IN1S02/6	GW1(14-16)	Same as E2BT7	Same as E2BT7 except taken from 14 to 16 feet depth
E2BW0/2005IN1S07/9	GW2(17-19)	100 feet north of Grand Calumet River	Dark brown
E2BW3/2005IN1S08/10	GW2(10-12)	Same as E2BW2	Slightly yellow
E2BW4/2005IN1S11/12	GW3(10-12)	Same as E2BW	Duplicate of GW2(10-12)
E2BW6/2005IN1S14/16	GW4(7-9)	200 feet west of GW2/3	Oily sheen on water
E2BW5/2005IN1S13/15	GW4(13-15)	Same as E2BW6	Dark yellow to brown; silty
E2BT8/2005IN1S01/5	SW1	Northwest corner of on-site pond	Clear, odorless
E2BW1	GW10	IDEM Shadeland Air Laboratory	Trip Blank

Gary Developn[illegible] Landfill
Gary, Lake County, Indiana
Water Sample Location Map
E2BT8
Cline Avenue
Gary Development
R.R. tracks
E2BW5
E2BW6
E2BW2
E2BW3
E2BW4
I-90
E2BT7
E2BW0
N
0
300
600
1,200
Feet

depicts the sample number, location, and any comments pertaining to each sample. Soil samples were obtained using a soil auger. For SVOC metal, PCB, and pesticide analysis, the sediments were homogenized in a stainless steel bowl with a stainless steel scoop. The homogenized material in the bowl was directly transferred into the sample jar using the metal trowel. For VOC analysis, the soil samples were obtained using a Terra Core sample kit and proper collection procedures. Latex surgical gloves were worn and discarded between the collection of each sample. Refer to the Soil Sample Location Map, Figure 3, on page 3-8 for the location of each soil sample.

3.3.3 Surface Water Samples

One surface water sample was collected by IDEM personnel from the small pond located at the northern perimeter of the of the landfill. The sample was obtained to determine if any contaminants would have seeped into the pond from the landfill. The surface water sample is identified by sample numbers E2BT8, 2005IN01S01, and 2005IN01S05. The location and any comments pertaining to the sample is found on the Water Sample Location and Comment Table, Table 1, on page 3-4.

The water sample were obtained by placing the sample bottles slightly under the pond water and then allowing the

Table 2

Gary Development Landfill
Soil Sample, Location, and Comment Table

Sample ID	Station ID	Location	Comments
E2BS8/ME2BS8	SD1A	Ivanhoe Nature Nature Preserve	Dark muck Top 6 inches
E2BS9/ME2BT9	SD1B	Same as E2BS8	Brown, sandy 18-14 inches
E2BT0/ME2BT0	SD2A	Wetland area located at south side of Gary Development Landfill	100 feet north of Grand Calumet River, 600 feet east of R.R. tracks; Top 6 inches
E2BT1/ME2BT1	SD2B	Same as E2BT0	18-24 inch depth
E2BT2/ME2BT2	SD3A	Same as SD2A	Duplicate of SD2A
E2BT3/ME2BT3	SD4A	Wetland area located approximately 185 feet east of SD2A	0-6 inch depth
E2BT4/ME2BT4	SD4B	Same location as SD4A	18-24 inch depth
E2BT5/ME2BT5	SD5A	Wetland area located approximately 300 feet west of R.R. tract on south side of Gary Development Landfill	0-6 inch depth
E2BT6/ME2BT6	SD5B	Same as SD5A	18-24 inch depth
M2BT9/ME2BT9	SD6A	Soil sample obtained from the northwest corner of pond located on the northwest sector of Gary Development Landfill	Top two feet of bottom of pond

water to flow directly into the samples jars.

Latex surgical gloves were worn and discarded between the collection of each sample. This one sample location is found on the Soil Sample Location Map, page 3-7.

3.4 Summary Tables

All samples were analyzed for volatile organic compounds (VOCs), semi volatile organic compounds, PCBs, pesticides, and metals. Key Findings tables/lists and background sample table results summarizing contaminant concentrations detected three (3) times above background start on page 4-8.

Refer to Appendix B for a complete list of the chemical analysis data provided by the laboratory.

Gary Development Landfill
Soil Sample Location Map
N
SD6A
SW1
SD2A
SD3A
SD2B
SD4A
SD4B
SD5A
SD5B
SD1A
SD1B
0
155
310
620 Meters

SECTION IV

DISCUSSION OF MIGRATION PATHWAYS

4.1 Introduction

Potential migration pathways for contaminants migrating from the Gary Development Landfill site are discussed in this section. Potential contaminant migration through groundwater, surface water (including drinking water threat, human food chain threat, and environmental threat), soil exposure, and air are discussed.

4.2 Groundwater Pathway

The Indiana Department of Natural Resources (IDNR) well logs indicate that the Gary Development Landfill is underlain by layers of sand and gravel with some layers of till/clay (Ref. 2).

Locally and regionally groundwater flow is to the north. The bedrock at this site consists of Middle Silurian (Niagaran) dolomites that dip gently toward the northwest. About 160 to 170 feet of unconsolidated material lies above the bedrock at the site and may be divided into three distinct units. The deepest unit is a silty, pebbly clay till which rests upon the bedrock. In this area, the basal part of this unit is zone of sand and gravel about 15 feet thick which is part of a narrow valley-fill deposit. Above this unit is a silty, sandy and pebbly clay till with discontinuous lenses of sand and gravel. This clay is subject to cracking and is very hard when dry. The unit exposed at the surface consists of 25 to 35 feet of very

fine-grained beach and dunal sand that is stratified and moderately cross-bedded. It contains some thin partings of silt and clay. An 18-inch layer of silt separates the sand from the underlying clay.

The use of groundwater near this site is low due to the availability of municipal water and to a lack of residential development. The small amount of groundwater that was pumped near the landfill is chiefly from shallow wells (30 to 50 feet deep) that are finished within the upper sand unit which is entirely saturated under natural conditions. Groundwater exists under unconfined conditions and the original water table in this area was within two (2) feet of the ground surface. Before the present operation began, the water within the pit which had been filled was at about the same elevation as the nearby river, attesting to the hydraulic continuity of the groundwater and surface-water systems in this area. According to a geologic description and evaluation of the landfill while it was active, the regional hydraulic gradient was locally south-westward into the river, but the watering of the pit has created a reversal of the gradient and river water now seeps into the pit area because of the head differential (the pit bottom is approximately 30 feet lower then the surface of the river)(Ref. 3). The hydraulic conductivity of the deepest till unit is 1.4×10^{-7} cm/sec while

that of the clay immediately beneath the sand unit is 3.3×10^{-7} cm/sec. The sand unit has a hydraulic conductivity of .02 cm/sec, a coefficient of transmissivity of 21.6 cm^2/sec, (unconfined) conditions exist.

Nine (9) groundwater samples were obtained utilizing U.S. EPA's Concorde drill rig. An analysis of these samples revealed low levels of some volatile organic compounds, semi-volatile organic compounds, pesticides, and metals. None of these analytes exceeded Maximum Contaminant Levels set by the U.S.EPA. The Groundwater Key Findings List on pages 4-8 through 4-23 depict the analytes that exceed three (3) times background.

IDEM concluded that the area is unsuitable as a hazardous waste landfill due to the high permeability of soils (Ref.3). Inspector reports stated that sand was used as cover material. As discussed in 4.4, high concentrations of numerous SVOCs and pesticides were detected in some of the wetland soils near the surface. One (1) explanation for the presence of these contaminants in the wetlands may be due to base flow from the landfill. The contaminants may be discharging into the Grand Calumet River via a groundwater to surface water pathway due to the high permeability of the soil material.

The population of Gary utilizes municipal surface water intakes located in Lake Michigan for their consumptive needs. There are no groundwater wells identified down gradient from the site that are used for drinking water.

4.3 Surface Water Pathway

Overland flow from the site enters the Grand Calumet River which is located less than 10 feet from the southern property boundary. The Grand Calumet at this location generally discharges into Lake Michigan via the Indiana Harbor canal. The East Fork of the Grand Calumet River flows west into the Indiana Harbor Canal approximately two (2) river miles from Gary Development Landfill. The Indiana Harbor Canal connects the Grand Calumet River with Lake Michigan via the Indiana Harbor. The strong influence from Lake Michigan can cause water from the East Fork of the Grand Calumet to flow past the Harbor Canal to a surface water divide near the Indiana Toll Road or even eastward from the Gary Development Landfill site. The position of the water divide is variable and influenced by water levels in Lake Michigan, the amount of effluent flow into the two (2) branches of the Grand Calumet River and the Harbor Canal, and the speed and direction of the wind. (Reference 4)

4.3.1 Drinking Water Threat

Residents within Gary, Indiana obtain drinking water from surface water intakes located in Lake Michigan. Many of these intakes lie within the 15 mile surface water pathway for the

Gary Development Landfill. No known drinking water problems exist for these cities and it is improbable that contaminants attributable to activities at Gary Development Landfill would be far enough to reach these surface water intakes due to the nature of the contaminants involved and the amount of dilution that would take place even if they reached Lake Michigan.

4.3.2 Human Food Chain Threat

The Grand Calumet River (GCR) and Lake Michigan are considered fisheries. Currently, there is a Fish Advisory posted for Lake Michigan and the GCR for PCBs and mercury contamination. Extensive contamination has been documented in the Grand Calumet River and Indiana Harbor Canal flowing through Lake County. An assessment of sediment injury in the Grand Calumet River, Indiana Harbor, and the near shore areas of Lake Michigan prepared for the U. S. Fish and Wildlife Service documents PCB contamination in sediments of the Grand Calumet River as high as 68,500 ppb upstream from the Gary Development Landfill (Ref. 5).

No PCBs were detected in any of the soil and groundwater samples that were collected for this assessment. As discussed in 4.2, a ground water to surface water pathway may exist and could allow the contaminants from this site to flow into the Grand Calumet River impacting the human food chain pathway.

4.3.3 Environmental Threat

A survey conducted by the Indiana Department of Natural

Resources/Division of Nature Preserves/Heritage Program (IDNR/DNP/HP) indicated that there are numerous endangered or threatened species and sensitive environments within the surface water pathway of the Gary Development Landfill site. Refer to Appendix D for a detailed list of these special concerns. As discussed in Section 4.4, numerous semi-volatile organic compounds were detected in the soils of the wetland area located on the south side of the landfill. These wetland soils are within sensitive environments outlined by the IDNR/DNP/HP.

4.4 Soil Exposure

Ten soil samples were obtained from the wetland area located on the south side of the Gary Development Landfill. Various concentrations of metals, at levels three times above background, were detected in all soil samples. Low levels of metals were detected in the soils. The lead concentration in sample SD4A was 448 mg/kg. Benzene, at 11 ug/kg in soil sample SD4B, was the only volatile organic compound (VOC) of concern detected in the soil samples.

Numerous semi-organic volatile compounds (SVOCs) were detected in all soil samples. The most numerous and highest concentrations for SVOCs were detected in soil sample SD5B. The highest concentrations of 4,4'-DDE and 4,4'-DDT were also detected in soil sample SD5B. The Key Findings List on pages 4-8

through 4-23 shows all concentrations of metals, VOCs, SVOCs, and pesticides that were found in the soil samples at levels three times above background.

A gate is present at the entrance to the Gary Development Landfill, however, the site is not fenced. Even though the site lies in a predominantly industrial area, the site is still accessible to the public. Numerous sensitive environments lie on or near contaminated soils.

4.5 Air Pathway

No air samples were taken. No ambient odors were observed during this inspection when collecting soil or sediment samples. Presently, there are no reports of adverse health effects resulting from the migration of hazardous substances through the air at this site. There does not appear to be a potential risk to nearby residents by the air pathway from the Gary Development Landfill.

Table 3

GARY DEVELOPMENT LANDFILL

Background Groundwater Concentrations

No clay layer separates the shallow aquifer and deep portions of the aquifer that was sampled. Due to characteristics of the aquifer and the Concord Punch/Drill unit operated by U.S. EPA, water could not always be obtained from the same shallow and deep intervals of the aquifer. Therefore, using a conservative approach, background concentrations were determined by obtaining the highest concentration of each analyte from both background groundwater locations GW1 (1-7) and GW1 (14-16).

Contaminant	Concentration	3X Background
Aluminum	390 µg/l	1170 µg/l
Antimony	1.4 µg/l	4.2 µg/l
Arsenic	.8 µg/l	2.4 µg/l
Barium	78.1 µg/l	234.3 µg/l
Cadmium	1.7 µg/l	5.1 µg/l
Chromium	3.1 µg/l	9.3 µg/l
Cobalt	1.3 µg/l	3.9 µg/l
Copper	4.7 µg/l	14.1 µg/l
Dieldrin	.00076 µg/l	.00228 µg/l
4,4, DDT	.00029 µg/l	.00087 µg/l
Endrin Ketone	.00025 µg/l	.00075 µg/l
Endosulfuran II	.00044 µg/l	.00132 µg/l
Heptachlor epoxide	.00065 µg/l	.00195 µg/l
Iron	28,800 µg/l	86,400 µg/l
Lead	1.6 µg/l	4.8 µg/l
Magnesium	29,300 µg/l	87,900 µg/l
Manganese	723 µg/l	2,169 µg/l
Mercury	.2 µg/l	.6 µg/l
Nickel	4.8 µg/l	14.4 µg/l
Selenium	U	U
Silver	1 µg/l	3 µg/l
Sodium	15,100 µg/l	45,300 µg/l
Thallium	U	U
Vanadium	12.8 µg/l	38.4 µg/l
Zinc	15.2 µg/l	45.6 µg/l

Table 4
GARY DEVELOPMENT LANDFILL
Groundwater
Key Findings
GW2 (10-12)

Contaminant	Concentration
1,1 Dichloroethane	0.26 µg/l
2,4 Dimethyphenol	0.52 µg/l
4-methylphenol	0.42 µg/l
Aldrin	.0041 µg/l
Barium	292.0 µg/l
Benzaldehyde	1.1 µg/l
Magnesium	269,000 µg/l
Nickel	17.9 µg/l

GARY DEVELOPMENT LANDFILL

Groundwater

Key Findings

GW3 (10-12)

Contaminant	Concentration
4-methylphenol	0.35 μg/l
Acetophenone	0.23 μg/l
Aldrin	0.00068 μg/l
Benzaldehyde	1.1 μg/l
Magnesium	269,000 μg/l
Nickel	17.4 μg/l
Potassium	258,000 μg/l
Sodium	655,000 μg/l

GARY DEVELOPMENT LANDFILL

Groundwater

Key Findings

GW4 (7-9)

Contaminant	Concentration
Acenaphthene	8.3 µg/l
Aldrin	0.0023 µg/l
Barium	591 µg/l
Benzaldehyde	0.96 µg/l
Fluoranthene	0.29 µg/l
gamma-BHC	0.0031 µg/l
Magnesium	338000 µg/l
Potassium	197000 µg/l
Pyrene	0.36 µg/l
Sodium	502000 µg/l

Table 7

GARY DEVELOPMENT LANDFILL

Groundwater

Key Findings

GW4 (13-15)

Contaminant	Concentration
1,1 Dichloroethane	5.6 µg/l
2-dimethylphenol	0 .56 µg/l
2-methylphenol	0.21 µg/l
4-methyphenol	1.2 µg/l
Acenaphthene	1.5 µg/l
Aluminum	1610 µg/l
Barium	428 µg/l
Benzaldehyde	1.3 µg/l
Chromium	15.1 µg/l
Cobalt	4 µg/l
Copper	2 µg/l
Dichlorodiflouromethane	1.2 µg/l
Gamma chlordane	0.00068 µg/l
Magnesium	237000 µg/l
Nickel	23.1 µg/l
Phenol	0.79 µg/l
Potassium	362000 µg/l
Sodium	926000 µg/l
Vanadium	39.5 µg/l

Table 8

GARY DEVELOPMENT LANDFILL

Groundwater
Key Findings
GW2 (17-19)

Contaminant	Concentration
1,1 Dichloroethar	0.26 µg/l
4,4, DDE	.00050 µg/l
Aldrin	.0014 µg/l
Arsenic	7.4 µg/l
Barium	426 µg/l
Benzaldehyde	1.2 µg/l
Benzene	.45 µg/l
Chromium	26.7 µg/l
Cobalt	4.1 µg/l
Curium	26 µg/l
Endosulfuran II	.0028 µg/l
Endosulfuran I	.00056 µg/l
Magnesium	302,000 mg/l
Nickel	72.1 mg/l
Vanadium	55.7 mg/l

Table 9

GARY DEVELOPMENT LANDFILL

Surface Water

Key Findings

SW1

Contaminant	Concentration
Arsenic	8.2 μg/l
Chromium	18.0 μg/l
Cobalt	14.8 μg/l
Magnesium	127,000 μg/l
Nickel	23.7 μg/l
Beta BAC	.0057 μg/l
Heptachlor	.0037 μg/l
Dieldrin	.0043 μg/l

No background pond water sample was obtained. The results of SW1 was compared to the background groundwater concentrations found on Table 3, Page 4-8

Table 10

GARY DEVELOPMENT LANDFILL
(shallow soil)
Shallow Background Soil Concentrations
SD1A

Contaminant	Concentration	3X Background
Aluminum	5,050 µg/kg	15,150 µg/kg
4,4' - DDE	1.4 µg/kg	4.2 µg/kg
4,4' - DDT	3.1 µg/kg	9.3 mg/kg
Arsenic	2.4 µg/kg	7.2 mg/kg
Barium	59 µg/kg	177 mg/kg
Beryllium	0.65 µg/kg	1.95 mg/kg
Cadmium	1.4 µg/kg	4.2 mg/kg
Calcium	7810 µg/kg	23,430 mg/kg
Chromium	15.6 µg/kg	46.8 mg/kg
Chrysene	8.7 µg/kg	26.1 µg/kg
Cobalt	1.7 µg/kg	5.1 mg/kg
Copper	30 µg/kg	90 mg/kg
Iron	8,020 µg/kg	24,060 mg/kg
Lead	127 µg/kg	381 mg/kg
Manganese	155 µg/kg	465 mg/kg
Nickel	8.3 µg/kg	24.9 mg/kg
Potassium	441 µg/kg	65.7 mg/kg
Pyrene	78 µg/kg	234 mg/kg
Selenium	7.3 µg/kg	21.9 mg/kg
Silver	2.1 µg/kg	6.3 mg/kg
Sodium	261 µg/kg	783 mg/kg
Vanadium	13.5 µg/kg	40.5 mg/kg
Zinc	291 µg/kg	873 mg/kg

Table 11

GARY DEVELOPMENT LANDFILL
(shallow soil)
Key Findings
SD2A

Contaminant	Concentration
2-Butanone	35 μg/kg
4,4-DDE	5.7 μg/kg
4,4-DDT	3.1 μg/kg
Bis (2-ethylhexyl) Pthalate	220 μg/kg
Chloromethane	11 μg/kg
Chromium	80.1 μg/kg
Cobalt	8.5 μg/kg
Copper	120 μg/kg
Fluoranthene	77 μg/kg
Iron	28,600 mg/kg
Magnesium	13,800 mg/kg
Manganese	590 mg/kg
Mercury	0.20 mg/kg
Nickel	44.9 mg/kg
Phenanthrene	100 mg/kg
Thalium	2.1 mg/kg

Table 12

GARY DEVELOPMENT LANDFILL
(shallow soil)
Key Findings
SD3A

Contaminant	Concentration
2-Butanone phenanthrene	150 μg/kg
4,4 - DDE	3.9 μg/kg
4,4 - DDT	6.9 μg/kg
Aluminum	16,000 mg/kg
Benzo (a) pyrene	160 μg/kg
Benzo (b) fluoranthene	200 μg/kg
Benzo (g,h,i) perylene	230 μg/kg
Benzoanthracine	140 μg/kg
Chloromethane	11 μg/kg
Chromium	85.8 mg/kg
Cobalt	8.5 mg/kg
Copper	124 mg/kg
Fluoranthene	270 μg/kg
Indeno (1,2,3-cd) pyrene	240 μg/kg
Iron	28,600 mg/kg
Magnesium	13,700 mg/kg
Manganese	553 mg/kg
Mercury	.19 mg/kg
Nickel	45.5 mg/kg
Pyrene	270 μg/kg
Thallium	2.4 mg/kg

Table 13

GARY DEVELOPMENT LANDFILL
(shallow soil)
Key Findings
SD4A

Contaminant	Concentration
2-Butanone	110 µg/kg
4,4-DDE	57 µg/kg
4,4-DDT	22 µg/kg
Aluminum	26,300 mg/kg
Argon	21.3 mg/kg
Barium	239 µg/kg
Benzo (a) anthracene	210 µg/kg
Benzo (a) pyrene	210 µg/kg
Benzo (a,h) anthrocene	210 µg/kg
Benzo (b) fluoranthene	250 µg/kg
Benzo (g, h, i) perylene	190 µg/kg
Benzo (k) fluoranthene	190 µg/kg
Cadmium	5.2 mg/kg
Carbon Disulfide	32 µg/kg
Chromium	432 mg/kg
Cobalt	20.6 mg/kg
Copper	213 mg/kg
Endrin aldehyde	9 µg/kg
Endrin ketone	9.3 µg/kg
Fluoranthene	270 µg/kg
Indeno (a, h) anthracene	210 µg/kg
Indeno (a,h) anthracene	210 µg/kg
Iron	119,000 mg/kg
Lead	448 mg/kg
Magneseum	30,500 µg/kg
Manganese	1,380 mg/kg
Mercury	0.53 mg/kg
Methylene chloride	40 µg/kg
Nickel	93.8 mg/kg
Pyrene	240 µg/kg
Thalium	6.2 µg/kg
Vanadium	74.6 µg/kg
Zinc	2,020 µg/kg

Table 14

GARY DEVELOPMENT LANDFILL
(shallow soil)
Key Findings
SD5A

Contaminant	Concentration
4,4 - DDE	3 μg/kg
4,4 - DDT	5.8 μg/kg
Aluminum	39,000 μg/kg
Arsenic	9.6 μg/kg
Chromium	76.9 μg/kg
Cobalt	16.9 μg/kg
Copper	556 μg/kg
Magnesium	44,800 μg/kg
Manganese	818 μg/kg
Mercury	0.070 μg/kg
Nickel	65.8 μg/kg
Vanadium	53.1 μg/kg

Table 15

GARY DEVELOPMENT LANDFILL
(shallow soil)
Key Findings
SD6A

Contaminant	Concentration
4,4-DDE	1.6 µg/kg
4-4-DDT	4.1 µg/kg
Aluminum	22,200 µg/kg
Antomony	19.9 µg/kg
Argon	15.3 µg/kg
Barium	215 µg/kg
Bis(2-ethylthexyl)pthalate	140 µg/kg
Chromium	49.8 µg/kg
Chrysene	52 µg/kg
Cobalt	18.6 µg/kg
Copper	151 µg/kg
Fluoranthene	54 µg/kg
Iron	39,600 µg/kg
Magnesium	45,900 µg/kg
Manganese	763 µg/kg
Mercury	0.075 µg/kg
Nickel	54.2 µg/kg
Phenenthrene	84 µg/kg
Pyrene	56 µg/kg

Table 16
GARY DEVELOPMENT LANDFILL
Deep Background Soil Concentrations
SD1B

Contaminant	Concentration	3X
Aluminum	941 mg/kg	2,823 mg/kg
Barium	7.6 mg/kg	22.8 mg/kg
Beryllium	0.04 mg/kg	0.12 mg/kg
Calcium	524 mg/kg	1572 mg/kg
Chromium	1.9 mg/kg	5.7 mg/kg
Cobalt	0.77 mg/kg	2.31 mg/kg
Copper	0.49 mg/kg	1.47 mg/kg
Iron	1,480 mg/kg	4,440 mg/kg
Lead	1.0 mg/kg	3 mg/kg
Manganese	13.6 mg/kg	40.8 mg/kg
Nickel	1.4 μg/kg	4.2 μg/kg
Potassium	152 μg/kg	456 μg/kg
Sodium	119 μg/kg	357 μg/kg
Vanadium	2.2 μg/kg	6.6 μg/kg
Zinc	14 μg/kg	42 μg/kg

Table 17

GARY DEVELOPMENT LANDFILL
(deep soil)
Key Findings
SD2B

Contaminant	Concentration
2-Butanone	90 µg/kg
4,4-DDE	63 µg/kg
4,4-DDE	6.2 µg/kg
4,4-DDT	14.0000 µg/kg
4,4-DDT	13 µg/kg
Aluminum	10,000 µg/kg
Argon	22.2 µg/kg
Barium	154 µg/kg
Benzene	11 µg/kg
Benzo(a)anthracene	140 µg/kg
Benzo(a)pyrene	310 µg/kg
Benzo(b)flouranthene	200 µg/kg
Benzo(g,h,i)perylene	220 µg/kg
Beryllium	1.3 µg/kg
Butanone	11 µg/kg
Cadmium	.040 µg/kg
Cadmium	10.2 µg/kg
Carbon disulfide	4 µg/kg
Carbon disulfide	12 µg/kg
Chromium	8.4 µg/kg
Chromium	840 µg/kg
Chrysene	200 µg/kg
Cobalt	16.1 µg/kg
Copper	7.9 µg/kg
Copper	252 µg/kg
Fluoranthene	300 µg/kg
Lead	772 µg/kg
Magnesium	7690 µg/kg
Manganese	2,420 µg/kg
Mercury	0.74 µg/kg
Nickel	6.2 µg/kg
Nickel	148 µg/kg
Phenanthrene	150 µg/kg
Pyrene	240 µg/kg
Selenium	26.7 µg/kg
Silver	1.2 µg/kg
Thallium	14.3 µg/kg
Toluene	9 µg/kg
Vanadium	41.9 µg/kg
Zinc	3,370 µg/kg

Table 17
GARY DEVELOPMENT LANDFILL
(deep soil)
Key Findings
SD2B
(continued)

Contaminant	Concentration
4,4-DDE	63 µg/kg
4,4-DDT	14.0000 µg/kg
Butanone	11 µg/kg
Cadmium	.040 µg/kg
Carbon disulfide	4 µg/kg
Chromium	8.4 µg/kg
Copper	7.9 µg/kg
Nickel	6.2 µg/kg

Table 18

GARY DEVELOPMENT LANDFILL
(deep soil)
Key Findings
SD5B

Contaminant	Concentration
1,1-Biphenol	150 µg/kg
2-Butanone	62 µg/kg
2-methyl-2pentanone	13 µg/kg
2-methylnaphthalene	400 µg/kg
4,4-DDE	70,000 µg/kg
4,4-DDT	71,000 µg/kg
Acenaphthene	16,000 µg/kg
Acenaphthylene	2,200 µg/kg
Aluminum	12,100 µg/kg
Anthracene	5,500 µg/kg
Argon	11.8 µg/kg
Barium	94.6 µg/kg
Benzene	11 µg/kg
Benzo(a)anthracene	12,000 µg/kg
Benzo(a)pyrene	9,600 µg/kg
Benzo(b)fluoranthene	12,000 µg/kg
Benzo(g,h,i)perylene	7,500 µg/kg
Benzo(k)fluoranthene	6,300 µg/kg
Beryllium	1.1 µg/kg
Cadmium	3.9 µg/kg
Carbon disulfide	8 µg/kg
Chromium	155 µg/kg
Chrysene	12,000 µg/kg
Cobalt	7.7 µg/kg
Copper	107 µg/kg
Dibenzo(a,h)anthracene	2200 µg/kg
Dibenzofuran	5,400 µg/kg
Fluoranthene	24,000 µg/kg
Fluorene	11,000 µg/kg
Indeno(1,2,3-cd)-pyrene	8500 µg/kg
Iron	46300 µg/kg
Lead	217 µg/kg
Magnesium	5,060 µg/kg
Manganese	341 µg/kg
Mercury	0.26 µg/kg
Naphthalene	400 µg/kg
Nickel	68.8 µg/kg
Phenanthrene	3,600 µg/kg
Pyrene	24,000 µg/kg
Selenium	4.8 µg/kg
Silver	26.7 µg/kg
Thalium	2.1 µg/kg
Toluene	2.1 µg/kg
Vanadium	23.2 µg/kg
Zinc	849 µg/kg

References

1) U.S. EPA Form 2070-13, Part 3; Site Inspection Prioritization for Gary Development Landfill
2) Indiana Department of Natural Resources, Division of Water, Well logs
3) Indiana State Board of Health Office Memorandum, Geologic Description and Evaluation of the Gary Development Landfill, 1978
4) Crawford, C. G.; Wangsness, D. J., 1987, U.S.G.S. Publication, Streamflow and water quality of the Grand Calumet River, Lake County, Indiana, and Cook County, Illinois, page 3
5) Ingersoll, Christopher,G., McDonald, Donald D.; September 2000, An Assessment of Sediment Injury in the Grand Calumet River, Indiana Harbor Canal, Indiana Harbor, and the Nearshore Areas of Lake Michigan

STATE BOARD OF HEALTH

INDIANAPOLIS

OFFICE MEMORANDUM

DATE: July 17, 1978

TO: File-Superior Waste Sanitary Landfill
St. Joseph County

THRU:

FROM: Jim King

SUBJECT: Geologic Description and Evaluation
(Revised July 10, 1978)

GEOLOGY

The bedrock in this part of Indiana consists of the greenish-gray Ellsworth Shale of Devonian-Mississippian age. It generally dips toward the northeast into the Michigan basin.

In the site area the bedrock is overlain by 300 to 350 feet of unconsolidated glacial and glaciofluvial material which is subdivided into two major units. Unit 2 is a silty, sandy clay till which rests directly upon the bedrock surface. It contains numerous discontinuous sand and gravel lenses which are commonly used as major aquifers in this part of St. Joseph County. The thickness of this unit in the site area ranges from 210 to 225 feet.

Unit 1 lies above Unit 2 and consists chiefly of kame deposits and other stratified ice-contact materials. Unit 1 is composed primarily 100 to 120 feet of medium to coarse sand, gravel, and some silt and locally contains thick zones of clay. This unit serves as the major aquifer throughout the county.

GROUNDWATER

Groundwater use in this area is moderate and all groundwater is withdrawn from unconsolidated aquifers. Wells near the site range from 50 to 106 feet in depth.

Unit 2 contains sand and gravel lenses which are commonly used as sources of groundwater. The vertical hydraulic conductivity of Unit 2 averages 1.4×10^{-7} cm/sec. The depth to water-bearing zones within Unit 2 may be from 100 to 120 feet beneath the site.

Unit 1 is the major aquifer in the county. Water-table conditions prevail with the depth to water being 60 to 70 feet beneath the landfill. Confined conditions exist locally. The hydraulic characteristics of Unit 1 are as follows: Regional hydraulic conductivity--4.7×10^{-3} to 2.4×10^{-1} cm/sec; coefficient of storage--0.12 (indicating unconfined conditions); regional transmissivity--5.8 to 430 cm^2/sec. This area is most likely a site of extensive groundwater recharge due to the shallowness of the coarsely granular deposits. Recharge to the water table is chiefly by the direct infiltration of precipitation. The hydraulic gradient within Unit 1 is probably eastward according to local static water-level data.

EVAULATION AND RECOMMENDATIONS

This site is rated as geologically unsuitable for waste disposal. The sands and gravels of Unit 1, the principal groundwater source in this area, are in direct contact with the refuse or, at best, are separated from the waste by a thin layer of slowly permeable silty material within low depressional areas on the property. There is some possibility that this situation may result in the eventual pollution of subjacent groundwater resources. Leachate production has been documented at this site during past inspections and its generation may be aggravated by the use of silty sand and fine gravel as cover material over much of the site.

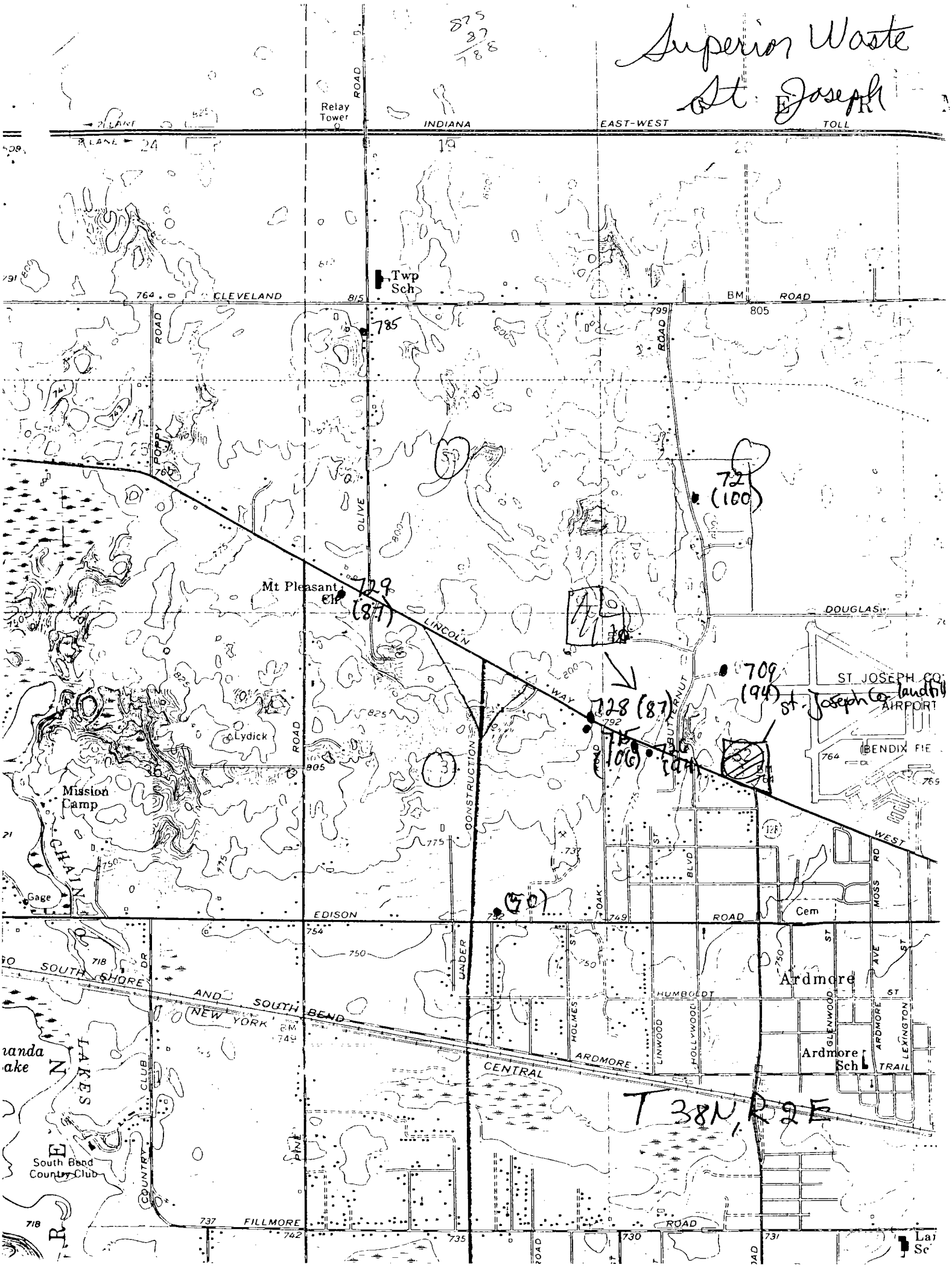
I recommend that this site be scheduled for eventual closure. In the event that such action is not imminent, I recommend that monitoring wells be placed around the perimeter of the site with screens at depths of about 70 feet. In addition, a piezometer nest of three wells should be placed close to the center of the site at stagged depths to monitor the vertical flow gradient and the vertical movement of pollutants. The installation of monitoring wells was included in the final site proposal but has not yet been implemented.

JMKing/ds

Field Obs.

10-6-8

1. Shallow gravel thickens and becomes more extensive in trench on east part of site.


Superior Waste
St. Joseph
875
87
788
Relay Tower
INDIANA
EAST-WEST
TOLL
Twp Sch
CLEVELAND
ROAD
785
POPPY
OLIVE
Mt Pleasant Ch
729 (87)
LINCOLN
WAY
DOUGLAS
721 (100)
709 (94)
ST JOSEPH CO
AIRPORT
St. Joseph Co. landfill
728 (87)
BUTTERNUT
BENDIX FIE
Lydick
Mission Camp
CHAIN
Gage
CONSTRUCTION
UNDER
(50)
EDISON
ROAD
Cem
WEST
SOUTH SHORE AND SOUTH BEND
NEW YORK
CENTRAL
ARDMORE
HUMBOLDT
Ardmore
Ardmore Sch
TRAIL
LAKES
South Bend Country Club
COUNTRY CLUB
PINE
FILLMORE
ROAD
T 38N, R 2E

Well Summary

There were 1 matches.

Click on the Reference Number for more information about any specific well. If you wish to purchase a tab-delimited file, please click "Download Tab-Delimited File".

Download Tab-Delimited File

Reference Number	*Driving directions to well*		*Date completed*
10702			Nov 19, 1977
Owner-Contractor	***Name***	***Address***	***Telephone***
Well Owner	GARY AIRPORT	CONTROL TOWER WELL	
Building Contractor			
Drilling Contractor	SHEEHY WELL CO.	15530 WICKER AVE. CLARK LAKE, IN	
Administrative	***County:*** Lake		***Township:*** 37N ***Range:*** 9W
	Section: NE of the SEof the SE of Section 35		***Topo map:*** Highland
	Grant Number:		
	Subdivision name:		***Lot number:***
	Depth: 26.0		

Download Tab-Delimited File

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
10702		Nov 19, 1977

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	GARY AIRPORT	CONTROL TOWER WELL	
Driller	SHEEHY WELL CO.	15530 WICKER AVE. CLARK LAKE, IN	
Operator	FRANK SHEEHY JR	License: null	

Construction Details

Well	***Use:*** OTHER	***Drilling method:*** Cable Tool	***Pump type:***
	Depth: 26.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 12.5	***Material:***	***Diameter:*** 6.0
Screen	***Length:*** 15.5	***Material:***	***Diameter:*** 5.0 ***Slot size:*** .006

Well Capacity Test

Type of test: ***Test rate:*** gpm for hrs. ***BailTest rate:*** 30.0 gpm for 1.0 hrs.
Drawdown: ft. ***Static water level:*** 4.5 ft. ***Bailer Drawdown*** 4.5 ft.

Grouting Information

Material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Well Abandonment

Sealing material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: Lake ***Township:*** 37N ***Range:*** 9W
Section: NE of the SEof the SE of Section 35 ***Topo map:*** Highland
Grant Number:
Field located by: L WEISS ***on:***
Courthouse location by: ***on:***
Location accepted w/o verification by: ***on:***
Subdivision name: ***Lot number:***
Ft W of EL: 50.0 ***Ft N of SL:*** 1250.0 ***Ft E of WL:*** ***Ft S of NL:***
Ground elevation: 585.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 544.0
UTM Easting: 465560.0 ***UTM Northing:*** 4606650.0

Well Log

Top	Bottom	Formation
0.0	2.0	SANDY TOP SOIL
2.0	12.0	YELLOW SAND
12.0	26.0	CLEAN SAND
26.0	32.0	FINE SAND, CLEAN
32.0	41.0	FINE SAND, DIRTY

Comments

Reference Number	*Driving directions to well*		*Date completed*
291776	GARY AIRPORT		
Owner-Contractor	***Name***	***Address***	***Telephone***
Well Owner			
Building Contractor			
Drilling Contractor	JOE EICH		0-
Administrative	***County:*** Lake	***Township:*** 37N ***Range:*** 9W	
	Section: of Section 36	***Topo map:*** Whiting	
	Grant Number:		
	Subdivision name:	***Lot number:***	
	Depth: 40.0		

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
291776	GARY AIRPORT	

Owner-Contractor	*Name*	*Address*	*Telephone*
Driller	JOE EICH		() -

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:*	*Pump type:*
	Depth: 40.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:* 2.0
Screen	*Length:*	*Material:*	*Diameter: Slot size:*

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Lake *Township:* 37N *Range:* 9W
Section: of Section 36 *Topo map:* Whiting
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	40.0	SAND
40.0	100.0	BLUE CLAY
100.0	105.0	GRAV

Comments

DRILLED TO 105 PULL BACK TO 40 EICH BELIVES GOOD WELL CAN BE MADE AT 100-105 BUT DID NOT TEST LOWER VEIN; ANALYSIS INFO AVAILABLE;

APPENDIX A

IDEM Site Photographs

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 1:35 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW1 (5-7)/E2BW1
SAMPLE TYPE: Groundwater
DESCRIPTION: Background Groundwater sample obtained from a depth of 5-7 feet

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 1:35 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW1 (5-7)/E2BW1
SAMPLE TYPE: Groundwater
DESCRIPTION: Picture shows the area where sample GW1 (5-7) was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 4:30 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW1C (5-7)/E2BW0
SAMPLE TYPE: Groundwater
DESCRIPTION: Groundwater sample obtained from a depth of 5-7 feet

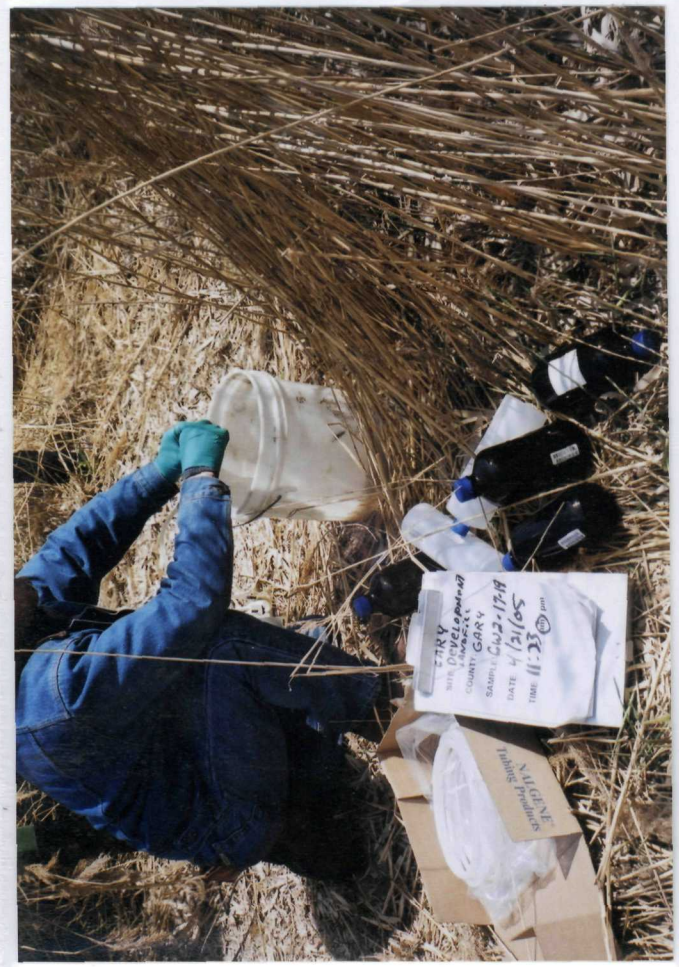
SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 4:30 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW1C (5-7)/E2BW0
SAMPLE TYPE: Groundwater
DESCRIPTION: Picture shows the area where sample GW1C (5-7) was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 9:55 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW2 (10-12)/E2BW3
SAMPLE TYPE: Groundwater
DESCRIPTION: Groundwater sample obtained from a depth of 10-12 feet

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 9:55 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW2 (10-12)/E2BW3
SAMPLE TYPE: Groundwater
DESCRIPTION: Picture shows the area where sample GW1 (10-12) was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 10:00 am
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW3 (10-12)/E2BW4
SAMPLE TYPE: Groundwater
DESCRIPTION: Groundwater sample obtained from a depth of 10-12 feet

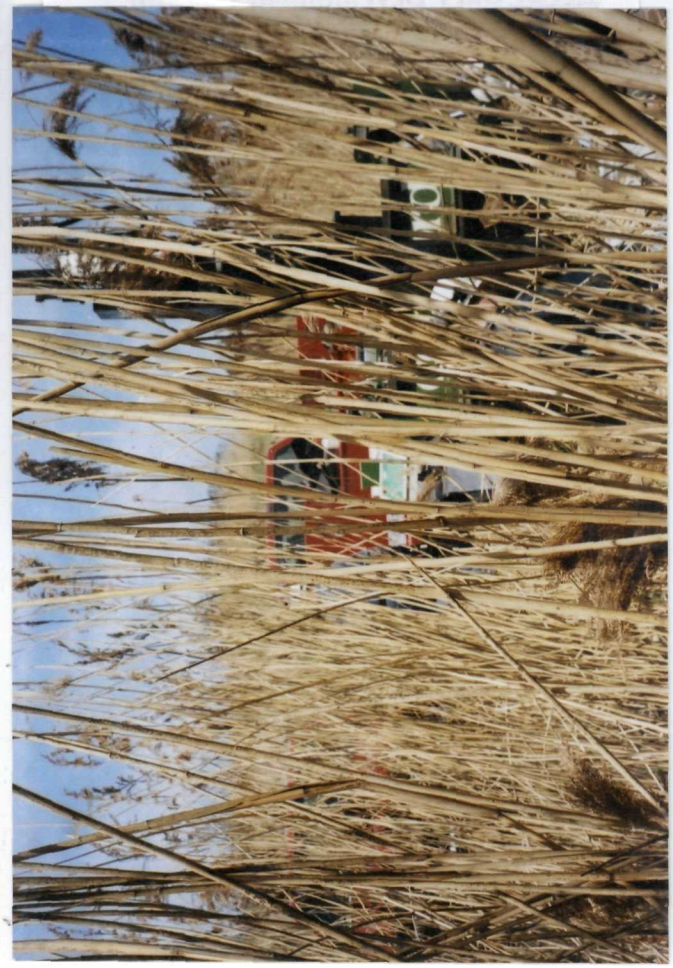
SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 10:00 am
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW3 (10-12)/E2BW4
SAMPLE TYPE: Groundwater
DESCRIPTION: Picture shows the area where sample GW3 (10-12) was obtained



SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 11:23 am
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW2 (17-19)/E2BW2
SAMPLE TYPE: Groundwater
DESCRIPTION: Groundwater san
obtained from a depth of 17-19 feet

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 11:23 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW2 (17-19)/E2BW2
SAMPLE TYPE: Groundwater
DESCRIPTION: Picture shows the are
where sample GW2 (17-19) was obtaine

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 1:45 am
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW4 (7-9)/E2BW6
SAMPLE TYPE: Groundwater
DESCRIPTION: Groundwater sample obtained from a depth of 7-9 feet

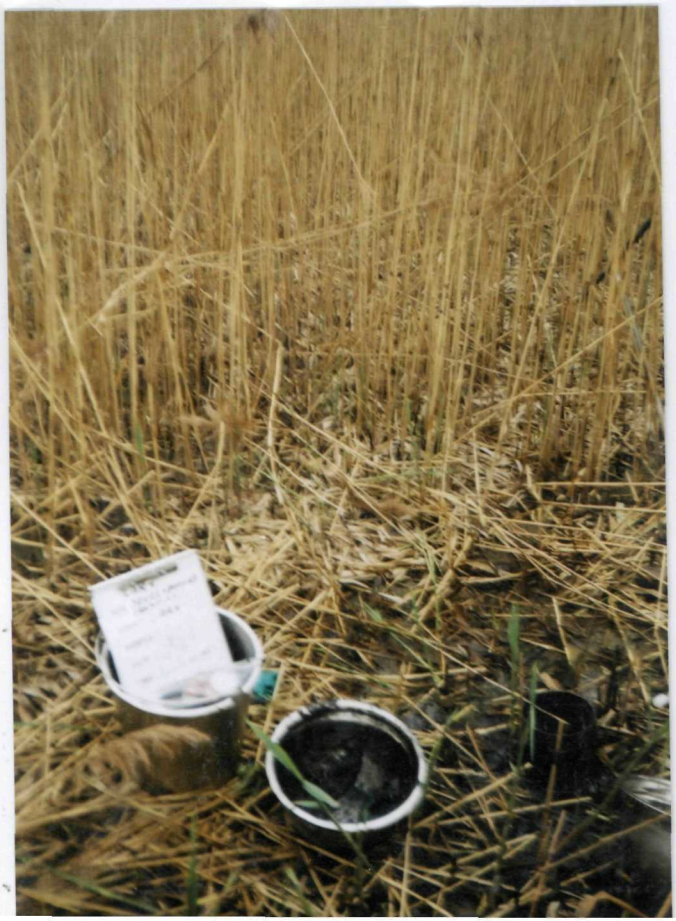


SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 1:45 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# GW4 (7-9)/E2BW6
SAMPLE TYPE: Groundwater
DESCRIPTION: Picture shows the area where sample GW4 (7-9) was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 6:20 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD6A/E2BT9
SAMPLE TYPE: Soil
DESCRIPTION: Soil sample obtained from a depth of 6 inches

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 6:20 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD6A/E2BT9
SAMPLE TYPE: Soil
DESCRIPTION: Picture shows the area where sample SD6A was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 3:25 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD5A/E2BT5/6
SAMPLE TYPE: Soil
DESCRIPTION: Soil sample obtained from the wetland located at the most southeastern sector of the site



SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/21/05
TIME: 3:25 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD5A/E2BT9
SAMPLE TYPE: Soil
DESCRIPTION: Picture shows the area where sample SD5A was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 1:55 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD4A/B/E2BT3/4
SAMPLE TYPE: Soil
DESCRIPTION: Soil sample obtained from the wetland west of SD5A/B

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 1:55 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD4A/B/E2BT3/4
SAMPLE TYPE: Soil
DESCRIPTION: Picture shows the area where sample SD4A/B was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 12:45 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD2A/B/E2BT1/2
SAMPLE TYPE: Soil
DESCRIPTION: Soil sample obtained from the wetland west of SD4A/B

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 12:45 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD2A/B/E2BT9
SAMPLE TYPE: Soil
DESCRIPTION: Picture shows the area where sample SD2A/B was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 10:30 am
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD1A/B/E2BS8/9
SAMPLE TYPE: Sediment
DESCRIPTION: Sediment sample obtained from the top 6 inches of sediment from the pond at the northwest corner of the site

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 10:30 am
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SD1A/B/E2BS8/9
SAMPLE TYPE: Sediment
DESCRIPTION: Picture shows the area where sample SD1A/B was obtained

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 6:00 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SW1/E2BT8
SAMPLE TYPE: Surface water
DESCRIPTION: Surface water obtained from the pond located on the northwest corner of the site

SITE: Gary Development Landfill
EPA ID#: INN077005916
DATE: 4/20/05
TIME: 6:00 pm
WEATHER: Partly Cloudy; 50 °
SAMPLE ID# SW1/E2BT8
SAMPLE TYPE: Surface water
DESCRIPTION: Picture shows the area where sample SW1 was obtained

APPENDIX B

Chemical Analysis Data

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAY 20 2005

Subject: Review of Region 5 Data for **Gary Development Co.**

From: **Stephen Connet, Chemist, Alion Science and Technology / ESAT**
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL on 5-17-05

To:

Attached are the results for: **Gary Development Co.**

CRL data set number(s): **E504002**

Samples analyzed for: **GFAA Antimony, Arsenic, Lead, Selenium, Thallium**

Results are reported for sample designations: **E504002-01 thru -08**

RECEIVED

MAY 25 2005

DEPARTMENT OF
ENVIRONMENTAL MA
OFFICE OF LAND QU

William Sy MAY 20 2005

Data Management Coordinator and Date Received

Date Transmitted: MAY / /

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Attached are the results for: **Gary Development Co.**

CRL data set number(s): **E504002**

Samples analyzed for: **GFAA Antimony, Arsenic, Lead, Selenium, Thallium**

Results are reported for sample designations: **E504002-01 thru -08**

Rev. 4/10/02

Method: 200.9 (GFAA Metals)
Site: Gary Development Co.
Date: April 29, 2005
Prepared by: Stephen Connet

TDF: 5-22-062
Alion Job #: 246-0-1476-202-085-001
Task Order #: 05-1-22
Data Set: E504002

NARRATIVE

Eight (8) water samples from the Gary Development Co. site were collected between April 20-21, 2005 and were received at CRL on April 22, 2005. The cooler containing the samples was received at 14.4°C and samples E504002-04 thru -08 were incorrectly preserved. The samples were submitted to ESAT for analysis of antimony, arsenic, lead, selenium, and thallium by GFAA. Cadmium results are reported from ICP. The sample point identifications are on the first page of the LIMS report following this narrative.

Incorrectly preserved samples were adjusted on April 22, 2005. All water samples were digested following standard CRL 200.2 hot block digestion protocols (CRL SOP METALS025) on April 25, 2005 (LIMS digestion batch ED52202) after rechecking the pH of the samples which were adjusted. All analyses were performed between April 26 and 28, 2005 using 200.9 methods (CRL SOP's METALS017/019). Lead was analyzed on the SimAA 6000 using the multi-element cadmium/lead program. Only lead was reported due to matrix spike failure of cadmium. Antimony and thallium were also analyzed on the SimAA 6000 using single element programs (CRL SOP METALS017). Arsenic and selenium were analyzed on the AAnalyst 800 (CRL SOP METALS019). The concentrations for the LCS and matrix spike in SOP METALS017 were changed in a memo from Dr. J. V. Morris of CRL on September 11, 2002. QC limits are based on ESAT control limits; CRL default limits are used if ESAT limits are greater than CRL limits.

No samples were identified as field duplicates or field blanks.

Because reported QC values are less than 5 times the MDL for all elements except arsenic, the duplicate difference criteria are used for control purposes for all elements except arsenic; all matrix duplicates except arsenic are flagged "<5X" in LIMS. Duplicate RPD is reported for arsenic. The antimony duplicate difference was greater than the ESAT limit; however, since both values were less than the MDL, the difference is considered acceptable. For selenium, the ICP blank and matrix spikes were diluted appropriately and analyzed due to the amount of dilution required to obtain an acceptable analytical spike result for the GFAA matrix spike. All other QC were within limits. All samples were analyzed within the holding time limit.

The following results between the method detection limit (MDL) and the RL are reported as the instrument value with a "J" flag and are considered estimated: E504002-02 for antimony; E504002-03, -06, and -08 for arsenic; E504002–01, -03 and -05 for lead. The presence of interference required some samples to be diluted in order to meet analytical spike recovery criteria. The following reported values are adjusted for dilution: E504002-03 thru -08 for antimony; ED52202-MS2 for arsenic, E504002-01, -03 thru -08, ED52202-DUP1 and -MS2 for selenium; E504002-01, -03 thru -08 and ED52202-DUP1 for thallium. All other sample results are acceptable. Where appropriate, reported values are dilution corrected.

QC reports which include analytical QC are provided as Lotus spreadsheets. Logbook entries for this metals analysis can be found in Alion logbook C31959.

5-10-05

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Gary Development Landfill	
77 West Jackson Boulevard	Project Number: 2005IN1	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	May-10-05 15:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01 SW1 (CN S05)	E504002-01	Water	Apr-20-05 18:00	Apr-22-05 08:40
S04 GW1 (5-7) (CN S03)	E504002-02	Water	Apr-20-05 13:25	Apr-22-05 08:40
S02 GW1 (14-16) (CN S06)	E504002-03	Water	Apr-20-05 16:30	Apr-22-05 08:40
S10 GW2 (10-12) (CN S08)	E504002-04	Water	Apr-21-05 09:55	Apr-22-05 08:40
S09 GW2 (17-19) (CN S07)	E504002-05	Water	Apr-21-05 11:23	Apr-22-05 08:40
S12 GW3 (10-12) (CN S11)	E504002-06	Water	Apr-21-05 10:00	Apr-22-05 08:40
S16 GW4 (7-9) (CN S14)	E504002-07	Water	Apr-21-05 13:45	Apr-22-05 08:40
S15 GW4 (13-15) (CN S13)	E504002-08	Water	Apr-21-05 14:17	Apr-22-05 08:40

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5-10-05

Stephen Connet, Chemist

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SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Gary Development Landfill	
77 West Jackson Boulevard	Project Number: 2005IN1	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	May-10-05 15:39

Metals by GFAA
Alion - ESAT Contract

S01 SW1 (CN S05) (E504002-01) Water Sampled: Apr-20-05 18:00 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1.0	4.0	ug/L	1	ED52202	Apr-25-05	Apr-26-05
Arsenic	8.2		0.5	2.0	"	"	"	"	Apr-26-05
Lead	1.8	J	0.5	2.0	"	"	"	"	Apr-28-05
Selenium	U		10	40	"	10	"	"	Apr-27-05
Thallium	U		1.0	4.0	"	2	"	"	Apr-27-05

S04 GW1 (5-7) (CN S03) (E504002-02) Water Sampled: Apr-20-05 13:25 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	1.4	J	1.0	4.0	ug/L	1	ED52202	Apr-25-05	Apr-26-05
Arsenic	U		0.5	2.0	"	"	"	"	Apr-26-05
Lead	U		0.5	2.0	"	"	"	"	Apr-28-05
Selenium	U		1	4	"	"	"	"	Apr-27-05
Thallium	U		0.5	2.0	"	"	"	"	Apr-27-05

S02 GW1 (14-16) (CN S06) (E504002-03) Water Sampled: Apr-20-05 16:30 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		2.0	8.0	ug/L	2	ED52202	Apr-25-05	Apr-26-05
Arsenic	0.8	J	0.5	2.0	"	1	"	"	Apr-26-05
Lead	1.6	J	0.5	2.0	"	"	"	"	Apr-28-05
Selenium	U		2	8	"	2	"	"	Apr-27-05
Thallium	U		1.5	6.0	"	3	"	"	Apr-27-05

S10 GW2 (10-12) (CN S08) (E504002-04) Water Sampled: Apr-21-05 09:55 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		5.0	20.0	ug/L	5	ED52202	Apr-25-05	Apr-26-05
Arsenic	2.0		0.5	2.0	"	1	"	"	Apr-26-05
Lead	U		0.5	2.0	"	"	"	"	Apr-28-05
Selenium	U		2	8	"	2	"	"	Apr-27-05
Thallium	U		1.0	4.0	"	"	"	"	Apr-27-05

5-10-05

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Stephen Connet, Chemist

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Gary Development Landfill Project Number: 2005IN1 Project Manager: Warren Layne	**Reported:** May-10-05 15:39

Metals by GFAA
Alion - ESAT Contract

S09 GW2 (17-19) (CN S07) (E504002-05) Water Sampled: Apr-21-05 11:23 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		5.0	20.0	ug/L	5	ED52202	Apr-25-05	Apr-26-05
Arsenic	7.4		0.5	2.0	"	1	"	"	Apr-26-05
Lead	0.6	J	0.5	2.0	"	"	"	"	Apr-28-05
Selenium	U		10	40	"	10	"	"	Apr-27-05
Thallium	U		5.0	20.0	"	"	"	"	Apr-27-05

S12 GW3 (10-12) (CN S11) (E504002-06) Water Sampled: Apr-21-05 10:00 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		5.0	20.0	ug/L	5	ED52202	Apr-25-05	Apr-26-05
Arsenic	1.9	J	0.5	2.0	"	1	"	"	Apr-26-05
Lead	U		0.5	2.0	"	"	"	"	Apr-28-05
Selenium	U		2	8	"	2	"	"	Apr-27-05
Thallium	U		1.0	4.0	"	"	"	"	Apr-27-05

S16 GW4 (7-9) (CN S14) (E504002-07) Water Sampled: Apr-21-05 13:45 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		3.0	12.0	ug/L	3	ED52202	Apr-25-05	Apr-26-05
Arsenic	U		0.5	2.0	"	1	"	"	Apr-26-05
Lead	U		0.5	2.0	"	"	"	"	Apr-28-05
Selenium	U		2	8	"	2	"	"	Apr-27-05
Thallium	U		1.0	4.0	"	"	"	"	Apr-27-05

S15 GW4 (13-15) (CN S13) (E504002-08) Water Sampled: Apr-21-05 14:17 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		10.0	40.0	ug/L	10	ED52202	Apr-25-05	Apr-26-05
Arsenic	1.9	J	0.5	2.0	"	1	"	"	Apr-26-05
Lead	3.3		0.5	2.0	"	"	"	"	Apr-28-05
Selenium	U		3	12	"	3	"	"	Apr-27-05
Thallium	U		1.0	4.0	"	2	"	"	Apr-27-05

5-10-05

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Stephen Connet, Chemist

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Gary Development Landfill Project Number: 2005IN1 Project Manager: Warren Layne	**Reported:** May-10-05 15:39

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

5-10-05

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Stephen Connet, Chemist

Analytical Results (Qualified Data) Page ____ of ____

Case #: 34107 SDG : ME2BS8
Site : GARY DEVELOPMENT LANDFILL Number of Soil Samples : 10
Lab. : BONNER Number of Water Samples : 0
Reviewer :
Date :

Sample Number :	ME2BS8		ME2BS9		ME2BT0		ME2BT1		ME2BT2	
Sampling Location :	SD1A		SD-1B		SD2A		SD2B		SD3A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	10:30		10:45		02:00		12:45		12:45	
%Solids :	47.8		78.5		44.2		76.7		48.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5050		941		15500		1790		16000	
ANTIMONY	2.6	UJ	0.80	UJ	2.1	UJ	7.8	UJ	1.8	UJ
ARSENIC	2.4	J	1.3	U	6.8		1.3	U	5.7	
BARIUM	59.0	J	7.6	J	143		13.5	J	142	
BERYLLIUM	0.65	J	0.040	J	1.1	J	0.10	J	1.1	J
CADMIUM	1.4	J	0.64	U	1.5	J	0.040	J	1.6	J
CALCIUM	7810		524	J	29500		674	J	27800	
CHROMIUM	15.6		1.9	J	80.1		8.4		85.8	
COBALT	1.7	J	0.77	J	8.5	J	1.5	J	8.5	J
COPPER	30.0		0.49	J	120		7.9		124	
IRON	8020		1480		28600		3220		28600	
LEAD	127		1.0	J	153		9.9		158	
MAGNESIUM	822	UJ	280	UJ	13800		829	UJ	13700	
MANGANESE	155		13.6		590		28.9		553	
MERCURY	0.21	U	0.13	U	0.20	J+	0.13	U	0.19	J+
NICKEL	8.3	J	1.4	J	44.9		6.2	J	45.5	
POTASSIUM	441	J	152	J	10300		1970		9700	
SELENIUM	7.3	U	4.5	U	2.7	J	4.6	U	3.5	J
SILVER	2.1	U	1.3	U	2.3	U	1.3	U	2.0	U
SODIUM	261	J	119	J	8200		2140		7070	
THALLIUM	5.2	U	3.2	U	2.1	J	3.3	U	2.4	J
VANADIUM	13.5	J	2.2	J	37.3		4.7	J	37.5	
ZINC	291		14.0	J	397		36.3		409	
CYANIDE	5.2	U	3.2	U	5.7	U	3.3	U	5.1	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data) Page ____ of ____

Case #: 34107 SDG : ME2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : BONNER
Reviewer :
Date :

Sample Number :	ME2BT3		ME2BT4		ME2BT5		ME2BT6		ME2BT9	
Sampling Location :	SD4A		SD4B		SD5B		SD5A		SD6A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	13:55		13:55		15:25		15:25		18:20	
%Solids :	20.9		43.6		36.4		48.4		73.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	26300		10000		12100		39000		22200	
ANTIMONY	3.3	UJ	1.4	UJ	6.1	UJ	12.4	UJ	19.9	J+
ARSENIC	21.3		22.2		11.8		9.6		15.3	
BARIUM	239		154		94.6	J	276		215	
BERYLLIUM	1.8	J	1.3	J	1.1	J	1.9	J	1.2	J
CADMIUM	5.2		10.2		3.9		1.7	J	1.5	
CALCIUM	83600		25100		9120		106000		93700	
CHROMIUM	432		840		155		76.9		49.8	
COBALT	20.6	J	16.1	J	7.7	J	16.9	J	18.6	
COPPER	213		252		107		556		151	
IRON	119000		236000		46300		46700		39600	
LEAD	448		772		217		93.4		231	
MAGNESIUM	30500		7690		5060		44800		45900	
MANGANESE	1380		2420		341		818		763	
MERCURY	0.53	J+	0.74	J+	0.26	J+	0.070	J+	0.075	J+
NICKEL	93.8		148		68.8		65.8		54.2	
POTASSIUM	24000		6400		4750		12700		6040	
SELENIUM	8.1	J	26.7		4.8	J	3.7	J	4.3	J
SILVER	1.1	J+	1.2	J+	2.7	U	2.1	U	1.4	U
SODIUM	24100		6760		4450		5270		2050	
THALLIUM	6.2	J	14.3		2.1	J	2.1	J	2.1	J
VANADIUM	74.6		41.9		23.2	J	53.1		37.3	
ZINC	2020		3370		849		470		239	
CYANIDE	12.0	U	2.9	J	2.6	J	5.2	U	3.4	U

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Analytical Results (Qualified Data) Page ____ of ____

Case #: 34107 SDG : ME2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : BONNER
Reviewer :
Date :

Sample Number :	ME2BS8D		ME2BS8S							
Sampling Location :	SD1A		SD1A							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	4/20/2005		4/20/2005							
Time Sampled :	10:30		10:30							
%Solids :	47.5		47.8							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4110		5900							
ANTIMONY	2.2	J	25.1							
ARSENIC	2.2	J	16.6							
BARIUM	49.9	J	901							
BERYLLIUM	0.52	J	20.7							
CADMIUM	1.3	J	22.4							
CALCIUM	6710		7970							
CHROMIUM	13.1		99.7							
COBALT	1.4	J	214							
COPPER	25.2		131							
IRON	6570		8520							
LEAD	103		135							
MAGNESIUM	701	J	877	J						
MANGANESE	131		371							
MERCURY	0.071	J	1.3							
NICKEL	7.1	J	218							
POTASSIUM	356	J	472	J						
SELENIUM	7.3	U	17.3							
SILVER	2.1	U	18.9							
SODIUM	261	J	249	J						
THALLIUM	5.2	U	21.5							
VANADIUM	11.4	J	216							
ZINC	236		520							
CYANIDE	5.2	U	9.4							

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAY 20 2005

Subject: **Review of Region 5 Data for Gary Development Company, Inc.**

From: Linda J. Moore
Linda Moore, Assistant Chemist, Alion Science and Technology / ESAT
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL

To:

Attached are the results for: **Gary Development Company, Inc.**
CRL data set number: **E504002**

Samples analyzed for: **Mercury**

Results are reported for sample designations: **E504002-01 to -08**

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William [illegible] MAY 20 2005

Data Management Coordinator and Date Received

Date Transmitted: MAY 20 2005

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____ / /

Received by and Date

Comments:

Attached are the results for: **Gary Development Company, Inc.**

CRL data set number: **E504002**
Samples analyzed for: **Mercury**

Results are reported for sample designations: **E504002-01 to -08**

Rev. 4/10/02

Parameter: Total Mercury (water)
Method: 245.2 (AIG044)
Analyst: Linda Moore Linda J. Moore
Date: May 17, 2005

Data Set: E504002
TDF: 5-22-062
Job#: 246-0-1476-202-085-001
Task Order: 05-1-22

NARRATIVE

Eight water samples from Gary Development Co, Inc. Landfill (Gary, IN) site were collected April 20-21, 2005. The samples were received by CRL/ESAT on April 22, 2005, at 14.4 ° C which is above the acceptance criteria of 4±2 °C. The following samples were also received at the incorrect pHs shown on the Work Order report:

E504002-04	S10 GW 2 (10-12) (CN S08)
E504002-05	S07 GW 2 (17-19) (CN S07)
E504002-06	S12 GW 3 (10-12) (CN S11)
E504002-07	S16 GW 4 (7-9) (CN S14)
E504002-08	S15 GW 4 (13-15) (CN S13)

The Work Order report details the laboratory's corrective actions to correctly preserve the samples for analysis. The sample points are identified on the first page of the LIMS report. Both the incorrect sample receiving temperature and incorrect pH resulted in analytical results being flagged "J "in LIMS and being considered estimated. The samples were submitted to ESAT for mercury analysis.

The samples were manually digested for mercury analysis on May 11, 2005 (LIMS QC batch EE51201). Analysis was completed within the holding time limit on May 12, 2005 using the PSA Analyzer, according to SOP AIG044. Because the stock organic mercury standard (VHG Lot # 242481A) had expired, an organic mercury standard (Alfa-Lot # K10F) was prepared gravimetrically, from solid material, digested and analyzed. Its results verified that the stock organic mercury standard (VHG) concentration had not deteriorated, although the standard was past the manufacturer's stated expiration date. Results for both standards are reported.

The results for all samples are also flagged "J" in LIMS due to a variance from the SOP with the inorganic calibration standard. The inorganic calibration verification standard was digested and analyzed following the calibration curve; its acceptable results verified the calibration curve. The SOP also requires analysis of this standard following the analysis of samples. Due to analyst oversight, the inorganic calibration check standard was not analyzed following samples. However, the two independent organic calibration check standards were analyzed prior to and just following samples. Acceptable results for these initial and continuing organic standards confirmed that the calibration was acceptable throughout the run. Attempts to rerun the samples were unsuccessful.

The duplicate result (EE512001-DUP1) is flagged "<5X" in LIMS to indicate that the sample and duplicate are < 5X the method detection limit (MDL) and duplicate difference was used for control purposes and is acceptable. All QC audits were acceptable. LIMs results for relative percent difference (RPD) and percent recovery (%R) for the matrix spike (MS) differ from those on the QC Summary due to the number of significant figures used in the calculations. LIMs calculations are performed using rounded results; QC summary calculations are performed using results which have not been rounded.

Results for samples E504002-02 and -03 are also flagged "J" in LIMS to indicate that they are between the method detection limit (MDL) and the reporting limit and are considered estimated.

Logbook entries for this analysis can be found in Alion logbook 31994.

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Gary Development Landfill	
77 West Jackson Boulevard	Project Number: 2005IN1	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	May-18-05 15:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01 SW1 (CN S05)	E504002-01	Water	Apr-20-05 18:00	Apr-22-05 08:40
S04 GW1 (5-7) (CN S03)	E504002-02	Water	Apr-20-05 13:25	Apr-22-05 08:40
S02 GW1 (14-16) (CN S06)	E504002-03	Water	Apr-20-05 16:30	Apr-22-05 08:40
S10 GW2 (10-12) (CN S08)	E504002-04	Water	Apr-21-05 09:55	Apr-22-05 08:40
S09 GW2 (17-19) (CN S07)	E504002-05	Water	Apr-21-05 11:23	Apr-22-05 08:40
S12 GW3 (10-12) (CN S11)	E504002-06	Water	Apr-21-05 10:00	Apr-22-05 08:40
S16 GW4 (7-9) (CN S14)	E504002-07	Water	Apr-21-05 13:45	Apr-22-05 08:40
S15 GW4 (13-15) (CN S13)	E504002-08	Water	Apr-21-05 14:17	Apr-22-05 08:40

000008

Linda G. Moore, 5/18/05
Linda Moore, Chemist

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Gary Development Landfill	
77 West Jackson Boulevard	Project Number: 2005IN1	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	May-18-05 15:52

Cold Vapor Analyses
Alion - ESAT Contract

S01 SW1 (CN S05) (E504002-01) Water Sampled: Apr-20-05 18:00 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	**U**	J	0.1	0.5	ug/L	1	EE51201	May-11-05	May-12-05

S04 GW1 (5-7) (CN S03) (E504002-02) Water Sampled: Apr-20-05 13:25 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	**0.2**	J	0.1	0.5	ug/L	1	EE51201	May-11-05	May-12-05

S02 GW1 (14-16) (CN S06) (E504002-03) Water Sampled: Apr-20-05 16:30 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	**0.2**	J	0.1	0.5	ug/L	1	EE51201	May-11-05	May-12-05

S10 GW2 (10-12) (CN S08) (E504002-04) Water Sampled: Apr-21-05 09:55 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	**U**	J	0.1	0.5	ug/L	1	EE51201	May-11-05	May-12-05

S09 GW2 (17-19) (CN S07) (E504002-05) Water Sampled: Apr-21-05 11:23 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	**U**	J	0.1	0.5	ug/L	1	EE51201	May-11-05	May-12-05

S12 GW3 (10-12) (CN S11) (E504002-06) Water Sampled: Apr-21-05 10:00 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	**U**	J	0.1	0.5	ug/L	1	EE51201	May-11-05	May-12-05

S16 GW4 (7-9) (CN S14) (E504002-07) Water Sampled: Apr-21-05 13:45 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	**U**	J	0.1	0.5	ug/L	1	EE51201	May-11-05	May-12-05

S15 GW4 (13-15) (CN S13) (E504002-08) Water Sampled: Apr-21-05 14:17 Received: Apr-22-05 08:40

000009

Linda J. Moore, 5/18/05
Linda Moore, Chemist

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Gary Development Landfill Project Number: 2005IN1 Project Manager: Warren Layne	**Reported:** May-18-05 15:52

Cold Vapor Analyses
Alion - ESAT Contract

S15 GW4 (13-15) (CN S13) (E504002-08) Water Sampled: Apr-21-05 14:17 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U	J	0.1	0.5	ug/L	1	EE51201	May-11-05	May-12-05

000010

Linda J. Moore, 5/18/05
Linda Moore, Chemist

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Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Gary Development Landfill	
77 West Jackson Boulevard	Project Number: 2005IN1	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	May-18-05 15:52

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

000011

Linda J. Moore 5/18/05
Linda Moore, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAY 20 2005

Subject: Review of Region 5 Data for **Gary Development Landfill**
From: lm Linda Moore, Assistant Chemist, Alion Science and Technology / ESAT Contractor to Region 5 Central Regional Laboratory
Submitted to CRL 5/18/2005
To:

Attached are the results for: **Gary Development Landfill**

CRL data set number: **E504002**

Samples analyzed for: **Cyanide (total)**

Results are reported for sample designations: **E504002-01 to -08.**

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Method:	**335.2 NS (CRL SOP AIG025)**	**TDF:**	**5-22-062**
Site:	**Gary Development Landfill**	**Data Set #:**	**E504002**
Date:	**May 9, 2005**	**Task Order#:**	**05-1-22**
Prepared by:	**Linda J. Moore** Linda J. Moore	**Job Number:**	**246-0-1476-202-085-001**

NARRATIVE

Eight water samples from Gary Development Co, Inc. Landfill (Gary, IN) site were collected April 20-21, 2005. The samples were received by CRL/ESAT on April 22, 2005, at 14.4 ° C which is above the acceptance criteria of 4±2 °C; all sample results are flagged "J" and are considered estimated. Samples were submitted to ESAT for cyanide analysis. The sample points are identified on the first page of the LIMS report.

All samples for cyanide analysis were received at the correct pH (> pH 12) except for sample E504002-03 [S02 GW1 (14-16) (CN S06)], which was received at pH 7 standard units. The client was contacted about this sample and requested that it be analyzed despite the pH discrepancy. The sample was distilled and analyzed with the rest of the samples. No attempt was made to adjust the pH of the sample prior to distillation due to the amount of time elapsed between sampling and receipt. The distillate was analyzed with a result of non-detect. This result, however, is meaningless since the sample arrived at the laboratory incorrectly preserved. The LIMs report defaults to a notation of "Rejected " in place of a sample result based on the incorrect preservation.

All samples for cyanide analysis were screened for interferences from residual chlorine and sulfide with negative results. Prior to distillation on the EasyStill MIDI distillation unit, sulfamic acid was added to all samples to eliminate nitrate and nitrite interferences. Screening and distillation was completed on April 25, 2005 as LIMS batch ED52201.

Sample distillates were analyzed April 26, 2005 on the Lachat Quickchem 8000 Autoanalyzer, according to CRL SOP AIG025 (Method 335.2). Samples and associated QC audits were evaluated using control limits based on ESAT control charts. An independent control sample (ED52201-SRM1) was distilled in the batch and was diluted 1:1 prior to analysis on the Lachat. All QC audits met the ESAT acceptance limits.

The results for samples E504002-01 and E504002-08 are also flagged "J" in LIMs to indicate that their results are greater than the method detection limit (MDL), but less than the reporting limit and are considered estimated.

The sample and duplicate results were less than 5X the MDL; duplicate difference was used for control purposes. The duplicate result (ED52201-DUP1) is flagged "<5X" in LIMS to indicate that the duplicate difference is acceptable.

QC reports which include analytical and matrix QC are provided as EXCEL spreadsheets. Logbook entries for this analysis can be found in Alion logbook C31860, pages 23-25 and Alion logbook C32035, pages 1 and 2.

ALION SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund US EPA Region 5 77 West Jackson Boulevard Chicago IL 60604	Project: Gary Development Landfill Project Number: 2005IN1 Project Manager: Warren Layne	**Reported:** May-18-05 09:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01 SW (CN S05)	E504002-01	Water	Apr-20-05 18:00	Apr-22-05 08:40
S04 GW (5-7) (CN S03)	E504002-02	Water	Apr-20-05 13:25	Apr-22-05 08:40
S02 GW (14-16) (CN S06)	E504002-03	Water	Apr-20-05 16:30	Apr-22-05 08:40
S10 GW (10-12) (CN S08)	E504002-04	Water	Apr-21-05 09:55	Apr-22-05 08:40
S09 GW (17-19) (CN S07)	E504002-05	Water	Apr-21-05 11:23	Apr-22-05 08:40
S12 GW (10-12) (CN S11)	E504002-06	Water	Apr-21-05 10:00	Apr-22-05 08:40
S16 GW (7-9) (CN S14)	E504002-07	Water	Apr-21-05 13:45	Apr-22-05 08:40
S15 GW (13-15) (CN S13)	E504002-08	Water	Apr-21-05 14:17	Apr-22-05 08:40

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Linda J Moore 5/18/05
Linda Moore, Chemist

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Gary Development Landfill Project Number: 2005IN1 Project Manager: Warren Layne	**Reported:** May-18-05 09:53

Automated Colorimetric Analyses
Alion - ESAT Contract

S01 SW1 (CN S05) (E504002-01) Water Sampled: Apr-20-05 18:00 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	**2**	J	2	5	ug/L	1	ED52201	Apr-25-05	Apr-26-05

S04 GW1 (5-7) (CN S03) (E504002-02) Water Sampled: Apr-20-05 13:25 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	**U**	J	2	5	ug/L	1	ED52201	Apr-25-05	Apr-26-05

S02 GW1 (14-16) (CN S06) (E504002-03) Water Sampled: Apr-20-05 16:30 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	**Rejected**	J	2	5	ug/L	1	ED52201	Apr-25-05	Apr-26-05

S10 GW2 (10-12) (CN S08) (E504002-04) Water Sampled: Apr-21-05 09:55 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	**9**	J	2	5	ug/L	1	ED52201	Apr-25-05	Apr-26-05

S09 GW2 (17-19) (CN S07) (E504002-05) Water Sampled: Apr-21-05 11:23 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	**26**	J	2	5	ug/L	1	ED52201	Apr-25-05	Apr-26-05

S12 GW3 (10-12) (CN S11) (E504002-06) Water Sampled: Apr-21-05 10:00 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	**8**	J	2	5	ug/L	1	ED52201	Apr-25-05	Apr-26-05

S16 GW4 (7-9) (CN S14) (E504002-07) Water Sampled: Apr-21-05 13:45 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	**U**	J	2	5	ug/L	1	ED52201	Apr-25-05	Apr-26-05

000010

Linda J. Moore 5/18/05
Linda Moore, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAY 20 2005

Subject: Review of Region 5 Data for **Gary Development (Gary, IN)**

From: **Marjorie Mattox, Chemist, ESAT/ALION**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA: Marjorie L. Mattox 5-17-05

To:

Attached are the results for: **Gary Development (Gary, IN)**

CRL data set number: **E504002**

Samples analyzed for: **ICP Metals & Cd**

Results are reported for sample designations: **E504002-01 to -08**

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William [illegible] MAY 20 2005

Data Management Coordinator and Date Received

Date Transmitted: May 2005

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Attached are the results for: **Gary Development (Gary, IN)**

CRL data set number: **E504002**

Samples analyzed for: **ICP Metals & Cd**

Results are reported for sample designations: **E504002-01 to -08**

Rev. 4/10/02

Parameter: ICP Metals & Cd
Method: CRL Metals 003 & Metals 025
Analyst: M. Mattox M. Mattox
Date: May 2, 2005 5-2-05

Work Order: E504002
TDF: 5-22-062
Task Order: 05-1-22
JOB: 246-0-1476-202-085-001

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ICP NARRATIVE

This narrative covers the analysis of 8 water samples from the Gary Development Co. Inc. site. The water samples were submitted to ESAT for ICP metals analysis. Cadmium analysis was also requested in addition to the usual ICP metals. The samples were collected on April 20, 21, 2005. The samples were received and assigned to ESAT on April 22, 2005. The samples were assigned work order E504002. The cooler temperature was 14.4 degrees C upon receipt. Samples E504002-04 to -08 were received at an incorrect pH. See the work order for a listing of the pH upon receipt and the amount of HNO3 added to the samples on April 22, 2005. Once the samples pH's have been adjusted and the samples have been allowed to become stable for at least 24 hours analysis can continue with no effect on analytical data.

For a more detailed listing of sample ID, laboratory ID, field station ID, and sampling dates, refer to the Work Order pages and/or the initial LIMS report pages where such listings can be found.

Routine CRL SOP Metals 025 (water) was used to prepare the water samples for ICP analysis. The samples were digested on April 25, 2005 as LIMS batch ED52202 along with samples from work order E504001, LIMS batch ED51802. Analysis was originally attempted on April 27, 2005 on the Optima 4300. However, analysis could not be completed due to high levels of K and Na in sample E504002-05 which caused the plasma to extinguish. Discussion with EPA concluded that the Optima 3300 may be better able to handle the matrix. Therefore analysis was completed on the Optima 3300 on April 28, 2005 following CRL SOP Metals 003 protocols. The analytical run was set up such that all samples were analyzed at a 2 fold dilution first surrounded by instrument QC. The samples were then analyzed undiluted surrounded by QC. Results are reported from the undiluted data in most cases. The amount of K and Na observed in many samples required additional dilutions. See the description for each element below for more detailed information.

All samples were analyzed within the holding time limit.

Analysis QC background information

A RL solution concentrate was prepared on December 31, 2003 for use in analysis. A second solution concentrate was prepared on December 17, 2004 for all analytes for which the standards had expired in the original solution. The RL solution values are now the RL's being used for reporting data. A list of the current RL values in the solution can be found in the QC summary, Lotus spreadsheet, portion of the report.

29 to 31 analyte lines out of a possible 85 lines available using the Optima 3300 DV method were chosen by a plan agreed upon by Dr. J. V. Morris. These are to be used for routine reporting of analyte values that appear in the QA summary reports.

Analysis run results

The following analytes will not be addressed, all other analytes will be discussed in this case narrative:

As, B, Ce, Li, Mo, Pb, Sb, Se, Sn, Sr, Ti, Tl, Y

Two sets of QA/QC limits were provided with this work order. CRL limits and a set of ESAT limits which were established ESAT control charts are also provided. ESAT limits were provided for the LCM1, LCM2, HI AQC, blank spike, matrix duplicate and matrix spike. The matrix duplicate did not have enough data for some analytes, those listed are the only analytes with enough data. Since these limits will be updated following subsequent analyses, the limits are subject to change. All instrument and preparation blank data are being recorded but the limits for blanks will always be the MDL.

For matrix duplicate QC audits with adequate points and LCM1 QC audits, ESAT control limits are used if they are tighter than EPA default limits. For blank spike and matrix spike QC audits the ESAT limit is used for the upper or lower limit if it is tighter than the EPA default upper or lower limit for all analytes.

The following lists the case pertinent out-of-control QC audit check results based on default QA / QC (traditional) limits:

E504002 Optima 3300 analysis :

Instrument QC:

04/28/05 analysis:

Blanks: (Blank values are rounded)

Instrument Blank #1		Instrument Blank #2		Instrument Blank #3		Instrument Blank #4	
Al396	47.65 ug/L	Al396	31.73 ug/L	Al396	38.38 ug/L	Al396	21.76 ug/L
Ca315	37.75 "	Ca315	61.73 "	Ca315	116.19 "	Cr267	0.78 "
Cr267	2.40 "	Cr267	0.90 "	Cd226	-0.46 "	Fe259	11.70 "
Cu327	1.21 "	Fe259	34.30 "	Cr267	1.26 "	Fe273	23.04 "
Fe259	52.92 "	Fe273	43.98 "	Fe259	32.09 "	Mn257	0.38 "
Fe273	65.74 "	K766	525.14 "	Fe273	44.34 "	Na589	970.82 "
Mn257	1.39 "	Mg279	38.15 "	K766	851.23 "		
Zn213	9.86 "	Mn257	0.88 "	Mg279	117.61"		
		Na589	3778.69 "	Mn257	1.01 "		
		Zn213	7.34 "	Na589	5480.09 "		

LCM1's:

LCM1 1: Percent deviation		LCM1 2: Percent deviation		LCM1 3: Percent deviation		LCM1 4: Percent deviation	
Ag328	++	Ag328	++	Ag328	++	Ag328	++
Fe273	**, 14.00	Ca315	***, 10.84	Ca315	***, 10.88	Cu327	+, 1.60
		Fe273	**, 12.26	Fe273	**, 12.15	Fe273	**, 10.33
		Na589	***, 269.12	K766	***, 14.16	Na589	***, 95.28
				Na589	***, 420.90		

+ ESAT limit exceeded

++ upper concentration level exceeded ; LCM2 check audits used for control purposes

** alternate line / level used for control purposes

*** level used for control purposes for sample values less than 10,000 ug/l, Hi AQC used for sample values greater than 10,000 ug/l.

M. Mattos 5-2-05

Matrix QC:

Preparation Blank:	ED52202-BLK1:	Al396	21.89	ug/L
		Ca315	34.23	"
		Cu327	1.19	"
		Fe259	43.96	"
		Fe273	55.44	"
		Mn257	0.79	"

Matrix Duplicate:	ED52202-DUP1:	Al396	13.57 RPD, *
		Cu327	43.17 RPD, *
		Ag328, Be313, Cd226, Co228, Zn213; <5X (difference)	

The "*" indicates that a duplicate QC audit was out of control.

<5X was used to point out that the duplicate difference was used for QC evaluation purposes, the RPD was not always listed on the LIMS report.

Matrix Spike:	ED52202-MS1:	Ag328	115.41	% Recovery
		Al396	136.08	"
		Cu327	118.83	"
		K766	#	
		Mg279	#	
		Na589	#	

audit not valid; sample concentration is greater than twice the spike concentration. The blank spike is used for validation purposes for these analytes.

Sample analyte qualifications:

The ICP sample results reported are acceptable except as noted in the following paragraphs.

For Ag, LCM2 QA check audits were used for control purposes rather than LCM1 check audits since the level of Ag in the LCM1 solutions exceed the upper linear limit for Ag. Also for Ag, the sample results for E504002-03, -04, -06, and -08, are flagged "J" since the values were between the MDL and RL. Also for Ag, ED52202-MS1 showed a result which was outside of control limits biased high. Therefore sample results which were above the MDL, E504002-03, -04, -06, and -08, are also flagged "K" for this high bias.

For Al, ED52202-MS1 showed a result which was outside of control limits biased high. Therefore all sample results E504002-01 to -08, are flagged "K" for this high bias. Also for Al, all instrument blanks and ED52202-BLK1, showed results greater than the MDL indicating possible contamination. Therefore samples affected by the blanks E504002-01 to -07, are also flagged "K" due to possible contamination. Also for Al, ED52202-DUP1 showed a RPD which was out of control. Sample results E504002-01 to -08 are also flagged "*" due to possible poor precision.

For Cd, instrument blank #3 showed a negative result with an absolute value greater than the MDL. Therefore positive sample results affected by this blank, E504002-03 to -08, are flagged "L" due to this low bias.

For Co, the sample results for E504002-01 to -04 are flagged "J" since the values were between the MDL and RL.

M. Matto 5-2-05

For Cr, the sample result for E504002-02 is flagged "J" since the value was between the MDL and RL. Also for Cr, all instrument blanks showed positive results with a value greater than the MDL indicating possible contamination. Therefore sample results E504002-01 to -04, -06 to -08, are flagged "K" due to possible contamination.

Cu, the sample result for E504002-04 is flagged "J" since the value was between the MDL and RL. Also for Cu, ED52202-MS1 showed a result which was outside of control limits biased high, and LCM1 #4 showed a result which was biased high outside of ESAT control limits. Therefore sample results E504002-01 to -05, -08, are flagged "K" for this high bias. Also for Cu, instrument blank #1 and ED52202-BLK1, showed results greater than the MDL indicating possible contamination. Therefore samples affected by the blanks E504002-02 to -05, are also flagged "K" due to possible contamination. Also for Cu, ED52202-DUP1 showed a RPD which was out of control. Sample results E504002-01 to -08 are also flagged "*" due to possible poor precision.

For Fe, sample results E504002-03, -04, -06, and -08, were reported from the Fe273 line. All other sample results were reported from the Fe259 line. Also for Fe, all instrument blanks and ED52202-BLK1, showed results greater than the MDL indicating possible contamination. Therefore sample results E504002-01, -02,are flagged "K" due to possible contamination.

For K, a large dilution for analysis of K was added to the end of the analytical sequence due to a high level which was greater than the upper calibration standard. E504002-05 was analyzed at a 100 fold dilution. K for samples E504002 -04, -06 to -08, were analyzed at two fold dilutions at the beginning of the analytical run. Also for K, instrument blanks #2, #3, showed results greater than the MDL indicating possible contamination. Also LCM1 #3 showed a recovery greater than the upper limit. Sample results which show K levels less than 10,000 ug/L are also affected by the LCM1 high bias. Therefore sample results E504002-02, -03, are flagged "K" due to the possible contamination observed in the blanks and the high bias observed in the LCM1.

For Mg, all sample results were reported from the Mg279 line.

For Na, dilutions for analysis of Na were added to the end of the analytical sequence due to high levels which were in some cases much greater than the upper calibration standard. Samples E504002-02, -03, were analyzed undiluted with the diluted samples to verify results and to insure that carryover did not affect these results. All other samples were analyzed at the appropriate dilution based on original analytical results. Samples E504002-01, ED52202-DUP1, E504002-04, -06 to -08 were analyzed at 10 fold dilutions and E504002-05 was analyzed at a 100 fold dilution. ED52202-MS3 was not diluted due to the concentration of the sample being greater than two times the spike added making it invalid. Also for Na, instrument blanks #2 to #4 showed results greater than the MDL indicating possible contamination. Therefore sample results E504002-02, -03, -05, -07, are also flagged "K" due to possible contamination. Also LCM1 #2, #3, #4, showed recoveries which were greater than the upper limit. Sample results which show Na levels less than 10,000 ug/L are also affected by the LCM1 high bias. Therefore sample result E504002-03 is also flagged "K" due to the high bias observed in the LCM1's.

For Ni, the sample results for E504002-02-, -07, are flagged "J" since the values were between the MDL and RL.

For V, the sample results for E504002-02, -03, are flagged "J" since the values were between the MDL and RL.

For Zn, the sample results for E504002-02, -03, -05, -08, are flagged "J" since the values were between the MDL and RL. Also for Zn, instrument blanks #1, #2, showed results greater than the MDL indicating possible contamination. Therefore sample results E504002-01 to -03, -05, -08, are flagged "K" due to possible contamination.

All flagged results are considered estimated. All sample results are usable.

M. Mutter 5-2-05

Other comments

It has been observed that some LIMS report RPD calculations do not match all of our in house RPD calculations due to : number of significant figures used in the calculations.

No field QC were present for this work order.

M. Mattio 5-2-05

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Gary Development Landfill	
77 West Jackson Boulevard	Project Number: 2005IN1	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	May-16-05 12:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01 SW1 (CN S05)	E504002-01	Water	Apr-20-05 18:00	Apr-22-05 08:40
S04 GW1 (5-7) (CN S03)	E504002-02	Water	Apr-20-05 13:25	Apr-22-05 08:40
S02 GW1 (14-16) (CN S06)	E504002-03	Water	Apr-20-05 16:30	Apr-22-05 08:40
S10 GW2 (10-12) (CN S08)	E504002-04	Water	Apr-21-05 09:55	Apr-22-05 08:40
S09 GW2 (17-19) (CN S07)	E504002-05	Water	Apr-21-05 11:23	Apr-22-05 08:40
S12 GW3 (10-12) (CN S11)	E504002-06	Water	Apr-21-05 10:00	Apr-22-05 08:40
S16 GW4 (7-9) (CN S14)	E504002-07	Water	Apr-21-05 13:45	Apr-22-05 08:40
S15 GW4 (13-15) (CN S13)	E504002-08	Water	Apr-21-05 14:17	Apr-22-05 08:40

M. Mattox 5-16-05
Margie Mattox, Chemist

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Gary Development Landfill Project Number: 2005IN1 Project Manager: Warren Layne	**Reported:** May-16-05 12:35

Metals by ICP
Alion - ESAT Contract

S01 SW1 (CN S05) (E504002-01) Water Sampled: Apr-20-05 18:00 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**250**	K, *	10.0	40.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Barium	**285**		0.6	2.0	"	"	"	"	"
Beryllium	**U**		0.1	0.5	"	"	"	"	"
Cadmium	**U**		0.3	1.0	"	"	"	"	"
Calcium	**42500**		21.0	80.0	"	"	"	"	"
Chromium	**18.0**	K	0.6	2.0	"	"	"	"	"
Cobalt	**1.5**	J	0.4	2.0	"	"	"	"	"
Copper	**14.8**	K, *	0.7	3.0	"	"	"	"	"
Iron	**516**	K	8.0	30.0	"	"	"	"	"
Magnesium	**127000**		15.0	50.0	"	"	"	"	"
Manganese	**115**		0.3	1.0	"	"	"	"	"
Nickel	**23.7**		2.0	10.0	"	"	"	"	"
Potassium	**175000**		128	500	"	"	"	"	"
'lver	**U**		0.9	4.0	"	"	"	"	"
Sodium	**918000**		1200	4000	"	10	"	"	Apr-28-05
Vanadium	**36.5**		5.4	20.0	"	1	"	"	Apr-28-05
Zinc	**31.7**	K	7.0	30.0	"	"	"	"	"

S04 GW1 (5-7) (CN S03) (E504002-02) Water Sampled: Apr-20-05 13:25 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**214**	K, *	10.0	40.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Barium	**20.4**		0.6	2.0	"	"	"	"	"
Beryllium	**U**		0.1	0.5	"	"	"	"	"
Cadmium	**U**		0.3	1.0	"	"	"	"	"
Calcium	**60900**		21.0	80.0	"	"	"	"	"
Chromium	**1.3**	J, K	0.6	2.0	"	"	"	"	"
Cobalt	**0.9**	J	0.4	2.0	"	"	"	"	"
Copper	**4.6**	K, *	0.7	3.0	"	"	"	"	"
Iron	**356**	K	8.0	30.0	"	"	"	"	"
Magnesium	**10300**		15.0	50.0	"	"	"	"	"
Manganese	**327**		0.3	1.0	"	"	"	"	"
Nickel	**4.8**	J	2.0	10.0	"	"	"	"	"
Potassium	**4800**	K	128	500	"	"	"	"	"

M. Mattox 5-16-05
Margie Mattox, Chemist

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

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Metals by ICP

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S04 GW1 (5-7) (CN S03) (E504002-02) Water Sampled: Apr-20-05 13:25 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Silver	**U**		0.9	4.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Sodium	**15100**	K	120	400	"	"	"	"	Apr-28-05
Vanadium	**5.6**	J	5.4	20.0	"	"	"	"	Apr-28-05
Zinc	**15.2**	J, K	7.0	30.0	"	"	"	"	"

S02 GW1 (14-16) (CN S06) (E504002-03) Water Sampled: Apr-20-05 16:30 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**390**	K, *	10.0	40.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Barium	**78.1**		0.6	2.0	"	"	"	"	"
Beryllium	**U**		0.1	0.5	"	"	"	"	"
Cadmium	**1.7**	L	0.3	1.0	"	"	"	"	"
Calcium	**207000**		21.0	80.0	"	"	"	"	"
'hromium	**3.1**	K	0.6	2.0	"	"	"	"	"
Cobalt	**1.3**	J	0.4	2.0	"	"	"	"	"
Copper	**4.7**	K, *	0.7	3.0	"	"	"	"	"
Iron	**28800**		13.0	50.0	"	"	"	"	"
Magnesium	**29300**		15.0	50.0	"	"	"	"	"
Manganese	**723**		0.3	1.0	"	"	"	"	"
Nickel	**U**		2.0	10.0	"	"	"	"	"
Potassium	**4780**	K	128	500	"	"	"	"	"
Silver	**1.0**	J, K	0.9	4.0	"	"	"	"	"
Sodium	**9700**	K	120	400	"	"	"	"	Apr-28-05
Vanadium	**12.8**	J	5.4	20.0	"	"	"	"	Apr-28-05
Zinc	**12.9**	J, K	7.0	30.0	"	"	"	"	"

S10 GW2 (10-12) (CN S08) (E504002-04) Water Sampled: Apr-21-05 09:55 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**174**	K, *	10.0	40.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Barium	**292**		0.6	2.0	"	"	"	"	"
Beryllium	**U**		0.1	0.5	"	"	"	"	"
Cadmium	**3.9**	L	0.3	1.0	"	"	"	"	"
Calcium	**238000**		21.0	80.0	"	"	"	"	"

M. Mattox 5-16-05
Margie Mattox, Chemist

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

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Metals by ICP
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S10 GW2 (10-12) (CN S08) (E504002-04) Water Sampled: Apr-21-05 09:55 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chromium	**5.0**	K	0.6	2.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Cobalt	**0.5**	J	0.4	2.0	"	"	"	"	"
Copper	**2.7**	J, K, *	0.7	3.0	"	"	"	"	"
Iron	**17200**		13.0	50.0	"	"	"	"	"
Magnesium	**269000**		15.0	50.0	"	"	"	"	"
Manganese	**1190**		0.3	1.0	"	"	"	"	"
Nickel	**17.9**		2.0	10.0	"	"	"	"	"
Potassium	**245000**		256	1000	"	2	"	"	Apr-28-05
Silver	**1.1**	J, K	0.9	4.0	"	1	"	"	Apr-28-05
Sodium	**655000**		1200	4000	"	10	"	"	Apr-28-05
Vanadium	**33.8**		5.4	20.0	"	1	"	"	Apr-28-05
Zinc	**U**		7.0	30.0	"	"	"	"	"

S09 GW2 (17-19) (CN S07) (E504002-05) Water Sampled: Apr-21-05 11:23 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**191**	K, *	10.0	40.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Barium	**426**		0.6	2.0	"	"	"	"	"
Beryllium	**U**		0.1	0.5	"	"	"	"	"
Cadmium	**1.0**	L	0.3	1.0	"	"	"	"	"
Calcium	**48200**		21.0	80.0	"	"	"	"	"
Chromium	**26.7**		0.6	2.0	"	"	"	"	"
Cobalt	**4.1**		0.4	2.0	"	"	"	"	"
Copper	**7.2**	K, *	0.7	3.0	"	"	"	"	"
Iron	**7480**		8.0	30.0	"	"	"	"	"
Magnesium	**302000**		15.0	50.0	"	"	"	"	"
Manganese	**57.9**		0.3	1.0	"	"	"	"	"
Nickel	**72.1**		2.0	10.0	"	"	"	"	"
Potassium	**3020000**		12800	50000	"	100	"	"	Apr-28-05
Silver	**U**		0.9	4.0	"	1	"	"	Apr-28-05
Sodium	**4340000**	K	12000	40000	"	100	"	"	Apr-28-05
Vanadium	**55.7**		5.4	20.0	"	1	"	"	Apr-28-05
Zinc	**9.3**	J, K	7.0	30.0	"	"	"	"	"

M. Mattox 5-16-05
Margie Mattox, Chemist

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

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Metals by ICP
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S12 GW3 (10-12) (CN S11) (E504002-06) Water Sampled: Apr-21-05 10:00 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**174**	K, *	10.0	40.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Barium	**302**		0.6	2.0	"	"	"	"	"
Beryllium	**U**		0.1	0.5	"	"	"	"	"
Cadmium	**2.7**	L	0.3	1.0	"	"	"	"	"
Calcium	**238000**		21.0	80.0	"	"	"	"	"
Chromium	**5.0**	K	0.6	2.0	"	"	"	"	"
Cobalt	**U**		0.4	2.0	"	"	"	"	"
Copper	**U**	*	0.7	3.0	"	"	"	"	"
Iron	**17500**		13.0	50.0	"	"	"	"	"
Magnesium	**269000**		15.0	50.0	"	"	"	"	"
Manganese	**1210**		0.3	1.0	"	"	"	"	"
Nickel	**17.4**		2.0	10.0	"	"	"	"	"
Potassium	**258000**		256	1000	"	2	"	"	Apr-28-05
Silver	**1.6**	J, K	0.9	4.0	"	1	"	"	Apr-28-05
Sodium	**655000**		1200	4000	"	10	"	"	Apr-28-05
Vanadium	**33.3**		5.4	20.0	"	1	"	"	Apr-28-05
Zinc	**U**		7.0	30.0	"	"	"	"	"

S16 GW4 (7-9) (CN S14) (E504002-07) Water Sampled: Apr-21-05 13:45 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**133**	K, *	10.0	40.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Barium	**591**		0.6	2.0	"	"	"	"	"
Beryllium	**U**		0.1	0.5	"	"	"	"	"
Cadmium	**1.6**	L	0.3	1.0	"	"	"	"	"
Calcium	**111000**		21.0	80.0	"	"	"	"	"
Chromium	**3.9**	K	0.6	2.0	"	"	"	"	"
Cobalt	**U**		0.4	2.0	"	"	"	"	"
Copper	**U**	*	0.7	3.0	"	"	"	"	"
Iron	**5960**		8.0	30.0	"	"	"	"	"
Magnesium	**338000**		15.0	50.0	"	"	"	"	"
Manganese	**561**		0.3	1.0	"	"	"	"	"
Nickel	**3.5**	J	2.0	10.0	"	"	"	"	"
Potassium	**197000**		256	1000	"	2	"	"	Apr-28-05

M. Mattox 5-16-05
Margie Mattox, Chemist

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536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

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77 West Jackson Boulevard	Project Number: 2005IN1	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	May-16-05 12:35

Metals by ICP

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S16 GW4 (7-9) (CN S14) (E504002-07) Water Sampled: Apr-21-05 13:45 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Silver	**U**		0.9	4.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Sodium	**502000**	K	1200	4000	"	10	"	"	Apr-28-05
Vanadium	**25.0**		5.4	20.0	"	1	"	"	Apr-28-05
Zinc	**U**		7.0	30.0	"	"	"	"	"

S15 GW4 (13-15) (CN S13) (E504002-08) Water Sampled: Apr-21-05 14:17 Received: Apr-22-05 08:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1610**	K, *	10.0	40.0	ug/L	1	ED52202	Apr-25-05	Apr-28-05
Barium	**428**		0.6	2.0	"	"	"	"	"
Beryllium	**U**		0.1	0.5	"	"	"	"	"
Cadmium	**3.0**	L	0.3	1.0	"	"	"	"	"
Calcium	**307000**		21.0	80.0	"	"	"	"	"
hromium	**15.1**	K	0.6	2.0	"	"	"	"	"
Cobalt	**4.0**		0.4	2.0	"	"	"	"	"
Copper	**12.3**	K, *	0.7	3.0	"	"	"	"	"
Iron	**17500**		13.0	50.0	"	"	"	"	"
Magnesium	**237000**		15.0	50.0	"	"	"	"	"
Manganese	**518**		0.3	1.0	"	"	"	"	"
Nickel	**23.1**		2.0	10.0	"	"	"	"	"
Potassium	**362000**		256	1000	"	2	"	"	Apr-28-05
Silver	**1.0**	J, K	0.9	4.0	"	1	"	"	Apr-28-05
Sodium	**926000**		1200	4000	"	10	"	"	Apr-28-05
Vanadium	**39.5**		5.4	20.0	"	1	"	"	Apr-28-05
Zinc	**25.8**	J, K	7.0	30.0	"	"	"	"	"

M. Mattox 5-16 05
Margie Mattox, Chemist

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Gary Development Landfill Project Number: 2005IN1 Project Manager: Warren Layne	**Reported:** May-16-05 12:35

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
*	The duplicate analysis precision is not within control limits. The reported value is estimated.
#	Spike audit not valid. The sample concentration exceeds twice the concentration of the spike added. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

M. Mattox 5-16-05
Margie Mattox, Chemist

DATE: June 1, 2005

Indiana Dept of Environmental Management
Office of Environmental/Site Investigation Section
P.O. Box 6015
100 N. Senate Avenue
Indianapolis, IN 46206-6015

ATTN: Mark Jaworski

SITE NAME: Gary Development Landfill, IN

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
34107	A4 Scientific	10	E2BS8	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: U.S. EPA
Region 5
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

RECEIVED

JUN 06 2005

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Sent By: Michelle Davis, Secretary - ESAT Region 5 / ALION Science & Technology

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: **Electronic (Level 2) Review of Data**

Received for Review on: May 25, 2005

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IDEM

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE Name: Gary Development Landfill (IN)

Case Number: 34107

SDG Number: E2B~~5~~S8 mo 6/1/05

Number and Type of Samples: 10 (soils)

Sample Numbers: E2BS8, E2BS9, E2BT0 through E2BT6 and E2BT9

Laboratory: A4 Scientific

Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 34107
Site Name: Gary DevelopmentLandfill ((IN)

SDG Number: E2BS8
Laboratory: A4 Scientific

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Ten (10) soil samples labeled E2BS8, E2BS9, E2BT0 through E2BT6 and E2BT9, were collected on April 20, 2005. The lab received the samples on April 22, 2005 in good condition. All samples were analyzed for the full list of organic analytes. All samples were analyzed according to CLP SOW OLMO4.3.

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

3. CALIBRATION

Qualification: Calibrations **Protocol: VOA**

DC-5 The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

1, 2-Dibromo-3-chloropropane
E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BS9RE, E2BT0, E2BT1, E2BT2, E2BT3, E2BT4, E2BT4RE, E2BT5, E2BT6, E2BT9, VBLK75, VBLK77, VHBLK01

DC-7 The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Trichlorofluoromethane, 1, 2, 4-Trichlorobenzene
E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BS9RE, E2BT0, E2BT1, E2BT2, E2BT3, E2BT4, E2BT4RE, E2BT5, E2BT6, E2BT9, VBLK75, VBLK77, VHBLK01

DC-8 The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Trichlorofluoromethane
E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BS9RE, E2BT0, E2BT1, E2BT2, E2BT3, E2BT4, E2BT4RE, E2BT5, E2BT6, E2BT9, VBLK75, VBLK77, VHBLK01

Bromomethane
E2BS8, E2BS9MS, E2BS9MSD, E2BS9RE, E2BT1, E2BT4RE, VBLK77,

VHBLK01

DC-9 The following volatile samples are associated with a continuing calibration relative response factor (RRF5) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

1, 2-Dibromo-3-chloropropane
E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BS9RE, E2BT0, E2BT1, E2BT2, E2BT3, E2BT4, E2BT4RE, E2BT5, E2BT6, E2BT9, VBLK75, VBLK77, VHBLK01

DC-22 The following volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. Use professional judgement to qualify sample data.

Qualification: Calibrations **Protocol: BNA**

DC-9 The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

2, 4-Dinitrophenol
E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BT0, E2BT1, E2BT2, E2BT3, E2BT4, E2BT5, E2BT5DL, E2BT6, E2BT9, SBLK3P

DC-11 The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2-Nitroaniline, Butylbenzylphthalate, bis (2-Ethylhexyl) phthalate, Di-n-octylphthalate
E2BT2, E2BT3, E2BT5, E2BT5DL, E2BT9

2, 4-Dinitrophenol
E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BT0, E2BT1, E2BT4, E2BT6, SBLK3P

Qualification: Calibrations **Protocol: PES**

No defects found.

4. BLANKS

Qualification: Laboratory Blanks **Protocol: VOA**

DC-6 The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" and non-detects are not flagged.

Acetone
E2BS9, E2BS9MS, E2BS9MSD, E2BS9RE, E2BT1

Methylene Chloride
E2BS8, E2BS9MSD, E2BS9RE, E2BT0, E2BT1, E2BT4RE

DC-13 The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Acetone
E2BS8

Methylene Chloride
E2BS9, E2BS9MS, E2BT2, E2BT4, E2BT5, E2BT6, E2BT9

DC-19 The following volatile samples are associated with a contaminated storage blank. Hits are qualified "J" and non-detects are not flagged.

Acetone, Methylene Chloride
E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BS9RE, E2BT0, E2BT1, E2BT2, E2BT3, E2BT4, E2BT4RE, E2BT5, E2BT6, E2BT9

Qualification: Laboratory Blanks **Protocol: BNA**

No defects found.

Qualification: Laboratory Blanks **Protocol: PES**

No defects found.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

Qualification: SMC **Protocol: VOA**

DC-5 The following volatile samples have system monitoring compound recoveries outside the expanded lower criteria Hits are qualified "J" and non-detects are qualified "R".

E2BS9RE

Qualification: Surrogate **Protocol: BNA**

No defects found.

Qualification: Surrogate **Protocol: PES**

DC-2 The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E2BT5

DC-3 The following undiluted pesticide samples have surrogate percent recoveries of less than 10%. Hits are qualified "J" and non-detects are qualified "R".

E2BT3

DC-4 The following diluted pesticide samples have surrogate percent recoveries of less than 10%. Professional judgement is recommended. Professional judgement should be used to qualify the data.

E2BT5DL

DC-5 The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

E2BT3

DC-6 The following pesticide samples are not fully qualified for surrogate RT because of missing RT information. Hits and non-detects are not flagged.

E2BT5DL

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Qualification: Matrix Spikes **Protocol: VOA**

No defects found.

Qualification: Matrix Spikes **Protocol: BNA**

DC-1 The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compound(s) in the unspiked sample E2BS9 are estimated, "J" and non-detects are estimated, "UJ".

E2BS9MS, E2BS9MSD
Phenol

DC-2 The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compound(s) in the unspiked sample E2BS9 are estimated, "J" and non-detects are estimated, "UJ".

E2BS9MS
N-Nitroso-di-n-propylamine, Pyrene

Qualification: Matrix Spikes **Protocol: PES**

No defects found.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as trip blanks, field blanks or field duplicates. Results are not qualified based upon the results of the field blanks or field duplicates.

8. INTERNAL STANDARDS

Qualification: Internal Standards **Protocol: VOA**

DC-4 The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

E2BS9, E2BT4RE
1,1,1-Trichloroethane, Cyclohexane, Carbon Tetrachloride, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

E2BT4
4-Methyl-2-pentanone, Toluene, Tetrachloroethene, 2-Hexanone, 1,2-

Dibromoethane, Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

DC-5 The following volatile samples have internal standard area counts outside expanded criteria. Hits are qualified "J" and non-detects are qualified "R".

E2BS9RE
Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Acetone, Carbon Disulfide, Methyl Acetate, Methylene Chloride, trans-1,2-Dichloroethane, Methyl tert-Butyl Ether, 1,1-Dichloroethane, cis-1,2-Dichloroethane, 2-Butanone, Chloroform, 1,1,1-Trichloroethane, Cyclohexane, Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

Qualification: Internal Standards **Protocol: BNA**

No defects found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

DC-1 The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E2BS9MS, E2BS9MSD
2-Butanone

E2BT0
Chloromethane

E2BT1
Carbon Disulfide, 2-Butanone

E2BT2
Chloromethane, Methyl Acetate

E2BT3
Carbon Disulfide, Methylene Chloride

E2BT4
Carbon Disulfide, Benzene, Toluene, Isopropylbenzene

E2BT4RE
Carbon Disulfide, Methyl Acetate, Benzene, Toluene, Ethylbenzene, Xylenes (total), Isopropylbenzene

E2BT5
Carbon Disulfide, Benzene, 4-Methyl-2-pentanone

E2BT9
Chloromethane, Benzene, Toluene

VBLK75
Acetone, Methylene Chloride

Qualification: Detection Limit **Protocol: BNA**

DC-1 The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E2BS8
Pyrene, Chrysene, Benzo (b) fluoranthene

E2BT0
Phenanthrene, Fluoranthene, bis (2-Ethylhexyl) phthalate

E2BT2, E2BT4
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo (g,h,i) Perylene

E2BT3,
Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene, Benzo (b) fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo (g,h,i) Perylene

E2BT5
Naphthalene, 2-Methylnaphthalene, 1, 1'-Biphenyl

E2BT5DL
Dibenzofuran, Fluorene, Phenanthrene, Anthracene, Benzo (a) anthracene, Chrysene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Benzo (a) pyrene, Indeno (1, 2, 3-cd) pyrene, Benzo (g, h, i) perylene

E2BT9
Phenanthrene, Fluoranthene, Pyrene, Chrysene, bis (2-Ethylhexyl) phthalate

Qualification: Detection Limit **Protocol: PES**

DC-1 The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E2BS8, E2BT0, E2BT2, E2BT5, E2BT6, E2BT9
4, 4-DDE, 4, 4-DDT

E2BS9MS, E2BS9MSD
4, 4-DDE, Endrin ketone

E2BT1
4, 4-DDT

E2BT3
Endrin ketone, Endrin aldehyde

E2BT4
Alpha-BHC, 4, 4-DDE

DC-4 The following pesticide samples have analytes for which the percent difference between column results exceeds expanded criteria. Professional judgement should be used to qualify the data.

E2BS8, E2BT6, E2BT9
4, 4-DDE, 4, 4-DDT

E2BS9, E2BS9MSD
4, 4-DDE

E2BS9MS
Heptachlor, 4, 4-DDE, Endrin ketone

E2BT0, E2BT1
4, 4-DDT

E2BT3
4, 4-DDT, Endrin ketone, Endrin aldehyde

E2BT5
4, 4-DDE, 4, 4-DDD, 4, 4-DDT

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Qualification: CADRE Reserved **Protocol: VOA**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BS9RE, E2BT0, E2BT1, E2BT2, E2BT3, E2BT4, E2BT4RE, E2BT5, E2BT6, E2BT9, VBLK75, VBLK77, VHBLK01

Qualification: CADRE Reserved **Protocol: BNA**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BT0, E2BT1, E2BT2, E2BT3, E2BT4, E2BT5, E2BT5DL, E2BT6, E2BT9, SBLK3P

Qualification: CADRE Reserved **Protocol: PES**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E2BS8, E2BS9, E2BS9MS, E2BS9MSD, E2BT0, E2BT1, E2BT1DL, E2BT2, E2BT3, E2BT4, E2BT5, E2BT5DL, E2BT6, E2BT9, PBLK8Q

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Number of Soil Samples : 10
Number of Water Samples : 0

Sample Number :	E2BS8		E2BS9		E2BS9MS		E2BS9MSD		E2BS9RE	
Sampling Location :	SD1A		SD-1B		SD-1B		SD-1B		SD-1B	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	10:30		10:45		10:45		10:45		10:45	
%Moisture :	56		29		29		29		29	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	22	UJ	12	UJ	12	UJ	11	UJ	14	R
CHLOROMETHANE	22	UJ	12	UJ	12	UJ	11	UJ	14	R
VINYL CHLORIDE	22	UJ	12	UJ	12	UJ	11	UJ	14	R
BROMOMETHANE	22	UJ	12	U	12	UJ	11	UJ	14	R
CHLOROETHANE	22	U	12	U	12	U	11	U	14	R
TRICHLOROFLUOROMETHANE	22	UJ	12	UJ	12	UJ	11	UJ	14	R
1,1-DICHLOROETHENE	22	U	12	U	45		43		14	R
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	22	U	12	U	12	U	11	U	14	R
ACETONE	22	UJ	26	UJ	41	UJ	36	UJ	43	UJ
CARBON DISULFIDE	22	U	12	U	12	U	11	U	14	R
METHYL ACETATE	22	U	29		12	U	11	U	14	R
METHYLENE CHLORIDE	62	UJ	12	UJ	12	UJ	13	UJ	18	UJ
TRANS-1,2-DICHLOROETHENE	22	U	12	U	12	U	11	U	14	R
METHYL TERT-BUTYL ETHER	22	U	12	U	12	U	11	U	14	R
1,1-DICHLOROETHANE	22	U	12	U	12	U	11	U	14	R
CIS-1,2-DICHLOROETHENE	22	U	12	U	12	U	11	U	14	R
2-BUTANONE	22	U	12	U	4	J	4	J	14	R
CHLOROFORM	22	U	12	U	12	U	11	U	14	R
1,1,1-TRICHLOROETHANE	22	U	12	UJ	12	U	11	U	14	R
CYCLOHEXANE	22	U	12	UJ	12	U	11	U	14	R
CARBON TETRACHLORIDE	22	U	12	UJ	12	U	11	U	14	R
BENZENE	22	U	12	UJ	58		55		14	R
1,2-DICHLOROETHANE	22	U	12	U	12	U	11	U	14	R
TRICHLOROETHENE	22	U	12	UJ	57		53		14	R
METHYLCYCLOHEXANE	22	U	12	UJ	12	U	11	U	14	R
1,2-DICHLOROPROPANE	22	U	12	UJ	12	U	11	U	14	R
BROMODICHLOROMETHANE	22	U	12	UJ	12	U	11	U	14	R
CIS-1,3-DICHLOROPROPENE	22	U	12	UJ	12	U	11	U	14	R
4-METHYL-2-PENTANONE	22	U	12	UJ	12	U	11	U	14	R
TOLUENE	22	U	12	UJ	57		53		14	R
TRANS-1,3-DICHLOROPROPENE	22	U	12	UJ	12	U	11	U	14	R
1,1,2-TRICHLOROETHANE	22	U	12	UJ	12	U	11	U	14	R
TETRACHLOROETHENE	22	U	12	UJ	12	U	11	U	14	R

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BS8		E2BS9		E2BS9MS		E2BS9MSD		E2BS9RE	
Sampling Location :	SD1A		SD-1B		SD-1B		SD-1B		SD-1B	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	10:30		10:45		10:45		10:45		10:45	
%Moisture :	56		29		29		29		29	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	22	U	12	UJ	12	U	11	U	14	R
DIBROMOCHLOROMETHANE	22	U	12	UJ	12	U	11	U	14	R
1,2-DIBROMOETHANE	22	U	12	UJ	12	U	11	U	14	R
CHLOROBENZENE	22	U	12	UJ	58		54		14	R
ETHYLBENZENE	22	U	12	UJ	12	U	11	U	14	R
XYLENES (TOTAL)	22	U	12	UJ	12	U	11	U	14	R
STYRENE	22	U	12	UJ	12	U	11	U	14	R
BROMOFORM	22	U	12	UJ	12	U	11	U	14	R
ISOPROPYLBENZENE	22	U	12	UJ	12	U	11	U	14	R
1,1,2,2-TETRACHLOROETHANE	22	U	12	UJ	12	U	11	U	14	R
1,3-DICHLOROBENZENE	22	U	12	UJ	12	U	11	U	14	R
1,4-DICHLOROBENZENE	22	U	12	UJ	12	U	11	U	14	R
1,2-DICHLOROBENZENE	22	U	12	UJ	12	U	11	U	14	R
1,2-DIBROMO-3-CHLOROPROPANE	22	R	12	R	12	R	11	R	14	R
1,2,4-TRICHLOROBENZENE	22	UJ	12	UJ	12	UJ	11	UJ	14	R

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT0		E2BT1		E2BT2		E2BT3		E2BT4	
Sampling Location :	SD2A		SD2B		SD3A		SD4A		SD4B	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	02:00		12:45		12:45		13:55		13:55	
%Moisture :	54		24		54		74		61	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	24	UJ	15	UJ	32	UJ	51	UJ	32	UJ
CHLOROMETHANE	11	J	15	UJ	11	J	51	UJ	32	UJ
VINYL CHLORIDE	24	UJ	15	UJ	32	UJ	51	UJ	32	UJ
BROMOMETHANE	24	U	15	UJ	32	U	51	U	32	U
CHLOROETHANE	24	U	15	U	32	U	51	U	32	U
TRICHLOROFLUOROMETHANE	24	UJ	15	UJ	32	UJ	51	UJ	32	UJ
1,1-DICHLOROETHENE	24	U	15	U	32	U	51	U	32	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	24	U	15	U	32	U	51	U	32	U
ACETONE	240	J	50	UJ	220	J	730	J	350	J
CARBON DISULFIDE	24	U	4	J	32	U	32	J	12	J
METHYL ACETATE	24	U	15	U	18	J	51	U	32	U
METHYLENE CHLORIDE	24	UJ	15	UJ	32	UJ	40	J	32	UJ
TRANS-1,2-DICHLOROETHENE	24	U	15	U	32	U	51	U	32	U
METHYL TERT-BUTYL ETHER	24	U	15	U	32	U	51	U	32	U
1,1-DICHLOROETHANE	24	U	15	U	32	U	51	U	32	U
CIS-1,2-DICHLOROETHENE	24	U	15	U	32	U	51	U	32	U
2-BUTANONE	35		11	J	32		110		90	
CHLOROFORM	24	U	15	U	32	U	51	U	32	U
1,1,1-TRICHLOROETHANE	24	U	15	U	32	U	51	U	32	U
CYCLOHEXANE	24	U	15	U	32	U	51	U	32	U
CARBON TETRACHLORIDE	24	U	15	U	32	U	51	U	32	U
BENZENE	24	U	15	U	32	U	51	U	11	J
1,2-DICHLOROETHANE	24	U	15	U	32	U	51	U	32	U
TRICHLOROETHENE	24	U	15	U	32	U	51	U	32	U
METHYLCYCLOHEXANE	24	U	15	U	32	U	51	U	32	U
1,2-DICHLOROPROPANE	24	U	15	U	32	U	51	U	32	U
BROMODICHLOROMETHANE	24	U	15	U	32	U	51	U	32	U
CIS-1,3-DICHLOROPROPENE	24	U	15	U	32	U	51	U	32	U
4-METHYL-2-PENTANONE	24	U	15	U	32	U	51	U	32	UJ
TOLUENE	24	U	15	U	32	U	51	U	9	J
TRANS-1,3-DICHLOROPROPENE	24	U	15	U	32	U	51	U	32	U
1,1,2-TRICHLOROETHANE	24	U	15	U	32	U	51	U	32	U
TETRACHLOROETHENE	24	U	15	U	32	U	51	U	32	UJ

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT0		E2BT1		E2BT2		E2BT3		E2BT4	
Sampling Location :	SD2A		SD2B		SD3A		SD4A		SD4B	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	02:00		12:45		12:45		13:55		13:55	
%Moisture :	54		24		54		74		61	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	24	U	15	U	32	U	51	U	32	UJ
DIBROMOCHLOROMETHANE	24	U	15	U	32	U	51	U	32	U
1,2-DIBROMOETHANE	24	U	15	U	32	U	51	U	32	UJ
CHLOROBENZENE	24	U	15	U	32	U	51	U	32	UJ
ETHYLBENZENE	24	U	15	U	32	U	51	U	32	UJ
XYLENES (TOTAL)	24	U	15	U	32	U	51	U	32	UJ
STYRENE	24	U	15	U	32	U	51	U	32	UJ
BROMOFORM	24	U	15	U	32	U	51	U	32	U
ISOPROPYLBENZENE	24	U	15	U	32	U	51	U	7	J
1,1,2,2-TETRACHLOROETHANE	24	U	15	U	32	U	51	U	32	UJ
1,3-DICHLOROBENZENE	24	U	15	U	32	U	51	U	32	UJ
1,4-DICHLOROBENZENE	24	U	15	U	32	U	51	U	32	UJ
1,2-DICHLOROBENZENE	24	U	15	U	32	U	51	U	32	UJ
1,2-DIBROMO-3-CHLOROPROPANE	24	R	15	R	32	R	51	R	32	R
1,2,4-TRICHLOROBENZENE	24	UJ	15	UJ	32	UJ	51	UJ	32	UJ

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT4RE		E2BT5		E2BT6		E2BT9		VBLK75	
Sampling Location :	SD4B		SD5B		SD5A		SD6A			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005			
Time Sampled :	13:55		15:25		15:25		18:20			
%Moisture :	61		65		58		28		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	47	UJ	26	UJ	26	UJ	17	UJ	10	UJ
CHLOROMETHANE	47	UJ	26	UJ	26	UJ	3	J	10	UJ
VINYL CHLORIDE	47	UJ	26	UJ	26	UJ	17	UJ	10	UJ
BROMOMETHANE	47	UJ	26	U	26	U	17	U	10	U
CHLOROETHANE	47	U	26	U	26	U	17	U	10	U
TRICHLOROFLUOROMETHANE	47	UJ	26	UJ	26	UJ	17	UJ	10	UJ
1,1-DICHLOROETHENE	47	U	26	U	26	U	17	U	10	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	47	U	26	U	26	U	17	U	10	U
ACETONE	740	J	230	J	410	J	170	J	6	J
CARBON DISULFIDE	21	J	8	J	26	U	17	U	10	U
METHYL ACETATE	20	J	26	U	26	U	17	U	10	U
METHYLENE CHLORIDE	56	UJ	26	UJ	26	UJ	17	UJ	3	J
TRANS-1,2-DICHLOROETHENE	47	U	26	U	26	U	17	U	10	U
METHYL TERT-BUTYL ETHER	47	U	26	U	26	U	17	U	10	U
1,1-DICHLOROETHANE	47	U	26	U	26	U	17	U	10	U
CIS-1,2-DICHLOROETHENE	47	U	26	U	26	U	17	U	10	U
2-BUTANONE	200		62		110		38		10	U
CHLOROFORM	47	U	26	U	26	U	17	U	10	U
1,1,1-TRICHLOROETHANE	47	UJ	26	U	26	U	17	U	10	U
CYCLOHEXANE	47	UJ	26	U	26	U	17	U	10	U
CARBON TETRACHLORIDE	47	UJ	26	U	26	U	17	U	10	U
BENZENE	25	J	11	J	26	U	4	J	10	U
1,2-DICHLOROETHANE	47	U	26	U	26	U	17	U	10	U
TRICHLOROETHENE	47	UJ	26	U	26	U	17	U	10	U
METHYLCYCLOHEXANE	47	UJ	26	U	26	U	17	U	10	U
1,2-DICHLOROPROPANE	47	UJ	26	U	26	U	17	U	10	U
BROMODICHLOROMETHANE	47	UJ	26	U	26	U	17	U	10	U
CIS-1,3-DICHLOROPROPENE	47	UJ	26	U	26	U	17	U	10	U
4-METHYL-2-PENTANONE	47	UJ	13	J	26	U	17	U	10	U
TOLUENE	22	J	26	U	26	U	7	J	10	U
TRANS-1,3-DICHLOROPROPENE	47	UJ	26	U	26	U	17	U	10	U
1,1,2-TRICHLOROETHANE	47	UJ	26	U	26	U	17	U	10	U
TETRACHLOROETHENE	47	UJ	26	U	26	U	17	U	10	U

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT4RE		E2BT5		E2BT6		E2BT9		VBLK75	
Sampling Location :	SD4B		SD5B		SD5A		SD6A			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005			
Time Sampled :	13:55		15:25		15:25		18:20			
%Moisture :	61		65		58		28		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	47	UJ	26	U	26	U	17	U	10	U
DIBROMOCHLOROMETHANE	47	UJ	26	U	26	U	17	U	10	U
1,2-DIBROMOETHANE	47	UJ	26	U	26	U	17	U	10	U
CHLOROBENZENE	47	UJ	26	U	26	U	17	U	10	U
ETHYLBENZENE	10	J	26	U	26	U	17	U	10	U
XYLENES (TOTAL)	20	J	26	U	26	U	17	U	10	U
STYRENE	47	UJ	26	U	26	U	17	U	10	U
BROMOFORM	47	UJ	26	U	26	U	17	U	10	U
ISOPROPYLBENZENE	20	J	26	U	26	U	17	U	10	U
1,1,2,2-TETRACHLOROETHANE	47	UJ	26	U	26	U	17	U	10	U
1,3-DICHLOROBENZENE	47	UJ	26	U	26	U	17	U	10	U
1,4-DICHLOROBENZENE	47	UJ	26	U	26	U	17	U	10	U
1,2-DICHLOROBENZENE	47	UJ	26	U	26	U	17	U	10	U
1,2-DIBROMO-3-CHLOROPROPANE	47	R	26	R	26	R	17	R	10	R
1,2,4-TRICHLOROBENZENE	47	UJ	26	UJ	26	UJ	17	UJ	10	UJ

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	VBLK77		VHBLK01							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		0							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	10	UJ	10	UJ						
CHLOROMETHANE	10	UJ	10	UJ						
VINYL CHLORIDE	10	UJ	10	UJ						
BROMOMETHANE	10	UJ	10	UJ						
CHLOROETHANE	10	U	10	U						
TRICHLOROFLUOROMETHANE	10	UJ	10	UJ						
1,1-DICHLOROETHENE	10	U	10	U						
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	10	U	10	U						
ACETONE	9	J	13							
CARBON DISULFIDE	10	U	10	U						
METHYL ACETATE	10	U	10	U						
METHYLENE CHLORIDE	8	J	8	J						
TRANS-1,2-DICHLOROETHENE	10	U	10	U						
METHYL TERT-BUTYL ETHER	10	U	10	U						
1,1-DICHLOROETHANE	10	U	10	U						
CIS-1,2-DICHLOROETHENE	10	U	10	U						
2-BUTANONE	10	U	10	U						
CHLOROFORM	10	U	10	U						
1,1,1-TRICHLOROETHANE	10	U	10	U						
CYCLOHEXANE	10	U	10	U						
CARBON TETRACHLORIDE	10	U	10	U						
BENZENE	10	U	10	U						
1,2-DICHLOROETHANE	10	U	10	U						
TRICHLOROETHENE	10	U	10	U						
METHYLCYCLOHEXANE	10	U	10	U						
1,2-DICHLOROPROPANE	10	U	10	U						
BROMODICHLOROMETHANE	10	U	10	U						
CIS-1,3-DICHLOROPROPENE	10	U	10	U						
4-METHYL-2-PENTANONE	10	U	10	U						
TOLUENE	10	U	10	U						
TRANS-1,3-DICHLOROPROPENE	10	U	10	U						
1,1,2-TRICHLOROETHANE	10	U	10	U						
TETRACHLOROETHENE	10	U	10	U						

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	VBLK77		VHBLK01							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		0							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	10	U	10	U						
DIBROMOCHLOROMETHANE	10	U	10	U						
1,2-DIBROMOETHANE	10	U	10	U						
CHLOROBENZENE	10	U	10	U						
ETHYLBENZENE	10	U	10	U						
XYLENES (TOTAL)	10	U	10	U						
STYRENE	10	U	10	U						
BROMOFORM	10	U	10	U						
ISOPROPYLBENZENE	10	U	10	U						
1,1,2,2-TETRACHLOROETHANE	10	U	10	U						
1,3-DICHLOROBENZENE	10	U	10	U						
1,4-DICHLOROBENZENE	10	U	10	U						
1,2-DICHLOROBENZENE	10	U	10	U						
1,2-DIBROMO-3-CHLOROPROPANE	10	R	10	R						
1,2,4-TRICHLOROBENZENE	10	UJ	10	UJ						

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Number of Soil Samples : 10
Number of Water Samples : 0

Sample Number :	E2BS8		E2BS9		E2BS9MS		E2BS9MSD		E2BT0	
Sampling Location :	SD1A		SD-1B		SD-1B		SD-1B		SD2A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	10:30		10:45		10:45		10:45		02:00	
%Moisture :	56		29		29		29		54	
pH :	6.4		6.8		6.8		6.8		6.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	750	U	460	U	460	U	460	U	720	U
PHENOL	750	U	460	UJ	1200		1700		720	U
BIS-(2-CHLOROETHYL)ETHER	750	U	460	U	460	U	460	U	720	U
2-CHLOROPHENOL	750	U	460	U	1100		1600		720	U
2-METHYLPHENOL	750	U	460	U	460	U	460	U	720	U
2,2'-OXYBIS(1- CHLOROPROPANE)	750	U	460	U	460	U	460	U	720	U
ACETOPHENONE	750	U	460	U	460	U	460	U	720	U
4-METHYLPHENOL	750	U	460	U	460	U	460	U	720	U
N-NITROSO-DI-N PROPYLAMINE	750	U	460	UJ	790		1000		720	U
HEXACHLOROETHANE	750	U	460	U	460	U	460	U	720	U
NITROBENZENE	750	U	460	U	460	U	460	U	720	U
ISOPHORONE	750	U	460	U	460	U	460	U	720	U
2-NITROPHENOL	750	U	460	U	460	U	460	U	720	U
2,4-DIMETHYLPHENOL	750	U	460	U	460	U	460	U	720	U
BIS(2-CHLOROETHOXY)METHANE	750	U	460	U	460	U	460	U	720	U
2,4-DICHLOROPHENOL	750	U	460	U	460	U	460	U	720	U
NAPHTHALENE	750	U	460	U	460	U	460	U	720	U
4-CHLOROANILINE	750	U	460	U	460	U	460	U	720	U
HEXACHLOROBUTADIENE	750	U	460	U	460	U	460	U	720	U
CAPROLACTAM	750	U	460	U	460	U	460	U	720	U
4-CHLORO-3-METHYLPHENOL	750	U	460	U	1500		1800		720	U
2-METHYLNAPHTHALENE	750	U	460	U	460	U	460	U	720	U
HEXACHLOROCYCLO-PENTADIENE	750	U	460	U	460	U	460	U	720	U
2,4,6-TRICHLOROPHENOL	750	U	460	U	460	U	460	U	720	U
2,4,5-TRICHLOROPHENOL	1900	U	1200	U	1200	U	1200	U	1800	U
1,1'-BIPHENYL	750	U	460	U	460	U	460	U	720	U
2-CHLORONAPHTHALENE	750	U	460	U	460	U	460	U	720	U
2-NITROANILINE	1900	U	1200	U	1200	U	1200	U	1800	U
DIMETHYLPHTHALATE	750	U	460	U	460	U	460	U	720	U
2,6-DINITROTOLUENE	750	U	460	U	460	U	460	U	720	U
ACENAPHTHYLENE	750	U	460	U	460	U	460	U	720	U
3-NITROANILINE	1900	U	1200	U	1200	U	1200	U	1800	U
ACENAPHTHENE	750	U	460	U	850		1000		720	U

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BS8		E2BS9		E2BS9MS		E2BS9MSD		E2BT0	
Sampling Location :	SD1A		SD-1B		SD-1B		SD-1B		SD2A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	10:30		10:45		10:45		10:45		02:00	
%Moisture :	56		29		29		29		54	
pH :	6.4		6.8		6.8		6.8		6.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	1900	UJ	1200	UJ	1200	UJ	1200	UJ	1800	UJ
4-NITROPHENOL	1900	U	1200	U	1200		1900		1800	U
DIBENZOFURAN	750	U	460	U	460	U	460	U	720	U
2,4-DINITROTOLUENE	750	U	460	U	790		1000		720	U
DIETHYLPHTHALATE	750	U	460	U	460	U	460	U	720	U
FLUORENE	750	U	460	U	460	U	460	U	720	U
4-CHLOROPHENYL-PHENYL ETHER	750	U	460	U	460	U	460	U	720	U
4-NITROANILINE	1900	U	1200	U	1200	U	1200	U	1800	U
4,6-DINITRO-2-METHYLPHENOL	1900	U	1200	U	1200	U	1200	U	1800	U
N-NITROSO DIPHENYLAMINE	750	U	460	U	460	U	460	U	720	U
4-BROMOPHENYL-PHENYLETHER	750	U	460	U	460	U	460	U	720	U
HEXACHLOROBENZENE	750	U	460	U	460	U	460	U	720	U
ATRAZINE	750	U	460	U	460	U	460	U	720	U
PENTACHLOROPHENOL	1900	U	1200	U	1800		2200		1800	U
PHENANTHRENE	750	U	460	U	460	U	460	U	100	J
ANTHRACENE	750	U	460	U	460	U	460	U	720	U
CARBAZOLE	750	U	460	U	460	U	460	U	720	U
DI-N-BUTYLPHTHALATE	750	U	460	U	460	U	460	U	720	U
FLUORANTHENE	750	U	460	U	460	U	460	U	77	J
PYRENE	78	J	460	UJ	690		800		720	U
BUTYLBENZYLPHTHALATE	750	U	460	U	460	U	460	U	720	U
3,3'-DICHLOROBENZIDINE	750	U	460	U	460	U	460	U	720	U
BENZO(A)ANTHRACENE	750	U	460	U	460	U	460	U	720	U
CHRYSENE	87	J	460	U	460	U	460	U	720	U
BIS(2-ETHYLHEXYL)PHTHALATE	750	U	460	U	460	U	460	U	220	J
DI-N-OCTYLPHTHALATE	750	U	460	U	460	U	460	U	720	U
BENZO(B)FLUORANTHENE	100	J	460	U	460	U	460	U	720	U
BENZO(K)FLUORANTHENE	750	U	460	U	460	U	460	U	720	U
BENZO(A)PYRENE	750	U	460	U	460	U	460	U	720	U
INDENO(1,2,3-CD)-PYRENE	750	U	460	U	460	U	460	U	720	U
DIBENZO(A,H)-ANTHRACENE	750	U	460	U	460	U	460	U	720	U
BENZO(G,H,I)PERYLENE	750	U	460	U	460	U	460	U	720	U

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT1		E2BT2		E2BT3		E2BT4		E2BT5	
Sampling Location :	SD2B		SD3A		SD4A		SD4B		SD5B	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	12:45		12:45		13:55		13:55		15:25	
%Moisture :	24		54		74		61		65	
pH :	6.8		5.9		6.1		5.8		6.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	440	U	720	U	1300	U	840	U	940	U
PHENOL	440	U	720	U	1300	U	840	U	940	U
BIS-(2-CHLOROETHYL)ETHER	440	U	720	U	1300	U	840	U	940	U
2-CHLOROPHENOL	440	U	720	U	1300	U	840	U	940	U
2-METHYLPHENOL	440	U	720	U	1300	U	840	U	940	U
2,2'-OXYBIS(1- CHLOROPROPANE)	440	U	720	U	1300	U	840	U	940	U
ACETOPHENONE	440	U	720	U	1300	U	840	U	940	U
4-METHYLPHENOL	440	U	720	U	1300	U	840	U	940	U
N-NITROSO-DI-N PROPYLAMINE	440	U	720	U	1300	U	840	U	940	U
HEXACHLOROETHANE	440	U	720	U	1300	U	840	U	940	U
NITROBENZENE	440	U	720	U	1300	U	840	U	940	U
ISOPHORONE	440	U	720	U	1300	U	840	U	940	U
2-NITROPHENOL	440	U	720	U	1300	U	840	U	940	U
2,4-DIMETHYLPHENOL	440	U	720	U	1300	U	840	U	940	U
BIS(2-CHLOROETHOXY)METHANE	440	U	720	U	1300	U	840	U	940	U
2,4-DICHLOROPHENOL	440	U	720	U	1300	U	840	U	940	U
NAPHTHALENE	440	U	720	U	1300	U	840	U	400	J
4-CHLOROANILINE	440	U	720	U	1300	U	840	U	940	U
HEXACHLOROBUTADIENE	440	U	720	U	1300	U	840	U	940	U
CAPROLACTAM	440	U	720	U	1300	U	840	U	940	U
4-CHLORO-3-METHYLPHENOL	440	U	720	U	1300	U	840	U	940	U
2-METHYLNAPHTHALENE	440	U	720	U	1300	U	840	U	230	J
HEXACHLOROCYCLO-PENTADIENE	440	U	720	U	1300	U	840	U	940	U
2,4,6-TRICHLOROPHENOL	440	U	720	U	1300	U	840	U	940	U
2,4,5-TRICHLOROPHENOL	1100	U	1800	U	3200	U	2100	U	2400	U
1,1'-BIPHENYL	440	U	720	U	1300	U	840	U	150	J
2-CHLORONAPHTHALENE	440	U	720	U	1300	U	840	U	940	U
2-NITROANILINE	1100	U	1800	UJ	3200	UJ	2100	U	2400	UJ
DIMETHYLPHTHALATE	440	U	720	U	1300	U	840	U	940	U
2,6-DINITROTOLUENE	440	U	720	U	1300	U	840	U	940	U
ACENAPHTHYLENE	440	U	720	U	1300	U	840	U	2200	
3-NITROANILINE	1100	U	1800	U	3200	U	2100	U	2400	U
ACENAPHTHENE	440	U	720	U	1300	U	840	U	16000	

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT1		E2BT2		E2BT3		E2BT4		E2BT5	
Sampling Location :	SD2B		SD3A		SD4A		SD4B		SD5B	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	12:45		12:45		13:55		13:55		15:25	
%Moisture :	24		54		74		61		65	
pH :	6.8		5.9		6.1		5.8		6.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	1100	UJ	1800	UJ	3200	UJ	2100	UJ	2400	UJ
4-NITROPHENOL	1100	U	1800	U	3200	U	2100	U	2400	U
DIBENZOFURAN	440	U	720	U	1300	U	840	U	5400	
2,4-DINITROTOLUENE	440	U	720	U	1300	U	840	U	940	U
DIETHYLPHTHALATE	440	U	720	U	1300	U	840	U	940	U
FLUORENE	440	U	720	U	1300	U	840	U	11000	
4-CHLOROPHENYL-PHENYL ETHER	440	U	720	U	1300	U	840	U	940	U
4-NITROANILINE	1100	U	1800	U	3200	U	2100	U	2400	U
4,6-DINITRO-2-METHYLPHENOL	1100	U	1800	U	3200	U	2100	U	2400	U
N-NITROSO DIPHENYLAMINE	440	U	720	U	1300	U	840	U	940	U
4-BROMOPHENYL-PHENYLETHER	440	U	720	U	1300	U	840	U	940	U
HEXACHLOROBENZENE	440	U	720	U	1300	U	840	U	940	U
ATRAZINE	440	U	720	U	1300	U	840	U	940	U
PENTACHLOROPHENOL	1100	U	1800	U	3200	U	2100	U	2400	U
PHENANTHRENE	440	U	150	J	1300	U	150	J	3600	
ANTHRACENE	440	U	720	U	1300	U	840	U	5500	
CARBAZOLE	440	U	720	U	1300	U	840	U	940	U
DI-N-BUTYLPHTHALATE	440	U	720	U	1300	U	840	U	940	U
FLUORANTHENE	440	U	270	J	270	J	300	J	24000	
PYRENE	440	U	270	J	240	J	240	J	24000	
BUTYLBENZYLPHTHALATE	440	U	720	UJ	1300	UJ	840	U	940	UJ
3,3'-DICHLOROBENZIDINE	440	U	720	U	1300	U	840	U	940	U
BENZO(A)ANTHRACENE	440	U	140	J	150	J	140	J	12000	
CHRYSENE	440	U	200	J	190	J	200	J	12000	
BIS(2-ETHYLHEXYL)PHTHALATE	440	U	720	UJ	1300	UJ	840	U	940	UJ
DI-N-OCTYLPHTHALATE	440	U	720	UJ	1300	UJ	840	U	940	UJ
BENZO(B)FLUORANTHENE	440	U	200	J	250	J	200	J	12000	
BENZO(K)FLUORANTHENE	440	U	720	U	190	J	840	U	6300	
BENZO(A)PYRENE	440	U	160	J	210	J	150	J	9600	
INDENO(1,2,3-CD)-PYRENE	440	U	240	J	210	J	310	J	8500	
DIBENZO(A,H)-ANTHRACENE	440	U	720	U	1300	U	840	U	2200	
BENZO(G,H,I)PERYLENE	440	U	230	J	190	J	220	J	7500	

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT5DL		E2BT6		E2BT9		SBLK3P			
Sampling Location :	SD5B		SD5A		SD6A					
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :	4/20/2005		4/20/2005		4/20/2005					
Time Sampled :	15:25		15:25		18:20					
%Moisture :	65		58		28		N/A			
pH :	6.7		5.9		5.6		6.9			
Dilution Factor :	20.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	19000	U	780	U	460	U	330	U		
PHENOL	19000	U	780	U	460	U	330	U		
BIS-(2-CHLOROETHYL)ETHER	19000	U	780	U	460	U	330	U		
2-CHLOROPHENOL	19000	U	780	U	460	U	330	U		
2-METHYLPHENOL	19000	U	780	U	460	U	330	U		
2,2'-OXYBIS(1- CHLOROPROPANE)	19000	U	780	U	460	U	330	U		
ACETOPHENONE	19000	U	780	U	460	U	330	U		
4-METHYLPHENOL	19000	U	780	U	460	U	330	U		
N-NITROSO-DI-N PROPYLAMINE	19000	U	780	U	460	U	330	U		
HEXACHLOROETHANE	19000	U	780	U	460	U	330	U		
NITROBENZENE	19000	U	780	U	460	U	330	U		
ISOPHORONE	19000	U	780	U	460	U	330	U		
2-NITROPHENOL	19000	U	780	U	460	U	330	U		
2,4-DIMETHYLPHENOL	19000	U	780	U	460	U	330	U		
BIS(2-CHLOROETHOXY)METHANE	19000	U	780	U	460	U	330	U		
2,4-DICHLOROPHENOL	19000	U	780	U	460	U	330	U		
NAPHTHALENE	19000	U	780	U	460	U	330	U		
4-CHLOROANILINE	19000	U	780	U	460	U	330	U		
HEXACHLOROBUTADIENE	19000	U	780	U	460	U	330	U		
CAPROLACTAM	19000	U	780	U	460	U	330	U		
4-CHLORO-3-METHYLPHENOL	19000	U	780	U	460	U	330	U		
2-METHYLNAPHTHALENE	19000	U	780	U	460	U	330	U		
HEXACHLOROCYCLO-PENTADIENE	19000	U	780	U	460	U	330	U		
2,4,6-TRICHLOROPHENOL	19000	U	780	U	460	U	330	U		
2,4,5-TRICHLOROPHENOL	47000	U	2000	U	1100	U	830	U		
1,1'-BIPHENYL	19000	U	780	U	460	U	330	U		
2-CHLORONAPHTHALENE	19000	U	780	U	460	U	330	U		
2-NITROANILINE	47000	UJ	2000	U	1100	UJ	830	U		
DIMETHYLPHTHALATE	19000	U	780	U	460	U	330	U		
2,6-DINITROTOLUENE	19000	U	780	U	460	U	330	U		
ACENAPHTHYLENE	19000	U	780	U	460	U	330	U		
3-NITROANILINE	47000	U	2000	U	1100	U	830	U		
ACENAPHTHENE	19000		780	U	460	U	330	U		

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT5DL		E2BT6		E2BT9		SBLK3P			
Sampling Location :	SD5B		SD5A		SD6A					
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :	4/20/2005		4/20/2005		4/20/2005					
Time Sampled :	15:25		15:25		18:20					
%Moisture :	65		58		28		N/A			
pH :	6.7		5.9		5.6		6.9			
Dilution Factor :	20.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	47000	UJ	2000	UJ	1100	UJ	830	UJ		
4-NITROPHENOL	47000	U	2000	U	1100	U	830	U		
DIBENZOFURAN	5400	J	780	U	460	U	330	U		
2,4-DINITROTOLUENE	19000	U	780	U	460	U	330	U		
DIETHYLPHTHALATE	19000	U	780	U	460	U	330	U		
FLUORENE	11000	J	780	U	460	U	330	U		
4-CHLOROPHENYL-PHENYL ETHER	19000	U	780	U	460	U	330	U		
4-NITROANILINE	47000	U	2000	U	1100	U	830	U		
4,6-DINITRO-2-METHYLPHENOL	47000	U	2000	U	1100	U	830	U		
N-NITROSO DIPHENYLAMINE	19000	U	780	U	460	U	330	U		
4-BROMOPHENYL-PHENYLETHER	19000	U	780	U	460	U	330	U		
HEXACHLOROBENZENE	19000	U	780	U	460	U	330	U		
ATRAZINE	19000	U	780	U	460	U	330	U		
PENTACHLOROPHENOL	47000	U	2000	U	1100	U	830	U		
PHENANTHRENE	4000	J	780	U	84	J	330	U		
ANTHRACENE	6400	J	780	U	460	U	330	U		
CARBAZOLE	19000	U	780	U	460	U	330	U		
DI-N-BUTYLPHTHALATE	19000	U	780	U	460	U	330	U		
FLUORANTHENE	35000		780	U	54	J	330	U		
PYRENE	26000		780	U	56	J	330	U		
BUTYLBENZYLPHTHALATE	19000	UJ	780	U	460	UJ	330	U		
3,3'-DICHLOROBENZIDINE	19000	U	780	U	460	U	330	U		
BENZO(A)ANTHRACENE	11000	J	780	U	460	U	330	U		
CHRYSENE	12000	J	780	U	52	J	330	U		
BIS(2-ETHYLHEXYL)PHTHALATE	19000	UJ	780	U	140	J	330	U		
DI-N-OCTYLPHTHALATE	19000	UJ	780	U	460	UJ	330	U		
BENZO(B)FLUORANTHENE	12000	J	780	U	460	U	330	U		
BENZO(K)FLUORANTHENE	9300	J	780	U	460	U	330	U		
BENZO(A)PYRENE	11000	J	780	U	460	U	330	U		
INDENO(1,2,3-CD)-PYRENE	9200	J	780	U	460	U	330	U		
DIBENZO(A,H)-ANTHRACENE	19000	U	780	U	460	U	330	U		
BENZO(G,H,I)PERYLENE	7500	J	780	U	460	U	330	U		

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Number of Soil Samples : 10
Number of Water Samples : 0

Sample Number :	E2BS8		E2BS9		E2BS9MS		E2BS9MSD		E2BT0	
Sampling Location :	SD1A		SD-1B		SD-1B		SD-1B		SD2A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	10:30		10:45		10:45		10:45		02:00	
%Moisture :	56		29		29		29		54	
pH :	6.4		6.8		6.8		6.8		6.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	3.8	U	2.4	U	2.4	U	2.4	U	3.7	U
BETA-BHC	3.8	U	2.4	U	2.4	U	2.4	U	3.7	U
DELTA-BHC	3.8	U	2.4	U	2.4	U	2.4	U	3.7	U
GAMMA-BHC (LINDANE)	3.8	U	2.4	U	22		23		3.7	U
HEPTACHLOR	3.8	U	2.4	U	24		24		3.7	U
ALDRIN	3.8	U	2.4	U	21		22		3.7	U
HEPTACHLOR EPOXIDE	3.8	U	2.4	U	2.4	U	2.4	U	3.7	U
ENDOSULFAN I	3.8	U	2.4	U	2.4	U	2.4	U	3.7	U
DIELDRIN	7.5	U	4.7	U	50		50		7.2	U
4,4'-DDE	1.4	J	7.4		3.8	J	4.0	J	5.7	J
ENDRIN	7.5	U	4.7	U	52		52		7.2	U
ENDOSULFAN II	7.5	U	4.7	U	4.6	U	4.6	U	7.2	U
4,4'-DDD	7.5	U	4.7	U	4.6	U	4.6	U	7.2	U
ENDOSULFAN SULFATE	7.5	U	4.7	U	4.6	U	4.6	U	7.2	U
4,4'-DDT	3.1	J	41		62		64		3.1	J
METHOXYCHLOR	38	U	24	U	24	U	24	U	37	U
ENDRIN KETONE	7.5	U	4.7	U	0.36	J	0.46	J	7.2	U
ENDRIN ALDEHYDE	7.5	U	4.7	U	4.6	U	4.6	U	7.2	U
ALPHA-CHLORDANE	3.8	U	2.4	U	2.4	U	2.4	U	3.7	U
GAMMA-CHLORDANE	3.8	U	2.4	U	2.4	U	2.4	U	3.7	U
TOXAPHENE	380	U	240	U	240	U	240	U	370	U
AROCLOR-1016	75	U	47	U	46	U	46	U	72	U
AROCLOR-1221	150	U	95	U	93	U	94	U	150	U
AROCLOR-1232	75	U	47	U	46	U	46	U	72	U
AROCLOR-1242	75	U	47	U	46	U	46	U	72	U
AROCLOR-1248	75	U	47	U	46	U	46	U	72	U
AROCLOR-1254	75	U	47	U	46	U	46	U	72	U
AROCLOR-1260	75	U	47	U	46	U	46	U	72	U

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT1		E2BT1DL		E2BT2		E2BT3		E2BT4	
Sampling Location :	SD2B		SD2B		SD3A		SD4A		SD4B	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	12:45		12:45		12:45		13:55		13:55	
%Moisture :	24		24		54		74		61	
pH :	6.8		6.8		5.9		6.1		5.8	
Dilution Factor :	1.0		10.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	2.2	U	22	U	3.7	U	6.6	R	2.1	J
BETA-BHC	2.2	U	22	U	3.7	U	6.6	R	4.3	U
DELTA-BHC	2.2	U	22	U	3.7	U	6.6	R	4.3	U
GAMMA-BHC (LINDANE)	2.2	U	22	U	3.7	U	6.6	R	4.3	U
HEPTACHLOR	2.2	U	22	U	3.7	U	6.6	R	4.3	U
ALDRIN	2.2	U	22	U	3.7	U	6.6	R	4.3	U
HEPTACHLOR EPOXIDE	2.2	U	22	U	3.7	U	6.6	R	4.3	U
ENDOSULFAN I	2.2	U	22	U	3.7	U	6.6	R	4.3	U
DIELDRIN	4.3	U	43	U	7.1	U	13	R	8.4	U
4,4'-DDE	63		61		3.9	J	57	J	6.2	J
ENDRIN	4.3	U	43	U	7.1	U	13	R	8.4	U
ENDOSULFAN II	4.3	U	43	U	7.1	U	13	R	8.4	U
4,4'-DDD	4.3	U	43	U	7.1	U	13	R	8.4	U
ENDOSULFAN SULFATE	4.3	U	43	U	7.1	U	13	R	8.4	U
4,4'-DDT	14.00000	J	190		6.9	J	22	J	13	
METHOXYCHLOR	22	U	220	U	37	U	65	R	43	U
ENDRIN KETONE	4.3	U	43	U	7.1	U	9.3	J	8.4	U
ENDRIN ALDEHYDE	4.3	U	43	U	7.1	U	9.0	J	8.4	U
ALPHA-CHLORDANE	2.2	U	22	U	3.7	U	6.6	R	4.3	U
GAMMA-CHLORDANE	2.2	U	22	U	3.7	U	6.6	R	4.3	U
TOXAPHENE	220	U	2200	U	370	U	650	R	430	U
AROCLOR-1016	43	U	430	U	71	U	130	R	84	U
AROCLOR-1221	87	U	870	U	140	U	260	R	170	U
AROCLOR-1232	43	U	430	U	71	U	130	R	84	U
AROCLOR-1242	43	U	430	U	71	U	130	R	84	U
AROCLOR-1248	43	U	430	U	71	U	130	R	84	U
AROCLOR-1254	43	U	430	U	71	U	130	R	84	U
AROCLOR-1260	43	U	430	U	71	U	130	R	84	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BS8
Site : GARY DEVELOPMENT LANDFILL
Lab. : A4
Reviewer :
Date :

Sample Number :	E2BT5		E2BT5DL		E2BT6		E2BT9		PBLK8Q	
Sampling Location :	SD5B		SD5B		SD5A		SD6A			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005			
Time Sampled :	15:25		15:25		15:25		18:20			
%Moisture :	65		65		58		28		N/A	
pH :	6.7		6.7		5.9		5.6		7.1	
Dilution Factor :	100.0		1000.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	480	U	4800	U	4.1	U	2.3	U	1.7	U
BETA-BHC	480	U	4800	U	4.1	U	2.3	U	1.7	U
DELTA-BHC	480	U	4800	U	4.1	U	2.3	U	1.7	U
GAMMA-BHC (LINDANE)	480	U	4800	U	4.1	U	2.3	U	1.7	U
HEPTACHLOR	480	U	4800	U	4.1	U	2.3	U	1.7	U
ALDRIN	480	U	4800	U	4.1	U	2.3	U	1.7	U
HEPTACHLOR EPOXIDE	480	U	4800	U	4.1	U	2.3	U	1.7	U
ENDOSULFAN I	480	U	4800	U	4.1	U	2.3	U	1.7	U
DIELDRIN	930	U	9300	U	7.9	U	4.6	U	3.3	U
4,4'-DDE	-6600.00000	J	70000		3.0	J	1.6	J	3.3	U
ENDRIN	930	U	9300	U	7.9	U	4.6	U	3.3	U
ENDOSULFAN II	930	U	9300	U	7.9	U	4.6	U	3.3	U
4,4'-DDD	1300	J	9300	U	7.9	U	4.6	U	3.3	U
ENDOSULFAN SULFATE	930	U	9300	U	7.9	U	4.6	U	3.3	U
4,4'-DDT	-3000.00000	J	71000		5.8	J	4.1	J	3.3	U
METHOXYCHLOR	4800	U	48000	U	41	U	23	U	17	U
ENDRIN KETONE	930	U	9300	U	7.9	U	4.6	U	3.3	U
ENDRIN ALDEHYDE	930	U	9300	U	7.9	U	4.6	U	3.3	U
ALPHA-CHLORDANE	480	U	4800	U	4.1	U	2.3	U	1.7	U
GAMMA-CHLORDANE	480	U	4800	U	4.1	U	2.3	U	1.7	U
TOXAPHENE	48000	U	480000	U	410	U	230	U	170	U
AROCLOR-1016	9300	U	93000	U	79	U	45	U	33	U
AROCLOR-1221	19000	U	190000	U	160	U	92	U	67	U
AROCLOR-1232	9300	U	93000	U	79	U	45	U	33	U
AROCLOR-1242	9300	U	93000	U	79	U	45	U	33	U
AROCLOR-1248	9300	U	93000	U	79	U	45	U	33	U
AROCLOR-1254	9300	U	93000	U	79	U	45	U	33	U
AROCLOR-1260	9300	U	93000	U	79	U	45	U	33	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5/25/05

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Gary Development Landfill, IN

CASE NUMBER: 34107 SDG NUMBER: E2BS8

Number and Type of Samples: 10 soil samples

Sample Numbers: E2BS8, S9, T0-T6, T9

Laboratory: A4 Scientific Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Sample Delivery Group(SDG)
Cover Sheet

SDG Number: E2BS8

Laboratory Name.: A4 SCIENTIFIC, INC. **Laboratory Code.:** A4

Contract No.: 68W03027 **Case No.:** 34107

Analysis Price: $378.00 **SDG Turnaround:** 21 **days**

EPA Sample Numbers in SDG(Listed in Numerical Order)

1)E2BS8	7)E2BT4	13)	19)
2)E2BS9	8)E2BT5	14)	20)
3)E2BT0	9)E2BT6	15)	21)
4)E2BT1	10)E2BT9	16)	22)
5)E2BT2	11)	17)	23)
6)E2BT3	12)	18)	24)

E2BS8
First Sample in SDG

E2BT9
Last Sample in SDG

04/22/2005
First Sample Receipt Date

04/22/2005
Last Sample Receipt Date

Note: There are a maximum of 20 samples (excluding PE sample) in SDG. Attach TRs to this form in alphanumeric order(the order listed above on this form).

Signature _____ **Date** 4/25/05

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

EPA

Case No: 34107
DAS No: KK 4/22/05
SDG No: E2BS8
L

Date Shipped:	4/20/2005
Carrier Name:	FedEx
Airbill:	811417266120
Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4-21-05/1:00pm		
2			
3			
4		KK 4/22/05	10:00

Sampler Signature:

For Lab Use Only

Lab Contract No: 68WC30027
Unit Price: $378.00
Transfer To:
Lab Contract No:
Unit Price: KK 4/22/05

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E2BS8	Sediment/ Dan Chesterson	L/G	VOA (21)	5244252 (NaHSO4), 5244253 (NaHSO4), 5244254 (MeOH) (3)	SD1A	S: 4/20/2005	10:30	ME2BS8 1st 5X	6056.002 Intact
E2BS9	Sediment/ Dan Chesterson	L/G	VOA (21)	5244259 (MeOH), 5244260 (NaHSO4), 5244261 (NaHSO4), 5244262 (NaHSO4), 5244263 (MeOH), 5244264 (NaHSO4), 5244265 (NaHSO4), 5244266 (NaHSO4), 5244267 (MeOH) (9)	SD-1B	S: 4/20/2005	10:45	ME2BS9	.003
E2BT0	Sediment/ Dan Chesterson	L/G	VOA (21)	5244277 (MeOH), 5244278 (NaHSO4), 5244279 (NaHSO4) (3)	SD2A	S: 4/20/2005	2:00	ME2BT0	.004
E2BT1	Sediment/ Dan Chesterson	L/G	VOA (21)	5244285 (MeOH), 5244286 (NaHSO4), 5244287 (NaOH) (3)	SD2B	S: 4/20/2005	12:45	ME2BT1	.005
E2BT2	Sediment/ Dan Chesterson	L/G	VOA (21)	5244292 (MeOH), 5244293 (NaHSO4), 5244294 (NaHSO4) (3)	SD3A	S: 4/20/2005	12:45	ME2BT2	.006
E2BT3	Sediment/ Dan Chesterson	L/G	VOA (21)	5244298 (MEOH), 5244299 (NaHSO4), 5244300 (NaHSO4) (3)	SD4A	S: 4/20/2005	13:55	ME2BT3	.007
E2BT4	Sediment/ Dan Chesterson	L/G	VOA (21)	5244306 (MeOH), 5244307 (NaHSO4), 5244308 (NaHSO4) (3)	SD4B	S: 4/20/2005	13:55	ME2BT4	.008
E2BT5	Sediment/ Dan Chesterson	L/G	VOA (21)	5244313 (Me0H), 5244314 (NaHSO4), 5244315 (NaHSO4) (3)	SD5B	S: 4/20/2005	15:25	ME2BT5	.009

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Y	E2BS9	KK 4/22/05	3°C	185652/185653

Analysis Key: VOA = CLP TCL Volatiles

Concentration: L = Low, M = Low/Medium, H = High

Type/Designate: Composite = C, Grab = G

Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-342946689-042005-0003

PR provides prelir y results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sa Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 7 4-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 34107
DAS No: kk4/22/05
SDG No: E2BS8

L

Date Shipped:	4/21/2005
Carrier Name:	FedEx
Airbill:	811417266325
Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	4/21/05 1:00 PM		
2			
3			
4		[signature]	4/22/05 10:00

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W03027
Unit Price:	$378.00
Transfer To:	
Lab Contract No:	
Unit Price:	kk4/22/05

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E2BS8	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244257 (Ice Only), 5244258 (Ice Only) (2)	SD1A	S: 4/20/2005	10:30	ME2BS8	SDG 1st 3X 6056.002 Intact
E2BS9	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244272 (Ice Only), 5244273 (Ice Only) (2)	SD-1B	S: 4/20/2005	10:45	ME2BS9	.003
E2BT0	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244275 (Ice Only), 5244276 (Ice Only) (2)	SD2A	S: 4/20/2005	2:00	ME2BT0	.004
E2BT1	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244282 (Ice Only), 5244283 (Ice Only) (2)	SD2B	S: 4/20/2005	12:45	ME2BT1	.005
E2BT2	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244289 (Ice Only), 5244290 (Ice Only) (2)	SD3A	S: 4/20/2005	12:45	ME2BT2	.006
E2BT3	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244296 (Ice Only), 5244297 (Ice Only) (2)	SD4A	S: 4/20/2005	13:55	ME2BT3	.007
E2BT4	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244304 (Ice Only), 5244305 (Ice Only) (2)	SD4B	S: 4/20/2005	13:55	ME2BT4	.008
E2BT5	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244311 (Ice Only), 5244312 (Ice Only) (2)	SD5B	S: 4/20/2005	15:25	ME2BT5	.009
E2BT6	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244318, 5244319 (2)	SD5A	S: 4/20/2005	15:25	ME2BT6	.010
E2BT9	Sediment/ Dan Chesterson	L/G	BNA (21), PEST (21)	5244349 (Ice Only), 5244350 (Ice Only) (2)	SD6A	S: 4/20/2005	18:20	ME2BT9	.011

SDG final 5x

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Y		kk4/22/05	3.5°C	185659/185658

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? Y Shipment Iced? Y

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs

TR Number: 5-342946689-042105-0001

PR provides prelim' results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sa Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 70 -9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 34107
DAS No: KK 4/22/05
SDG No: E2BS8
L

Date Shipped:	4/20/2005
Carrier Name:	FedEx
Airbill:	811417266120
Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	4-21-05/1:00PM	[signature]	
2			
3			
4		[signature]	4/22/05 10:00

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W03027
Unit Price:	$378.00
Transfer To:	
Lab Contract No:	
Unit Price:	KK 4/22/05

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E2BT6	Sediment/ Dan Chesterson	L/G	VOA (21)	5244320 (MeOH), 5244321 (NaHSO4), 5244322 (NaHSO4) (3)	SD5A	S: 4/20/2005	15:25	ME2BT6	6056.010 Intact
E2BT9	Sediment/ Dan Chesterson	L/G	VOA (21)	5244351 (MeOH), 5244352 (NaHSO4), 5244353 (NaHSO4) (3)	SD6A	S: 4/20/2005	18:20	ME2BT9	SD6 Analog .011

KK 4/22/05

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E2BS9	Additional Sampler Signature(s): KK 4/22/05	Cooler Temperature Upon Receipt: 3.5°C	Chain of Custody Seal Number: 185652/185653
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

TR Number: 5-342946689-042005-0003

PR provides prelir y results. Requests for preliminary results will increase analytical costs.
Send Copy to: S. e Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 7 4-9348 Fax 703/264-9222

MAY 2 5 2005

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: 68W03027	Case #: 34107	SDG #: E2BS8

SDG NARRATIVE

SAMPLE RECEIPT & LOGIN

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

EPA SAMPLE #	LAB SAMPLE #	DATE /TIME RECEIVED	AIRBILL NO.	VOA	BNA	PEST	REMARKS
E2BS8	6056.002	04/22/05 10:00	811417266120, 811417266325	X	X	X	
E2BS9	6056.003	04/22/05 10:00	811417266120, 811417266325	X	X	X	MS/MSD
E2BT0	6056.004	04/22/05 10:00	811417266120, 811417266325	X	X	X	
E2BT1	6056.005	04/22/05 10:00	811417266120, 811417266325	X	X	X	
E2BT2	6056.006	04/22/05 10:00	811417266120, 811417266325	X	X	X	
E2BT3	6056.007	04/22/05 10:00	811417266120, 811417266325	X	X	X	
E2BT4	6056.008	04/22/05 10:00	811417266120, 811417266325	X	X	X	
E2BT5	6056.009	04/22/05 10:00	811417266120, 811417266325	X	X	X	
E2BT6	6056.010	04/22/05 10:00	811417266120, 811417266325	X	X	X	
E2BT9	6056.011	04/22/05 10:00	811417266120, 811417266325	X	X	X	

The cooler temperatures are listed against the coolers.

DATE RECEIVED	COOLER NO.	Temp (in °C)
04/22/05	1	3.5
04/22/05	2	3

E2BT5 is not listed for percent solids on TR but lab received 1- 4 oz jar.
No other discrepancies or issues were noted during sample receipt and login.

VOLATILES

Samples were analyzed using instrument **A-5971**.

Instrument **A-5971** consisted of an HP 5971 GC/MS with a 25-meter long DB-624 (Agilent cat# 128-1324) column having a 0.2mm ID and 1.12µm film thickness, a ENCON Purge and Trap with an Archon autosampler. The trap used was a K trap (VOCARB 3000) having 10cm of Carbopack B, 6cm of Carboxen 1000, and 1cm Carboxen 1001.

The estimated concentrations of alkanes are attached.

Sample E2BS9 and E2BT4 failed in the internal standards, samples were reanalyzed and failed in the similar way. Manual integrations were performed for the following sample for the compound listed against it.

MAY 2 5 2005

A4 SCIENTIFIC, INC.
1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: 68W03027	Case #: 34107	SDG #: E2BS8

SDG NARRATIVE

E2BT4RE – Xylene (total)

These manual integrations were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration, the scan ranges, and initials of the analyst or manager is included in the data package.

SEMI-VOLATILES

Soil samples were extracted using the sonication method on 04/26/2005. No problems were encountered during extraction. GPC cleanup was performed on all soil samples and the associated Blanks, MS, and MSD.

All samples were analyzed on a HP5973 GC-MS using a 30-meter HP-5MS column (Agilent cat#19091S-433) having a 0.25mm ID and a 0.25μm film thickness. A 2μL injection was used.

The estimated concentrations of alkanes are attached.

Sample E2BT5 was run at a 20 X dilution, to get all the target compounds within the initial calibration range.

Manual integrations were performed for the following samples for the compounds listed against them.

SSTD0505L – Pentachlorophenol
SSTD0505L – Indeno (1,2,3 – cd) pyrene
SSTD0205L – Indeno (1,2,3 – cd) pyrene
SSTD0805L – Indeno (1,2,3 – cd) pyrene
SSTD1205L – Indeno (1,2,3 – cd) pyrene
SSTD1605L – Indeno (1,2,3 – cd) pyrene
SSTD0505N – Indeno (1,2,3 – cd) pyrene
SSTD0505O – Indeno (1,2,3 – cd) pyrene
SSTD0505O – Pentachlorophenol
E2BT3 – Benzo [k] fluoranthene
E2BT5DL – Benzo [k] fluoranthene
E2BT5 – Benzo (b) fluoranthene
E2BT5 – Benzo [k] fluoranthene

These manual integrations were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration, the scan ranges, and initials of the analyst or manager is included in the data package.

PESTICIDES

Soil samples were extracted using the sonication method on 04/24/2005. No problems were encountered during extraction. GPC cleanup was performed on all soil samples and the associated Blanks, MS, and MSD.

amples were analyzed using instrument **C-6890**.

Instrument C-6890 consisted of a dual inlet, dual ECD Agilent 6890 GC/ECD instrument with the following two columns manufactured by Restek. A 1μL injection was used on each column

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: 68W03027	Case #: 34107	SDG #: E2BS8

SDG NARRATIVE

Column 1= RTX-PEST: Cat # 11140, 30m long, 0.53mm ID, 0.5µm film thickness (Instrument ID: C-6890A).
Column 2 = RTX-PEST2: Cat # 111340, 30m long, 0.53mm ID, 0.42µm film thickness (instrument ID: C-6890B)

A 1µL injection was used on each column.

Sample E2BT5 was analyzed at 100x and 1000X dilutions.

Manual integrations were performed for the following compounds for the samples listed against them.

COMPOUND	*EPA SAMPLE ID (Inst=C-6890A)*	*EPA SAMPLE ID (Inst=C-6890B)*
Tetrachloro-m-xylene	E2BT3, E2BT5	E2BT5
4,4'-DDE	E2BS8	
Decachlorobiphenyl		E2BT3

These manual integrations were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration, the scan ranges, and initials of the analyst or manager is included in the data package.

e following equations are used for calculation of sample results from raw instrument output data:

Volatiles:

$$\text{Concentration } (\mu g/Kg) = \frac{(Ax)(Is)}{(Ais)(RRF)(Ws)(D)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured.
A_{is} = Area of the characteristic ion (EICP) for the specific internal standard.
I_s = Amount of internal standard added in nanograms (ng).
RRF = the relative response factor from the heated purge of the calibration standard.
W_s = Weigh tof sample added to the purge tube, in grams (g).

$$D = \frac{100 - \%moisture}{100}$$

Semivolatiles:

$$\text{Concentration } (\mu g/Kg) = \frac{(Ax)(Is)(Vt)(Df)(GPC)}{(Ais)(RRF)(Vi)(Ws)(D)}$$

A_x = Area of the characteristic ion for the compound to be measured.
A_{is} = Area of the characteristic ion for the internal standard.
I_s = Amount of internal standard injected in nanograms (ng).
V_t = Volume of the concentrated extract in microliters (µL).
V_i = Volume of the extract injected in microliters (µL).

$$D = \frac{100 - \%moisture}{100}$$

$_s$ = Weight of sample extracted in grams (g)
GPC = GPC factor (GPC = 2.0 to account for GPC cleanup)
Df = Dilution factor

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: 68W03027	Case #: 34107	SDG #: E2BS8

SDG NARRATIVE

Pesticides:

$$\text{Concentration } (\mu g/Kg) = \frac{(Ax)(Vt)(Df)(GPC)}{(CF)(Vi)(Ws)(D)}$$

A_x = Area of the peak for the compound to be measured.
CF = Calibration factor from the initial calibration for the mid-point concentration external standard (area per ng).
V_t = 5,000 μL
V_i = Volume of extract injected in microliters (μL).

$$D = \frac{100 - \%moisture}{100}$$

W_s = Weight of sample extracted in grams (g)
Df = Dilution factor
GPC = GPC factor = 2

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature:

Sumanreddy/QC Coordinator
Signature and Title

5/24/05
Date of Signature

Alkane Report- VOA

CASE: 34107 **SDG:** E2BS8 **UNITS:** UG/KG

EPA ID	Lab ID	COMPOUND	CAS NO	RT	CONC
E2BT4	6056.008	Cyclic Alkane	004923-78-8	11.52	112
E2BT4	6056.008	Octane, 2,6-dimethyl-	002051-30-1	11.88	118
E2BT4	6056.008	Branched Alkane	007146-60-3	12.13	169
E2BT4	6056.008	Cyclic Alkane	007045-67-2	12.25	98
E2BT4	6056.008	Branched Alkane	001071-31-4	12.69	204
E2BT4	6056.008	Cyclic Alkane	013990-93-7	12.83	125
E2BT4	6056.008	Branched Alkane	017312-53-7	13.77	72
E2BT4	6056.008	Branched Alkane	007154-80-5	13.96	155
E2BT4	6056.008	Branched Alkane	062016-28-8	14.09	419
E2BT4	6056.008	Branched Alkane	013151-34-3	14.26	274
E2BT4	6056.008	Cyclic Alkane	001678-98-4	14.37	183
E2BT4	6056.008	Branched Alkane	056292-65-0	14.58	641
E2BT4	6056.008	Branched Alkane	016747-25-4	15.03	810
E2BT4	6056.008	Branched Alkane	017312-54-8	15.40	125
E2BT4	6056.008	Cyclic Alkane	000590-66-9	15.92	197
E2BT4	6056.008	Branched Alkane	074645-98-0	17.29	345
E2BT4	6056.008	Branched Alkane	062238-14-6	17.60	149
E2BT4	6056.008	Branched Alkane	017301-23-4	18.06	495
E2BT4	6056.008	Cyclohexane, 2-butyl-1,1,3-tr	054676-39-0	18.83	272
E2BT4	6056.008	Cyclic Alkane	061142-52-7	19.95	92
E2BT4RE	6056.008RE	Branched Alkane	002051-30-1	11.89	429
E2BT4RE	6056.008RE	Branched Alkane	007146-60-3	12.14	371
E2BT4RE	6056.008RE	Cyclic Alkane	016538-89-9	12.26	178
E2BT4RE	6056.008RE	Cyclic Alkane	050876-32-9	12.40	155
E2BT4RE	6056.008RE	Branched Alkane	001071-31-4	12.70	324
E2BT4RE	6056.008RE	Cyclic Alkane	013990-93-7	12.85	212
E2BT4RE	6056.008RE	Cyclic Alkane	255885-37-1	12.92	293
E2BT4RE	6056.008RE	Cyclic Alkane	053771-88-3	13.42	159
E2BT4RE	6056.008RE	Branched Alkane	003891-98-3	13.78	125
E2BT4RE	6056.008RE	Branched Alkane	002847-72-5	13.97	700
E2BT4RE	6056.008RE	Branched Alkane	015869-87-1	14.10	720
E2BT4RE	6056.008RE	Branched Alkane	013287-21-3	14.27	502
E2BT4RE	6056.008RE	Cyclic Alkane	029053-04-1	14.72	200
E2BT4RE	6056.008RE	Branched Alkane	017312-53-7	16.04	315
E2BT4RE	6056.008RE	Branched Alkane	013151-34-3	16.30	469
E2BT4RE	6056.008RE	Branched Alkane	002051-30-1	17.30	400
E2BT4RE	6056.008RE	Branched Alkane	000563-16-6	17.61	164
E2BT4RE	6056.008RE	Cyclic Alkane	000624-29-3	18.07	738
E2BT4RE	6056.008RE	Cyclic Alkane	053771-88-3	18.24	192
E2BT4RE	6056.008RE	Cyclohexane, 2-butyl-1,1,3-tr	054676-39-0	18.84	409
E2BT4RE	6056.008RE	Cyclic Alkane	050876-31-8	19.56	159

Alkane Report- SVOA

CASE: 34107 **SDG:** E2BS8 **UNITS:** UG/KG

EPA ID	Lab ID	COMPOUND	CAS NO	RT	CONC
E2BS8	6056.002	Hexatriacontane	000630-06-8	12.59	76
E2BS8	6056.002	Eicosane	000112-95-8	13.34	178
E2BS8	6056.002	Nonadecane	000629-92-5	14.17	283
E2BT0	6056.004	Branched Alkane	002051-30-1	6.18	124
E2BT0	6056.004	Tridecane	000629-50-5	6.37	265
E2BT0	6056.004	Tetradecane	000629-59-4	7.05	194
E2BT0	6056.004	Dodecane	000112-40-3	7.45	168
E2BT0	6056.004	Hexadecane	000544-76-3	8.28	166
E2BT0	6056.004	Branched Alkane-	003892-00-0	8.57	203
E2BT0	6056.004	Heptadecane	000629-78-7	8.86	117
E2BT0	6056.004	Heptadecane, 2,6-dimethyl-	054105-67-8	8.89	253
E2BT0	6056.004	Heptadecane	000629-78-7	9.40	91
E2BT0	6056.004	Nonadecane	000629-92-5	9.92	111
E2BT0	6056.004	Eicosane	000112-95-8	10.41	80
E2BT0	6056.004	Heneicosane	000629-94-7	10.89	94
E2BT0	6056.004	Docosane	000629-97-0	11.33	92
E2BT0	6056.004	Octacosane	000630-02-4	11.77	111
E2BT0	6056.004	Hexadecane	000544-76-3	12.59	107
E2BT0	6056.004	Hexadecane	000544-76-3	12.98	82
E2BT0	6056.004	Octacosane	000630-02-4	13.34	116
E2BT0	6056.004	Nonacosane	000630-03-5	14.17	74
E2BT2	6056.006	Heptadecane	000629-78-7	8.85	175
E2BT2	6056.006	Tetracosane	000646-31-1	13.34	326
E2BT4	6056.008	Heptadecane	000629-78-7	8.86	151
E2BT9	6056.011	Branched Alkane	002051-30-1	6.17	109
E2BT9	6056.011	Tridecane	000629-50-5	6.36	224
E2BT9	6056.011	Tetradecane	000629-59-4	7.03	179
E2BT9	6056.011	Branched Alkane	061141-72-8	7.43	139
E2BT9	6056.011	Hexadecane	000544-76-3	8.27	135
E2BT9	6056.011	Pentadecane, 2,6,10-trimethyl	003892-00-0	8.56	162
E2BT9	6056.011	Pentadecane	000629-62-9	8.85	116
E2BT9	6056.011	Pentadecane, 2,6,10,14-tetram	001921-70-6	8.88	249
E2BT9	6056.011	Tetradecane	000629-59-4	9.39	86
E2BT9	6056.011	Hexadecane	000544-76-3	9.91	98
E2BT9	6056.011	Eicosane	000112-95-8	10.41	78
E2BT9	6056.011	Tridecane, 6-propyl-	055045-10-8	10.88	92
E2BT9	6056.011	Branched Alkane	000629-78-7	11.33	91
E2BT9	6056.011	Octacosane	000630-02-4	11.76	109
E2BT9	6056.011	Heneicosane	000629-94-7	12.18	74
E2BT9	6056.011	Heptadecane	000629-78-7	12.58	107
E2BT9	6056.011	Heneicosane	000629-94-7	12.96	84
E2BT9	6056.011	Tricosane, 2-methyl-	001928-30-9	13.33	126
E2BT9	6056.011	Heneicosane	000629-94-7	14.16	124

sumana

From: "Brown, Jessica" <jbrown208@fedcsc.com>
To: "Reddy Pakanati (E-mail)" <pakanati@a4scientific.com>; "Sumana" <sumana@a4scientific.com>; <vishnu@a4scientific.com>
Cc: "Mark Jaworski (E-mail)" <mjaworsk@dem.state.in.us>; "Carlene Thomas (E-mail)" <thomas.carlene@epa.gov>; "Warren Layne (E-mail)" <layne.warren@epa.gov>
Sent: Tuesday, April 26, 2005 12:47
Subject: Region 05 | Case 34107 | Lab A4 | Issue Incorrect/missing copies of TR/COC | FINAL

Hi Sumana,

Per Region 5, please note the issue in the SDG Narrative and proceed with the analysis of the samples received.

Thanks,
Jessica

4/26/05 12:30PM Jessica Brown, SMO, received a voice-mail message from Mark Jaworski, IDEM, concerning the % moisture issue. Mark relayed that if any information is missing from the TR indicating % moisture, the lab can match up the tags on the containers to the correct CLP sample.

-----Original Message-----
From: Brown, Jessica
Sent: Tuesday, April 26, 2005 10:48 AM
To: Mark Jaworski (E-mail); Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 34107 | Lab A4 | Issue Incorrect/missing copies of TR/COC

Hi Mark/Carlene,

ı not clear on how the lab is to proceed with the second issue. Please clarify:

Issue 2) Also, the % moisture for sample E2BT5 is not indicated on the % moisture TR. The lab has the volume to perform % moisture on this sample.

-----Original Message-----
From: Thomas.Carlene@epamail.epa.gov [mailto:Thomas.Carlene@epamail.epa.gov]
Sent: Tuesday, April 26, 2005 10:37 AM
To: Brown, Jessica
Subject: Re: Please reply: Region 05 | Case 34107 | Lab A4 | Issue Incorrect/m issing copies of TR/COC

Please proceed with recommendation per Mark and make note in case narrative.
Carlene

-----Original Message-----
From: Brown, Jessica
Sent: Tuesday, April 26, 2005 9:51 AM
To: Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Please reply: Region 05 | Case 34107 | Lab A4 | Issue Incorrect/missing copies of TR/COC

Hi Carlene,

The following is the resolution provided by Mark Jaworski, IDEM. Please advise on the following issues as quickly as possible:

Issue 1) A4 is reporting that they received a separate TR for the % moisture for Case 34107. This TR does not have CLP .mple IDs however, the lab is able to match the samples based on the station locations.

Issue 2) Also, the % moisture for sample E2BT5 is not indicated on the % moisture TR. The lab has the volume to perform % moisture on this sample.

Please see the resolution provided by Mark Jaworski, IDEM, below. Additionally, is the lab to perform % moisture on sample E2BT5 (it's not clear from Mark's reply).

anks,
essica

-----Original Message-----
From: MARK JAWORSKI [mailto:MJAWORSK@idem.in.gov]
Sent: Tuesday, April 26, 2005 9:18 AM
To: jbrown208@fedcsc.com
Subject: Re: Region 05 | Case 34107 | Lab A4 | Issue Incorrect/missing copies of TR/COC

Jessica,

Yes this is correct. It was done this way because of the computer glitch we encountered. Go ahead and match the CLP #s with the station #s. Note: The tags on the percent solids containers will have both the CLP and Station #s.

Mark

-----Original Message-----
From: Brown, Jessica
Sent: Monday, April 25, 2005 2:56 PM
To: Mark Jaworski (E-mail)
Cc: Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 34107 | Lab A4 | Issue Incorrect/missing copies of TR/COC

Hi Mark,

A4 is reporting that they received a separate TR for the % moisture for Case 34107. This TR does not have CLP sample IDs owever, the lab is able to match the samples based on the station locations. Also, the % moisture for sample E2BT5 is t indicated on the % moisture TR. The lab has the volume to perform % moisture on this sample.

Please advise as quickly as possible.

Thanks,
Jessica

4/25/05 2:49PM Jessica Brown, SMO, spoke with Sumana Inavolu, A4, concerning Case 34107. The lab reported that all of the station locations on the % moisture TR match that on the VOA analysis TR. The % moisture for sample E2BT5 is not indicated on the % moisture TR. The lab has the volume to perform % moisture on this sample.

-----Original Message-----
From: Brown, Jessica
Sent: Monday, April 25, 2005 8:24 AM
To: Reddy Pakanati (E-mail); Sumana; vishnu@a4scientific.com
Cc: Mark Jaworski (E-mail); Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 34107 | Lab A4 | Issue Incorrect/missing copies of TR/COC

Sumana,

Concerning the issue A4 reported on 4/22 regarding the % moisture, can the lab match up the % moisture containers to the samples using the station locations?

Please advise.

Thanks,
ssica

-----Original Message-----
From: Brown, Jessica
Sent: Friday, April 22, 2005 5:10 PM

To: Carlene Thomas (E-mail); Warren Layne (E-mail)
Cc: Mark Jaworski (E-mail)
Subject: Region 05 | Case 34107 | Lab A4 | Issue Incorrect/missing copies of TR/COC

'ease advise on the following issue:

Issue: The lab indicated that they recieved a TR with % moisture in addition to two TR's listing samples for VOA. The TR for % moisture only lists station locations, not CLP ID's.

thanks,
Mike

Jessica Brown
Computer Sciences Corporation
Environmental Scientist
CLP Coordinator for Regions 4, 5, & 8
Phone: (703) 818-4215; Fax: (703) 818-4602
jbrown208@fedcsc.com

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4/22/2005 Sumana Inavolu, A4, contacted Mike Benhoff, SMO with an issue for Case 34107. Sumana indicated that they recieved a TR with % moisture in addition to two TR's listing samples for VOA. The TR for % moisture only lists station locations, not CLP ID's.

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Level(low/med): LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK75	97	93	94		0
02	E2BS9	98	82	95		0
03	E2BT0	110	102	94		0
04	E2BT2	93	96	87		0
05	E2BT3	101	96	90		0
06	E2BT4	112	100	86		0
07	E2BT5	112	87	81		0
08	E2BT6	96	98	86		0
09	E2BT9	114	79	79		0
10	VBLK77	103	88	90		0
11	E2BS8	107	88	88		0
12	E2BT1	104	101	93		0
13	E2BS9MSD	102	98	96		0
14	E2BT4RE	120	96	96		0
15	E2BS9MS	111	101	100		0
16	E2BS9RE	122	8 *	100		1
17	VHBLK01	100	86	82		0
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Marix Spike - EPA Sample No.: E2BS9 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	60	0	45	75	59-172
Trichloroethene	60	0	57	95	62-137
Benzene	60	0	58	97	66-142
Toluene	60	0	57	95	59-139
Chlorobenzene	60	0	58	97	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	54	43	80	6	22	59-172
Trichloroethene	54	53	98	3	24	62-137
Benzene	54	55	102	5	21	66-142
Toluene	54	53	98	3	21	59-139
Chlorobenzene	54	54	100	3	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits.

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

_____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK75

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Lab File ID: A3042 Lab Sample ID: AVBLK75

Date Analyzed: 04/27/05 Time Analyzed: 0839

GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) Y

Instrument ID: A-5971

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2BS9	6056.003	A3043	0917
02	E2BT0	6056.004	A3046	1332
03	E2BT2	6056.006	A3048	1519
04	E2BT3	6056.007	A3049	1554
05	E2BT4	6056.008	A3050	1632
06	E2BT5	6056.009	A3051	1710
07	E2BT6	6056.0010	A3052	1808
08	E2BT9	6056.0011	A3053	1849
09				
10				
11				
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29				
30				

COMMENTS _____

_____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK77

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Lab File ID: A3063 Lab Sample ID: AVBLK77

Date Analyzed: 04/28/05 Time Analyzed: 1000

GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) Y

Instrument ID: A-5971

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2BS8	6056.002	A3064	1107
02	E2BT1	6056.005	A3065	1140
03	E2BS9MSD	6056.003MSD	A3067	1247
04	E2BT4RE	6056.008RE	A3068	1320
05	E2BS9MS	6056.003MS	A3069	1353
06	E2BS9RE	6056.003RE	A3070	1427
07	VHBLK01	6056.001	A3071	1502
08				
09				
10				
11				
12				
13				
14				
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COMMENTS _____

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.002

Sample wt/Vol: 5.1 (g/mL) G Lab File ID: A3064

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 56 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	22	U
74-87-3	Chloromethane	22	U
75-01-4	Vinyl Chloride	22	U
74-83-9	Bromomethane	22	U
75-00-3	Chloroethane	22	U
75-69-4	Trichlorofluoromethane	22	U
75-35-4	1,1-Dichloroethene	22	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U
67-64-1	Acetone	17	JB
75-15-0	Carbon Disulfide	22	U
79-20-9	Methyl Acetate	22	U
75-09-2	Methylene Chloride	62	B
156-60-5	trans-1,2-Dichloroethene	22	U
1634-04-4	Methyl tert-Butyl Ether	22	U
75-34-3	1,1-Dichloroethane	22	U
156-59-2	cis-1,2-Dichloroethene	22	U
78-93-3	2-Butanone	22	U
67-66-3	Chloroform	22	U
71-55-6	1,1,1-Trichloroethane	22	U
110-82-7	Cyclohexane	22	U
56-23-5	Carbon Tetrachloride	22	U
71-43-2	Benzene	22	U
107-06-2	1,2-Dichloroethane	22	U

00000021

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.002

Sample wt/Vol: 5.1 (g/mL) G Lab File ID: A3064

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 56 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	22	U
108-87-2	Methylcyclohexane	22	U
78-87-5	1,2-Dichloropropane	22	U
75-27-4	Bromodichloromethane	22	U
10061-01-5	cis-1,3-Dichloropropene	22	U
108-10-1	4-Methyl-2-pentanone	22	U
108-88-3	Toluene	22	U
10061-02-6	trans-1,3-Dichloropropene	22	U
79-00-5	1,1,2-Trichloroethane	22	U
127-18-4	Tetrachloroethene	22	U
591-78-6	2-Hexanone	22	U
124-48-1	Dibromochloromethane	22	U
106-93-4	1,2-Dibromoethane	22	U
108-90-7	Chlorobenzene	22	U
100-41-4	Ethylbenzene	22	U
1330-20-7	Xylene (total)	22	U
100-42-5	Styrene	22	U
75-25-2	Bromoform	22	U
98-82-8	Isopropylbenzene	22	U
79-34-5	1,1,2,2-Tetrachloroethane	22	U
541-73-1	1,3-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
95-50-1	1,2-Dichlorobenzene	22	U
96-12-8	1,2-Dibromo-3-chloropropane	22	U
120-82-1	1,2,4-Trichlorobenzene	22	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BS8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.002

Sample wt/Vol: 5.1 (g/mL) G Lab File ID: A3064

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 56 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003

Sample wt/Vol: 5.8 (g/mL) G Lab File ID: A3043

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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	26	B
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	29	
75-09-2	Methylene Chloride	6	JB
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	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	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003

Sample wt/Vol: 5.8 (g/mL) G Lab File ID: A3043

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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	12	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
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	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	12	U
1330-20-7	Xylene (total)	12	U
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	12	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BS9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003

Sample wt/Vol: 5.8 (g/mL) G Lab File ID: A3043

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MS

Sample wt/Vol: 5.9 (g/mL) G Lab File ID: A3069

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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	45	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	41	B
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	9	JB
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	4	J
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	58	
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MS

Sample wt/Vol: 5.9 (g/mL) G Lab File ID: A3069

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	57	
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	12	U
108-88-3	Toluene	57	
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	58	
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
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	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2BS9MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MSD

Sample wt/Vol: 6.5 (g/mL) G Lab File ID: A3067

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	43	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	36	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	13	B
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	4	J
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	55	
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2BS9MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MSD

Sample wt/Vol: 6.5 (g/mL) G Lab File ID: A3067

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	53	
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	53	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	54	
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9RE

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003RE

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3070

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	43	B
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	18	B
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl tert-Butyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9RE

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003RE

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3070

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BS9RE

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003RE

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3070

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 29 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT0

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.004

Sample wt/Vol: 4.5 (g/mL) G Lab File ID: A3046

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 54 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	24	U
74-87-3	Chloromethane	11	J
75-01-4	Vinyl Chloride	24	U
74-83-9	Bromomethane	24	U
75-00-3	Chloroethane	24	U
75-69-4	Trichlorofluoromethane	24	U
75-35-4	1,1-Dichloroethene	24	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U
67-64-1	Acetone	240	B
75-15-0	Carbon Disulfide	24	U
79-20-9	Methyl Acetate	24	U
75-09-2	Methylene Chloride	24	B
156-60-5	trans-1,2-Dichloroethene	24	U
1634-04-4	Methyl tert-Butyl Ether	24	U
75-34-3	1,1-Dichloroethane	24	U
156-59-2	cis-1,2-Dichloroethene	24	U
78-93-3	2-Butanone	35	
67-66-3	Chloroform	24	U
71-55-6	1,1,1-Trichloroethane	24	U
110-82-7	Cyclohexane	24	U
56-23-5	Carbon Tetrachloride	24	U
71-43-2	Benzene	24	U
107-06-2	1,2-Dichloroethane	24	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT0

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.004

Sample wt/Vol: 4.5 (g/mL) G Lab File ID: A3046

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 54 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	24	U
108-87-2	Methylcyclohexane	24	U
78-87-5	1,2-Dichloropropane	24	U
75-27-4	Bromodichloromethane	24	U
10061-01-5	cis-1,3-Dichloropropene	24	U
108-10-1	4-Methyl-2-pentanone	24	U
108-88-3	Toluene	24	U
10061-02-6	trans-1,3-Dichloropropene	24	U
79-00-5	1,1,2-Trichloroethane	24	U
127-18-4	Tetrachloroethene	24	U
591-78-6	2-Hexanone	24	U
124-48-1	Dibromochloromethane	24	U
106-93-4	1,2-Dibromoethane	24	U
108-90-7	Chlorobenzene	24	U
100-41-4	Ethylbenzene	24	U
1330-20-7	Xylene (total)	24	U
100-42-5	Styrene	24	U
75-25-2	Bromoform	24	U
98-82-8	Isopropylbenzene	24	U
79-34-5	1,1,2,2-Tetrachloroethane	24	U
541-73-1	1,3-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	24	U
95-50-1	1,2-Dichlorobenzene	24	U
96-12-8	1,2-Dibromo-3-chloropropane	24	U
120-82-1	1,2,4-Trichlorobenzene	24	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT0

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.004

Sample wt/Vol: 4.5 (g/mL) G Lab File ID: A3046

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 54 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000108-20-3	Diisopropyl ether	4.46	61	JN
2. 000109-99-9	Furan, tetrahydro-	5.66	31	JN
3. 000142-68-7	Tetrahydropyran	7.34	36	JN
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.005

Sample wt/Vol: 4.5 (g/mL) G Lab File ID: A3065

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 24 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	50	B
75-15-0	Carbon Disulfide	4	J
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	15	B
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	Methyl tert-Butyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	11	J
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2BT1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.005

Sample wt/Vol: 4.5 (g/mL) G Lab File ID: A3065

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 24 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.005

Sample wt/Vol: 4.5 (g/mL) G Lab File ID: A3065

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 24 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	1.96	200	J
2. 000108-20-3	Diisopropyl ether	4.47	52	JN
3. 000109-99-9	Furan, tetrahydro-	5.67	22	JN
4.	UNKNOWN	6.49	13	J
5. 000142-68-7	Tetrahydropyran	7.36	23	JN
6. 001195-79-5	Bicyclo[2.2.1]heptan-2-one,	17.89	17	JN
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.006

Sample wt/Vol: 3.4 (g/mL) G Lab File ID: A3048

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 54 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	32	U
74-87-3	Chloromethane	11	J
75-01-4	Vinyl Chloride	32	U
74-83-9	Bromomethane	32	U
75-00-3	Chloroethane	32	U
75-69-4	Trichlorofluoromethane	32	U
75-35-4	1,1-Dichloroethene	32	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	32	U
67-64-1	Acetone	220	B
75-15-0	Carbon Disulfide	32	U
79-20-9	Methyl Acetate	18	J
75-09-2	Methylene Chloride	28	JB
156-60-5	trans-1,2-Dichloroethene	32	U
1634-04-4	Methyl tert-Butyl Ether	32	U
75-34-3	1,1-Dichloroethane	32	U
156-59-2	cis-1,2-Dichloroethene	32	U
78-93-3	2-Butanone	32	
67-66-3	Chloroform	32	U
71-55-6	1,1,1-Trichloroethane	32	U
110-82-7	Cyclohexane	32	U
56-23-5	Carbon Tetrachloride	32	U
71-43-2	Benzene	32	U
107-06-2	1,2-Dichloroethane	32	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.006

Sample wt/Vol: 3.4 (g/mL) G Lab File ID: A3048

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 54 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	32	U
108-87-2	Methylcyclohexane	32	U
78-87-5	1,2-Dichloropropane	32	U
75-27-4	Bromodichloromethane	32	U
10061-01-5	cis-1,3-Dichloropropene	32	U
108-10-1	4-Methyl-2-pentanone	32	U
108-88-3	Toluene	32	U
10061-02-6	trans-1,3-Dichloropropene	32	U
79-00-5	1,1,2-Trichloroethane	32	U
127-18-4	Tetrachloroethene	32	U
591-78-6	2-Hexanone	32	U
124-48-1	Dibromochloromethane	32	U
106-93-4	1,2-Dibromoethane	32	U
108-90-7	Chlorobenzene	32	U
100-41-4	Ethylbenzene	32	U
1330-20-7	Xylene (total)	32	U
100-42-5	Styrene	32	U
75-25-2	Bromoform	32	U
98-82-8	Isopropylbenzene	32	U
79-34-5	1,1,2,2-Tetrachloroethane	32	U
541-73-1	1,3-Dichlorobenzene	32	U
106-46-7	1,4-Dichlorobenzene	32	U
95-50-1	1,2-Dichlorobenzene	32	U
96-12-8	1,2-Dibromo-3-chloropropane	32	U
120-82-1	1,2,4-Trichlorobenzene	32	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.006

Sample wt/Vol: 3.4 (g/mL) G Lab File ID: A3048

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 54 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.48	63	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.007

Sample wt/Vol: 3.8 (g/mL) G Lab File ID: A3049

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 74 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	51	U
74-87-3	Chloromethane	51	U
75-01-4	Vinyl Chloride	51	U
74-83-9	Bromomethane	51	U
75-00-3	Chloroethane	51	U
75-69-4	Trichlorofluoromethane	51	U
75-35-4	1,1-Dichloroethene	51	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	51	U
67-64-1	Acetone	730	B
75-15-0	Carbon Disulfide	32	J
79-20-9	Methyl Acetate	51	U
75-09-2	Methylene Chloride	40	JB
156-60-5	trans-1,2-Dichloroethene	51	U
1634-04-4	Methyl tert-Butyl Ether	51	U
75-34-3	1,1-Dichloroethane	51	U
156-59-2	cis-1,2-Dichloroethene	51	U
78-93-3	2-Butanone	110	
67-66-3	Chloroform	51	U
71-55-6	1,1,1-Trichloroethane	51	U
110-82-7	Cyclohexane	51	U
56-23-5	Carbon Tetrachloride	51	U
71-43-2	Benzene	51	U
107-06-2	1,2-Dichloroethane	51	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.007

Sample wt/Vol: 3.8 (g/mL) G Lab File ID: A3049

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 74 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	51	U
108-87-2	Methylcyclohexane	51	U
78-87-5	1,2-Dichloropropane	51	U
75-27-4	Bromodichloromethane	51	U
10061-01-5	cis-1,3-Dichloropropene	51	U
108-10-1	4-Methyl-2-pentanone	51	U
108-88-3	Toluene	51	U
10061-02-6	trans-1,3-Dichloropropene	51	U
79-00-5	1,1,2-Trichloroethane	51	U
127-18-4	Tetrachloroethene	51	U
591-78-6	2-Hexanone	51	U
124-48-1	Dibromochloromethane	51	U
106-93-4	1,2-Dibromoethane	51	U
108-90-7	Chlorobenzene	51	U
100-41-4	Ethylbenzene	51	U
1330-20-7	Xylene (total)	51	U
100-42-5	Styrene	51	U
75-25-2	Bromoform	51	U
98-82-8	Isopropylbenzene	51	U
79-34-5	1,1,2,2-Tetrachloroethane	51	U
541-73-1	1,3-Dichlorobenzene	51	U
106-46-7	1,4-Dichlorobenzene	51	U
95-50-1	1,2-Dichlorobenzene	51	U
96-12-8	1,2-Dibromo-3-chloropropane	51	U
120-82-1	1,2,4-Trichlorobenzene	51	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.007

Sample wt/Vol: 3.8 (g/mL) G Lab File ID: A3049

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 74 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	1.77	130	J
2.	UNKNOWN	1.99	490	J
3. 000066-25-1	Hexanal	10.59	82	JN
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008

Sample wt/Vol: 4.1 (g/mL) G Lab File ID: A3050

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 61 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	32	U
74-87-3	Chloromethane	32	U
75-01-4	Vinyl Chloride	32	U
74-83-9	Bromomethane	32	U
75-00-3	Chloroethane	32	U
75-69-4	Trichlorofluoromethane	32	U
75-35-4	1,1-Dichloroethene	32	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	32	U
67-64-1	Acetone	350	B
75-15-0	Carbon Disulfide	12	J
79-20-9	Methyl Acetate	32	U
75-09-2	Methylene Chloride	22	JB
156-60-5	trans-1,2-Dichloroethene	32	U
1634-04-4	Methyl tert-Butyl Ether	32	U
75-34-3	1,1-Dichloroethane	32	U
156-59-2	cis-1,2-Dichloroethene	32	U
78-93-3	2-Butanone	90	
67-66-3	Chloroform	32	U
71-55-6	1,1,1-Trichloroethane	32	U
110-82-7	Cyclohexane	32	U
56-23-5	Carbon Tetrachloride	32	U
71-43-2	Benzene	11	J
107-06-2	1,2-Dichloroethane	32	U

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1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2BT4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008

Sample wt/Vol: 4.1 (g/mL) G Lab File ID: A3050

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 61 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	32	U
108-87-2	Methylcyclohexane	32	U
78-87-5	1,2-Dichloropropane	32	U
75-27-4	Bromodichloromethane	32	U
10061-01-5	cis-1,3-Dichloropropene	32	U
108-10-1	4-Methyl-2-pentanone	32	U
108-88-3	Toluene	9	J
10061-02-6	trans-1,3-Dichloropropene	32	U
79-00-5	1,1,2-Trichloroethane	32	U
127-18-4	Tetrachloroethene	32	U
591-78-6	2-Hexanone	32	U
124-48-1	Dibromochloromethane	32	U
106-93-4	1,2-Dibromoethane	32	U
108-90-7	Chlorobenzene	32	U
100-41-4	Ethylbenzene	32	U
1330-20-7	Xylene (total)	32	U
100-42-5	Styrene	32	U
75-25-2	Bromoform	32	U
98-82-8	Isopropylbenzene	7	J
79-34-5	1,1,2,2-Tetrachloroethane	32	U
541-73-1	1,3-Dichlorobenzene	32	U
106-46-7	1,4-Dichlorobenzene	32	U
95-50-1	1,2-Dichlorobenzene	32	U
96-12-8	1,2-Dibromo-3-chloropropane	32	U
120-82-1	1,2,4-Trichlorobenzene	32	U

OLM04.3

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2BT4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008

Sample wt/Vol: 4.1 (g/mL) G Lab File ID: A3050

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 61 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 13

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	12.92	130	J
2.	UNKNOWN	13.22	78	J
3.	UNKNOWN	13.49	310	J
4.	UNKNOWN	13.67	89	J
5.	UNKNOWN	14.71	110	J
6. 000493-02-7	Naphthalene, decahydro-, tra	15.29	320	JN
7.	UNKNOWN	15.71	130	J
8.	UNKNOWN	16.03	170	J
9.	UNKNOWN	16.30	390	J
10.	UNKNOWN	16.43	120	J
11. 002958-76-1	Naphthalene, decahydro-2-met	16.55	320	JN
12. 1000152-47-3	trans-Decalin, 2-methyl-	16.94	260	JN
13.	UNKNOWN	19.00	78	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT4RE

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008RE

Sample wt/Vol: 2.7 (g/mL) G Lab File ID: A3068

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 61 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	47	U
74-87-3	Chloromethane	47	U
75-01-4	Vinyl Chloride	47	U
74-83-9	Bromomethane	47	U
75-00-3	Chloroethane	47	U
75-69-4	Trichlorofluoromethane	47	U
75-35-4	1,1-Dichloroethene	47	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	47	U
67-64-1	Acetone	740	B
75-15-0	Carbon Disulfide	21	J
79-20-9	Methyl Acetate	20	J
75-09-2	Methylene Chloride	56	B
156-60-5	trans-1,2-Dichloroethene	47	U
1634-04-4	Methyl tert-Butyl Ether	47	U
75-34-3	1,1-Dichloroethane	47	U
156-59-2	cis-1,2-Dichloroethene	47	U
78-93-3	2-Butanone	200	
67-66-3	Chloroform	47	U
71-55-6	1,1,1-Trichloroethane	47	U
110-82-7	Cyclohexane	47	U
56-23-5	Carbon Tetrachloride	47	U
71-43-2	Benzene	25	J
107-06-2	1,2-Dichloroethane	47	U

00000157

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT4RE

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008RE

Sample wt/Vol: 2.7 (g/mL) G Lab File ID: A3068

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 61 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	47	U
108-87-2	Methylcyclohexane	47	U
78-87-5	1,2-Dichloropropane	47	U
75-27-4	Bromodichloromethane	47	U
10061-01-5	cis-1,3-Dichloropropene	47	U
108-10-1	4-Methyl-2-pentanone	47	U
108-88-3	Toluene	22	J
10061-02-6	trans-1,3-Dichloropropene	47	U
79-00-5	1,1,2-Trichloroethane	47	U
127-18-4	Tetrachloroethene	47	U
591-78-6	2-Hexanone	47	U
124-48-1	Dibromochloromethane	47	U
106-93-4	1,2-Dibromoethane	47	U
108-90-7	Chlorobenzene	47	U
100-41-4	Ethylbenzene	10	J
1330-20-7	Xylene (total)	20	J
100-42-5	Styrene	47	U
75-25-2	Bromoform	47	U
98-82-8	Isopropylbenzene	20	J
79-34-5	1,1,2,2-Tetrachloroethane	47	U
541-73-1	1,3-Dichlorobenzene	47	U
106-46-7	1,4-Dichlorobenzene	47	U
95-50-1	1,2-Dichlorobenzene	47	U
96-12-8	1,2-Dibromo-3-chloropropane	47	U
120-82-1	1,2,4-Trichlorobenzene	47	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT4RE

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008RE

Sample wt/Vol: 2.7 (g/mL) G Lab File ID: A3068

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 61 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	1.74	170	J
2.	UNKNOWN	11.53	240	J
3.	UNKNOWN	13.68	170	J
4.	UNKNOWN	14.38	340	J
5.	UNKNOWN	14.59	950	J
6.	UNKNOWN	15.04	1200	J
7. 000493-02-7	Naphthalene, decahydro-, tra	15.31	570	JN
8.	UNKNOWN	15.71	220	J
9.	UNKNOWN	15.93	330	J
10.	UNKNOWN	16.43	200	J
11. 1000152-47-3	trans-Decalin, 2-methyl-	16.56	500	JN
12. 002958-76-1	Naphthalene, decahydro-2-met	16.95	430	JN
13.				
14.				
15.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009

Sample wt/Vol: 5.5 (g/mL) G Lab File ID: A3051

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 65 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	26	U
74-87-3	Chloromethane	26	U
75-01-4	Vinyl Chloride	26	U
74-83-9	Bromomethane	26	U
75-00-3	Chloroethane	26	U
75-69-4	Trichlorofluoromethane	26	U
75-35-4	1,1-Dichloroethene	26	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U
67-64-1	Acetone	230	B
75-15-0	Carbon Disulfide	8	J
79-20-9	Methyl Acetate	26	U
75-09-2	Methylene Chloride	16	JB
156-60-5	trans-1,2-Dichloroethene	26	U
1634-04-4	Methyl tert-Butyl Ether	26	U
75-34-3	1,1-Dichloroethane	26	U
156-59-2	cis-1,2-Dichloroethene	26	U
78-93-3	2-Butanone	62	
67-66-3	Chloroform	26	U
71-55-6	1,1,1-Trichloroethane	26	U
110-82-7	Cyclohexane	26	U
56-23-5	Carbon Tetrachloride	26	U
71-43-2	Benzene	11	J
107-06-2	1,2-Dichloroethane	26	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009

Sample wt/Vol: 5.5 (g/mL) G Lab File ID: A3051

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 65 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	26	U
108-87-2	Methylcyclohexane	26	U
78-87-5	1,2-Dichloropropane	26	U
75-27-4	Bromodichloromethane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
108-10-1	4-Methyl-2-pentanone	13	J
108-88-3	Toluene	26	U
10061-02-6	trans-1,3-Dichloropropene	26	U
79-00-5	1,1,2-Trichloroethane	26	U
127-18-4	Tetrachloroethene	26	U
591-78-6	2-Hexanone	26	U
124-48-1	Dibromochloromethane	26	U
106-93-4	1,2-Dibromoethane	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
1330-20-7	Xylene (total)	26	U
100-42-5	Styrene	26	U
75-25-2	Bromoform	26	U
98-82-8	Isopropylbenzene	26	U
79-34-5	1,1,2,2-Tetrachloroethane	26	U
541-73-1	1,3-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
95-50-1	1,2-Dichlorobenzene	26	U
96-12-8	1,2-Dibromo-3-chloropropane	26	U
120-82-1	1,2,4-Trichlorobenzene	26	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009

Sample wt/Vol: 5.5 (g/mL) G Lab File ID: A3051

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 65 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.00	33	J
2. 000109-99-9	Furan, tetrahydro-	5.67	66	JN
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.0010

Sample wt/Vol: 4.6 (g/mL) G Lab File ID: A3052

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 58 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	26	U
74-87-3	Chloromethane	26	U
75-01-4	Vinyl Chloride	26	U
74-83-9	Bromomethane	26	U
75-00-3	Chloroethane	26	U
75-69-4	Trichlorofluoromethane	26	U
75-35-4	1,1-Dichloroethene	26	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U
67-64-1	Acetone	410	B
75-15-0	Carbon Disulfide	26	U
79-20-9	Methyl Acetate	26	U
75-09-2	Methylene Chloride	18	JB
156-60-5	trans-1,2-Dichloroethene	26	U
1634-04-4	Methyl tert-Butyl Ether	26	U
75-34-3	1,1-Dichloroethane	26	U
156-59-2	cis-1,2-Dichloroethene	26	U
78-93-3	2-Butanone	110	
67-66-3	Chloroform	26	U
71-55-6	1,1,1-Trichloroethane	26	U
110-82-7	Cyclohexane	26	U
56-23-5	Carbon Tetrachloride	26	U
71-43-2	Benzene	26	U
107-06-2	1,2-Dichloroethane	26	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.0010

Sample wt/Vol: 4.6 (g/mL) G Lab File ID: A3052

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 58 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	26	U
108-87-2	Methylcyclohexane	26	U
78-87-5	1,2-Dichloropropane	26	U
75-27-4	Bromodichloromethane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
108-10-1	4-Methyl-2-pentanone	26	U
108-88-3	Toluene	26	U
10061-02-6	trans-1,3-Dichloropropene	26	U
79-00-5	1,1,2-Trichloroethane	26	U
127-18-4	Tetrachloroethene	26	U
591-78-6	2-Hexanone	26	U
124-48-1	Dibromochloromethane	26	U
106-93-4	1,2-Dibromoethane	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
1330-20-7	Xylene (total)	26	U
100-42-5	Styrene	26	U
75-25-2	Bromoform	26	U
98-82-8	Isopropylbenzene	26	U
79-34-5	1,1,2,2-Tetrachloroethane	26	U
541-73-1	1,3-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
95-50-1	1,2-Dichlorobenzene	26	U
96-12-8	1,2-Dibromo-3-chloropropane	26	U
120-82-1	1,2,4-Trichlorobenzene	26	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.0010

Sample wt/Vol: 4.6 (g/mL) G Lab File ID: A3052

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 58 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000109-99-9	Furan, tetrahydro-	5.66	69	JN
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.0011

Sample wt/Vol: 4.1 (g/mL) G Lab File ID: A3053

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 28 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	17	U
74-87-3	Chloromethane	3	J
75-01-4	Vinyl Chloride	17	U
74-83-9	Bromomethane	17	U
75-00-3	Chloroethane	17	U
75-69-4	Trichlorofluoromethane	17	U
75-35-4	1,1-Dichloroethene	17	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17	U
67-64-1	Acetone	170	B
75-15-0	Carbon Disulfide	17	U
79-20-9	Methyl Acetate	17	U
75-09-2	Methylene Chloride	11	JB
156-60-5	trans-1,2-Dichloroethene	17	U
1634-04-4	Methyl tert-Butyl Ether	17	U
75-34-3	1,1-Dichloroethane	17	U
156-59-2	cis-1,2-Dichloroethene	17	U
78-93-3	2-Butanone	38	
67-66-3	Chloroform	17	U
71-55-6	1,1,1-Trichloroethane	17	U
110-82-7	Cyclohexane	17	U
56-23-5	Carbon Tetrachloride	17	U
71-43-2	Benzene	4	J
107-06-2	1,2-Dichloroethane	17	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.0011

Sample wt/Vol: 4.1 (g/mL) G Lab File ID: A3053

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 28 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	17	U
108-87-2	Methylcyclohexane	17	U
78-87-5	1,2-Dichloropropane	17	U
75-27-4	Bromodichloromethane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
108-10-1	4-Methyl-2-pentanone	17	U
108-88-3	Toluene	7	J
10061-02-6	trans-1,3-Dichloropropene	17	U
79-00-5	1,1,2-Trichloroethane	17	U
127-18-4	Tetrachloroethene	17	U
591-78-6	2-Hexanone	17	U
124-48-1	Dibromochloromethane	17	U
106-93-4	1,2-Dibromoethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
1330-20-7	Xylene (total)	17	U
100-42-5	Styrene	17	U
75-25-2	Bromoform	17	U
98-82-8	Isopropylbenzene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
541-73-1	1,3-Dichlorobenzene	17	U
106-46-7	1,4-Dichlorobenzene	17	U
95-50-1	1,2-Dichlorobenzene	17	U
96-12-8	1,2-Dibromo-3-chloropropane	17	U
120-82-1	1,2,4-Trichlorobenzene	17	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.0011

Sample wt/Vol: 4.1 (g/mL) G Lab File ID: A3053

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 28 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK75

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: AVBLK75

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3042

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	3	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK75

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: AVBLK75

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3042

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK75

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: AVBLK75

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3042

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 04/27/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK77

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: AVBLK77

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3063

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	8	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK77

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: AVBLK77

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3063

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

SLM04.3 0199

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK77

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: AVBLK77

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3063

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.001

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3071

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 0 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	13	B
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	8	JB
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BW1		E2BW2		E2BW3		E2BW4		E2BW5	
Sampling Location :	GW10		GW2-17-19		GW2-10-12		GW3 (10-12)		GW4 (13-15)	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/20/2005		4/21/2005		4/21/2005		4/21/2005		4/21/2005	
Time Sampled :	07:00		11:23		09:55		10:00		02:17	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		2.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	1.0	U	0.50	U	0.50	U	1.2	
Chloromethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Vinyl Chloride	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	10	U	4.8	J	6.1		6.5	
Carbon Disulfide	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Methyl Acetate	0.50	UJ	1.0	UJ	0.50	UJ	0.50	UJ	0.50	UJ
Methylene Chloride	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	1.0	U	0.50	U	0.50	UJ	0.50	UJ
Methyl tert-Butyl Ether	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	2.2		0.26	J	0.50	U	6.6	
cis-1,2-Dichloroethene	0.50	U	1.0	U	0.50	U	0.50	UJ	0.30	J
2-Butanone	5.0	U	10	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Carbon Tetrachloride	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.45	J	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Trichloroethene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	10	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BW1		E2BW2		E2BW3		E2BW4		E2BW5	
Sampling Location :	GW10		GW2-17-19		GW2-10-12		GW3 (10-12)		GW4 (13-15)	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/20/2005		4/21/2005		4/21/2005		4/21/2005		4/21/2005	
Time Sampled :	07:00		11:23		09:55		10:00		02:17	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		2.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	10	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Xylenes (total)	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	1.0	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BW6		VBLK01		VHBLK01					
Sampling Location :	GW4 (7-9)									
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :	4/21/2005									
Time Sampled :	01:45									
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U				
Chloromethane	0.50	U	0.50	U	0.50	U				
Vinyl Chloride	0.50	U	0.50	U	0.50	U				
Bromomethane	0.50	U	0.50	U	0.50	U				
Chloroethane	0.50	U	0.50	U	0.50	U				
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U				
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U				
Acetone	5.0	U	5.0	U	5.0	U				
Carbon Disulfide	0.50	U	0.50	U	0.50	U				
Methyl Acetate	0.50	UJ	0.50	UJ	0.50	UJ				
Methylene Chloride	0.50	U	0.50	U	0.50	U				
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U				
Methyl tert-Butyl Ether	0.50	U	0.50	U	0.50	U				
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U				
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U				
2-Butanone	5.0	U	5.0	U	5.0	U				
Bromochloromethane	0.50	U	0.50	U	0.50	U				
Chloroform	0.50	U	0.50	U	0.50	U				
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U				
Cyclohexane	0.50	U	0.50	U	0.50	U				
Carbon Tetrachloride	0.50	U	0.50	U	0.50	U				
Benzene	0.50	U	0.50	U	0.50	U				
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U				
Trichloroethene	0.50	U	0.50	U	0.50	U				
Methylcyclohexane	0.50	U	0.50	U	0.50	U				
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U				
Bromodichloromethane	0.50	U	0.50	U	0.50	U				
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U				
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U				
Toluene	0.50	U	0.50	U	0.50	U				
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U				
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U				

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BW6		VBLK01		VHBLK01					
Sampling Location :	GW4 (7-9)									
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :	4/21/2005									
Time Sampled :	01:45									
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U				
Chloromethane	0.50	U	0.50	U	0.50	U				
Vinyl Chloride	0.50	U	0.50	U	0.50	U				
Bromomethane	0.50	U	0.50	U	0.50	U				
Chloroethane	0.50	U	0.50	U	0.50	U				
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U				
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U				
Acetone	5.0	U	5.0	U	5.0	U				
Carbon Disulfide	0.50	U	0.50	U	0.50	U				
Methyl Acetate	0.50	UJ	0.50	UJ	0.50	UJ				
Methylene Chloride	0.50	U	0.50	U	0.50	U				
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U				
Methyl tert-Butyl Ether	0.50	U	0.50	U	0.50	U				
-Dichloroethane	0.50	U	0.50	U	0.50	U				
s-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U				
2-Butanone	5.0	U	5.0	U	5.0	U				
Bromochloromethane	0.50	U	0.50	U	0.50	U				
Chloroform	0.50	U	0.50	U	0.50	U				
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U				
Cyclohexane	0.50	U	0.50	U	0.50	U				
Carbon Tetrachloride	0.50	U	0.50	U	0.50	U				
Benzene	0.50	U	0.50	U	0.50	U				
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U				
Trichloroethene	0.50	U	0.50	U	0.50	U				
Methylcyclohexane	0.50	U	0.50	U	0.50	U				
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U				
Bromodichloromethane	0.50	U	0.50	U	0.50	U				
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U				
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U				
Toluene	0.50	U	0.50	U	0.50	U				
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U				
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U				

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BW6		VBLK01		VHBLK01					
Sampling Location :	GW4 (7-9)									
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :	4/21/2005									
Time Sampled :	01:45									
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	0.50	U	0.50	U				
2-Hexanone	5.0	U	5.0	U	5.0	U				
Dibromochloromethane	0.50	U	0.50	U	0.50	U				
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U				
Chlorobenzene	0.50	U	0.50	U	0.50	U				
Ethylbenzene	0.50	U	0.50	U	0.50	U				
Xylenes (total)	0.50	U	0.50	U	0.50	U				
Styrene	0.50	U	0.50	U	0.50	U				
Bromoform	0.50	U	0.50	U	0.50	U				
Isopropylbenzene	0.50	U	0.50	U	0.50	U				
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U				
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U				
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U				
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U				
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U				
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U				
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U				

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.001

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3071

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 0 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.001

Sample wt/Vol: 5.0 (g/mL) G Lab File ID: A3071

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: not dec. 0 Date Analyzed: 04/28/05

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS NO.: SDG No.: E2BS8

Level(low/med): LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	E2BS8	36	46	58	38	37	46	38	38	0
02	E2BS9	52	59	72	55	53	64	54	54	0
03	E2BS9MS	28	32	44	32	28	39	30	27	0
04	E2BS9MSD	41	43	51	41	40	49	41	41	0
05	E2BT0	39	45	61	41	37	43	40	40	0
06	E2BT1	34	40	51	33	31	43	33	34	0
07	E2BT2	29	37	52	31	27	48	30	31	0
08	E2BT3	42	48	54	41	40	50	41	44	0
09	E2BT4	24	29 *	44	25	23 *	40	24	25	2
10	E2BT5	38	44	64	34	26	48	35	38	0
11	E2BT5DL	0 D	42	64	29	0 D	38	29	0 D	0
12	E2BT6	41	45	51	40	42	49	42	41	0
13	E2BT9	49	54	70	49	43	51	47	50	0
14	SBLK3P	47	50	96	53	55	65	52	45	0
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			QC LIMITS
S1	(NBZ)	= Nitrobenzene-d5	(23-120)
S2	(FBP)	= 2-Fluorobiphenyl	(30-115)
S3	(TPH)	= TerPhenyl-d14	(18-137)
S4	(PHL)	= Phenol-d5	(24-113)
S5	(2FP)	= 2-Fluorophenol	(25-121)
S6	(TBP)	= 2,4,6-Tribromophenol	(19-122)
S7	(2CP)	= 2-Chlorophenol-d4	(20-130) (advisory)
S8	(DCB)	= 1,2-Dichlorobenzene-d4	(20-130) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix Spike - EPA Sample No.: E2BS9 Level:(Low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3500	0	1200	34	26-90
2-Chlorophenol	3500	0	1100	31	25-102
N-Nitroso-di-n-prop.(1)	2300	0	790	34 *	41-126
4-Chloro-3-methylphenol	3500	0	1500	43	26-103
Acenaphthene	2300	0	850	37	31-137
4-Nitrophenol	3500	0	1200	34	11-114
2,4-Dinitrotoluene	2300	0	790	34	28-89
Pentachlorophenol	3500	0	1800	51	17-109
Pyrene	2300	0	690	30 *	35-142

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3500	1700	49	36 *	35	26-90
2-Chlorophenol	3500	1600	46	39	50	25-102
N-Nitroso-di-n-prop.(1)	2300	1000	43	23	38	41-126
4-Chloro-3-methylphenol	3500	1800	51	17	33	26-103
Acenaphthene	2300	1000	43	15	19	31-137
4-Nitrophenol	3500	1900	54	45	50	11-114
2,4-Dinitrotoluene	2300	1000	43	23	47	28-89
Pentachlorophenol	3500	2200	63	21	47	17-109
Pyrene	2300	800	35	15	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits

RPD: 1 out of 9 outside limits

Spike Recovery: 2 out of 18 outside limits

COMMENTS: _____

_____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK3P

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Lab File ID: G5087 Lab Sample ID: SVOB3P

Instrument ID: G-5973 Date Extracted: 04/26/05

Matrix: (soil/water) SOIL Date Analyzed: 05/12/05

Level: (low/med) LOW Time Analyzed: 1834

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E2BS8	6056.002	G5088	05/12/05
02	E2BS9	6056.003	G5089	05/12/05
03	E2BS9MS	6056.003MS	G5090	05/12/05
04	E2BS9MSD	6056.003MSD	G5091	05/12/05
05	E2BT0	6056.004	G5095	05/12/05
06	E2BT1	6056.005	G5092	05/12/05
07	E2BT2	6056.006	G5104	05/13/05
08	E2BT3	6056.007	G5102	05/13/05
09	E2BT4	6056.008	G5097	05/12/05
10	E2BT5	6056.009	G5106	05/13/05
11	E2BT5DL	6056.009DL	G5105	05/13/05
12	E2BT6	6056.010	G5094	05/12/05
13	E2BT9	6056.011	G5103	05/13/05
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COMMENTS: _____

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.002

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5088

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 56 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	750	U
108-95-2	Phenol	750	U
111-44-4	bis(2-Chloroethyl)ether	750	U
95-57-8	2-Chlorophenol	750	U
95-48-7	2-Methylphenol	750	U
108-60-1	2,2'-oxybis(1-Chloropropane)	750	U
98-86-2	Acetophenone	750	U
106-44-5	4-Methylphenol	750	U
621-64-7	N-Nitroso-di-n-propylamine	750	U
67-72-1	Hexachloroethane	750	U
98-95-3	Nitrobenzene	750	U
78-59-1	Isophorone	750	U
88-75-5	2-Nitrophenol	750	U
105-67-9	2,4-Dimethylphenol	750	U
111-91-1	bis(2-Chloroethoxy)methane	750	U
120-83-2	2,4-Dichlorophenol	750	U
91-20-3	Naphthalene	750	U
106-47-8	4-Chloroaniline	750	U
87-68-3	Hexachlorobutadiene	750	U
105-60-2	Caprolactam	750	U
59-50-7	4-Chloro-3-methylphenol	750	U
91-57-6	2-Methylnaphthalene	750	U
77-47-4	Hexachlorocyclopentadiene	750	U
88-06-2	2,4,6-Trichlorophenol	750	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	750	U
91-58-7	2-Chloronaphthalene	750	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	750	U
606-20-2	2,6-Dinitrotoluene	750	U
208-96-8	Acenaphthylene	750	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	750	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.002

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5088

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 56 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	750	U
121-14-2	2,4-Dinitrotoluene	750	U
84-66-2	Diethylphthalate	750	U
86-73-7	Fluorene	750	U
7005-72-3	4-Chlorophenyl-phenylether	750	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	750	U
101-55-3	4-Bromophenyl-phenylether	750	U
118-74-1	Hexachlorobenzene	750	U
1912-24-9	Atrazine	750	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	750	U
120-12-7	Anthracene	750	U
86-74-8	Carbazole	750	U
84-74-2	Di-n-butylphthalate	750	U
206-44-0	Fluoranthene	750	U
129-00-0	Pyrene	78	J
85-68-7	Butylbenzylphthalate	750	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)anthracene	750	U
218-01-9	Chrysene	87	J
117-81-7	bis(2-Ethylhexyl)phthalate	750	U
117-84-0	Di-n-octylphthalate	750	U
205-99-2	Benzo(b)fluoranthene	100	J
207-08-9	Benzo(k)fluoranthene	750	U
50-32-8	Benzo(a)pyrene	750	U
193-39-5	Indeno(1,2,3-cd)pyrene	750	U
53-70-3	Dibenzo(a,h)anthracene	750	U
191-24-2	Benzo(g,h,i)perylene	750	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E2BS8

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.002

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5088

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 56 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Extraction: (Type) SONC

Number TICS found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5089

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 29 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5089

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 29 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	460	U
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	bis(2-Ethylhexyl)phthalate	460	U
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BS9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5089

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 29 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

Number TICS found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.90	110	J
2.	UNKNOWN	16.72	150	J
3.	UNKNOWN	16.74	120	J
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5090

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 29 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	1200	
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	1100	
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	790	
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	1500	
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	850	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5090

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 29 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	790	
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1800	
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	690	
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	bis(2-Ethylhexyl)phthalate	460	U
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MSD

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5091

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 29 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	1700	
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	1600	
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	1000	
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	1800	
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	1000	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MSD

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5091

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 29 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1900	
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	1000	
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	2200	
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	800	
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	bis(2-Ethylhexyl)phthalate	460	U
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT0

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.004

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5095

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 54 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	720	U
108-95-2	Phenol	720	U
111-44-4	bis(2-Chloroethyl)ether	720	U
95-57-8	2-Chlorophenol	720	U
95-48-7	2-Methylphenol	720	U
108-60-1	2,2'-oxybis(1-Chloropropane)	720	U
98-86-2	Acetophenone	720	U
106-44-5	4-Methylphenol	720	U
621-64-7	N-Nitroso-di-n-propylamine	720	U
67-72-1	Hexachloroethane	720	U
98-95-3	Nitrobenzene	720	U
78-59-1	Isophorone	720	U
88-75-5	2-Nitrophenol	720	U
105-67-9	2,4-Dimethylphenol	720	U
111-91-1	bis(2-Chloroethoxy)methane	720	U
120-83-2	2,4-Dichlorophenol	720	U
91-20-3	Naphthalene	720	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	720	U
105-60-2	Caprolactam	720	U
59-50-7	4-Chloro-3-methylphenol	720	U
91-57-6	2-Methylnaphthalene	720	U
77-47-4	Hexachlorocyclopentadiene	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
95-95-4	2,4,5-Trichlorophenol	1800	U
92-52-4	1,1'-Biphenyl	720	U
91-58-7	2-Chloronaphthalene	720	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	720	U
606-20-2	2,6-Dinitrotoluene	720	U
208-96-8	Acenaphthylene	720	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	720	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT0

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.004

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5095

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 54 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	720	U
121-14-2	2,4-Dinitrotoluene	720	U
84-66-2	Diethylphthalate	720	U
86-73-7	Fluorene	720	U
7005-72-3	4-Chlorophenyl-phenylether	720	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	720	U
101-55-3	4-Bromophenyl-phenylether	720	U
118-74-1	Hexachlorobenzene	720	U
1912-24-9	Atrazine	720	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	100	J
120-12-7	Anthracene	720	U
86-74-8	Carbazole	720	U
84-74-2	Di-n-butylphthalate	720	U
206-44-0	Fluoranthene	77	J
129-00-0	Pyrene	720	U
85-68-7	Butylbenzylphthalate	720	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	720	U
218-01-9	Chrysene	720	U
117-81-7	bis(2-Ethylhexyl)phthalate	220	J
117-84-0	Di-n-octylphthalate	720	U
205-99-2	Benzo(b)fluoranthene	720	U
207-08-9	Benzo(k)fluoranthene	720	U
50-32-8	Benzo(a)pyrene	720	U
193-39-5	Indeno(1,2,3-cd)pyrene	720	U
53-70-3	Dibenzo(a,h)anthracene	720	U
191-24-2	Benzo(g,h,i)perylene	720	U

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT0

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.004

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5095

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 54 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Extraction: (Type) SONC

Number TICS found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 107997-59-1	1-(3-Methylbutyl)-2,3,4-trim	7.53	280	JN
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.005

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5092

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 24 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	440	U
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.005

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5092

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 24 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.005

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5092

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 24 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

Number TICS found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.90	94	J
2.	UNKNOWN	16.73	110	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.006

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5104

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 54 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	720	U
108-95-2	Phenol	720	U
111-44-4	bis(2-Chloroethyl)ether	720	U
95-57-8	2-Chlorophenol	720	U
95-48-7	2-Methylphenol	720	U
108-60-1	2,2'-oxybis(1-Chloropropane)	720	U
98-86-2	Acetophenone	720	U
106-44-5	4-Methylphenol	720	U
621-64-7	N-Nitroso-di-n-propylamine	720	U
67-72-1	Hexachloroethane	720	U
98-95-3	Nitrobenzene	720	U
78-59-1	Isophorone	720	U
88-75-5	2-Nitrophenol	720	U
105-67-9	2,4-Dimethylphenol	720	U
111-91-1	bis(2-Chloroethoxy)methane	720	U
120-83-2	2,4-Dichlorophenol	720	U
91-20-3	Naphthalene	720	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	720	U
105-60-2	Caprolactam	720	U
59-50-7	4-Chloro-3-methylphenol	720	U
91-57-6	2-Methylnaphthalene	720	U
77-47-4	Hexachlorocyclopentadiene	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
95-95-4	2,4,5-Trichlorophenol	1800	U
92-52-4	1,1'-Biphenyl	720	U
91-58-7	2-Chloronaphthalene	720	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	720	U
606-20-2	2,6-Dinitrotoluene	720	U
208-96-8	Acenaphthylene	720	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	720	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.006

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5104

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 54 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	720	U
121-14-2	2,4-Dinitrotoluene	720	U
84-66-2	Diethylphthalate	720	U
86-73-7	Fluorene	720	U
7005-72-3	4-Chlorophenyl-phenylether	720	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	720	U
101-55-3	4-Bromophenyl-phenylether	720	U
118-74-1	Hexachlorobenzene	720	U
1912-24-9	Atrazine	720	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	720	U
86-74-8	Carbazole	720	U
84-74-2	Di-n-butylphthalate	720	U
206-44-0	Fluoranthene	270	J
129-00-0	Pyrene	270	J
85-68-7	Butylbenzylphthalate	720	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	200	J
117-81-7	bis(2-Ethylhexyl)phthalate	720	U
117-84-0	Di-n-octylphthalate	720	U
205-99-2	Benzo(b)fluoranthene	200	J
207-08-9	Benzo(k)fluoranthene	720	U
50-32-8	Benzo(a)pyrene	160	J
193-39-5	Indeno(1,2,3-cd)pyrene	240	J
53-70-3	Dibenzo(a,h)anthracene	720	U
191-24-2	Benzo(g,h,i)perylene	230	J

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.006

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5104

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 54 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Extraction: (Type) SONC

Number TICS found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.59	200	J
2.	000083-46-5	.beta.-Sitosterol	17.35	380	JN
3.	000083-46-5	.beta.-Sitosterol	17.36	2300	JN
4.	000083-47-6	.gamma.-Sitosterol	17.36	2000	JN
5.	000083-46-5	.beta.-Sitosterol	17.37	1300	JN
6.	055103-80-5	Pregn-5-en-3-ol, 21-bromo-20	17.37	430	JN
7.	000083-47-6	.gamma.-Sitosterol	17.38	2000	JN
8.	055103-80-5	Pregn-5-en-3-ol, 21-bromo-20	17.38	2100	JN
9.		UNKNOWN	17.39	580	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.007

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5102

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 74 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1 Extraction: (Type) SONC

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	1300	U
88-06-2	2,4,6-Trichlorophenol	1300	U
95-95-4	2,4,5-Trichlorophenol	3200	U
92-52-4	1,1'-Biphenyl	1300	U
91-58-7	2-Chloronaphthalene	1300	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethylphthalate	1300	U
606-20-2	2,6-Dinitrotoluene	1300	U
208-96-8	Acenaphthylene	1300	U
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	1300	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.007

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5102

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 74 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	1300	U
121-14-2	2,4-Dinitrotoluene	1300	U
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	3200	U
534-52-1	4,6-Dinitro-2-methylphenol	3200	U
86-30-6	N-Nitrosodiphenylamine (1)	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	3200	U
85-01-8	Phenanthrene	1300	U
120-12-7	Anthracene	1300	U
86-74-8	Carbazole	1300	U
84-74-2	Di-n-butylphthalate	1300	U
206-44-0	Fluoranthene	270	J
129-00-0	Pyrene	240	J
85-68-7	Butylbenzylphthalate	1300	U
91-94-1	3,3'-Dichlorobenzidine	1300	U
56-55-3	Benzo(a)anthracene	150	J
218-01-9	Chrysene	190	J
117-81-7	bis(2-Ethylhexyl)phthalate	1300	U
117-84-0	Di-n-octylphthalate	1300	U
205-99-2	Benzo(b)fluoranthene	250	J
207-08-9	Benzo(k)fluoranthene	190	J
50-32-8	Benzo(a)pyrene	210	J
193-39-5	Indeno(1,2,3-cd)pyrene	210	J
53-70-3	Dibenzo(a,h)anthracene	1300	U
191-24-2	Benzo(g,h,i)perylene	190	J

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.007

Sample wt/vol: 29.9 (g/mL) G Lab File ID: G5102

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 74 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1 Extraction: (Type) SONC

Number TICS found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000098-54-4	Phenol, p-tert-butyl-	6.35	590	JN
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5097

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 61 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	840	U
108-95-2	Phenol	840	U
111-44-4	bis(2-Chloroethyl)ether	840	U
95-57-8	2-Chlorophenol	840	U
95-48-7	2-Methylphenol	840	U
108-60-1	2,2'-oxybis(1-Chloropropane)	840	U
98-86-2	Acetophenone	840	U
106-44-5	4-Methylphenol	840	U
621-64-7	N-Nitroso-di-n-propylamine	840	U
67-72-1	Hexachloroethane	840	U
98-95-3	Nitrobenzene	840	U
78-59-1	Isophorone	840	U
88-75-5	2-Nitrophenol	840	U
105-67-9	2,4-Dimethylphenol	840	U
111-91-1	bis(2-Chloroethoxy)methane	840	U
120-83-2	2,4-Dichlorophenol	840	U
91-20-3	Naphthalene	840	U
106-47-8	4-Chloroaniline	840	U
87-68-3	Hexachlorobutadiene	840	U
105-60-2	Caprolactam	840	U
59-50-7	4-Chloro-3-methylphenol	840	U
91-57-6	2-Methylnaphthalene	840	U
77-47-4	Hexachlorocyclopentadiene	840	U
88-06-2	2,4,6-Trichlorophenol	840	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	840	U
91-58-7	2-Chloronaphthalene	840	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	840	U
606-20-2	2,6-Dinitrotoluene	840	U
208-96-8	Acenaphthylene	840	U
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	840	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5097

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 61 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	840	U
121-14-2	2,4-Dinitrotoluene	840	U
84-66-2	Diethylphthalate	840	U
86-73-7	Fluorene	840	U
7005-72-3	4-Chlorophenyl-phenylether	840	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	840	U
101-55-3	4-Bromophenyl-phenylether	840	U
118-74-1	Hexachlorobenzene	840	U
1912-24-9	Atrazine	840	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	840	U
86-74-8	Carbazole	840	U
84-74-2	Di-n-butylphthalate	840	U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	240	J
85-68-7	Butylbenzylphthalate	840	U
91-94-1	3,3'-Dichlorobenzidine	840	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	200	J
117-81-7	bis(2-Ethylhexyl)phthalate	840	U
117-84-0	Di-n-octylphthalate	840	U
205-99-2	Benzo(b)fluoranthene	200	J
207-08-9	Benzo(k)fluoranthene	840	U
50-32-8	Benzo(a)pyrene	150	J
193-39-5	Indeno(1,2,3-cd)pyrene	310	J
53-70-3	Dibenzo(a,h)anthracene	840	U
191-24-2	Benzo(g,h,i)perylene	220	J

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5097

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 61 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Extraction: (Type) SONC

Number TICS found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5106

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 65 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	940	U
108-95-2	Phenol	940	U
111-44-4	bis(2-Chloroethyl)ether	940	U
95-57-8	2-Chlorophenol	940	U
95-48-7	2-Methylphenol	940	U
108-60-1	2,2'-oxybis(1-Chloropropane)	940	U
98-86-2	Acetophenone	940	U
106-44-5	4-Methylphenol	940	U
621-64-7	N-Nitroso-di-n-propylamine	940	U
67-72-1	Hexachloroethane	940	U
98-95-3	Nitrobenzene	940	U
78-59-1	Isophorone	940	U
88-75-5	2-Nitrophenol	940	U
105-67-9	2,4-Dimethylphenol	940	U
111-91-1	bis(2-Chloroethoxy)methane	940	U
120-83-2	2,4-Dichlorophenol	940	U
91-20-3	Naphthalene	400	J
106-47-8	4-Chloroaniline	940	U
87-68-3	Hexachlorobutadiene	940	U
105-60-2	Caprolactam	940	U
59-50-7	4-Chloro-3-methylphenol	940	U
91-57-6	2-Methylnaphthalene	230	J
77-47-4	Hexachlorocyclopentadiene	940	U
88-06-2	2,4,6-Trichlorophenol	940	U
95-95-4	2,4,5-Trichlorophenol	2400	U
92-52-4	1,1'-Biphenyl	150	J
91-58-7	2-Chloronaphthalene	940	U
88-74-4	2-Nitroaniline	2400	U
131-11-3	Dimethylphthalate	940	U
606-20-2	2,6-Dinitrotoluene	940	U
208-96-8	Acenaphthylene	2200	
99-09-2	3-Nitroaniline	2400	U
83-32-9	Acenaphthene	16000	E

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5106

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 65 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2400	U
100-02-7	4-Nitrophenol	2400	U
132-64-9	Dibenzofuran	5400	
121-14-2	2,4-Dinitrotoluene	940	U
84-66-2	Diethylphthalate	940	U
86-73-7	Fluorene	11000	E
7005-72-3	4-Chlorophenyl-phenylether	940	U
100-01-6	4-Nitroaniline	2400	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
86-30-6	N-Nitrosodiphenylamine (1)	940	U
101-55-3	4-Bromophenyl-phenylether	940	U
118-74-1	Hexachlorobenzene	940	U
1912-24-9	Atrazine	940	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	3600	
120-12-7	Anthracene	5500	
86-74-8	Carbazole	940	U
84-74-2	Di-n-butylphthalate	940	U
206-44-0	Fluoranthene	24000	E
129-00-0	Pyrene	24000	E
85-68-7	Butylbenzylphthalate	940	U
91-94-1	3,3'-Dichlorobenzidine	940	U
56-55-3	Benzo(a)anthracene	12000	E
218-01-9	Chrysene	12000	E
117-81-7	bis(2-Ethylhexyl)phthalate	940	U
117-84-0	Di-n-octylphthalate	940	U
205-99-2	Benzo(b)fluoranthene	12000	E
207-08-9	Benzo(k)fluoranthene	6300	
50-32-8	Benzo(a)pyrene	9600	E
193-39-5	Indeno(1,2,3-cd)pyrene	8500	E
53-70-3	Dibenzo(a,h)anthracene	2200	
191-24-2	Benzo(g,h,i)perylene	7500	

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5106

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 65 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

Number TICS found: 27 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	005617-41-4	Heptylcyclohexane	6.71	280	JN
2.		UNKNOWN	7.10	240	J
3.		UNKNOWN	7.11	230	J
4.		UNKNOWN	7.44	590	J
5.		UNKNOWN	8.18	270	J
6.		UNKNOWN	8.19	240	J
7.	002245-38-7	Naphthalene, 1,6,7-trimethyl	8.20	190	JN
8.	002245-38-7	Naphthalene, 1,6,7-trimethyl	8.21	370	JN
9.	013540-56-2	Benzene, 1,2-dimethyl-4-(phe	8.30	510	JN
10.	001855-47-6	1-Isopropenylnaphthalene	8.43	950	JN
11.		UNKNOWN	8.46	400	J
12.		UNKNOWN	8.47	620	J
13.		UNKNOWN	8.47	680	J
14.		UNKNOWN	8.51	650	J
15.		UNKNOWN	8.53	330	J
16.	007320-53-8	Dibenzofuran, 4-methyl-	8.57	1900	JN
17.		UNKNOWN	8.77	230	J
18.		UNKNOWN	8.86	1800	J
19.	001430-97-3	9H-Fluorene, 2-methyl-	9.02	470	JN
20.	001430-97-3	9H-Fluorene, 2-methyl-	9.06	290	JN
21.		UNKNOWN	9.06	540	J
22.		UNKNOWN	9.31	390	J
23.		UNKNOWN	9.32	230	J
24.	000132-65-0	Dibenzothiophene	9.35	740	JN
25.	000203-64-5	4H-Cyclopenta[def]phenanthre	10.23	1900	JN
26.	000203-64-5	4H-Cyclopenta[def]phenanthre	10.24	350	JN
27.		UNKNOWN	10.47	1200	J
28.					
29.					
30.					

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT5DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009DL

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5105

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 65 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	19000	U
108-95-2	Phenol	19000	U
111-44-4	bis(2-Chloroethyl)ether	19000	U
95-57-8	2-Chlorophenol	19000	U
95-48-7	2-Methylphenol	19000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	19000	U
98-86-2	Acetophenone	19000	U
106-44-5	4-Methylphenol	19000	U
621-64-7	N-Nitroso-di-n-propylamine	19000	U
67-72-1	Hexachloroethane	19000	U
98-95-3	Nitrobenzene	19000	U
78-59-1	Isophorone	19000	U
88-75-5	2-Nitrophenol	19000	U
105-67-9	2,4-Dimethylphenol	19000	U
111-91-1	bis(2-Chloroethoxy)methane	19000	U
120-83-2	2,4-Dichlorophenol	19000	U
91-20-3	Naphthalene	19000	U
106-47-8	4-Chloroaniline	19000	U
87-68-3	Hexachlorobutadiene	19000	U
105-60-2	Caprolactam	19000	U
59-50-7	4-Chloro-3-methylphenol	19000	U
91-57-6	2-Methylnaphthalene	19000	U
77-47-4	Hexachlorocyclopentadiene	19000	U
88-06-2	2,4,6-Trichlorophenol	19000	U
95-95-4	2,4,5-Trichlorophenol	47000	U
92-52-4	1,1'-Biphenyl	19000	U
91-58-7	2-Chloronaphthalene	19000	U
88-74-4	2-Nitroaniline	47000	U
131-11-3	Dimethylphthalate	19000	U
606-20-2	2,6-Dinitrotoluene	19000	U
208-96-8	Acenaphthylene	19000	U
99-09-2	3-Nitroaniline	47000	U
83-32-9	Acenaphthene	19000	D

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT5DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009DL

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5105

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 65 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	47000	U
100-02-7	4-Nitrophenol	47000	U
132-64-9	Dibenzofuran	5400	JD
121-14-2	2,4-Dinitrotoluene	19000	U
84-66-2	Diethylphthalate	19000	U
86-73-7	Fluorene	11000	JD
7005-72-3	4-Chlorophenyl-phenylether	19000	U
100-01-6	4-Nitroaniline	47000	U
534-52-1	4,6-Dinitro-2-methylphenol	47000	U
86-30-6	N-Nitrosodiphenylamine (1)	19000	U
101-55-3	4-Bromophenyl-phenylether	19000	U
118-74-1	Hexachlorobenzene	19000	U
1912-24-9	Atrazine	19000	U
87-86-5	Pentachlorophenol	47000	U
85-01-8	Phenanthrene	4000	JD
120-12-7	Anthracene	6400	JD
86-74-8	Carbazole	19000	U
84-74-2	Di-n-butylphthalate	19000	U
206-44-0	Fluoranthene	35000	D
129-00-0	Pyrene	26000	D
85-68-7	Butylbenzylphthalate	19000	U
91-94-1	3,3'-Dichlorobenzidine	19000	U
56-55-3	Benzo(a)anthracene	11000	JD
218-01-9	Chrysene	12000	JD
117-81-7	bis(2-Ethylhexyl)phthalate	19000	U
117-84-0	Di-n-octylphthalate	19000	U
205-99-2	Benzo(b)fluoranthene	12000	JD
207-08-9	Benzo(k)fluoranthene	9300	JD
50-32-8	Benzo(a)pyrene	11000	JD
193-39-5	Indeno(1,2,3-cd)pyrene	9200	JD
53-70-3	Dibenzo(a,h)anthracene	19000	U
191-24-2	Benzo(g,h,i)perylene	7500	JD

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT5DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009DL

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5105

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 65 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.7 Extraction: (Type) SONC

Number TICS found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.86	4600	J
2.	000203-64-5	4H-Cyclopenta[def]phenanthre	10.22	4800	JN
3.		UNKNOWN	12.18	6000	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.010

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5094

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 58 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	780	U
108-95-2	Phenol	780	U
111-44-4	bis(2-Chloroethyl)ether	780	U
95-57-8	2-Chlorophenol	780	U
95-48-7	2-Methylphenol	780	U
108-60-1	2,2'-oxybis(1-Chloropropane)	780	U
98-86-2	Acetophenone	780	U
106-44-5	4-Methylphenol	780	U
621-64-7	N-Nitroso-di-n-propylamine	780	U
67-72-1	Hexachloroethane	780	U
98-95-3	Nitrobenzene	780	U
78-59-1	Isophorone	780	U
88-75-5	2-Nitrophenol	780	U
105-67-9	2,4-Dimethylphenol	780	U
111-91-1	bis(2-Chloroethoxy)methane	780	U
120-83-2	2,4-Dichlorophenol	780	U
91-20-3	Naphthalene	780	U
106-47-8	4-Chloroaniline	780	U
87-68-3	Hexachlorobutadiene	780	U
105-60-2	Caprolactam	780	U
59-50-7	4-Chloro-3-methylphenol	780	U
91-57-6	2-Methylnaphthalene	780	U
77-47-4	Hexachlorocyclopentadiene	780	U
88-06-2	2,4,6-Trichlorophenol	780	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	780	U
91-58-7	2-Chloronaphthalene	780	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	780	U
606-20-2	2,6-Dinitrotoluene	780	U
208-96-8	Acenaphthylene	780	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	780	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.010

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5094

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 58 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) .Y pH: 5.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	780	U
121-14-2	2,4-Dinitrotoluene	780	U
84-66-2	Diethylphthalate	780	U
86-73-7	Fluorene	780	U
7005-72-3	4-Chlorophenyl-phenylether	780	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	780	U
101-55-3	4-Bromophenyl-phenylether	780	U
118-74-1	Hexachlorobenzene	780	U
1912-24-9	Atrazine	780	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	780	U
120-12-7	Anthracene	780	U
86-74-8	Carbazole	780	U
84-74-2	Di-n-butylphthalate	780	U
206-44-0	Fluoranthene	780	U
129-00-0	Pyrene	780	U
85-68-7	Butylbenzylphthalate	780	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)anthracene	780	U
218-01-9	Chrysene	780	U
117-81-7	bis(2-Ethylhexyl)phthalate	780	U
117-84-0	Di-n-octylphthalate	780	U
205-99-2	Benzo(b)fluoranthene	780	U
207-08-9	Benzo(k)fluoranthene	780	U
50-32-8	Benzo(a)pyrene	780	U
193-39-5	Indeno(1,2,3-cd)pyrene	780	U
53-70-3	Dibenzo(a,h)anthracene	780	U
191-24-2	Benzo(g,h,i)perylene	780	U

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.010

Sample wt/vol: 30.1 (g/mL) G Lab File ID: G5094

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 58 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Extraction: (Type) SONC

Number TICS found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.85	410	J
2.				
3.				
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.011

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5103

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 28 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	460	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.011

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5103

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 28 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	84	J
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	54	J
129-00-0	Pyrene	56	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	52	J
117-81-7	bis(2-Ethylhexyl)phthalate	140	J
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.011

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G5103

Level: (low/med) LOW Date Received: 04/22/05

% Moisture: 28 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/13/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Extraction: (Type) SONC

Number TICS found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	010425-90-8	Benzene, 1-isopentyl-2,4,5-t	7.52	210	JN
2.	003234-85-3	Tetradecanoic acid, tetradec	15.05	410	JN
3.	002599-01-1	Tetradecanoic acid, hexadecy	15.68	430	JN
4.	002599-01-1	Tetradecanoic acid, hexadecy	15.69	250	JN
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3P

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: SVOB3P

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G5087

Level: (low/med) LOW Date Received: _____

% Moisture: 0 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3P

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: SVOB3P

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G5087

Level: (low/med) LOW Date Received: _____

% Moisture: 0 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK3P

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: SVOB3P

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G5087

Level: (low/med) LOW Date Received: _____

% Moisture: 0 Decanted:(Y/N) N Date Extracted: 04/26/05

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

Number TICS found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

GC Column (1): RTX-PEST ID: 0.53 (mm) GC Column (2): RTX-PEST2 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK8Q	116	93	113	108			0
02	E2BS8	86	77	103	88			0
03	E2BS9	91	94	102	101			0
04	E2BS9MS	101	92	110	100			0
05	E2BS9MSD	98	86	105	109			0
06	E2BT0	64	71	75	62			0
07	E2BT1	75	60	76	62			0
08	E2BT2	69	68	86	66			0
09	E2BT3	18 *	9*	48	17 *			3
10	E2BT4	110	90	91	75			0
11	E2BT6	124	105	115	98			0
12	E2BT9	88	79	97	65			0
13	E2BT5	142	80	393*	217 *			2
14	E2BT5DL	0 D	0 D	0 D	0 D			0
15	E2BT1DL	72	53	94	63			0
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

			QC LIMITS
TCX	=	Tetrachloro-m-xylene	(30-150)
DCB	=	Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: SDG No.: E2BS8

Marix Spike - EPA Sample No.: E2BS9

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	23	0	22	96	46-127
Heptachlor	23	0	24	104	35-130
Aldrin	23	0	21	91	34-132
Dieldrin	46	0	50	109	31-134
Endrin	46	0	52	113	42-139
4,4'-DDT	46	41	62	46	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	23	23	100	4	50	46-127
Heptachlor	23	24	104	0	31	35-130
Aldrin	23	22	96	5	43	34-132
Dieldrin	46	50	106	3	38	31-134
Endrin	46	52	111	2	45	42-139
4,4'-DDT	46	64	49	6	50	23-134

Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits.

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

_____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK8Q

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS NO.: _____ SDG No.: E2BS8

Lab Sample ID: PESB8Q Lab File ID: _____

Matrix: (soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 04/24/05

Date Analyzed (1): 05/17/05 Date Analyzed (2): 05/17/05

Time Analyzed (1): 0429 Time Analyzed (2): 0502

Instrument ID (1): C-6890A Instrument ID (2): C-6890B

GC Column (1): RTX-PEST ID: 0.53 (mm) GC Column (2): RTX-PEST2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E2BS8	6056.002	05/17/05	05/17/05
02	E2BS9	6056.003	05/17/05	05/17/05
03	E2BS9MS	6056.003MS	05/17/05	05/17/05
04	E2BS9MSD	6056.003MSD	05/17/05	05/17/05
05	E2BT0	6056.004	05/17/05	05/17/05
06	E2BT1	6056.005	05/17/05	05/17/05
07	E2BT1DL	6056.005DL	05/19/05	05/19/05
08	E2BT2	6056.006	05/18/05	05/18/05
09	E2BT3	6056.007	05/18/05	05/18/05
10	E2BT4	6056.008	05/18/05	05/18/05
11	E2BT5	6056.009	05/18/05	05/18/05
12	E2BT5DL	6056.009DL	05/18/05	05/19/05
13	E2BT6	6056.010	05/18/05	05/18/05
14	E2BT9	6056.011	05/18/05	05/18/05
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26				

COMMENTS: _____

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.002

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 56 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.8	U
319-85-7	beta-BHC	3.8	U
319-86-8	delta-BHC	3.8	U
58-89-9	gamma-BHC (Lindane)	3.8	U
76-44-8	Heptachlor	3.8	U
309-00-2	Aldrin	3.8	U
1024-57-3	Heptachlor epoxide	3.8	U
959-98-8	Endosulfan I	3.8	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	1.4	JP
72-20-8	Endrin	7.5	U
33213-65-9	Endosulfan II	7.5	U
72-54-8	4,4'-DDD	7.5	U
1031-07-8	Endosulfan sulfate	7.5	U
50-29-3	4,4'-DDT	3.1	JP
72-43-5	Methoxychlor	38	U
53494-70-5	Endrin ketone	7.5	U
7421-93-4	Endrin aldehyde	7.5	U
5103-71-9	alpha-Chlordane	3.8	U
5103-74-2	gamma-Chlordane	3.8	U
8001-35-2	Toxaphene	380	U
12674-11-2	Aroclor-1016	75	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	75	U
53469-21-9	Aroclor-1242	75	U
12672-29-6	Aroclor-1248	75	U
11097-69-1	Aroclor-1254	75	U
11096-82-5	Aroclor-1260	75	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003

Sample wt/vol: 29.9 (g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.7	U
72-55-9	4,4'-DDE	7.4	P
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	4.7	U
1031-07-8	Endosulfan sulfate	4.7	U
50-29-3	4,4'-DDT	41	
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	47	U
11104-28-2	Aroclor-1221	95	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U
11096-82-5	Aroclor-1260	47	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MS

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	22	
76-44-8	Heptachlor	24	P
309-00-2	Aldrin	21	
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	50	
72-55-9	4,4'-DDE	3.8	JP
72-20-8	Endrin	52	
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	62	
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	0.36	JP
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	93	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BS9MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.003MSD

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	23	
76-44-8	Heptachlor	24	
309-00-2	Aldrin	22	
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	50	
72-55-9	4,4'-DDE	4.0	JP
72-20-8	Endrin	52	
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	64	
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	0.46	J
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT0

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.004

Sample wt/vol: 29.8 (g/mL) G Lab File ID: _____

% Moisture: 54 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.7	U
319-85-7	beta-BHC	3.7	U
319-86-8	delta-BHC	3.7	U
58-89-9	gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.2	U
72-55-9	4,4'-DDE	5.7	J
72-20-8	Endrin	7.2	U
33213-65-9	Endosulfan II	7.2	U
72-54-8	4,4'-DDD	7.2	U
1031-07-8	Endosulfan sulfate	7.2	U
50-29-3	4,4'-DDT	3.1	JP
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin ketone	7.2	U
7421-93-4	Endrin aldehyde	7.2	U
5103-71-9	alpha-Chlordane	3.7	U
5103-74-2	gamma-Chlordane	3.7	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	72	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	72	U
53469-21-9	Aroclor-1242	72	U
12672-29-6	Aroclor-1248	72	U
11097-69-1	Aroclor-1254	120	
11096-82-5	Aroclor-1260	72	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.005

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	63	
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	-14	J
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT1DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.005DL

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/19/05

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
58-89-9	gamma-BHC (Lindane)	22	U
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	22	U
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	43	U
72-55-9	4,4'-DDE	61	D
72-20-8	Endrin	43	U
33213-65-9	Endosulfan II	43	U
72-54-8	4,4'-DDD	43	U
1031-07-8	Endosulfan sulfate	43	U
50-29-3	4,4'-DDT	190	D
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	43	U
7421-93-4	Endrin aldehyde	43	U
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	22	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	430	U
11104-28-2	Aroclor-1221	870	U
11141-16-5	Aroclor-1232	430	U
53469-21-9	Aroclor-1242	430	U
12672-29-6	Aroclor-1248	430	U
11097-69-1	Aroclor-1254	430	U
11096-82-5	Aroclor-1260	430	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.006

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 54 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/18/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.7	U
319-85-7	beta-BHC	3.7	U
319-86-8	delta-BHC	3.7	U
58-89-9	gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.1	U
72-55-9	4,4'-DDE	3.9	J
72-20-8	Endrin	7.1	U
33213-65-9	Endosulfan II	7.1	U
72-54-8	4,4'-DDD	7.1	U
1031-07-8	Endosulfan sulfate	7.1	U
50-29-3	4,4'-DDT	6.9	J
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin ketone	7.1	U
7421-93-4	Endrin aldehyde	7.1	U
5103-71-9	alpha-Chlordane	3.7	U
5103-74-2	gamma-Chlordane	3.7	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	71	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	71	U
53469-21-9	Aroclor-1242	71	U
12672-29-6	Aroclor-1248	71	U
11097-69-1	Aroclor-1254	71	U
11096-82-5	Aroclor-1260	71	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.007

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 74 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/18/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.6	U
319-85-7	beta-BHC	6.6	U
319-86-8	delta-BHC	6.6	U
58-89-9	gamma-BHC (Lindane)	6.6	U
76-44-8	Heptachlor	6.6	U
309-00-2	Aldrin	6.6	U
1024-57-3	Heptachlor epoxide	6.6	U
959-98-8	Endosulfan I	6.6	U
60-57-1	Dieldrin	13	U
72-55-9	4,4'-DDE	57	
72-20-8	Endrin	13	U
33213-65-9	Endosulfan II	13	U
72-54-8	4,4'-DDD	13	U
1031-07-8	Endosulfan sulfate	13	U
50-29-3	4,4'-DDT	22	P
72-43-5	Methoxychlor	65	U
53494-70-5	Endrin ketone	9.3	JP
7421-93-4	Endrin aldehyde	9.0	JP
5103-71-9	alpha-Chlordane	6.6	U
5103-74-2	gamma-Chlordane	6.6	U
8001-35-2	Toxaphene	650	U
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	260	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	130	U
12672-29-6	Aroclor-1248	130	U
11097-69-1	Aroclor-1254	130	U
11096-82-5	Aroclor-1260	130	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.008

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 61 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/18/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	J
319-85-7	beta-BHC	4.3	U
319-86-8	delta-BHC	4.3	U
58-89-9	gamma-BHC (Lindane)	4.3	U
76-44-8	Heptachlor	4.3	U
309-00-2	Aldrin	4.3	U
1024-57-3	Heptachlor epoxide	4.3	U
959-98-8	Endosulfan I	4.3	U
60-57-1	Dieldrin	8.4	U
72-55-9	4,4'-DDE	6.2	J
72-20-8	Endrin	8.4	U
33213-65-9	Endosulfan II	8.4	U
72-54-8	4,4'-DDD	8.4	U
1031-07-8	Endosulfan sulfate	8.4	U
50-29-3	4,4'-DDT	13	
72-43-5	Methoxychlor	43	U
53494-70-5	Endrin ketone	8.4	U
7421-93-4	Endrin aldehyde	8.4	U
5103-71-9	alpha-Chlordane	4.3	U
5103-74-2	gamma-Chlordane	4.3	U
8001-35-2	Toxaphene	430	U
12674-11-2	Aroclor-1016	84	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	84	U
53469-21-9	Aroclor-1242	84	U
12672-29-6	Aroclor-1248	84	U
11097-69-1	Aroclor-1254	84	U
11096-82-5	Aroclor-1260	84	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 65 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/18/05

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	480	U
319-85-7	beta-BHC	480	U
319-86-8	delta-BHC	480	U
58-89-9	gamma-BHC (Lindane)	480	U
76-44-8	Heptachlor	480	U
309-00-2	Aldrin	480	U
1024-57-3	Heptachlor epoxide	480	U
959-98-8	Endosulfan I	480	U
60-57-1	Dieldrin	930	U
72-55-9	4,4'-DDE	-6600	J
72-20-8	Endrin	930	U
33213-65-9	Endosulfan II	930	U
72-54-8	4,4'-DDD	1300	P
1031-07-8	Endosulfan sulfate	930	U
50-29-3	4,4'-DDT	-3000	J
72-43-5	Methoxychlor	4800	U
53494-70-5	Endrin ketone	930	U
7421-93-4	Endrin aldehyde	930	U
5103-71-9	alpha-Chlordane	480	U
5103-74-2	gamma-Chlordane	480	U
8001-35-2	Toxaphene	48000	U
12674-11-2	Aroclor-1016	9300	U
11104-28-2	Aroclor-1221	19000	U
11141-16-5	Aroclor-1232	9300	U
53469-21-9	Aroclor-1242	9300	U
12672-29-6	Aroclor-1248	9300	U
11097-69-1	Aroclor-1254	9300	U
11096-82-5	Aroclor-1260	9300	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT5DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.009DL

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 65 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/18/05

Injection Volume: 1.0 (uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4800	U
319-85-7	beta-BHC	4800	U
319-86-8	delta-BHC	4800	U
58-89-9	gamma-BHC (Lindane)	4800	U
76-44-8	Heptachlor	4800	U
309-00-2	Aldrin	4800	U
1024-57-3	Heptachlor epoxide	4800	U
959-98-8	Endosulfan I	4800	U
60-57-1	Dieldrin	9300	U
72-55-9	4,4'-DDE	70000	D
72-20-8	Endrin	9300	U
33213-65-9	Endosulfan II	9300	U
72-54-8	4,4'-DDD	9300	U
1031-07-8	Endosulfan sulfate	9300	U
50-29-3	4,4'-DDT	71000	D
72-43-5	Methoxychlor	48000	U
53494-70-5	Endrin ketone	9300	U
7421-93-4	Endrin aldehyde	9300	U
5103-71-9	alpha-Chlordane	4800	U
5103-74-2	gamma-Chlordane	4800	U
8001-35-2	Toxaphene	480000	U
12674-11-2	Aroclor-1016	93000	U
11104-28-2	Aroclor-1221	190000	U
11141-16-5	Aroclor-1232	93000	U
53469-21-9	Aroclor-1242	93000	U
12672-29-6	Aroclor-1248	93000	U
11097-69-1	Aroclor-1254	93000	U
11096-82-5	Aroclor-1260	93000	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.010

Sample wt/vol: 29.9 (g/mL) G Lab File ID: _____

% Moisture: 58 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/18/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.1	U
319-85-7	beta-BHC	4.1	U
319-86-8	delta-BHC	4.1	U
58-89-9	gamma-BHC (Lindane)	4.1	U
76-44-8	Heptachlor	4.1	U
309-00-2	Aldrin	4.1	U
1024-57-3	Heptachlor epoxide	4.1	U
959-98-8	Endosulfan I	4.1	U
60-57-1	Dieldrin	7.9	U
72-55-9	4,4'-DDE	3.0	JP
72-20-8	Endrin	7.9	U
33213-65-9	Endosulfan II	7.9	U
72-54-8	4,4'-DDD	7.9	U
1031-07-8	Endosulfan sulfate	7.9	U
50-29-3	4,4'-DDT	5.8	JP
72-43-5	Methoxychlor	41	U
53494-70-5	Endrin ketone	7.9	U
7421-93-4	Endrin aldehyde	7.9	U
5103-71-9	alpha-Chlordane	4.1	U
5103-74-2	gamma-Chlordane	4.1	U
8001-35-2	Toxaphene	410	U
12674-11-2	Aroclor-1016	79	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: 6056.011

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 28 Decanted: (Y/N) N Date Received: 04/22/05

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/18/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	1.6	JP
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.1	JP
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK8Q

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W03027

Lab Code: A4 Case No.: 34107 SAS No.: _____ SDG No.: E2BS8

Matrix: (soil/water) SOIL Lab Sample ID: PESB8Q

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 04/24/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2BS8 CERCLIS No: IND077005916

Case No: 34107 Site Name/Location: Gary Development LF

Contractor or EPA Lab: A4 Scientific Data User: IDEM

No. of Samples: 10 Date Sampled or Date Received: 5/25/05

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Michelle Davis Date: 5/25/05

Received by LSSS: Michelle Davis Date: 5/26/05

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: ____ Date: ____

Mailed to user by: ____ Date: ____

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: **Electronic (Level 2) Review of Data**

Received for Review on: May 13, 2005

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IDEM

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE Name: Gary Development Landfill, (IN)

Case Number: 34107 SDG Number: E2BT7

Number and Type of Samples: 9 (waters)

Sample Numbers: E2BT7, E2BT8, E2BW0 to E2BW6

Laboratory: Data Chem Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

RECEIVED
MAY 23 2005
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Case Number: 34107
Site Name: Gary Development Landfill, (IN)

SDG Number: E2BT7
Laboratory: Data Chem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nine (9) water samples labeled E2BT7, E2BT8 and E2BW0 through E2BW6, were collected on April 20th, 2005. The lab received the samples on April 22nd, 2005 in good condition. All samples were analyzed for the full list of organic analytes except for sample E2BW1. Sample E2BW1 was only analyzed for the volatile list of organic analytes. All samples were analyzed according to CLP SOW OLCO3.2.

Case Number: 34107
Site Name: Gary Development Landfill, (IN)

SDG Number: E2BT7
Laboratory: Data Chem

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

3. CALIBRATION

Qualification: Calibrations **Protocol: VOA**

DC-8 The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Methyl Acetate
E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW1, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6, VBLK01, VHBLK01

DC-21 The following volatile samples are associated with an initial calibration in which a SMC/DMC did not meet relative response factor (RRF) criteria. Use professional judgement to qualify sample data.

E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW1, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6, VBLK01, VHBLK01

DC-23 The following volatile samples are associated with a continuing calibration in which a SMC/DMC did not meet relative response factor (RRF) criteria. Use professional judgement to qualify sample data.

E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW1, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6, VBLK01, VHBLK01

Qualification: Calibrations **Protocol: BNA**

DC-9 The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Phenol
E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6, SBLK01

Qualification: Calibrations **Protocol: PES**

No defects found.

4. BLANKS

Qualification: Laboratory Blanks **Protocol: VOA**

No defects found.

Qualification: Laboratory Blanks **Protocol: BNA**

DC-18 The following semivolatile samples have the same tentatively identified compounds (TIC) detected as the associated method blank. TIC concentrations reported in the associated method blank exceed concentration criteria. Use professional judgement to qualify sample data.

E2BT7

Qualification: Laboratory Blanks **Protocol: PES**

DC-36 The following pesticide samples have analyte concentrations reported below the CRQL. The associated initial instrument blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Endosulfan sulfate
E2BT8, E2BW3

Endrin aldehyde
E2BT7MS, E2BT7MSD

DC-39 The following pesticide samples have analyte concentrations reported below the CRQL. The associated continuing instrument blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Endosulfan sulfate
E2BT8, E2BW3

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

Qualification: DMC **Protocol: VOA**

DC-4 The following volatile samples have one or more DMC recovery values

below the lower limit of the criteria window. Hits are biased low and qualified "J" and non-detects are qualified "UJ".

E2BW4, E2BW5

Qualification: DMC **Protocol: BNA**

DC-19 The following semivolatile samples have deuterated monitoring compound recovery above the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E2BW6
Bis (2-Chloroethyl) ether, 2, 2-oxybis (1-Chloropropane), bis (2-Chloroethoxy) methane

DC-20 The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Hits are qualified "J" and non-detects are qualified "VS".

E2BT8, E2BW3, E2BW4
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3-Dichlorobenzidine, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E2BW2
Caprolactam, 1,1'-Biphenyl, 2-Nitroaniline, Dimethylphthalate, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Diethylphthalate, 4-Nitroaniline, Di-n-butylphthalate, Butylbenzylphthalate, bis(2-Ethylhexyl)phthalate, 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

E2BW5
4-Chloroaniline, Hexachlorocyclopentadiene, 2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline, 3,3-Dichlorobenzidine, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E2BW6
2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

Qualification: Surrogate **Protocol: PES**

DC-2 The following pesticide samples have surrogate percent recoveries which

exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E2BW2

DC-3 The following undiluted pesticide samples have surrogate percent recoveries of less than 10%. Hits are qualified "J" and non-detects are qualified "R".

E2BT8

DC-5 The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

E2BW5, E2BW6

DC-6 The following pesticide samples are not fully qualified for surrogate RT because of missing RT information. Hits and non-detects are not flagged.

E2BT8

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects found.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as trip blanks, field blanks or field duplicates. Results are not qualified based upon the results of the field blanks or field duplicates.

8. INTERNAL STANDARDS

No defects found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

Qualification: Detection Limit **Protocol: VOA**

DC-1 The following volatile samples have analyte concentrations below the

quantitation limit (CRQL). All results below the CRQL are qualified "J".

E2BT7MS
Bromoform

E2BW2
Benzene

E2BW3
Acetone, 1, 1-Dichloroethane

E2BW5
Cis-1, 2-Dichloroethene

Qualification: Detection Limit **Protocol: BNA**

DC-1 The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E2BT7, E2BT7MS, E2BT7MSD
Isophorone, Caprolactam, Dimethylphthalate, Diethylphthalate, Di-n-butylphthalate, bis (2-Ethylhexyl) phthalate

E2BT8, E2BW0, E2BW2
Benzaldehyde

E2BW3
Benzaldehyde, Phenol, 4-Methylphenol, 2, 4-Dimethylphenol, Diethylphthalate

E2BW4
Benzaldehyde, Phenol, Acetophenone, 4-Methylphenol, bis (2-Ethylhexyl) phthalate

E2BW5
Benzaldehyde, Phenol, 2-Methylphenol, 4-Methylphenol, 2, 4-Dimethylphenol, Acenaphthene

E2BW6
Benzaldehyde, Anthracene, Fluoranthene, Pyrene

Qualification: Detection Limit **Protocol: PES**

DC-1 The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E2BT7
Heptachlor epoxide, Dieldrin, Endosulfan II, Endrin ketone

E2BT7MS, E2BT7MSD
4, 4-DDE, 4, 4-DDD, Endrin ketone

E2BT8
Beta-BHC, Heptachlor, Dieldrin

E2BW0
Dieldrin, 4, 4-DDT

E2BW2
Heptachlor, Aldrin, Endosulfan I, Dieldrin, 4, 4-DDE, Endosulfan II

E2BW3
Heptachlor, Aldrin, Dieldrin, Endrin, Endosulfan II, Endosulfan sulfate

E2BW4
Heptachlor, Aldrin, Endosulfan II

E2BW5
Heptachlor, Dieldrin, Endosulfan II, 4, 4-DDT, gamma-Chlordane

E2BW6
Gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin, Endrin, Endosulfan II

DC-3 The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Professional judgement should be used to qualify the data.

E2BT7
Dieldrin, Endosulfan II, Endrin ketone

E2BT7MS, E2BT7MSD
4, 4-DDD, Endrin ketone, Endrin aldehyde

E2BT8
Beta-BHC, Heptachlor, Dieldrin, Endosulfan sulfate

E2BW0
4, 4-DDT

E2BW2
Heptachlor, Aldrin, Endosulfan I, Dieldrin, 4, 4-DDE, Endosulfan II

E2BW3
Heptachlor, Dieldrin, Endrin, Endosulfan sulfate

E2BW4
Heptachlor, Aldrin, Endosulfan II

E2BW5
Heptachlor, Dieldrin, Endosulfan II, gamma-Chlordane

E2BW6
Gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin, Endrin

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Qualification: CADRE Reserved **Protocol: VOA**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW1, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6, VBLK01, VHBLK01

Qualification: CADRE Reserved **Protocol: BNA**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6, SBLK01

Qualification: CADRE Reserved **Protocol: PES**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6, PBLKW1

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 9

Sample Number :	E2BT7		E2BT7MS		E2BT7MSD		E2BT8		E2BW0	
Sampling Location :	GW1-7 FT		GW1-7 FT		GW1-7 FT		SW1		GW1-14-16	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	13:35		13:35		13:35		18:00		16:30	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl Chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	4.8		4.9		0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	6.3		5.0	U
Carbon Disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl Acetate	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ
Methylene Chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-Butyl Ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon Tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	4.8		4.7		0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichloroethene	0.50	U	4.8		4.8		0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	4.8		4.8		0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BT7		E2BT7MS		E2BT7MSD		E2BT8		E2BW0	
Sampling Location :	GW1-7 FT		GW1-7 FT		GW1-7 FT		SW1		GW1-14-16	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	13:35		13:35		13:35		18:00		16:30	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	4.9		5.0		0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Xylenes (total)	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.26	J	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 8

Sample Number :	E2BT7		E2BT7MS		E2BT7MSD		E2BT8		E2BW0	
Sampling Location :	GW1-7 FT		GW1-7 FT		GW1-7 FT		SW1		GW1-14-16	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	13:35		13:35		13:35		18:00		16:30	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	0.50	J	0.35	J
Phenol	5.0	UJ	46	J	50	J	5.0	UJ	5.0	UJ
bis-(2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	48		51		5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,2'-oxybis(1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	18		19		5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	0.31	J	0.20	J	0.72	J	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
bis(2-Chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	1.7	J	1.4	J	4.5	J	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	58		64		5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	0.45	J	0.34	J	1.3	J	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Acenaphthene	5.0	U	17		18		5.0	U	5.0	U

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BT7		E2BT7MS		E2BT7MSD		E2BT8		E2BW0	
Sampling Location :	GW1-7 FT		GW1-7 FT		GW1-7 FT		SW1		GW1-14-16	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	13:35		13:35		13:35		18:00		16:30	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U	20	U
4-Nitrophenol	20	U	57		62		20	U	20	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	17		19		5.0	U	5.0	U
Diethylphthalate	1.8	J	1.6	J	4.9	J	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	20	U	20	U	20	U	20	U	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U	20	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	5.0	U	74		82		5.0	U	5.0	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	0.62	J	0.56	J	1.3	J	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	16		16		5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
bis(2-Ethylhexyl)phthalate	0.56	J	1.7	J	0.46	J	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BW2		E2BW3		E2BW4		E2BW5		E2BW6	
Sampling Location :	GW2-17-19		GW2-10-12		GW3 (10-12)		GW4 (13-15)		GW4 (7-9)	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/21/2005		4/21/2005		4/21/2005		4/21/2005		4/21/2005	
Time Sampled :	11:23		09:55		10:00		02:17		01:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	1.2	J	1.1	J	1.1	J	1.3	J	0.96	J
Phenol	5.0	UJ	0.77	J	0.48	J	0.79	J	5.0	UJ
bis-(2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	0.21	J	5.0	U
2,2'-oxybis(1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	0.23	J	5.0	U	5.0	U
4-Methylphenol	5.0	U	0.42	J	0.35	J	1.2	J	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	0.52	J	5.0	U	0.56	J	5.0	U
bis(2-Chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Acenaphthene	5.0	U	5.0	U	5.0	U	1.5	J	8.3	

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BW2		E2BW3		E2BW4		E2BW5		E2BW6	
Sampling Location :	GW2-17-19		GW2-10-12		GW3 (10-12)		GW4 (13-15)		GW4 (7-9)	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/21/2005		4/21/2005		4/21/2005		4/21/2005		4/21/2005	
Time Sampled :	11:23		09:55		10:00		02:17		01:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U	20	U
4-Nitrophenol	20	U	20	U	20	U	20	U	20	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	4.5	J	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	20	U	20	U	20	U	20	U	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U	20	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U	0.43	J
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	0.29	J
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U	0.36	J
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
bis(2-Ethylhexyl)phthalate	5.0	U	5.0	U	0.76	J	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	SBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U								
Phenol	5.0	UJ								
bis-(2-Chloroethyl) ether	5.0	U								
2-Chlorophenol	5.0	U								
2-Methylphenol	5.0	U								
2,2'-oxybis(1-Chloropropane)	5.0	U								
Acetophenone	5.0	U								
4-Methylphenol	5.0	U								
N-Nitroso-di-n-propylamine	5.0	U								
Hexachloroethane	5.0	U								
Nitrobenzene	5.0	U								
Isophorone	5.0	U								
2-Nitrophenol	5.0	U								
2,4-Dimethylphenol	5.0	U								
bis(2-Chloroethoxy)methane	5.0	U								
2,4-Dichlorophenol	5.0	U								
Naphthalene	5.0	U								
4-Chloroaniline	5.0	U								
Hexachlorobutadiene	5.0	U								
Caprolactam	5.0	U								
4-Chloro-3-methylphenol	5.0	U								
2-Methylnaphthalene	5.0	U								
Hexachlorocyclopentadiene	5.0	U								
2,4,6-Trichlorophenol	5.0	U								
2,4,5-Trichlorophenol	20	U								
1,1'-Biphenyl	5.0	U								
2-Chloronaphthalene	5.0	U								
2-Nitroaniline	20	U								
Dimethylphthalate	5.0	U								
2,6-Dinitrotoluene	5.0	U								
Acenaphthylene	5.0	U								
3-Nitroaniline	20	U								
Acenaphthene	5.0	U								

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	SBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U								
4-Nitrophenol	20	U								
Dibenzofuran	5.0	U								
2,4-Dinitrotoluene	5.0	U								
Diethylphthalate	5.0	U								
Fluorene	5.0	U								
4-Chlorophenyl-phenylether	5.0	U								
4-Nitroaniline	20	U								
4,6-Dinitro-2-methylphenol	20	U								
N-Nitrosodiphenylamine	5.0	U								
1,2,4,5-Tetrachlorobenzene	5.0	U								
4-Bromophenyl-phenylether	5.0	U								
Hexachlorobenzene	5.0	U								
Atrazine	5.0	U								
Pentachlorophenol	5.0	U								
Phenanthrene	5.0	U								
Anthracene	5.0	U								
Di-n-butylphthalate	5.0	U								
Fluoranthene	5.0	U								
Pyrene	5.0	U								
Butylbenzylphthalate	5.0	U								
3,3'-Dichlorobenzidine	5.0	U								
Benzo(a)anthracene	5.0	U								
Chrysene	5.0	U								
bis(2-Ethylhexyl)phthalate	5.0	U								
Di-n-octylphthalate	5.0	U								
Benzo(b)fluoranthene	5.0	U								
Benzo(k)fluoranthene	5.0	U								
Benzo(a)pyrene	5.0	U								
Indeno(1,2,3-cd)pyrene	5.0	U								
Dibenzo(a,h)anthracene	5.0	U								
Benzo(g,h,i)perylene	5.0	U								

Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 8

Sample Number :	E2BT7		E2BT7MS		E2BT7MSD		E2BT8		E2BW0	
Sampling Location :	GW1-7 FT		GW1-7 FT		GW1-7 FT		SW1		GW1-14-16	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/20/2005		4/20/2005		4/20/2005		4/20/2005		4/20/2005	
Time Sampled :	13:35		13:35		13:35		18:00		16:30	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	R	0.010	U
beta-BHC	0.010	U	0.010	U	0.010	U	0.0057	J	0.010	U
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	R	0.010	U
gamma-BHC (Lindane)	0.010	U	0.074		0.076		0.010	R	0.010	U
Heptachlor	0.010	U	0.075		0.076		0.0037	J	0.010	U
Aldrin	0.010	U	0.086		0.088		0.010	R	0.010	U
Heptachlor epoxide	0.00065	J	0.010	U	0.010	U	0.010	U	0.010	U
Endosulfan I	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Dieldrin	0.00076	J	0.19		0.20		0.0043	J	0.00026	J
4,4'-DDE	0.020	U	0.0026	J	0.0027	J	0.020	U	0.020	U
Endrin	0.020	U	0.18		0.19		0.020	U	0.020	U
Endosulfan II	0.00044	J	0.020	U	0.020	U	0.020	U	0.020	U
4,4'-DDD	0.020	U	0.0021	J	0.0019	J	0.020	U	0.020	U
Endosulfan sulfate	0.020	U	0.020	U	0.020	U	0.00095	UJ	0.020	U
4,4'-DDT	0.020	U	0.21		0.21		0.020	U	0.00029	J
Methoxychlor	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin ketone	0.00025	J	0.0016	J	0.0018	J	0.020	U	0.020	U
Endrin aldehyde	0.020	U	0.0019	UJ	0.0045	UJ	0.020	U	0.020	U
alpha-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Toxaphene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1221	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
Aroclor-1232	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1248	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1260	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E2BW2		E2BW3		E2BW4		E2BW5		E2BW6	
Sampling Location :	GW2-17-19		GW2-10-12		GW3 (10-12)		GW4 (13-15)		GW4 (7-9)	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/21/2005		4/21/2005		4/21/2005		4/21/2005		4/21/2005	
Time Sampled :	11:23		09:55		10:00		02:17		01:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	UJ	0.010	UJ
beta-BHC	0.010	U	0.010	U	0.010	U	0.010	UJ	0.010	UJ
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	UJ	0.010	UJ
gamma-BHC (Lindane)	0.010	U	0.010	U	0.010	U	0.010	UJ	0.0031	J
Heptachlor	0.00072	J	0.00094	J	0.0010	J	0.00073	J	0.00096	J
Aldrin	0.0014	J	0.0041	J	0.00068	J	0.010	UJ	0.0023	J
Heptachlor epoxide	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Endosulfan I	0.00056	J	0.010	U	0.010	U	0.010	U	0.010	U
Dieldrin	0.0026	J	0.00079	J	0.020	U	0.00097	J	0.0014	J
4,4'-DDE	0.00050	J	0.020	U	0.020	U	0.020	U	0.020	U
Endrin	0.020	U	0.00050	J	0.020	U	0.020	U	0.00065	J
Endosulfan II	0.0028	J	0.0016	J	0.0011	J	0.0013	J	0.0037	J
4,4'-DDD	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endosulfan sulfate	0.020	U	0.0014	UJ	0.020	U	0.020	U	0.020	U
4,4'-DDT	0.020	U	0.020	U	0.020	U	0.00059	J	0.020	U
Methoxychlor	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin ketone	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endrin aldehyde	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
alpha-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-Chlordane	0.010	U	0.010	U	0.010	U	0.00068	J	0.010	U
Toxaphene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1221	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
Aroclor-1232	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1248	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1260	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

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Analytical Results (Qualified Data)

Case #: 34107 SDG : E2BT7
Site : GARY DEVELOPMENT LANDFILL
Lab. : DATAC
Reviewer :
Date :

Sample Number :	PBLKW1									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U								
beta-BHC	0.010	U								
delta-BHC	0.010	U								
gamma-BHC (Lindane)	0.010	U								
Heptachlor	0.010	U								
Aldrin	0.010	U								
Heptachlor epoxide	0.010	U								
Endosulfan I	0.010	U								
Dieldrin	0.020	U								
4,4'-DDE	0.020	U								
Endrin	0.020	U								
Endosulfan II	0.020	U								
4,4'-DDD	0.020	U								
Endosulfan sulfate	0.020	U								
4,4'-DDT	0.020	U								
Methoxychlor	0.10	U								
Endrin ketone	0.020	U								
Endrin aldehyde	0.020	U								
alpha-Chlordane	0.010	U								
gamma-Chlordane	0.010	U								
Toxaphene	1.0	U								
Aroclor-1016	0.20	U								
Aroclor-1221	0.40	U								
Aroclor-1232	0.20	U								
Aroclor-1242	0.20	U								
Aroclor-1248	0.20	U								
Aroclor-1254	0.20	U								
Aroclor-1260	0.20	U								

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Olson, Roxanne

From: Brown, Jessica [jbrown208@fedcsc.com]
Sent: Thursday, April 28, 2005 1:02 PM
To: Carlene Thomas (E-mail); Warren Layne (E-mail)
Cc: Olson, Roxanne; Mark Jaworski (E-mail)
Subject: Region 05 | Case 34107 | Lab DATAC | Issue Laboratory problems | FINAL
Flag Status: Flagged

Record of Communication

-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Thursday, April 28, 2005 2:58 PM
To: Brown, Jessica
Subject: FW: Case: 34107 SDG: E2BT7

Jessica: Here are comments from Joe concerning the above referenced case.

From: Gress, Joseph
Sent: Thursday, April 28, 2005 12:07 PM
To: Olson, Roxanne
Cc: Wade, Richard W.
Subject: Case: 34107 SDG: E2BT7

Roxy,

I am done analyzing the EPA samples from Region 5 (Case: 34107 SDG:E2BT7). I was able to run all samples without a dilution except for sample E2BW2. This sample started to bubble as soon as the vial was open and did bubble over the side of the vial. In order to protect the integrity of the instrument, I performed a 1:2 dilution for this sample and added an inorganic surfactant to control the foaming of the sample during the purge process. Although this sample did not have as many TIC's as others, I do not feel comfortable running this sample without a dilution because of the excessive bubbling that occurred when the sample vial was opened and because the sample did not quite look to be the consistency of water. It appeared to be just slightly thicker and has a light golden color to it. All this will be documented in the analyst notebook and SDG Narrative.

Also note, other samples also bubbled upon opening of the sample vials. None were as bad as E2BW2. Because of the bubbling of some samples in this SDG, all blanks and samples in this SDG were analyzed by spiking an inorganic surfactant to control the foaming of the sample during the purge process. If you have any other question, please let me know.

Thanks,
Joe
-----Original Message-----
From: Brown, Jessica
Sent: Thursday, April 28, 2005 2:17 PM
To: Roxanne Olson (E-mail)
Subject: Region 05 | Case 34107 | Lab DATAC | Issue Laboratory problems

Just checking on those samples...

Tl ks,
Jess

-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Wednesday, April 27, 2005 12:29 PM
To: Brown, Jessica
Subject: RE: Region 05 | Case 34107 | Lab DATAC | Issue Laboratory problems

Jessica. My analyst will be in about noon and I will check with him to see how things are progressing. It is 10:30 my time now so I will get back to you as soon as I can this afternoon.

Roxy

From: Brown, Jessica [mailto:jbrown208@fedcsc.com]
Sent: Wednesday, April 27, 2005 9:37 AM
To: Olson, Roxanne
Subject: Region 05 | Case 34107 | Lab DATAC | Issue Laboratory problems

Hey Roxy,

I wanted to check in with you guys to see how the samples were holding up.

Thanks,
Jessica

4/26/05 1:40PM Jessica Brown, SMO, spoke with Roxanne Olson, DATAC, concerning Case 34107. The Region suggests that the lab dilute the sample (1-100Xs) to determine if they are high concentration.

4/26/05 1:35PM Jessica Brown, SMO, received a voice-mail message from Warren Layne, Region 5, concerning Case 34107. The Region suggests that the lab dilute the sample (1-100Xs) to determine if they are high concentration.

-----Original Message-----
From: Brown, Jessica
Sent: Tuesday, April 26, 2005 10:44 AM
To: Mark Jaworski (E-mail)
Cc: Howard Pham (E-mail); Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Please reply: Region 05 | Case 34107 | Lab DATAC | Issue

Mark,

DATAC is reporting that the samples for OLC03.2 analysis appear to be soapy looking and the laboratory is worried that they may run into instrument failure due to high concentrations in these samples. Please advise.

Thanks,
Jessica

Record of Communication
4/26/05 10:05AM Jessica Brown, SMO, spoke with Roxy Olson, DATAC, concerning Case 34107. The samples for OLC03.2 analysis appear to be soapy looking and the laboratory is worried that they may run into instrument failure due to high concentrations in these samples. Please advise.

Jessica Brown
Computer Sciences Corporation
Environmental Scientist
CLP Coordinator for Regions 4, 5, & 8
Ph : (703) 818-4215; Fax: (703) 818-4602
jbrown208@fedcsc.com

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2LCA

LOW CONCENTRATION WATER VOLATILE

DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
1	E2BT7	94	64	68	76	100	104	106
2	E2BT8	92	66	68	90	98	106	102
3	E2BW0	96	66	68	80	100	106	102
4	E2BW1	96	66	66	86	98	108	102
5	E2BW2	98	66	68	72	100	106	110
6	E2BW3	86	66	66	86	98	112	106
7	E2BW4	84	62	64 *	78	96	104	104
8	E2BW5	86	64	64 *	86	100	110	104
9	E2BW6	90	64	66	70	100	108	102
10	VHBLK01	94	60	72	84	104	116	108
11	E2BT7MS	92	66	98	78	98	118	102
12	E2BT7MSD	88	66	100	94	100	114	104
13	VBLK01	98	66	72	116	104	112	106

		QC LIMITS
VDMC1 (VCL)	= Vinyl Chloride-d3	(49-138)
VDMC2 (CLA)	= Chloroethane-d5	(60-126)
VDMC3 (DCE)	= 1,1-Dichloroethene-d2	(65-130)
VDMC4 (BUT)	= 2-Butanone-d5	(42-171)
VDMC5 (CLF)	= Chloroform-d	(80-123)
VDMC6 (DCA)	= 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN)	= Benzene-d6	(78-121)

Column to be used to flag recovery values.

* Values outside of contract required QC limits.

2LCB

LOW CONCENTRATION WATER VOLATILE

DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (BRF) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
1	E2BT7	102	108	106	76	98	106	110	0
2	E2BT8	102	104	110	86	100	108	108	0
3	E2BW0	100	106	96	78	98	100	108	0
4	E2BW1	100	104	102	86	98	108	110	0
5	E2BW2	110	108	110	96	98	120	110	0
6	E2BW3	104	106	104	98	104	118	110	0
7	E2BW4	106	108	104	92	100	112	114	1
8	E2BW5	102	106	100	92	100	118	114	1
9	E2BW6	102	104	108	96	100	120	110	0
10	VHBLK01	110	110	106	86	106	118	116	0
11	E2BT7MS	102	104	104	86	108	114	108	0
12	E2BT7MSD	104	104	110	90	108	114	110	0
13	VBLK01	104	106	102	100	96	102	106	0

			QC LIMITS
VDMC8	(DCA)	= 1,2-Dichloropropane-d	(84-123)
VDMC9	(TOL)	= Toluene-d8	(77-120)
VDMC10	(TDP)	= trans-1,3-Dichloropro	(80-128)
VDMC11	(HEX)	= 2-Hexanone-d5	(37-169)
VDMC12	(BRF)	= Bromoform-d	(76-135)
VDMC13	(TCA)	= 1,1,2,2-Tetrachloroet	(75-131)
VDMC14	(DCZ)	= 1,2-Dichlorobenzene-d	(50-150)

Column to be used to flag recovery values.

* Values outside of contract required QC limits.

3LCA

LOW CONCENTRATION WATER VOLATILE

MATRIX SPIKE /

MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

Matrix Spike - EPA Sample No.: E2BT7

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	5.0	0	4.8	96	61-145
Benzene	5.0	0	4.8	96	76-127
Trichloroethene	5.0	0	4.8	96	71-120
Toluene	5.0	0	4.8	96	76-125
Chlorobenzene	5.0	0	4.9	98	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5.0	4.9	98	2	14	61-145
Benzene	5.0	4.7	94	2	11	76-127
Trichloroethene	5.0	4.8	96	0	14	71-120
Toluene	5.0	4.8	96	0	13	76-125
Chlorobenzene	5.0	5.0	100	2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk.

* Values outside of QC limits.

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

Comments:

4LCA

LOW CONCENTRATION WATER

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230961-1 Date Analyzed: 04/27/2005

Lab File ID: PJ24BLK Time Analyzed: 15:07

Instrument ID: 5972-P

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	E2BT7	05C00574	PJ29C574	18:14
2	E2BT8	05C00575	PJ30C575	18:49
3	E2BW0	05C00576	PJ31C576	19:23
4	E2BW1	05C00577	PJ33C577	20:30
5	E2BW2	05C00578	PJ38C578	23:19
6	E2BW3	05C00579	PJ36C579	22:12
7	E2BW4	05C00580	PJ34C580	21:04
8	E2BW5	05C00581	PJ32C581	19:57
9	E2BW6	05C00582	PJ27C582	17:03
10	VHBLK01	BL-230961-2	PJ39HBLK	23:53
11	E2BT7MS	05C00574MS	PJ35S574	21:38
12	E2BT7MSD	05C00574MSD	PJ37D574	22:46

Comments:

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574 Date Received: 04/22/2005

Lab File ID: PJ29C574 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574 Date Received: 04/22/2005

Lab File ID: PJ29C574 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT7

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574 Date Received: 04/22/2005

Lab File ID: PJ29C574 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1		Unknown Oxy Hydrocarbon	22.91	0.88	J
2	693549	2-Decanone	24.45	0.82	JN
3		Unknown Oxy Hydrocarbon	24.60	0.56	J

1LCA

LOW CONCENTRATION WATER VOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MS

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MS Date Received: 04/22/2005

Lab File ID: PJ35S574 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.8	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	4.8	
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MS

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MS Date Received: 04/22/2005

Lab File ID: PJ35S574 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	4.8	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	4.8	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	4.9	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.26	J
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCA

LOW CONCENTRATION WATER VOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MSD

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MSD Date Received: 04/22/2005

Lab File ID: PJ37D574 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.9	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	4.7	
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MSD

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MSD Date Received: 04/22/2005

Lab File ID: PJ37D574 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	4.8	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	4.8	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.0	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCA

LOW CONCENTRATION WATER VOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT8

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00575 Date Received: 04/22/2005

Lab File ID: PJ30C575 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	6.3	
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT8

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00575 Date Received: 04/22/2005

Lab File ID: PJ30C575 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT8

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

Lab Sample ID: 05C00575 Date Received: 04/22/2005

Lab File ID: PJ30C575 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	420564	Silane, fluorotrimethyl-	4.72	0.68	JN

ILCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW0

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00576 Date Received: 04/22/2005

Lab File ID: PJ31C576 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW0

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00576 Date Received: 04/22/2005

Lab File ID: PJ31C576 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW0

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00576 Date Received: 04/22/2005

Lab File ID: PJ31C576 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW1

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00577 Date Received: 04/22/2005

Lab File ID: PJ33C577 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW1

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00577 Date Received: 04/22/2005

Lab File ID: PJ33C577 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW1

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00577 Date Received: 04/22/2005

Lab File ID: PJ33C577 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	75296	Propane, 2-chloro-	6.90	0.56	JN
2	1066406	Silanol, trimethyl-	10.38	1.4	JN

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW2

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00578 Date Received: 04/22/2005

Lab File ID: PJ38C578 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 2

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	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	10	U
75-15-0	Carbon Disulfide	1.0	U
79-20-9	Methyl Acetate	1.0	U
75-09-2	Methylene Chloride	1.0	U
150-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	2.2	
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	10	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	0.45	J
107-06-2	1,2-Dichloroethane	1.0	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW2

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00578 Date Received: 04/22/2005

Lab File ID: PJ38C578 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 2

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
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-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	10	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	1.0	U
1330-20-7	Xylene (total)	1.0	U
100-42-5	Styrene	1.0	U
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	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW2

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00578 Date Received: 04/22/2005

Lab File ID: PJ38C578 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 2

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 7

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	420564	Silane, fluorotrimethyl-	4.73	1.8	JN
2	60297	Ethyl ether	6.82	1.4	JN
3	75650	2-Propanol, 2-methyl-	8.53	5.7	JN
4	108203	Diisopropyl ether	9.59	4.2	JN
5	1066406	Silanol, trimethyl-	10.37	21	JN
6	109999	Furan, tetrahydro-	10.81	17	JN
7	96479	Furan, tetrahydro-2-methyl-	11.94	3.2	JN

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW3

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00579 Date Received: 04/22/2005

Lab File ID: PJ36C579 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	4.8	J
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.26	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW3

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00579 Date Received: 04/22/2005

Lab File ID: PJ36C579 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW3

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00579 Date Received: 04/22/2005

Lab File ID: PJ36C579 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	75456	Methane, chlorodifluoro-	3.18	1.6	JN
2	60297	Ethyl ether	6.82	0.76	JN
3	75650	2-Propanol, 2-methyl-	8.51	2.6	JN
4		Unknown Oxy Hydrocarbon	9.59	0.68	J
5	1066406	Silanol, trimethyl-	10.38	5.2	JN

1LCA

LOW CONCENTRATION WATER VOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW4

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00580 Date Received: 04/22/2005

Lab File ID: PJ34C580 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	6.1	
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW4

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00580 Date Received: 04/22/2005

Lab File ID: PJ34C580 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW4

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00580 Date Received: 04/22/2005

Lab File ID: PJ34C580 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 6

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	75456	Methane, chlorodifluoro-	3.20	1.5	JN
2	420564	Silane, fluorotrimethyl-	4.71	67	JN
3	60297	Ethyl ether	6.81	0.76	JN
4	75650	2-Propanol, 2-methyl-	8.51	2.5	JN
5	1066406	Silanol, trimethyl-	10.36	11	JN
6	590863	Butanal, 3-methyl-	11.91	0.66	JN

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW5

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00581 Date Received: 04/22/2005

Lab File ID: PJ32C581 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	1.2	
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	6.5	
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	6.6	
156-59-2	cis-1,2-Dichloroethene	0.30	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW5

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00581 Date Received: 04/22/2005

Lab File ID: PJ32C581 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW5

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00581 Date Received: 04/22/2005

Lab File ID: PJ32C581 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 6

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	75456	Methane, chlorodifluoro-	3.19	2.3	JN
2	420564	Silane, fluorotrimethyl-	4.71	58	JN
3	60297	Ethyl ether	6.83	0.71	JN
4	109875	Methane, dimethoxy-	7.40	0.98	JN
5	75650	2-Propanol, 2-methyl-	8.52	7.0	JN
6	590863	Butanal, 3-methyl-	11.92	0.83	JN

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW6

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00582 Date Received: 04/22/2005

Lab File ID: PJ27C582 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW6

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00582 Date Received: 04/22/2005

Lab File ID: PJ27C582 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW6

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00582 Date Received: 04/22/2005

Lab File ID: PJ27C582 Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 8

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	75456	Methane, chlorodifluoro-	3.20	0.86	JN
2	420564	Silane, fluorotrimethyl-	4.72	130	JN
3	109875	Methane, dimethoxy-	7.41	0.85	JN
4	75650	2-Propanol, 2-methyl-	8.53	3.8	JN
5	1066406	Silanol, trimethyl-	10.38	20	JN
6	2094975	1,3-Oxathiolane	15.96	0.83	JN
7	625252	2-Heptanol, 2-methyl-	17.45	0.57	JN
8		Unknown Siloxane	18.80	1.2	J

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230961-1 Date Received:

Lab File ID: PJ24BLK Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230961-1 Date Received:

Lab File ID: PJ24BLK Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230961-1 Date Received:

Lab File ID: PJ24BLK Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230961-2 Date Received:

Lab File ID: PJ39HBLK Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
150-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230961-2 Date Received:

Lab File ID: PJ39HBLK Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230961-2 Date Received:

Lab File ID: PJ39HBLK Date Analyzed: 04/27/2005

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: DB-624 ID: 0.53 (MM) Length: 75 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q

2LCC

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
1	E2BT7	73	68	73	70	73	73	73	20
2	E2BT8	70	70	73	70	75	78	78	0 *
3	E2BW0	75	75	73	70	73	80	80	24
4	E2BW2	75	78	70	70	85	100	88	53
5	E2BW3	80	83	78	80	78	93	88	1 *
6	E2BW4	73	83	73	70	68	75	70	3 *
7	E2BW5	75	85	73	78	70	80	80	2 *
8	E2BW6	83	95 *	73	78	70	83	78	9
9	E2BT7MS	60	68	65	70	70	73	70	18
10	E2BT7MSD	65	73	70	75	73	80	78	30
11	SBLK01	75	73	78	70	78	83	83	14

		QC LIMITS
SDMC1 (PHL)	= Phenol-d5	(10-110)
SDMC2 (BCE)	= bis-(2-Chloroethyl)eth	(41-94)
SDMC3 (2CP)	= 2-Chlorophenol-d4	(33-110)
SDMC4 (4MP)	= 4-Methylphenol-d8	(38-95)
SDMC5 (NBZ)	= Nitrobenzene-d5	(35-114)
SDMC6 (2NP)	= 2-Nitrophenol-d4	(40-106)
SDMC7 (DCP)	= 2,4-Dichlorophenol-d3	(42-98)
SDMC8 (4CA)	= 4-Chloroaniline-d4	(8-70)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D DMC diluted out.

2LCD

LOW CONCENTRATION WATER SEMIVOLATILE

DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
1	E2BT7	85	78	93	83	78	80	80	58	0
2	E2BT8	83	73	78	83	78	73	78	25 *	2
3	E2BW0	85	80	90	85	88	83	80	60	0
4	E2BW2	60 *	60	1 *	70	58	78	90	43 *	3
5	E2BW3	80	75	83	85	75	83	85	35 *	2
6	E2BW4	73	68	63	75	65	70	80	35 *	2
7	E2BW5	83	78	3 *	88	58	65	78	28 *	3
8	E2BW6	80	73	2 *	80	63	70	90	38 *	3
9	E2BT7MS	80	78	83	83	78	83	75	60	0
10	E2BT7MSD	85	83	98	90	88	85	80	55	0
11	SBLK01	90	85	93	90	95	98	85	83	0

		QC LIMITS
SDMC9 (DMP)	= Dimethylphthalate-d6	(62-102)
SDMC10 (ACY)	= Acenaphthylene-d8	(49-98)
SDMC11 (4NP)	= 4-Nitrophenol-d4	(9-181)
SDMC12 (FLR)	= Fluorene-d10	(50-97)
SDMC13 (NMP)	= 4,6-Dinitro-methylphe	(53-153)
SDMC14 (ANC)	= Anthracene-d10	(55-116)
SDMC15 (PYR)	= Pyrene-d10	(47-114)
SDMC16 (BAP)	= Benzo(a)pyrene-d12	(54-120)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D DMC diluted out.

3LCB

LOW CONCENTRATION WATER SEMIVOLATILE

MATRIX SPIKE /

MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

Matrix Spike - EPA Sample No.: E2BT7

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
Phenol	80.00	0	46	58	12-110
2-Chlorophenol	80.00	0	48	60	27-123
N-Nitroso-di-n-prop. (1)	20.00	0	18	90	41-116
4-Chloro-3-methylphenol	80.00	0	58	73	23-97
Acenaphthene	20.00	0	17	85	46-118
4-Nitrophenol	80.00	0	57	71	10-80
2,4-Dinitrotoluene	20.00	0	17	85	24-96
Pentachlorophenol	80.00	0	74	93	9-103
Pyrene	20.00	0	16	80	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	80.00	50	63	8	42	12-110
2-Chlorophenol	80.00	51	64	6	40	27-123
N-Nitroso-di-n-prop. (1)	20.00	19	95	5	38	41-116
4-Chloro-3-methylphenol	80.00	64	80	9	42	23-97
Acenaphthene	20.00	18	90	6	31	46-118
4-Nitrophenol	80.00	62	78	9	50	10-80
2,4-Dinitrotoluene	20.00	19	95	11	38	24-96
Pentachlorophenol	80.00	82	103	10	50	9-103
Pyrene	20.00	16	80	0	31	26-127

Column to be used to flag recovery and RPD values with an asterisk.

* Values outside of QC limits.

RPD: 0 out of 9 outside limits

Spike Recovery: 0 out of 18 outside limits

Comments:

4LCB

LOW CONCENTRATION WATER

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

Lab Sample ID: BL-230962-1 Date Extracted: 04/25/2005

Lab File ID: RFS03BLK Date Analyzed: 04/26/2005

Instrument ID: 5972-R Time Analyzed: 16:21

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	E2BT7	05C00574	RFS05C74	04/26/2005
2	E2BT8	05C00575	RFS08C75	04/26/2005
3	E2BW0	05C00576	RFS09C76	04/26/2005
4	E2BW2	05C00578	RFS10C78	04/26/2005
5	E2BW3	05C00579	RFS11C79	04/26/2005
6	E2BW4	05C00580	RFS12C80	04/26/2005
7	E2BW5	05C00581	RFS13C81	04/26/2005
8	E2BW6	05C00582	RFS14C82	04/26/2005
9	E2BT7MS	05C00574MS	RFS06S74	04/26/2005
10	E2BT7MSD	05C00574MSD	RFS07D74	04/26/2005

Comments:

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574

Date Received: 04/22/2005

Lab File ID: RFS05C74

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	0.31	J
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	1.7	J
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	0.45	J
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00574
Date Received: 04/22/2005
Lab File ID: RFS05C74
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	1.8	J
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	0.62	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.56	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT7

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574

Date Received: 04/22/2005

Lab File ID: RFS05C74

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

Number TICs found: 6

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	111773	Ethanol, 2-(2-methoxyethoxy)	3.77	2.1	JN
2	124072	Octanoic Acid	5.51	3.6	JN
3		UNKNOWN ACID	6.32	2.1	J
4		UNKNOWN ACID	7.42	3.9	J
5		POLYCYCLIC HYDROCARBON	18.30	6.6	BJ
6		POLYCYCLIC HYDROCARBON	23.07	11	BJ

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MS

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00574MS
Date Received: 04/22/2005
Lab File ID: RFS06S74
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	46	
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	48	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	18	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	0.20	J
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	1.4	J
59-50-7	4-Chloro-3-methylphenol	58	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	0.34	J
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	17	

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MS

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MS

Date Received: 04/22/2005

Lab File ID: RFS06S74

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	57	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	17	
84-66-2	Diethylphthalate	1.6	J
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	74	
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	0.56	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	16	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.7	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MSD

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MSD

Date Received: 04/22/2005

Lab File ID: RFS07D74

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	50	
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	51	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	19	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	0.72	J
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	4.5	J
59-50-7	4-Chloro-3-methylphenol	64	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	1.3	J
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	18	

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MSD

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00574MSD
Date Received: 04/22/2005
Lab File ID: RFS07D74
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	62	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	19	
84-66-2	Diethylphthalate	4.9	J
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	82	E
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	1.3	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	16	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.46	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT8

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00575

Date Received: 04/22/2005

Lab File ID: RFS08C75

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	0.50	J
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT8

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00575
Date Received: 04/22/2005
Lab File ID: RFS08C75
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BT8

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00575
Date Received: 04/22/2005
Lab File ID: RFS08C75
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)
Number TICs found: 22

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1		Column bleed product	3.59	2.3	J
2		UNKNOWN OXYHYDROCARBON	3.65	4.7	J
3	930687	2-Cyclohexen-1-one	3.82	3.0	JNB
4	14667551	Pyrazine, trimethyl-	4.32	3.4	JN
5		UNKNOWN OXYHYDROCARBON	4.65	2.2	J
6	15707343	2,3-Dimethyl-5-ethylpyrazine	4.95	7.9	JN
7		UNSATURATED HYDROCARBON	5.19	3.2	J
8	4394858	N-Formylmorpholine	5.29	3.1	JN
9		UNKNOWN ACID	5.47	5.9	J
10		UNKNOWN ACID	5.62	3.5	J
11		UNSATURATED HYDROCARBON	5.75	3.1	J
12		UNSATURATED HYDROCARBON	6.07	3.7	J
13		UNSATURATED HYDROCARBON	6.14	2.1	J
14	95169	Benzothiazole	6.24	3.2	JN
15	1551344	Thiophane, propyl-	6.40	6.2	JN
16		UNKNOWN OXYHYDROCARBON	6.44	4.7	J
17		UNKNOWN ACID	6.66	2.8	J
18		UNSATURATED HYDROCARBON	7.40	2.1	J
19		UNSATURATED HYDROCARBON	7.77	3.1	J
20	934349	2(3H)-Benzothiazolone	10.17	6.3	JN
21		POLYCYCLIC HYDROCARBON	18.31	7.2	BJ
22		POLYCYCLIC HYDROCARBON	23.09	17	BJ

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW0

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00576
Date Received: 04/22/2005
Lab File ID: RFS09C76
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	0.35	J
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW0

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00576
Date Received: 04/22/2005
Lab File ID: RFS09C76
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW0

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: _____ SDG No.: E2BT7

Lab Sample ID: 05C00576

Date Received: 04/22/2005

Lab File ID: RFS09C76

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

Number TICs found: 5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	930687	2-Cyclohexen-1-one	3.82	2.0	JNB
2		UNKNOWN ALCOHOL	11.83	2.7	J
3	57103	n-Hexadecanoic acid	12.31	2.4	JN
4		POLYCYCLIC HYDROCARBON	18.31	7.2	BJ
5		POLYCYCLIC HYDROCARBON	23.08	12	BJ

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW2

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: _____ SDG No.: E2BT7
Lab Sample ID: 05C00578
Date Received: 04/22/2005
Lab File ID: RFS10C78
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	1.2	J
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW2

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00578 Date Received: 04/22/2005

Lab File ID: RFS10C78 Date Extracted: 04/25/2005

Sample Volume: 1000 (ML) Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW2

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00578
Date Received: 04/22/2005
Lab File ID: RFS10C78
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)
Number TICs found: 30

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1		UNKNOWN ACID	3.74	4.9	J
2	590863	Butanal, 3-methyl-	3.82	7.3	JN
3		UNKNOWN OXYHYDROCARBON	3.94	5.3	J
4		UNKNOWN ACID	3.98	10	J
5		UNKNOWN OXYHYDROCARBON	4.36	2.8	J
6	78671	Propanenitrile, 2,2'-azobis[	4.50	14	JN
7		UNKNOWN ACID	4.54	9.4	J
8		UNSATURATED HYDROCARBON	4.67	5.0	J
9		UNKNOWN ACID	4.90	9.9	J
10	597353	Diethyl sulfone	4.96	6.6	JN
11		UNKNOWN ACID	5.13	20	J
12		UNKNOWN ACID	5.21	4.1	J
13		UNSATURATED HYDROCARBON	5.30	7.0	J
14		UNSATURATED HYDROCARBON	5.45	19	J
15	464482	Bicyclo[2.2.1]heptan-2-one,	5.56	2.8	JN
16		UNSATURATED HYDROCARBON	6.09	7.3	J
17		UNKNOWN OXYHYDROCARBON	6.19	8.2	J
18		UNKNOWN ACID	6.43	9.4	J
19		UNKNOWN OXYHYDROCARBON	6.49	4.0	J
20		UNKNOWN ACID	6.83	3.4	J
21	80535	Cyclohexanemethanol, 4-hydro	6.96	6.9	JN
22		UNSATURATED HYDROCARBON	7.04	3.9	J
23	499069	Benzoic acid, 3,5-dimethyl-	7.36	3.6	JN
24	2948461	.alpha.,.alpha.,.alpha.',.al	8.64	2.4	JN
25		POLYCYCLIC HYDROCARBON	8.85	5.2	J
26	1421494	Benzoic acid, 3,5-bis(1,1-di	11.86	14	JN
27	57103	n-Hexadecanoic acid	12.33	3.9	JN
28	100023930	3-(3,5-di-tert-butyl-4-hydro	12.57	52	JN
29		UNKNOWN OXYHYDROCARBON	14.35	55	J
30		POLYCYCLIC HYDROCARBON	18.31	6.1	BJ

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW3

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00579

Date Received: 04/22/2005

Lab File ID: RFS11C79

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	1.1	J
108-95-2	Phenol	0.77	J
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	0.42	J
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	0.52	J
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW3

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00579

Date Received: 04/22/2005

Lab File ID: RFS11C79

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	4.5	J
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW3

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00579
Date Received: 04/22/2005
Lab File ID: RFS11C79
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)
Number TICs found: 30

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	617845	Formamide, N,N-diethyl-	3.81	3.5	JN
2		UNKNOWN OXYHYDROCARBON	4.37	5.8	J
3	5704201	2-Hydroxy-3-pentanone	4.58	3.3	JN
4		UNKNOWN OXYHYDROCARBON	4.64	5.8	J
5		UNKNOWN ACID	5.12	7.7	J
6		UNKNOWN OXYHYDROCARBON	5.21	2.8	J
7	2679870	Butane, 2-ethoxy-	5.49	5.2	JN
8		UNKNOWN OXYHYDROCARBON	5.57	2.6	J
9		UNKNOWN ACID	5.77	17	J
10		UNKNOWN ACID	6.31	4.0	J
11		UNKNOWN ACID	6.38	5.2	J
12		UNKNOWN OXYHYDROCARBON	6.45	2.3	J
13	3748138	Benzene, 1,3-bis(1-methyleth	6.54	4.4	JN
14	585342	Phenol, m-tert-butyl-	6.66	6.0	JN
15		UNKNOWN OXYHYDROCARBON	6.85	3.9	J
16	85449	Phthalic anhydride	6.93	2.4	JN
17		UNKNOWN OXYHYDROCARBON	7.06	2.9	J
18	603792	Benzoic acid, 2,3-dimethyl-	7.14	2.2	JN
19	499069	Benzoic acid, 3,5-dimethyl-	7.26	5.5	JN
20		UNKNOWN OXYHYDROCARBON	7.33	21	J
21	38861788	4'-(2-Methylpropyl)acetophen	7.39	4.0	JN
22		POLYCYCLIC HYDROCARBON	7.72	2.5	J
23	480637	Benzoic acid, 2,4,6-trimethy	7.78	5.2	JN
24		UNKNOWN OXYHYDROCARBON	7.96	2.0	J
25		UNKNOWN SULFUR COMPOUND	8.97	7.2	J
26	19900846	Methoxymethyl isothiocyanate	9.71	4.1	JN
27	1421494	Benzoic acid, 3,5-bis(1,1-di	11.85	4.1	JN
28	57103	n-Hexadecanoic acid	12.33	5.9	JN
29	100023930	3-(3,5-di-tert-butyl-4-hydro	12.54	5.6	JN
30		UNKNOWN KETONE	14.39	9.9	J

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW4

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00580
Date Received: 04/22/2005
Lab File ID: RFS12C80
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	1.1	J
108-95-2	Phenol	0.48	J
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	0.23	J
106-44-5	4-Methylphenol	0.35	J
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW4

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00580

Date Received: 04/22/2005

Lab File ID: RFS12C80

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.76	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW4

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00580
Date Received: 04/22/2005
Lab File ID: RFS12C80
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)
Number TICs found: 30

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	930687	2-Cyclohexen-1-one	3.81	3.5	JNB
2		UNKNOWN ACID	4.58	3.0	J
3		UNKNOWN ACID	4.64	4.8	J
4		UNKNOWN OXYHYDROCARBON	4.72	2.2	J
5		UNKNOWN ACID	5.11	5.4	J
6		UNKNOWN ACID	5.21	2.6	J
7	3302101	Hexanoic acid, 3,5,5-trimeth	5.33	22	JN
8		UNKNOWN OXYHYDROCARBON	5.48	4.2	J
9	65850	Benzoic Acid	5.56	2.6	JN
10		UNKNOWN ACID	5.75	13	J
11		UNKNOWN OXYHYDROCARBON	6.07	4.0	J
12		UNKNOWN ACID	6.29	3.6	J
13	32503994	Thiazolidine, 3-acetyl-2-met	6.35	4.2	JN
14		UNKNOWN OXYHYDROCARBON	6.44	2.4	J
15	95177450	Benzene, (2-methylenecyclope	6.53	3.7	JN
16	98544	Phenol, p-tert-butyl-	6.66	5.7	JN
17		UNKNOWN OXYHYDROCARBON	6.85	3.8	J
18	85449	Phthalic anhydride	6.93	2.2	JN
19		UNKNOWN OXYHYDROCARBON	7.04	2.8	J
20		UNKNOWN OXYHYDROCARBON	7.32	15	J
21	480637	Benzoic acid, 2,4,6-trimethy	7.76	6.2	JN
22		UNKNOWN SULFUR COMPOUND	8.97	4.4	J
23		UNKNOWN OXYHYDROCARBON	9.70	3.5	J
24	54308644	4-Pyrimidinamine, 5-methyl-2	11.58	4.0	JN
25	1421494	Benzoic acid, 3,5-bis(1,1-di	11.84	3.0	JN
26	57103	n-Hexadecanoic acid	12.33	4.9	JN
27	100023930	3-(3,5-di-tert-butyl-4-hydro	12.53	3.8	JN
28		UNKNOWN OXYHYDROCARBON	14.39	13	J
29		POLYCYCLIC HYDROCARBON	18.32	6.2	BJ
30		POLYCYCLIC HYDROCARBON	23.10	11	BJ

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW5

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00581

Date Received: 04/22/2005

Lab File ID: RFS13C81

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	1.3	J
108-95-2	Phenol	0.79	J
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	0.21	J
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	1.2	J
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	0.56	J
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	1.5	J

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW5

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00581
Date Received: 04/22/2005
Lab File ID: RFS13C81
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW5

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00581
Date Received: 04/22/2005
Lab File ID: RFS13C81
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)
Number TICs found: 30

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1		Column bleed product	3.59	10	J
2		UNKNOWN OXYHYDROCARBON	3.65	8.0	J
3		UNKNOWN OXYHYDROCARBON	3.76	2.6	J
4		UNKNOWN OXYHYDROCARBON	3.84	4.6	J
5		UNKNOWN OXYHYDROCARBON	3.98	2.2	J
6	14667551	Pyrazine, trimethyl-	4.33	4.8	JN
7	78671	Propanenitrile, 2,2'-azobis[	4.50	14	JN
8		UNKNOWN OXYHYDROCARBON	4.58	2.1	J
9		UNKNOWN OXYHYDROCARBON	5.12	3.0	J
10		UNKNOWN ACID	5.16	2.4	J
11		UNKNOWN ACID	5.30	9.2	J
12	10471144	Ethane, 1-ethoxy-1-methoxy-	5.73	15	JN
13		UNKNOWN OXYHYDROCARBON	5.81	20	J
14		UNKNOWN ACID	6.28	2.3	J
15		UNKNOWN OXYHYDROCARBON	6.49	6.0	J
16	3748138	Benzene, 1,3-bis(1-methyleth	6.54	4.1	JN
17	98544	Phenol, p-tert-butyl-	6.67	3.9	JN
18		UNKNOWN OXYHYDROCARBON	6.73	4.7	J
19	3944374	1-Propanol, 2-(1-methylethox	6.88	4.4	JN
20		UNKNOWN OXYHYDROCARBON	6.98	3.8	J
21		UNKNOWN OXYHYDROCARBON	7.11	6.8	J
22		UNKNOWN OXYHYDROCARBON	7.37	9.3	J
23		UNSATURATED HYDROCARBON	7.57	3.0	J
24	480637	Benzoic acid, 2,4,6-trimethy	7.83	3.3	JN
25		UNKNOWN OXYHYDROCARBON	8.13	5.3	J
26		UNKNOWN OXYHYDROCARBON	8.34	8.3	J
27		UNKNOWN ACID	8.86	3.4	J
28		UNKNOWN OXYHYDROCARBON	9.74	5.6	J
29	100023930	3-(3,5-di-tert-butyl-4-hydro	12.57	16	JN
30		POLYCYCLIC HYDROCARBON	14.45	39	J

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW6

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00582

Date Received: 04/22/2005

Lab File ID: RFS14C82

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	0.96	J
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	8.3	

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW6

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00582

Date Received: 04/22/2005

Lab File ID: RFS14C82

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	0.43	J
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	0.29	J
129-00-0	Pyrene	0.36	J
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E2BW6

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: 05C00582
Date Received: 04/22/2005
Lab File ID: RFS14C82
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)
Number TICs found: 30

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1		UNKNOWN OXYHYDROCARBON	3.65	6.4	J
2		UNKNOWN ALCOHOL	3.78	2.1	J
3		UNKNOWN AMIDE	3.82	4.3	J
4		UNSATURATED HYDROCARBON	3.98	4.0	J
5	78671	Propanenitrile, 2,2'-azobis[	4.50	17	JN
6		UNKNOWN OXYHYDROCARBON	4.58	2.8	J
7		UNKNOWN OXYHYDROCARBON	4.68	2.4	J
8		UNKNOWN OXYHYDROCARBON	5.12	7.6	J
9	78400	Triethyl phosphate	5.23	4.4	JN
10		UNKNOWN OXYHYDROCARBON	5.48	9.6	J
11		UNSATURATED HYDROCARBON	5.63	5.3	J
12		UNKNOWN ACID	5.77	16	J
13	54774844	Heptanoic acid, 2,5-diethyl-	6.03	2.2	JN
14		UNKNOWN OXYHYDROCARBON	6.11	2.4	J
15		UNKNOWN OXYHYDROCARBON	6.31	5.9	J
16		UNKNOWN OXYHYDROCARBON	6.44	2.7	J
17	585342	Phenol, m-tert-butyl-	6.67	3.5	JN
18		UNSATURATED HYDROCARBON	6.73	4.5	J
19		UNSATURATED HYDROCARBON	6.87	2.6	J
20		POLYCYCLIC HYDROCARBON	6.97	3.8	J
21		UNKNOWN OXYHYDROCARBON	7.10	6.8	J
22		UNKNOWN OXYHYDROCARBON	7.35	6.3	J
23		UNSATURATED HYDROCARBON	7.55	5.7	J
24	480637	Benzoic acid, 2,4,6-trimethy	7.81	3.9	JN
25	111900	Ethanol, 2-(2-ethoxyethoxy)-	8.11	6.2	JN
26		UNKNOWN OXYHYDROCARBON	8.84	8.3	J
27	134623	Diethyltoluamide	9.26	3.8	JN
28		UNKNOWN OXYHYDROCARBON	9.72	2.9	J
29	100023930	3-(3,5-di-tert-butyl-4-hydro	12.56	11	JN
30		POLYCYCLIC HYDROCARBON	14.43	21	J

1LCC

LOW CONCENTRATION WATER SEMIVOLATILE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230962-1

Date Received:

Lab File ID: RFS03BLK

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: DATACHEM LABS
Contract: 68W01045
Lab Code: DATAC Case No.: 34107
Client No.: SDG No.: E2BT7
Lab Sample ID: BL-230962-1
Date Received:
Lab File ID: RFS03BLK
Date Extracted: 04/25/2005
Sample Volume: 1000 (ML)
Date Analyzed: 04/26/2005
Concentrated Extract Volume: 1000 (UL)
Dilution Factor: 1.00
Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230962-1

Date Received:

Lab File ID: RFS03BLK

Date Extracted: 04/25/2005

Sample Volume: 1000 (ML)

Date Analyzed: 04/26/2005

Concentrated Extract Volume: 1000 (UL)

Dilution Factor: 1.00

Injection Volume: 1.0 (UL)

Number TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1	930687	2-Cyclohexen-1-one	3.83	2.0	JN
2		POLYCYCLIC HYDROCARBON	18.30	7.4	J
3		POLYCYCLIC HYDROCARBON	23.07	15	J

2LCE

LOW CONCENTRATION WATER

PESTICIDE SURROGATE RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

GC Column (1): DB608 ID: 0.53 (MM) GC Column (2): DB1701 ID: 0.53 (MM)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1	PBLKW1	116	113	126	120			0
2	E2BT7	43	52	107	99			0
3	E2BT8	41	0 *	76	73			1
4	E2BW0	37	44	111	108			0
5	E2BW2	47	466 *	81	80			1
6	E2BW3	30	104	111	101			0
7	E2BW4	50	100	81	74			0
8	E2BW5	19 *	95	109	101			1
9	E2BW6	23 *	107	89	89			1
10	PLCSW1	93	94	112	98			0
11	E2BT7MS	59	56	97	88			0
12	E2BT7MSD	57	61	119	108			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values.
* Values outside of QC limits.
D Surrogate diluted out.

3LCC

LOW CONCENTRATION WATER PESTICIDE

MATRIX SPIKE /

MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

Matrix Spike - EPA Sample No.: E2BT7

Instrument ID: GC21A GC Column: DB608 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.100	0	0.0742	74	56-123
Heptachlor	0.100	0	0.0902	90	40-131
Aldrin	0.100	0	0.103	103	40-120
Dieldrin	0.200	0.000756	0.200	100	52-126
Endrin	0.200	0	0.216	108	56-121
4,4'-DDT	0.200	0	0.215	108	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.100	0.0764	76	3	15	56-123
Heptachlor	0.100	0.0936	94	4	20	40-131
Aldrin	0.100	0.103	103	0	22	40-120
Dieldrin	0.200	0.208	104	4	18	52-126
Endrin	0.200	0.223	112	4	21	56-121
4,4'-DDT	0.200	0.224	112	4	27	38-127

Column to be used to flag recovery and RPD values with an asterisk.

* Values outside of QC limits.

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

Comments:

3LCC

LOW CONCENTRATION WATER PESTICIDE

MATRIX SPIKE /

MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: _____ SDG No.: E2BT7

Matrix Spike - EPA Sample No.: E2BT7

Instrument ID: GC21B GC Column: DB1701 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.100	0	0.0834	83	56-123
Heptachlor	0.100	0	0.0750	75	40-131
Aldrin	0.100	0	0.0857	86	40-120
Dieldrin	0.200	0.00238	0.191	94	52-126
Endrin	0.200	0	0.184	92	56-121
4,4'-DDT	0.200	0	0.207	104	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.100	0.0850	85	2	15	56-123
Heptachlor	0.100	0.0764	76	1	20	40-131
Aldrin	0.100	0.0883	88	2	22	40-120
Dieldrin	0.200	0.197	97	3	18	52-126
Endrin	0.200	0.187	94	2	21	56-121
4,4'-DDT	0.200	0.212	106	2	27	38-127

Column to be used to flag recovery and RPD values with an asterisk.

* Values outside of QC limits.

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

Comments:

3LCD

LOW CONCENTRATION WATER PESTICIDE

LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSW1

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 34107 Client No.: SDG No.: E2BT7

Lab Sample ID: QC-230966-1 LCS Lot No.:

LCS Aliquot: (UL) Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL) Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Instrument ID (1): GC21A GC Column (1): DB608 ID: 0.53 (MM)

COMPOUND	AMOUNT ADDED (NG)	AMOUNT RECOVERED (NG)	% REC #	QC LIMITS
gamma-BHC (Lindane)	0.100	0.0708	71	50-120
Heptachlor epoxide	0.100	0.112	112	50-150
Dieldrin	0.200	0.230	115	30-130
4,4'-DDE	0.200	0.179	90	50-150
Endrin	0.200	0.222	111	50-120
Endosulfan sulfate	0.200	0.223	112	50-120
gamma-Chlordane	0.100	0.0789	79	30-130

Instrument ID (2): GC21B GC Column (2): DB1701 ID: 0.53 (MM)

COMPOUND	AMOUNT ADDED (NG)	AMOUNT RECOVERED (NG)	% REC #	QC LIMITS
gamma-BHC (Lindane)	0.100	0.0957	96	50-120
Heptachlor epoxide	0.100	0.106	106	50-150
Dieldrin	0.200	0.228	114	30-130
4,4'-DDE	0.200	0.233	117	50-150
Endrin	0.200	0.186	93	50-120
Endosulfan sulfate	0.200	0.216	108	50-120
gamma-Chlordane	0.100	0.0961	96	30-130

Column to be used to flag recovery values with an asterisk.

* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 14 total.

4LCC

LOW CONCENTRATION WATER

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKW1

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Date Extracted: 04/26/2005

Lab Sample ID: BL-230966-1

Date Analyzed (1): 05/05/2005

Date Analyzed (2): 05/05/2005

Time Analyzed (1): 07:53

Time Analyzed (2): 08:43

Instrument ID (1): GC21A

Instrument ID (2): GC21B

GC Column (1): DB608 ID: 0.53 (MM)

GC Column (2): DB1701 ID: 0.53 (MM)

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) SepF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	E2BT7	05C00574	05/05/2005	05/05/2005
2	E2BT8	05C00575	05/05/2005	05/05/2005
3	E2BW0	05C00576	05/05/2005	05/05/2005
4	E2BW2	05C00578	05/05/2005	05/05/2005
5	E2BW3	05C00579	05/05/2005	05/05/2005
6	E2BW4	05C00580	05/05/2005	05/05/2005
7	E2BW5	05C00581	05/05/2005	05/05/2005
8	E2BW6	05C00582	05/05/2005	05/05/2005
9	PLCSW1	QC-230966-1	05/05/2005	05/05/2005
10	E2BT7MS	05C00574MS	05/05/2005	05/05/2005
11	E2BT7MSD	05C00574MSD	05/05/2005	05/05/2005

Comments:

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.00065	J
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.00076	JP
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.00045	JP
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.00025	JP
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MS(1)

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MS

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.074	
76-44-8	Heptachlor	0.090	
309-00-2	Aldrin	0.10	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.20	
72-55-9	4,4'-DDE	0.0029	J
72-20-8	Endrin	0.22	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.0039	JP
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.22	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.0040	JP
7421-93-4	Endrin aldehyde	0.013	JP
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MS(2)

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MS

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.083	
76-44-8	Heptachlor	0.075	
309-00-2	Aldrin	0.086	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.19	
72-55-9	4,4'-DDE	0.0026	J
72-20-8	Endrin	0.18	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.0021	JP
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.21	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.0016	JP
7421-93-4	Endrin aldehyde	0.0019	JP
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MSD(1)

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MSD

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.076	
76-44-8	Heptachlor	0.094	
309-00-2	Aldrin	0.10	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.21	
72-55-9	4,4'-DDE	0.0032	J
72-20-8	Endrin	0.22	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.0037	JP
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.22	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.0048	JP
7421-93-4	Endrin aldehyde	0.013	JP
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT7MSD(2)

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00574MSD

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.085	
76-44-8	Heptachlor	0.076	
309-00-2	Aldrin	0.088	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.20	
72-55-9	4,4'-DDE	0.0027	J
72-20-8	Endrin	0.19	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.0019	JP
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.21	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.0018	JP
7421-93-4	Endrin aldehyde	0.0045	JP
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BT8

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00575

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.0057	JP
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.0037	JP
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.0043	JP
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.00095	JP
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW0

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00576

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.00026	J
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.00029	JP
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW2

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00578

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.00072	JP
309-00-2	Aldrin	0.0014	JP
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.00056	JP
60-57-1	Dieldrin	0.0026	JP
72-55-9	4,4'-DDE	0.00050	JP
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.0028	JP
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW3

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00579

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.00094	JP
309-00-2	Aldrin	0.0041	J
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.00079	JP
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.00050	JP
33213-65-9	Endosulfan II	0.0016	J
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.0014	JP
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW4

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00580

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.0010	JP
309-00-2	Aldrin	0.00068	JP
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.0011	JP
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW5

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00581

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.00073	JP
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.00097	JP
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.0013	JP
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.00059	J
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.00068	JP
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2BW6

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: 05C00582

Date Received: 04/22/2005

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.0031	JP
76-44-8	Heptachlor	0.00096	JP
309-00-2	Aldrin	0.0023	JP
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.0014	JP
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.00065	JP
33213-65-9	Endosulfan II	0.0037	J
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE

LOW CONCENTRATION WATER PESTICIDE

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW1

Lab Name: DATACHEM LABS

Contract: 68W01045

Lab Code: DATAC Case No.: 34107

Client No.: SDG No.: E2BT7

Lab Sample ID: BL-230966-1

Date Received:

Sample Volume: 1000 (ML)

Date Extracted: 04/26/2005

Concentrated Extract Volume: 2000 (UL)

Date Analyzed: 05/05/2005

Injection Volume: 2.00 (UL)

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Extraction: (Sepf/Cont) Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2BT7 CERCLIS No: IND077005916

Case No: 34107 Site Name/Location: Gary Devlp. LF

Contractor or EPA Lab: Data Chem Data User: IDEM

No. of Samples: 9 Date Sampled or Date Received: 5/13/05

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Michelle Davis Date: 5/13/05

Received by LSSS: Michelle D Date: 5/13/05

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: ____ Date: ____

Mailed to user by: Michelle Davis Date: 5/19/05

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5/13/05

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Gary Development Landfill, IN

CASE NUMBER: 34107 SDG NUMBER: E2BT7

Number and Type of Samples: 9 water samples

Sample Numbers: E2BT7, 8; E2BW0-6

Laboratory: Data Chem Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

MAY 1 3 2005

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: DataChem Laboratories, Inc. Contract No.: 68-W-01-045

Lab Code: DATAC Case No.: 34107 Delivery Order No. A3

Full Sample Analysis Price in Contract: $595.00

SDG No./First Sample in SDG: E2BT7 Sample Receipt Date: 04/22/05
(Lowest EPA Sample Number in first shipment received under SDG.)

Last Sample in SDG: E2BW6 Sample Receipt Date: 04/22/05
(Highest EPA Sample Number in last shipment of samples received under SDG.)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1. E2BT7	11.
2. E2BT8	12.
3. E2BW0	13.
4. E2BW1	14.
5. E2BW2	15.
6. E2BW3	16.
7. E2BW4	17.
8. E2BW5	18.
9. E2BW6	19.
10. 4/26/05	20.

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Justin Pate
Sample Receiving

4/26/2005
Date

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

EPA

Case No: 34107
DAS No:
SDG No: E2BT7 **L**

Date Shipped:	4/20/2005
Carrier Name:	FedEx
Airbill:	811417266119
Shipped to:	Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4-21-05 / 1:00PM	[illegible]	4/21/05 1:00
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68-W-01-045
Unit Price:	595.00
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E2BT7	Ground Water/ Trevor Fuller	L/G	VOA (21)	5244338 (HCL), 5244339 (HCL), 5244340 (HCL) (3)	GW1-7 ft	S: 4/20/2005	13:35		
E2BT8	Surface Water/ Mark Jaworski	L/G	BNA (21), PEST (21), VOA (21)	5244355 (Ice Only), 5244356 (Ice Only), 5244357 (Ice Only), 5244358 (Ice Only), 5244361 (Ice Only) (5)	SW1	S: 4/20/2005	18:00		
E2BW0	Ground Water/ Trevor Fuller	L/G	BNA (21), PEST (21), VOA (21)	5244341 (Ice Only), 5244342 (Ice Only), 5244343 (Ice Only), 5244344 (Ice Only), 5244345 (HCL) (5)	GW1- 14-16	S: 4/20/2005	16:30		
E2BW1	Ground Water/ Trevor Fuller	L/G	VOA (21)	5245161 (HCL) (1)	GW10	S: 4/20/2005	7:00		

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Cooler Temperature Upon Receipt:** 5°	**Chain of Custody Seal Number:** 185654 / 185655
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G		**Custody Seal Intact?** Y **Shipment Iced?** Y

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

TR Number: **5-342946689-042005-0002**

LABORATORY COPY

PR provides prelim results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sa Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 70 -9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 34107
DAS No:
SDG No: E2BT7 L

Date Shipped:	4/20/2005
Carrier Name:	FedEx
Airbill:	811417266093
Shipped to:	Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/21/05 1200	[illegible]	4/22/05 [illegible]
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68-W-01-045
Unit Price:	595.00
Transfer To:	
Lab Contract No:	
Unit Price:	

4/22/05

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E2BT7	Ground Water/ Trevor Fuller	L/G	BNA (21), PEST (21)	5244326 (Ice Only), 5244327 (Ice Only), 5244328 (Ice Only), 5244329 (Ice Only), 5244330 (Ice Only), 5244331 (Ice Only), 5244332 (Ice Only), 5244333 (Ice Only), 5244334 (Ice Only), 5244335 (Ice Only), 5244336 (Ice Only), 5244337 (Ice Only) (12)	GW1-7 ft	S: 4/20/2005 13:35		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°	Chain of Custody Seal Number: 185656/185657
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs

TR Number: **5-342946689-042005-0001**

PR provides prelimi results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sar Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 70 -9348 Fax 703/264-9222

MAY 1 3 2005

DATA CHEM
LABORATORIES
A SORENSON COMPANY

SDG Narrative
Volatiles

Contract: 68W01045
Case: 34107
SDG: E2BT7
Sample No:

EPA Sample No.	DCL Sample ID.	pH	Dilution
E2BT7	05C00574	< 2	
E2BT7MS	05C00574MS	< 2	
E2BT7MSD	05C00574MSD	< 2	
E2BT8	05C00575	< 2	
E2BW0	05C00576	< 2	
E2BW1	05C00577	< 2	
E2BW2	05C00578	6	1:2
E2BW3	05C00579	6	
E2BW4	05C00580	< 2	
E2BW5	05C00581	< 2	
E2BW6	05C00582	< 2	

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work OLC03.2. No deviations from the SOW occurred except as noted below. All samples listed above are billable.

Instrumentation: Hewlett Packard 5972-P GC/MSD with electron impact ionization and quadrupole detector scanning at a mass range of 35 to 300 amu. Column: J&W Scientific DB624 - 75meters, 0.53 mm id., 3 um film
Temperature Program: *10°C (2.0 min) 8°/min ramp to 180° (0.1 min) 60°/min ramp to 220° *Cryogenically cooled with liquid nitrogen
Carrier Gas: Helium Purge Gas: Helium
Purge and Trap Device: Tekmar Dynamic Headspace Concentrator ALS 2016/LSC 2000
Purge Flow: 35 mL/min Trap: Vocarb 3000 Trap Temp: 35°C

Sample Preparation: This method has no extraction procedure for the water matrix. Twenty-five milliliters of water sample was spiked with 5 uL of Internal Standard/DMC Solution and purged. Many of the samples bubbled up when the sample vial was open. Due to bubbling upon opening of sample vials, a 2uL aliquot of an inorganic surfactant was spiked into all samples and blanks.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-Bromofluorobenzene as specified in the SOW. This tune check is valid for 12 hours.

Initial and Continuing Calibration Verification: The five point initial calibration curve, which was analyzed prior to sample analysis, met the specified criteria in the SOW. A continuing calibration standard (CAL) which is used for the quantitation of each target compound was also analyzed prior to sample analysis. The CAL met all method criteria as specified in the SOW. Manual edits were made in the calibration standards for various mis-called peaks. Analytes that required manual integrations are listed.

Sample	Initial Scan	Final Scan	Analyte
VSTD0.5W	476	496	Acetone
VSTD0.5W	550	563	Methyl Acetate
VSTD0.5W	918	941	1,2-Dichloroethane
VSTD0.5W	1875	1897	1,4-Dichlorobenzene
VSTD001W	548	566	Methyl Acetate
VSTD001W	1874	1898	1,4-Dichlorobenzene

Blank Analysis: Method blanks were prepared using 25 mL of spiked reagent water. The blanks were analyzed prior to sample analysis and were free of volatile organic contaminants within the specifications of the SOW. A hold blank was analyzed after all sample analyses were completed and was free of volatile organic contaminants within the specifications of the SOW.

Sample Analysis: All deuterated monitoring compounds and internal standard area responses were within the required acceptance criteria. All samples were analyzed within ten days of verified sample receipt.

MS/MSD Analysis: Matrix spike (MS) and matrix spike duplicate (MSD) analyses for the water samples were performed using sample E2BT7. The matrix spike compounds are 1,1-dichloroethene, benzene, trichloroethene, toluene and chlorobenzene, and are spiked in at a concentrations of 5 ug/L. All percent recoveries and RPD's were within QC limits.

Miscellaneous Comments: Recoveries of target analytes are reported on the CLP Forms in units of ug/L. Alkanes are reported at the end of this SDG Narrative. Samples E2BT8, E2BW3, and E2BW6 appeared to have a soapy nature to them. Samples E2BW2, E2BW4, and E2BW5 bubbled up (like carbonated water) when opened, with E2BW2 actually bubbling over the rim of the sample vial. Sample E2BW2 also appeared to be slightly thicker than normal and was golden in color. Due to the nature of sample E2BW2, the only analysis to be performed was a 1:2 dilution. This was done to protect the integrity of the instrument.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

May 11, 2005

Joseph Gress
Chemist
Volatile Organic Analysis Section

DATA CHEM
LABORATORIES
A SORENSON COMPANY

SDG Narrative
Semivolatiles Fraction

Contract: 68W01045
Case: 34107
SDG: E2BT7
DCL Set ID.: 05C-0072-02
Sample No.: E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work OLC03.2. There is one minor deviation from the SOW involving a TIC in the method blank at a concentration above 10 ug/L. This deviation is explained in the Blank Analysis section below.

Instrumentation: Hewlett-Packard 5973 GC/MS system
Column: J&W Scientific DB-5ms column, 95% dimethyl-(5%)-diphenylsiloxane, nonpolar 30 m x 0.32 mm I.D. with a 0.50 µm film thickness

Sample Preparation: Samples were prepared as stated in the SOW.

Instrument Calibration: (i.e.DFTPP tunes) All tunes met ion intensity ratio requirements. All samples and standards were analyzed within the twelve hour tune period.

Initial and Continuing Calibration Verification: Initial and continuing calibration standards met minimum response factor, RSD and %D criteria.

Blank Analysis: The extraction blank met all DMC recovery criteria as well as all but one of the additional acceptance criteria. The one non-conformance involves a Tentatively-Identified Compound (TIC) at a retention time of 23.07 minutes. The last sentence of Exhibit D-SVOA Section 12.1.5 says that no TICs are allowed in the method blank at a concentration greater than 10 ug/L; however, it was not possible to reextract within holding times. The Region has been notified about this nonconformance, and they have instructed that the data be reported and the issue discussed in the case narrative. This TIC is a method artifact that is always present in all chromatograms, and it does not pose any adverse effects on the data quality. It can be argued that the EPA also finds this to be an insignificant issue, as evidenced by the fact that the new SOM01 statement of work has removed restrictions on TICs in the method blank.

Sample Analysis: All samples passed internal standard area and DMC recovery QC critieria.

MS/MSD Analysis: Matrix spiking was performed on Sample E2BT7. The Region had not specified which sample to use for MS/MSD, yet the Scheduling Notification indicated that QC was required. The Region was contacted and informed that Sample E2BT7 was a good candidate since additional samples bottles were sent for this sample. The Region instructed the laboratory to proceed with analysis using E2BT7 for matrix spiking.

Dilutions: None.

Miscellaneous Comments:

Alkanes were not detected in any samples. As instructed in the SOW, alkanes are not reported on the Form 1G but rather are included in an attachment to the case narrative. Manual edits were made in the calibration standards and in some samples for various mis-called peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. The graphics page clearly shows the integrated scan range of each peak.

With regard to the naming of tentatively-identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has a specific reason to assign a different name. Reasons for assigning a TIC name other than the first choice above 85% include instances in which the analyst has previous experience with respect to a specific compound. When the first computer-generated match is a target compound and retention time information clearly indicates the TIC is in fact not the target compound, the analyst reserves the right to give a more appropriate tentative identification. There may be instances in which a specific compound name is assigned to more than one peak. Even though specific names will usually be given to TICs with spectral fits above 85%, it must be understood by the data user that TIC names are very tentative, and it cannot be assumed that the specific isomers reported are correct. One case where specific names are not given to spectral matches above 85% is for alkanes, because the SOW requires alkanes to be reported as either straight-chain, branched or cyclic.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

5-3-97

Reed A. Hendricks

GC/MS Semivolatile Analysis Section

DATA CHEM LABORATORIES

SDG Narrative
Pesticides

Contract: 68W01045
Case: 34107
SDG: E2BT7

Sample No.: E2BT7, E2BT7MS, E2BT7MSD, E2BT8, E2BW0, E2BW2, E2BW3, E2BW4, E2BW5, E2BW6.

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work OLC03.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.53m ID X 30M DB-608 0.83 micron film (primary).
0.53m ID X 30M DB-1701 1.0 micron film (confirmation).

Sample Preparation: All samples were extracted within SOW specified hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analyzed within SOW specified hold times.

Dilutions: No dilutions were required.

Blank Analysis: No analytes were detected in the method blank above the CRQL.

LCS Analysis: All recoveries were within QC limits.

MS/MSD Analysis: MS and MSD were performed on sample 05C00574 (E2BT7). All recoveries and RPDs were within QC limits.

Surrogates: Surrogate TCX 2 was not recovered in sample E2BT8 due to a co-eluting interference. Surrogate TCX 2 was greater than QC limits due to a co-eluting interference. Surrogate TCX1 in samples E2BW5 and E2BW6 was less than QC limits probably due to matrix interferences. The recoveries of TCX 2 for the same samples (E2BW5 and E2BW6) were within QC limits.

Miscellaneous Comments: There was one issue with this SDG: 1) The Scheduling Notification for this Case indicated that laboratory QC was required; however the TR did not designate a sample for this purpose. The Laboratory was instructed to use sample E2BT7 as the QC sample.

This chart summarizes the amount (ng) of each compound in each type of standard:

	RESC##	PEM##	AR1660##	AR1221##	AR1232##	AR1242##	AR1248##	AR1254##	TOXAPH##	INDAL##	INDBL##	INDAM##	INDBM##	INDAH##	INDBH##	PIBLK##
alpha-BHC		0.02								0.01		0.04		0.2		
beta-BHC		0.02									0.01		0.04		0.2	
delta-BHC											0.01		0.04		0.2	
gamma-BHC		0.02								0.01		0.04		0.2		
Heptachlor										0.01		0.04				
Aldrin											0.01		0.04		0.2	
Heptachlor epoxide											0.01		0.04		0.2	
Endosulfan I	0.02									0.01		0.04		0.2		
Dieldrin	0.04									0.02		0.08		0.4		
4,4'-DDE	0.02										0.02		0.08		0.4	
Endrin		0.1								0.02		0.08		0.4		
Endosulfan II											0.02		0.08		0.4	
4,4'-DDD										0.02		0.08		0.4		
Endosulfan sulfate	0.04										0.02		0.08		0.4	
4,4'-DDT		0.2								0.02		0.08		0.4		
Methoxychlor	0.2	0.5								0.1		0.4		2		
Endrin ketone	0.04										0.02		0.08		0.4	
Endrin aldehyde											0.02		0.08		0.4	
alpha-Chlordane											0.01		0.04		0.2	
gamma-Chlordane	0.02										0.01		0.04		0.2	
Toxaphene									1							
Aroclor-1016			0.2													
Aroclor-1221				0.4												
Aroclor-1232					0.2											
Aroclor-1242						0.2										
Aroclor-1248							0.2									
Aroclor-1254								0.2								
Aroclor-1260			0.2													
Tetrachloro-m-xylene	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.01	0.01	0.04	0.04	0.2	0.2	0.04
Decachlorobiphenyl	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.08	0.08	0.4	0.4	0.04

Sample equation for Endrin in PLCSW1 (1):

$$\text{Result ug/L} = \frac{\text{(Area response of analyte)(Extract FV mL)}}{\text{(CF)(Liters of Sample)(uL injected)}}$$

$$0.23 \text{ ug/L} = \frac{(1428172)(2 \text{ mL})}{(6210000)(1 \text{ L})(2 \text{ uL})}$$

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

05/09/05

Steven J. Sagers — Date
Pesticide Chemist

-----Original Message-----
From: MARK JAWORSKI [mailto:MJAWORSK@idem.in.gov]
Sent: Monday, April 25, 2005 9:17 AM
To: jbrown208@fedcsc.com
Subject: Re: Region 05 | Case 34107 | Lab DATAC | Issue Insufficient/inappropriate designation of laboratory QC

Go ahead and use E2BT7 if extra volume is present.

-----Original Message-----
From: Brown, Jessica
Sent: Monday, April 25, 2005 8:22 AM
To: Mark Jaworski (E-mail)
Cc: Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 34107 | Lab DATAC | Issue Insufficient/inappropriate designation of laboratory QC

Good morning Mark,

Please advise on the following issue from 4/22/05. The samples scheduled with DATAC were for OLC03.2 waters.

Thanks,
Jessica

-----Original Message-----
From: Brown, Jessica
Sent: Friday, April 22, 2005 3:38 PM
To: Carlene Thomas (E-mail); Warren Layne (E-mail)
Cc: Mark Jaworski (E-mail)
Subject: Region 05 | Case 34107 | Lab DATAC | Issue Insufficient/inappropriate designation of laboratory QC

This is Mike, Jessica is out of the office today. Please advise on the following issue:

Issue: The Scheduling Notification for this Case indicated that laboratory QC is required, however the TR did not designated a sample for this purpose. Sample, E2BT7 was sent with additional volume, so the lab would like to choose this sample for QC purposes.

thanks,
Mike

Jessica Brown
Computer Sciences Corporation
Environmental Scientist
CLP Coordinator for Regions 4, 5, & 8
Phone: (703) 818-4215; Fax: (703) 818-4602
jbrown208@fedcsc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

4/22/2005 3:00 PM Roxanne Olson, DATAC, contacted Mike Benhoff, SMO about an issue with Case 34107. The Scheduling Notification for this Case indicated that laboratory QC is required, however the TR did not designated a sample for this purpose. Sample, E2BT7 was sent with additional volume, so the lab would like to

choose this sample for QC purposes.

Olson, Roxanne

From: Brown, Jessica [jbrown208@fedcsc.com]
Sent: Tuesday, April 26, 2005 8:51 AM
To: Olson, Roxanne
Cc: Mark Jaworski (E-mail); Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 34107 | Lab DATAC | Issue Discrepancies with tags, jars, and/or TR/COC | FINAL
Flag Status: Flagged
Attachments: Case 34107 Info.pdf

Issue - Sample E2BW5 was received for VOA/BNA/Pest/PCB analysis however, there was no analysis checked on the TR/COC.
Resolution - Please proceed with VOA/BNA/Pest/PCB analysis and note the issue in the SDG Narrative.

Please let me know if you have any problems or questions.

Thanks,
Jessica

-----Original Message-----
From: Thomas.Carlene@epamail.epa.gov [mailto:Thomas.Carlene@epamail.epa.gov]
Sent: Tuesday, April 26, 2005 10:36 AM
To: Brown, Jessica
Subject: Re: Please reply: Region 05 | Case 34107 | Lab DATAC | Issue Discrepa ncies with tags, jars, and/or TR/COC

Please proceed with recommendation per Mark.

- Original Message-----
From: Brown, Jessica
Sent: Tuesday, April 26, 2005 9:54 AM
To: Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Please reply: Region 05 | Case 34107 | Lab DATAC | Issue Discrepancies with tags, jars, and/or TR/COC
Carlene,

The following is the resolution provided by Mark Jaworski, IDEM. Please advise as quickly as possible.

Thanks,
Jessica

-----Original Message-----
From: MARK JAWORSKI [mailto:MJAWORSK@idem.in.gov]
Sent: Tuesday, April 26, 2005 9:27 AM
To: jbrown208@fedcsc.com
Subject: Re: Region 05 | Case 34107 | Lab DATAC | Issue Discrepancies with tags, jars, and/or TR/COC

Jessica,
Go ahead and have the lab analyze for BNA/Pest/PCB/VOA.
Thanks
Mark

-----Original Message-----
From: Brown, Jessica
Sent: Monday, April 25, 2005 3:23 PM
To: Mark Jaworski (E-mail)
Cc: Carlene Thomas (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 34107 | Lab DATAC | Issue Discrepancies with tags, jars, and/or TR/COC

Mark,

Sample E2BW5 was received for VOA/BNA/Pest/PCB analysis however, there was no analysis checked on the TR/COC. Please advise.

- nks,
Jessica

4/25/05 3:19PM Jessica Brown, SMO, spoke with Roxanne Olson, DATAC, concerning Case 34107. The lab reported that sample E2BW5 was received for VOA/BNA/Pest/PCB analysis however, there was no analysis checked on the TR/COC. Please advise.

-----Original Message-----
From: Brown, Jessica
Sent: Monday, April 25, 2005 2:35 PM
To: 'Olson, Roxanne'
Subject: RE: Shipping information for Case 34107

Thanks Roxy,

I have that the following:

E2BW1 - VOA only
E [2] BT8, W0, W2, W3, W4, W5(not marked for any analysis on TR 389644?), W6, and T7 for VOA, BNA, Pest.

Is this what you have??? It's only 9...

Thanks,
Jessica

- Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Monday, April 25, 2005 1:59 PM
To: Brown, Jessica
Subject: RE: Shipping information for Case 34107

Jessica: See attached.

Thanks, Roxy

From: Brown, Jessica [mailto:jbrown208@fedcsc.com]
Sent: Monday, April 25, 2005 10:59 AM
Subject: Shipping information for Case 34107

Hi,

The sampler is having computer issues and is unable to forward me the shipping information for Case 34107. If you could forward me the number of samples/matrix/analysis/LRD for Case 34107, I would very much appreciate it.

Thank you in advance.

Jessica Brown
Computer Sciences Corporation
Environmental Scientist
CLP Coordinator for Regions 4, 5, & 8
Phone: (703) 818-4215; Fax: (703) 818-4602
jbrown208@fedcsc.com

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APPENDIX C

4- Mile Radius Map

SDMS US EPA Region V

Imagery Insert Form

Some images in this document may be illegible or unavailable in SDMS.
Please see reason(s) indicated below:

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Appendix C (4 mile radius map)

☐ Document is available at the EPA Region 5 Records Center.

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APPENDIX D

Sensitive Environment Information

DNR Indiana Department of Natural Resources

Mitchell E. Daniels, Jr., Governor
Kyle J. Hupfer, Director

Division of Nature Preserves
402 W. Washington St., Rm W267
Indianapolis IN 46204-2739

RECEIVED

APR 07 2005

DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

April 6, 2005

Mr. Mark Jaworski
Site Investigation Section
Office of Land Quality
Indiana Dept. of Environmental Management

Dear Mr. Jaworski:

I am responding to your request for information on the endangered, threatened, or rare (ETR) species, high quality natural communities, and natural areas documented within two miles of the Gary Development Landfill, Gary, Indiana. The Indiana Natural Heritage Data Center has been checked and enclosed you will find information on the ETR species documented from the project area.

For more information on the animal species mentioned, please contact Katie Smith, Nongame Supervisor, Division of Fish and Wildlife, 402 W. Washington Room W273, Indianapolis, Indiana 46204, (317)232-4080.

The information I am providing does not preclude the requirement for further consultation with the U.S. Fish and Wildlife Service as required under Section 7 of the Endangered Species Act of 1973. You should contact the Service at their Bloomington, Indiana office.

U.S. Fish and Wildlife Service
620 South Walker St.
Bloomington, Indiana 47403-2121
(812)334-4261

At some point, you may need to contact the Department of Natural Resources' Environmental Review Coordinator so that other divisions within the department have the opportunity to review your proposal. For more information, please contact:

John Goss, Director
Department of Natural Resources
attn: Christie Kiefer
Environmental Coordinator
Division of Water
402 W. Washington Street, Room W264
Indianapolis, IN 46204
(317)232-4160

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Please note that the Indiana Natural Heritage Data Center relies on the observations of many individuals for our data. In most cases, the information is not the result of comprehensive field surveys conducted at particular sites. Therefore, our statement that there are no documented significant natural features at a site should not be interpreted to mean that the site does not support special plants or animals.

Due to the dynamic nature and sensitivity of the data, this information should not be used for any project other than that for which it was originally intended. It may be necessary for you to request updated material from us in order to base your planning decisions on the most current information.

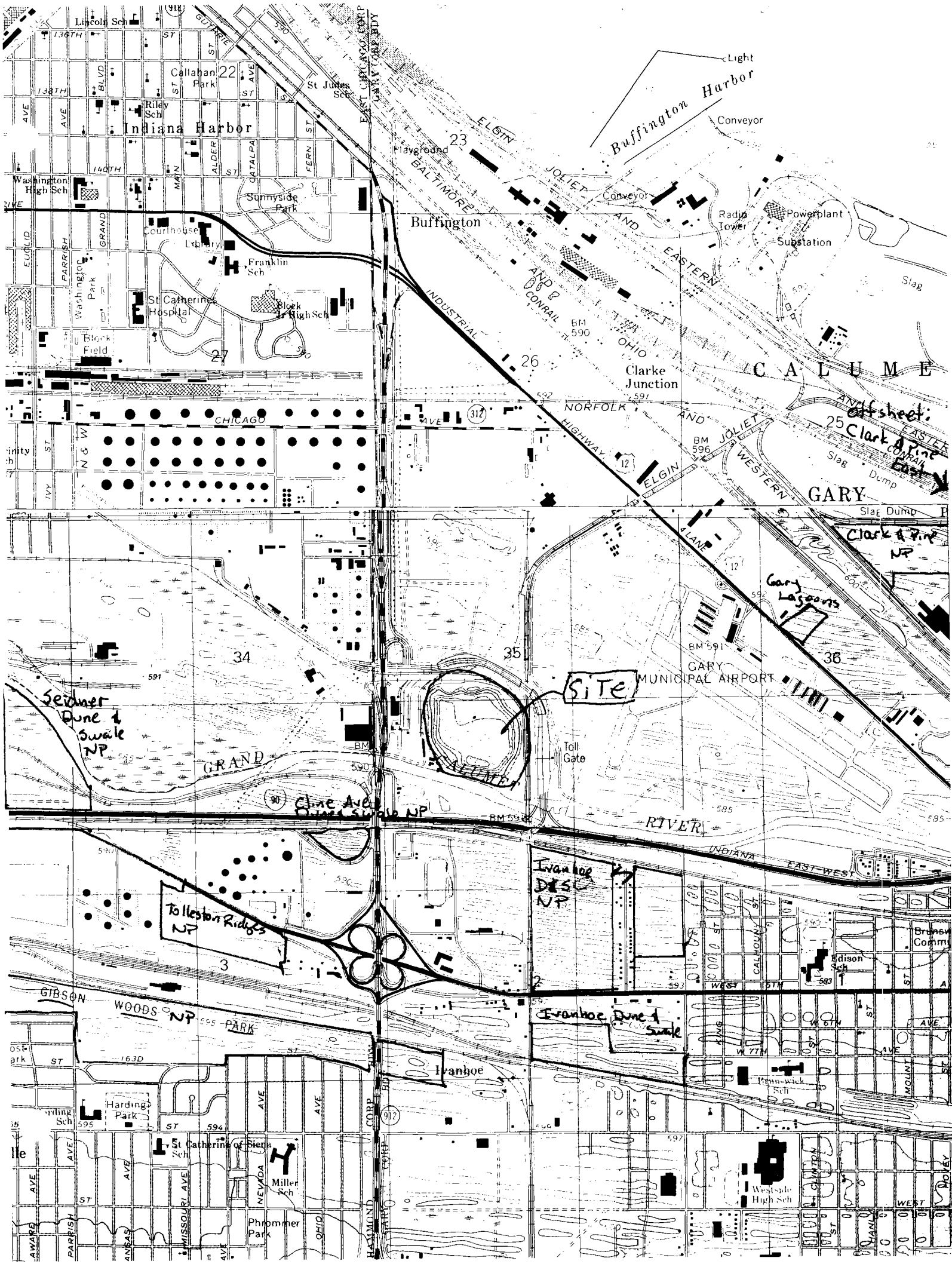
Thank you for contacting the Indiana Natural Heritage Data Center. You may reach me at (317)232-8059 if you have any questions or need additional information.

Sincerely,

Ronald P. Hellmich

Ronald P. Hellmich
Indiana Natural Heritage Data Center

enclosure: data sheet



offsheet: Clark & Pine East

Endangered, Threatened and Rare Species and High Quality Natural Communities Documented within two miles of the Gary Development Landfill, Gary, Indiana

TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
Vascular Plant	Carex eburnea	Ebony Sedge		SR	037N008W 30 SWQ	1995-06-02	
ııgh Quality Natural Community	Savanna - sand dry-mesic	Dry-mesic Sand Savanna		SG	036N008W 06 SWQ	1978-07-20	
Reptile	Emydoidea blandingii	Blanding's Turtle		SE	037N008W 31 NWQ	1998-05-09	
Vascular Plant	Utricularia purpurea	Purple Bladderwort		SR	037N009W 26	1907-09-08	
Fish	Acipenser fulvescens	Lake Sturgeon		SE		1910	
Vascular Plant	Lechea stricta	Upright Pinweed		SX	036N008W 06	1881-09-10	
Vascular Plant	Utricularia resupinata	Northeastern Bladderwort		SX	037N009W 26	1890-08-29	
Vascular Plant	Aster sericeus	Western Silvery Aster		SR	037N009W 36	1978-11	
Insecta: Lepidoptera	Schinia indiana	Phlox Moth		SE	036N009W HESSVILLE AREA	1940-05	
Bird	Cistothorus palustris	Marsh Wren		SE	036N008W 01 NEQ	2000-06-10	
Vascular Plant	Carex garberi	Elk Sedge		ST	037N009W 26 SEQ	1991-06-13	
High Quality Natural Community	Prairie - sand wet-mesic	Wet-mesic Sand Prairie		SG	036N008W 06 SWQ	1978-07-20	
Vascular Plant	Carex eburnea	Ebony Sedge		SR	037N009W 25 SEQ	1991-08-13	
Bird	Ixobrychus exilis	Least Bittern		SE	037N009W 34 SWQ	1991-07-11	
Vascular Plant	Platanthera hookeri	Hooker Orchis		SX	037N008W 31	1893-06	
Vascular Plant	Cypripedium candidum	Small White Lady's-slipper		WL	037N009W 26	1889-05-25	
Vascular Plant	Eleocharis geniculata	Capitate Spike-rush		ST	037N009W 25 SEQ	1991-08-13	
cular Plant	Utricularia cornuta	Horned Bladderwort		ST	037N009W 26	1910-06-25	
vascular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	037N009W 36	1991-08-13	
Vascular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	037N009W 25 SEQ	1991-08-13	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N008W 30 SWQ	1995-06-02	
Vascular Plant	Agalinis skinneriana	Pale False Foxglove		ST	037N008W 30 SH SWQ	1995-09-21	
Vascular Plant	Buchnera americana	Bluehearts		SE	037N009W 25 SH SWQ	1991-08-29	
Vascular Plant	Eleocharis geniculata	Capitate Spike-rush		ST	037N009W 25 SWQ	1985-07-10	
High Quality Natural Community	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	037N009W 34 SEQ	1978-07	
High Quality Natural Community	Wetland - marsh	Marsh		SG	037N009W 36 NEQ	1978-07	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	037N008W 31 NEQ NWQ & NWQ NEQ	1986-05-28	
High Quality Natural Community	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	037N009W 36	1978-07	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 23 NWQ SWQ	1987-12-31	
:ular Plant	Tofieldia glutinosa	False Asphodel		SR	037N008W 31 NWQ	1991-08-13	

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Endangered, Threatened and Rare Species and High Quality Natural Communities Documented within two miles of the Gary Development Landfill, Gary, Indiana

TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N009W 26 SH NEQ & NEQ SEQ	1991-08-12	
cular Plant	Carex aurea	Golden-fruited Sedge		SR	037N009W 34 SEQ	1991-07-02	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N008W 30 SWQ	1995-06-02	
Vascular Plant	Pinus banksiana	Jack Pine		SR	037N009W 25 NWQ SEQ	1991-08-13	
Bird	Ixobrychus exilis	Least Bittern		SE	037N009W 36	1978-07-11	
Vascular Plant	Aristida intermedia	Slim-spike Three-awn Grass		SR	037N009W 25 SEQ	1991-08-13	
Vascular Plant	Utricularia minor	Lesser Bladderwort		ST	037N009W 36	1897-06	
Vascular Plant	Carex crawei	Crawe Sedge		ST	037N009W 36	1956-06-26	
Amphibian	Acris crepitans	Northern Cricket Frog			037N009W 25 WH	2000-05-21	
High Quality Natural Community	Wetland - marsh	Marsh		SG	037N009W 34 SEQ	1978-07	
Vascular Plant	Tofieldia glutinosa	False Asphodel		SR	037N009W 2 MI E OF INDIANA HARBOR	1906-09-23	
Vascular Plant	Carex limosa	Mud Sedge		SE	036N009W 01	1895-06-30	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N009W 36	1978-01-25	
Vascular Plant	Aristida intermedia	Slim-spike Three-awn Grass		SR	037N009W 36 SWQ NEQ	1986-12-16	
Vascular Plant	Juniperus communis	Ground Juniper		SR	037N008W 30 SWQ	1995-06-02	
High Quality Natural Community	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	037N009W 26 SH NWQ + NH SWQ	1978-07-12	
cular Plant	Carex richardsonii	Richardson Sedge		ST	037N009W 25 SEQ & 30 037N008W	1991-08-13	
Vascular Plant	Solidago simplex var. gillmanii	Sticky Goldenrod		ST	036N008W 06	1900-08-04	
High Quality Natural Community	Prairie - sand dry	Dry Sand Prairie		SG	037N009W 26 NEQ SEQ	1978-07-12	
Vascular Plant	Carex crawei	Crawe Sedge		ST	037N009W 23 SEQ NWQ SWQ	1994-06-30	
High Quality Natural Community	Wetland - marsh	Marsh		SG	037N009W 25 SWQ	1978-07	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 36 SWQ NEQ	1991-08-12	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 36 CTR NEQ	1991-08-29	
Vascular Plant	Satureja glabella var. angustifolia	Calamint		SE	037N009W 25 SWQ NWQ	2001-07-19	
Vascular Plant	Pinus banksiana	Jack Pine		SR	037N009W 26 SH NEQ & NEQ SEQ	1985-07-10	
Vascular Plant	Spiranthes magnicamporum	Great Plains Ladies'-tresses		SE	037N008W 30 SWQ	1995-09-21	
Vascular Plant	Cypripedium calceolus var. parviflorum	Small Yellow Lady's-slipper		SR	037N009W 36	1978-01-25	
Vascular Plant	Cirsium pitcheri	Dune Thistle	LT	ST	037N009W EDGEMORE	1882-01-12	
cular Plant	Thuja occidentalis	Northern White Cedar		SE	037N009W 25 SWQ	1978-07-12	

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TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
Vascular Plant	Agalinis skinneriana	Pale False Foxglove		ST		1916-08-26	
Vascular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	037N009W 34 SH	1991	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 25 SEQ	1991-08-13	
High Quality Natural Community	Savanna - sand dry	Dry Sand Savanna		SG	037N009W 36 NWQ SEQ	1978-07	
High Quality Natural Community	Wetland - marsh	Marsh		SG	037N009W 26 NWQ SWQ	1978-07-12	
Vascular Plant	Carex aurea	Golden-fruited Sedge		SR	037N008W 31 NWQ	1991-06-13	
Vascular Plant	Tofieldia glutinosa	False Asphodel		SR	037N009W 25 SEQ	1991-08-13	
Vascular Plant	Selaginella apoda	Meadow Spike-moss		WL	037N009W 34 SH	1991	
Vascular Plant	Buchnera americana	Bluehearts		SE	037N009W 26 SH NEQ & NEQ SEQ	1991-08-12	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 26 SH NEQ & NEQ SEQ	1991-08-12	
Vascular Plant	Carex richardsonii	Richardson Sedge		ST	037N009W 26 SH NEQ & NEQ SEQ	1986-04-29	
Vascular Plant	Carex richardsonii	Richardson Sedge		ST	037N008W 31 NEQ NWQ & NWQ NEQ	1991-08-13	
Bird	Chlidonias niger	Black Tern		SE	037N009W 34 SWQ	1991-06-25	
Insecta: Lepidoptera	Lycaeides melissa samuelis	Karner Blue	LE	SE	036N009W 01 SH SH SEQ	1994-07-28	
Vascular Plant	Buchnera americana	Bluehearts		SE	037N008W 30 SWQ	1995-07-24	
ular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N008W 30 SWQ	1995-07-26	
Bird	Botaurus lentiginosus	American Bittern		SE	037N009W 36	1978-07	
Vascular Plant	Arenaria stricta	Michaux's Stitchwort		SR		1946-06-14	
Vascular Plant	Geranium bicknellii	Bicknell Northern Crane's-bill		SE	037N009W 25	1903-06-15	
High Quality Natural Community	Wetland - panne	Panne		SG	037N009W 26 NEQ	1978-08	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N009W 23 SWQ SWQ	2001-08-06	
Vascular Plant	Carex crawei	Crawe Sedge		ST	037N008W 31 NWQ	1991-06-13	
Vascular Plant	Polygonella articulata	Eastern Jointweed		SR	036N008W 06	1955-08-31	
Reptile	Emydoidea blandingii	Blanding's Turtle		SE	037N009W 34 SH	1991	
Reptile	Clemmys guttata	Spotted Turtle		SE	037N009W 25 SEQ	1991-04-18	
High Quality Natural Community	Prairie - sand dry	Dry Sand Prairie		SG	037N009W 26 SH NWQ + NH SWQ	1978-07-12	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	037N009W 36	1978-08	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N009W 23 SEQ	1994-06-30	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N009W 26	1978-07	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 35 NWQ	1995-12-28	
ular Plant	Carex crawei	Crawe Sedge		ST	037N009W 26 SH NEQ & NEQ SEQ	1991-06-13	

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TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
Vascular Plant	Pinus banksiana	Jack Pine		SR	037N008W 30 SWQ	1995-06-02	
:ular Plant	Buchnera americana	Bluehearts		SE	037N009W 26	1906-07-24	
High Quality Natural Community	Prairie - sand dry	Dry Sand Prairie		SG	037N009W 36 NEQ	1978-07	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	037N009W 34 SEQ	1990-07-06	
Vascular Plant	Solidago simplex var. gillmanii	Sticky Goldenrod		ST	037N009W 1.25 MI E OF INDIANA HARBOR	1907-09-08	
Bird	Bartramia longicauda	Upland Sandpiper		SE	037N009W 35 SEQ	1994-05-21	
Amphibian	Necturus maculosus	Mudpuppy		SSC	036N009W 11 NWQ	1986-07	
Vascular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	037N009W 26 SH NEQ & NEQ SEQ	1991-08-13	
Vascular Plant	Carex aurea	Golden-fruited Sedge		SR	037N009W 26	1899-06-18	
Vascular Plant	Cypripedium candidum	Small White Lady's-slipper		WL	037N009W 36	1897-05-29	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	036N009W 04 SWQ NWQ NEQ	1992-08-09	
Vascular Plant	Sisyrinchium montanum	Strict Blue-eyed-grass		SE	037N009W 25 NWQ SWQ	1980-06	
Vascular Plant	Carex garberi	Elk Sedge		ST	037N009W 25 SEQ	1991-08-13	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N009W 25 SEQ	1991-08-13	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N009W 26 SH NEQ & NEQ SEQ	1991-08-12	
Insecta: Lepidoptera	Atrytonopsis hianna	Dusted Skipper		ST	036N009W 01 SEQ	1994-06-03	
Vascular Plant	Talinum rugospermum	Prairie Fame-flower		ST	036N008W 06	1915-08-22	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N009W 26 NWQ	1995-12-28	
Vascular Plant	Carex aurea	Golden-fruited Sedge		SR	037N009W 36	1978-01-25	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N008W 31 NH NWQ	1991-08-29	
Bird	Rallus limicola	Virginia Rail		SE	037N009W 36	1978-07	
Vascular Plant	Buchnera americana	Bluehearts		SE	037N009W 25 CTR WH SWQ	1991-08-29	
Reptile	Emydoidea blandingii	Blanding's Turtle		SE	037N008W 30 WH	2000-04-07	
Vascular Plant	Agalinis skinneriana	Pale False Foxglove		ST	037N009W 25 SEQ	1991-08-13	
Vascular Plant	Platanthera psycodes	Small Purple-fringe Orchis		SR	037N008W 31	1928-08-04	
Vascular Plant	Spiranthes magnicamporum	Great Plains Ladies'-tresses		SE	037N008W 31 NH NWQ	1991-08-29	
Vascular Plant	Eleocharis geniculata	Capitate Spike-rush		ST	037N009W 23 SWQ SWQ	1975-10	
Vascular Plant	Carex richardsonii	Richardson Sedge		ST	037N008W 30 SWQ	1995-07-26	
Vascular Plant	Satureja glabella var. angustifolia	Calamint		SE	037N009W 25 SWQ	1978-07	
Bird	Xanthocephalus xanthocephalus	Yellow-headed Blackbird		SE	037N009W 34 SWQ	1991-05-14	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 26 SH NWQ + NH SWQ	1995-12-28	
.ular Plant	Thuja occidentalis	Northern White Cedar		SE	037N009W 26 SWQ NWQ	1978-07-12	

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Vascular Plant	Carex bebbii	Bebb's Sedge		ST	037N009W 34 SH	1991	
High Quality ıral Community	Wetland - panne	Panne		SG	037N009W 36 NEQ	1978-07-11	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N009W 36 NEQ	1923-07	
Vascular Plant	Utricularia minor	Lesser Bladderwort		ST	037N009W 26	1889-08	
Vascular Plant	Orobanche fasciculata	Clustered Broomrape		SE	037N009W 36	1926-06-21	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	037N009W 33 SEQ	2002-09-04	
Vascular Plant	Aster borealis	Rushlike Aster		SR	037N009W 26 SH NEQ & NEQ SEQ	1985-07-10	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N009W 26	1904-06-04	
Insecta: Odonata	Sympetrum semicinctum	Band-winged Meadowhawk		SR	036N009W 36	1999	
Vascular Plant	Cypripedium calceolus var. parviflorum	Small Yellow Lady's-slipper		SR	037N009W 25 SWQ	1987-05-20	
Bird	Chlidonias niger	Black Tern		SE	037N009W 25	1978-07-11	
Insecta: Lepidoptera	Hesperia ottoe	Ottoe Skipper		SE	037N009W 25 SEQ NWQ	1995-06-28	
Vascular Plant	Platanthera hyperborea	Leafy Northern Green Orchis		ST	037N009W 23 SWQ SWQ	1994-06-30	
Bird	Cistothorus palustris	Marsh Wren		SE	037N009W 34 SWQ	1991-09-15	
Vascular Plant	Carex aurea	Golden-fruited Sedge		SR	037N009W 25 SEQ & 30 037N008W	1991-06-12	
Vascular Plant	Orobanche fasciculata	Clustered Broomrape		SE	037N009W 26	1889-06-08	
ular Plant	Carex aurea	Golden-fruited Sedge		SR	037N008W 30 SWQ	1995-06-02	
Bird	Rallus elegans	King Rail		SE	037N009W 36	1978-08	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N008W 31 NEQ NWQ & NWQ NEQ	1991-08-13	
High Quality Natural Community	Wetland - meadow sedge	Sedge Meadow		SG	037N009W 34 SEQ	1978-07	
Vascular Plant	Carex crawei	Crawe Sedge		ST	037N008W 30 SWQ	1995-07-26	
Vascular Plant	Pinus banksiana	Jack Pine		SR	037N009W 36	1978-07	
Vascular Plant	Cirsium pitcheri	Dune Thistle	LT	ST	037N009W AT PINE	1909-06	
Vascular Plant	Satureja glabella var. angustifolia	Calamint		SE	037N009W 36	1895-06-28	
Vascular Plant	Agalinis skinneriana	Pale False Foxglove		ST	037N009W 36	1991-08-29	
Vascular Plant	Carex aurea	Golden-fruited Sedge		SR	037N009W 26 SH NEQ & NEQ SEQ	1991-06-13	
Vascular Plant	Aristida intermedia	Slim-spike Three-awn Grass		SR	037N009W 36 NH	1991-08-12	
High Quality Natural Community	Savanna - sand mesic	Mesic Sand Savanna		SG	036N009W 03 NH SEQ	1978-07-21	
Vascular Plant	Pinus banksiana	Jack Pine		SR	037N008W 31 NEQ NWQ & NWQ NEQ	1991-08-13	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	036N009W 11 SEQ NWQ	1986-09-10	

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Bird	Rallus limicola	Virginia Rail		SE	037N009W 34 SWQ	1991-07-11	
cta: Lepidoptera	Hesperia ottoe	Ottoe Skipper		SE	037N008W 31 NH	1995-07-08	
Vascular Plant	Utricularia cornuta	Horned Bladderwort		ST	037N009W 36	1893-09-04	
Vascular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	037N008W 31 NEQ	1991-08-13	
High Quality Natural Community	Savanna - sand dry	Dry Sand Savanna		SG	037N009W 34 SEQ	1978-07	
Vascular Plant	Spiranthes magnicamporum	Great Plains Ladies'-tresses		SE	037N009W 25 SH SWQ	1991-08-29	
Insecta: Lepidoptera	Atrytonopsis hianna	Dusted Skipper		ST	036N008W 06 SWQ	1994-06-03	
Vascular Plant	Spiranthes magnicamporum	Great Plains Ladies'-tresses		SE	037N009W 26 SEQ	1990-09-27	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 25 CENTER OF WH OF SWQ	1991-08-29	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 23 SWQ SWQ	2001-08-06	
Vascular Plant	Aristida intermedia	Slim-spike Three-awn Grass		SR	037N009W 25 NWQ NWQ SWQ	1980-09-24	
High Quality Natural Community	Prairie - sand wet	Wet Sand Prairie		SG	037N009W 26 SH NWQ + NH SWQ	1978-07-12	
Vascular Plant	Diervilla lonicera	Northern Bush-honeysuckle		SR	036N009W 11 NEQ	1999-09-07	
:ular Plant	Ceanothus herbaceus	Prairie Redroot		SE	037N009W 36	1903-05-30	
Vascular Plant	Carex eburnea	Ebony Sedge		SR	037N009W 26 SH NEQ & NEQ SEQ	1985-07-10	
Reptile	Ophisaurus attenuatus	Slender Glass Lizard			037N009W 35 SEQ	1990	
Vascular Plant	Arenaria stricta	Michaux's Stitchwort		SR	037N009W 25	1978-01-25	
Vascular Plant	Aristida intermedia	Slim-spike Three-awn Grass		SR	037N008W 30 SH SWQ	1995-09-21	
Vascular Plant	Satureja glabella var. angustifolia	Calamint		SE	037N009W 23 SWQ SWQ	2001-07-19	
Vascular Plant	Eriophorum angustifolium	Narrow-leaved Cotton-grass		SR	037N009W 36 NH	1982	
Vascular Plant	Eriophorum gracile	Slender Cotton-grass		ST	037N009W 36	1934-06	
High Quality Natural Community	Prairie - sand wet-mesic	Wet-mesic Sand Prairie		SG	037N009W 34 SEQ	1978-07	
Vascular Plant	Carex crawei	Crawe Sedge		ST	037N009W 25 SEQ	1991-08-13	
High Quality Natural Community	Wetland - panne	Panne		SG	037N009W 36 NEQ	1978-07-11	
Vascular Plant	Eriophorum angustifolium	Narrow-leaved Cotton-grass		SR	037N009W 34 SH	1991	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N009W 25 SEQ	1991-08-13	
Bird	Rallus elegans	King Rail		SE	037N009W 34 SEQ	1974-05-22	
High Quality N' 'ıral . .munity	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	037N009W 25 NWQ SWQ	1978-07-12	

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High Quality Natural ımunity	Wetland - marsh	Marsh		SG	037N009W 36 NEQ	1978-07	
Vascular Plant	Spiranthes lucida	Shining Ladies'-tresses		SR	037N009W 36	1934-06-09	
Bird	Botaurus lentiginosus	American Bittern		SE	037N009W 34 SWQ	1991-07-11	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 34 SEQ NWQ SEQ	1992-08-22	
Vascular Plant	Platanthera hyperborea	Leafy Northern Green Orchis		ST	037N009W 36	1978-01	
Amphibian	Rana pipiens	Northern Leopard Frog		SSC	036N009W 09	1923-06-30	
Vascular Plant	Agalinis skinneriana	Pale False Foxglove		ST	037N008W 31 NH NWQ	1991-08-29	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	037N009W 33 SWQ NWQ	1992-08-05	
Vascular Plant	Platanthera hookeri	Hooker Orchis		SX	037N009W 26	1897-06	
Vascular Plant	Eleocharis geniculata	Capitate Spike-rush		ST	037N009W 36 NH	1991-08-12	
Bird	Cistothorus palustris	Marsh Wren		SE	037N009W 26 SEQ	1991-06-12	
Vascular Plant	Cypripedium calceolus var. parviflorum	Small Yellow Lady's-slipper		SR	037N009W 26	1899-06-08	
Insecta: Lepidoptera	Lycaeides melissa samuelis	Karner Blue	LE	SE	036N009W 11	1974-SU	
Vascular Plant	Cornus rugosa	Roundleaf Dogwood		SR	037N009W 36	1920-07	
Vascular Plant	Cypripedium candidum	Small White Lady's-slipper		WL	037N009W 26 SH NEQ & NEQ SEQ	1985-07-10	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N009W 36 SWQ NEQ	1991-08-12	
ıRK AND PINE EAST							
Vascular Plant	Eleocharis geniculata	Capitate Spike-rush		ST	037N008W 31 WH	1991-08-13	
Insecta: Lepidoptera	Capis curvata	A Noctuid Moth		ST	037N008W 31 NWQ NWQ	1999	
Vascular Plant	Carex garberi	Elk Sedge		ST	037N008W 31 WH	1991-06-14	
Vascular Plant	Carex brunnescens	Brownish Sedge		SE	037N008W 31 WH	1991-08-08	
Vascular Plant	Cirsium hillii	Hill's Thistle		SE	037N008W 31 NWQ	1987	
Reptile	Clemmys guttata	Spotted Turtle		SE	037N008W 31 NWQ	2000-04-30	
Vascular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	037N008W 31 WH	1991-08-13	
Bird	Ixobrychus exilis	Least Bittern		SE	037N008W 31 NWQ	1991-06-08	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	037N008W 31 SWQ & NWQ	1987-08	
Reptile	Sistrurus catenatus catenatus	Eastern Massasauga	C	SE	037N008W 31 SWQ	1984	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N008W 31 WH	1991-08-13	
Vascular Plant	Carex crawei	Crawe Sedge		ST	037N008W 31 WH	1991-08-13	
Vascular Plant	Cypripedium calceolus var. parviflorum	Small Yellow Lady's-slipper		SR	037N008W 31 NWQ	1989-05-24	
Bird	Cistothorus palustris	Marsh Wren		SE	037N008W 31 NWQ	1991-07-29	
Vascular Plant	Tofieldia glutinosa	False Asphodel		SR	037N008W 31 WH	1991-08-13	
Insecta: .doptera	Atrytonopsis hianna	Dusted Skipper		ST	037N008W 31 NWQ	1986	
Vascular Plant	Agalinis skinneriana	Pale False Foxglove		ST	037N008W 31 WH	1990	

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Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N008W 31 WH	1991-08-13	
Reptile	Ophisaurus attenuatus	Slender Glass Lizard			037N008W 31 NWQ	1990	
Reptile	Clemmys guttata	Spotted Turtle		SE	037N008W 31 WH	2002-02-24	
Vascular Plant	Carex aurea	Golden-fruited Sedge		SR	037N008W 31 WH	1991-06-14	
Reptile	Emydoidea blandingii	Blanding's Turtle		SE	037N008W 31 NWQ	1991-03-19	
Vascular Plant	Carex richardsonii	Richardson Sedge		ST	037N008W 31 WH	1956-05-19	
Amphibian	Acris crepitans	Northern Cricket Frog			037N008W 31 WH	2002-11-09	
Amphibian	Acris crepitans	Northern Cricket Frog			037N008W 31 WH	2000-03-03	
Vascular Plant	Melampyrum lineare	American Cow-wheat		SR	037N008W 31	1907-07-28	
Bird	Rallus limicola	Virginia Rail		SE	037N008W 31 NWQ	1991-05-14	
Vascular Plant	Potamogeton pulcher	Spotted Pondweed		SE	037N008W 31	2000 Summ	
CLARK AND PINE NATURE PRESERVE							
Vascular Plant	Cirsium hillii	Hill's Thistle		SE	037N009W 36 NEQ	1987-06-11	
Vascular Plant	Shepherdia canadensis	Canada Buffalo-berry		SX	037N009W 36 NEQ	1997-07-22	
Vascular Plant	Ludwigia sphaerocarpa	Globe-fruited False-loosestrife		SE	037N009W 36	1952-08-09	
Vascular Plant	Cypripedium candidum	Small White Lady's-slipper		WL	037N009W 36	1898-06	
Vascular Plant	Scirpus subterminalis	Water Bulrush		SR	037N009W 36	1878-07-02	
Vascular Plant	Arenaria stricta	Michaux's Stitchwort		SR	037N009W 36 NEQ NEQ	1986-05-08	
Vascular Plant	Juncus scirpoides	Scirpus-like Rush		ST	037N009W 36 NEQ	1985-07-11	
High Quality Natural ımunity	Wetland - panne	Panne		SG	037N009W 36 NEQ	1984-12	
Vascular Plant	Salix cordata	Heartleaf Willow		ST	037N009W 36	1898-06	
Insecta: Lepidoptera	Atrytonopsis hianna	Dusted Skipper		ST	037N009W 36 NEQ	1994-06-01	
Insecta: Lepidoptera	Papaipema leucostigma	Columbine Borer		ST	036N009W 36	1999	
Amphibian	Acris crepitans	Northern Cricket Frog			037N009W 36 NEQ	2000-07-01	
Insecta: Lepidoptera	Iodopepla u-album	A Noctuid Moth		SR	036N009W 36	1998-05-01	
High Quality Natural Community	Prairie - sand wet-mesic	Wet-mesic Sand Prairie		SG	037N009W 36 NEQ	1980	
Amphibian	Acris crepitans	Northern Cricket Frog			037N009W 36 NEQ	2002-07-27	
Vascular Plant	Satureja glabella var. angustifolia	Calamint		SE	037N009W 36	1926-09	
Vascular Plant	Equisetum variegatum	Variegated Horsetail		SE	037N009W 36	1955-08-31	
Vascular Plant	Carex richardsonii	Richardson Sedge		ST	037N009W 36 NEQ	1986-04	
Vascular Plant	Cornus canadensis	Bunchberry		SE	037N009W 36	1878-05	
Vascular Plant	Aster borealis	Rushlike Aster		SR	037N009W 36 NEQ	1985-07-11	
Vascular Plant	Spiranthes magnicamporum	Great Plains Ladies'-tresses		SE	037N009W 36 NWQ NEQ	1991-08-29	
Insecta: Lepidoptera	Schinia gloriosa	The Glorious Blazing Star Flower Moth		ST	037N009W 36 NEQ	1986	
Vascular Plant	Amelanchier humilis	Running Serviceberry		SE	037N009W 36 NEQ	1985	
Vascular Plant	Platanthera hyperborea	Leafy Northern Green Orchis		ST	037N009W 36 NEQ NEQ	1986-06	
;ular Plant	Eriophorum gracile	Slender Cotton-grass		ST	037N009W 36	1934-06	

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TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
Insecta: Lepidoptera	Papaipema beeriana	Beer's Blazing Star Borer Moth		ST	036N009W 36	1999	
cular Plant	Carex garberi	Elk Sedge		ST	037N009W 36 NEQ NEQ	1986-05	
Vascular Plant	Carex aurea	Golden-fruited Sedge		SR	037N009W 36 NEQ	1986	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	037N009W 36 NEQ NEQ	1986-06	
Vascular Plant	Pinus banksiana	Jack Pine		SR	037N009W 36 NEQ	1986	
Reptile	Emydoidea blandingii	Blanding's Turtle		SE	037N009W 36 NWQ NWQ	2000-04-07	
Vascular Plant	Utricularia minor	Lesser Bladderwort		ST	037N009W 36	1897-06	
Vascular Plant	Spiranthes lucida	Shining Ladies'-tresses		SR	037N009W 36	1934-06	
Vascular Plant	Coeloglossum viride var. virescens	Long-bract Green Orchis		ST	037N009W 36	NO DATE	
Bird	Ixobrychus exilis	Least Bittern		SE	037N009W 36	1990-SU	
Vascular Plant	Buchnera americana	Bluehearts		SE	037N009W 36 NWQ NEQ	1991-08-29	
Vascular Plant	Tofieldia glutinosa	False Asphodel		SR	037N009W 36 NEQ	1986-08-25	
Insecta: Lepidoptera	Lycaena xanthoides	Great Copper		SE	037N009W 36 NEQ	1985	
Vascular Plant	Thuja occidentalis	Northern White Cedar		SE	037N009W 36	1898-06-28	
High Quality Natural Community	Wetland - marsh	Marsh		SG	037N009W 36 NEQ	1978-07	
Vascular Plant	Melampyrum lineare	American Cow-wheat		SR	037N009W 36	1907-07	
Vascular Plant	Potamogeton pulcher	Spotted Pondweed		SE	037N009W 36	1897-06-21	
Vascular Plant	Carex eburnea	Ebony Sedge		SR	037N009W 36 NEQ NEQ	1986-07-15	
cular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	037N009W 36 NEQ	1985-07-11	
Amphibian	Ambystoma laterale	Blue-spotted Salamander		SSC	037N009W 36	1978-08	
Bird	Botaurus lentiginosus	American Bittern		SE	037N009W 36	1978-07	
Vascular Plant	Aralia hispida	Bristly Sarsaparilla		SE	037N009W 36	1880-06	
Vascular Plant	Eriophorum angustifolium	Narrow-leaved Cotton-grass		SR	037N009W 36 NEQ	1986	
Vascular Plant	Triglochin palustris	Marsh Arrow-grass		SR	037N009W 36	1896-08-28	
Vascular Plant	Eleocharis geniculata	Capitate Spike-rush		ST	037N009W 36 SEQ NEQ NEQ	1986	
Vascular Plant	Utricularia cornuta	Horned Bladderwort		ST	037N009W 36	1916-08-26	
Vascular Plant	Agalinis skinneriana	Pale False Foxglove		ST	037N009W 36 NWQ NWQ NEQ & NEQ NEQ	1991-08-29	
Vascular Plant	Cypripedium calceolus var. parviflorum	Small Yellow Lady's-slipper		SR	037N009W 36 NEQ	1989-05-24	
Vascular Plant	Arctostaphylos uva-ursi	Bearberry		SR	037N009W 36 NEQ	1985-07-11	
Vascular Plant	Carex crawei	Crawe Sedge		ST	037N009W 36 NEQ	1987	
Reptile	Clemmys guttata	Spotted Turtle		SE	037N009W 36 NEQ	2000-04-22	
Insecta: Lepidoptera	Problema byssus	Bunchgrass Skipper		ST	037N009W 36 NEQ	1985-06-29	
Vascular Plant	Orobanche fasciculata	Clustered Broomrape		SE	037N009W 36 NEQ NEQ	1986-06-24	
Vascular Plant	Utricularia purpurea	Purple Bladderwort		SR	037N009W 36 NEQ	2002-09-23	
tile	Emydoidea blandingii	Blanding's Turtle		SE	037N009W 36 NEQ	2000-04-15	
cular Plant	Linnaea borealis	Twinflower		SX	037N009W 36	1897-06-12	

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TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
High Quality Natural nmunity	Prairie - sand dry	Dry Sand Prairie		SG	037N009W 36 NEQ	1978-07	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	037N009W 36 NEQ	1994-08-03	
Vascular Plant	Aristida intermedia	Slim-spike Three-awn Grass		SR	037N009W 36	1927-05-23	
Insecta: Lepidoptera	Hesperia ottoe	Ottoe Skipper		SE	037N009W 36 NEQ	1994-06-23	
Reptile	Thamnophis proximus	Western Ribbon Snake		SSC	037N009W 36 NEQ	1987-06-06	
Reptile	Ophisaurus attenuatus	Slender Glass Lizard			037N009W 36 NEQ	1991-04-23	
Vascular Plant	Solidago ptarmicoides	Prairie Goldenrod		SR	037N009W 36 NWQ NEQ	1991-08-29	
Bird	Rallus limicola	Virginia Rail		SE	037N009W 36	1978-07-11	
High Quality Natural Community	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	037N009W 36 NEQ	1978-07-11	
Insecta: Lepidoptera	Hesperia leonardus	Leonard's Skipper		SR	037N009W 36 NEQ	1985-09-07	
Reptile	Clemmys guttata	Spotted Turtle		SE	036N009W 36 NEQ	2000-06-08	
Vascular Plant	Sisyrinchium montanum	Strict Blue-eyed-grass		SE	037N009W 36 NEQ NEQ	1986	
Bird	Rallus elegans	King Rail		SE	037N009W 36	1978-08	
CLINE AVENUE NATURE PRESERVE							
Vascular Plant	Diervilla lonicera	Northern Bush-honeysuckle		SR	036N009W 03 NEQ NEQ	1978-07-22	
High Quality ıral Community	Wetland - swamp shrub	Shrub Swamp		SG	036N009W 03 EH NEQ	1978-07	
High Quality Natural Community	Savanna - sand dry-mesic	Dry-mesic Sand Savanna		SG	036N009W 03 EH NEQ	1978-07-22	
High Quality Natural Community	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	036N009W 03 EH NEQ	1978-07	
GIBSON WOODS NATURE PRESERVE							
High Quality Natural Community	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	036N009W 03 SH	1978-07	
High Quality Natural Community	Forest - floodplain wet-mesic	Wet-mesic Floodplain Forest		SG	036N009W 03 SH	1978-07	
Insecta: Lepidoptera	Lycaeides melissa samuelis	Karner Blue	LE	SE	036N009W 04 SEQ	1992-07-09	
High Quality Natural Community	Savanna - sand dry-mesic	Dry-mesic Sand Savanna		SG	036N009W 03 SH	1978-07-21	
Vascular Plant	Cypripedium calceolus var. parviflorum	Small Yellow Lady's-slipper		SR	036N009W 03 NH SH	1991-08-10	
Vascular Plant	Carex aurea	Golden-fruited Sedge		SR	036N009W 04 EH	1978-01-25	
Insecta: Lepidoptera	Papaipema pterisii	Bracken Borer Moth		WL	036N009W 03 NH SH	1992-07-09	
:ular Plant	Juglans cinerea	Butternut		WL	036N009W 04 NH SEQ	1989	

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TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
Insecta: Lepidoptera	Euchloe olympia	Olympia Marble		ST	036N009W 03 NH SH	1990-04-25	
cular Plant	Diervilla lonicera	Northern Bush-honeysuckle		SR	036N009W 03 NH SH	1991-08-10	
High Quality Natural Community	Prairie - sand wet-mesic	Wet-mesic Sand Prairie		SG	036N009W 02 SWQ	1978-07-21	
Reptile	Ophisaurus attenuatus	Slender Glass Lizard			036N009W 03 NH SH	1981-	
High Quality Natural Community	Wetland - marsh	Marsh		SG	036N009W 04 EH	1978-07	
High Quality Natural Community	Wetland - swamp shrub	Shrub Swamp		SG	036N009W 04 EH	1978-07	
Insecta: Lepidoptera	Problema byssus	Bunchgrass Skipper		ST	036N009W 03 NH SH	1990	
Vascular Plant	Satureja glabella var. angustifolia	Calamint		SE	036N009W 04	1906-08	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	036N009W 04 SEQ	1994-07-27	
Insecta: Lepidoptera	Papaipema leucostigma	Columbine Borer		ST	036N009W 03 NH SH	1990-09-11	
Bird	Ixobrychus exilis	Least Bittern		SE	036N009W 03 SEQ	1985-07-02	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	036N009W 03 NH SH	1989	
Vascular Plant	Prunus pensylvanica	Fire Cherry		SR	036N009W 03 SWQ NEQ SEQ	1989-05-12	
tile	Thamnophis proximus	Western Ribbon Snake		SSC	036N009W 03 SH	1991	
IVANHOE DUNE AND SWALE NATURE PRESERVE							
High Quality Natural Community	Prairie - sand mesic	Mesic Sand Prairie		SG	036N009W 02 NEQ	1978-07-23	
Reptile	Ophisaurus attenuatus	Slender Glass Lizard			036N009W 02 NEQ	1990	
Vascular Plant	Rhus aromatica var. arenaria	Beach Sumac		SR	036N009W 02 NEQ	1985	
Vascular Plant	Platanthera hyperborea	Leafy Northern Green Orchis		ST	036N009W 02 NEQ	1985	
Insecta: Lepidoptera	Atrytonopsis hianna	Dusted Skipper		ST	036N009W 02 NEQ	1994-06-03	
Insecta: Lepidoptera	Problema byssus	Bunchgrass Skipper		ST	036N009W 02 NEQ	1995-08-04	
Bird	Rallus limicola	Virginia Rail		SE	036N009W 02 NEQ	1991-04-18	
Vascular Plant	Prunus pensylvanica	Fire Cherry		SR	036N009W 02 NEQ	1985	
High Quality Natural Community	Prairie - sand wet	Wet Sand Prairie		SG	036N009W 02 NEQ	1978-07	
High Quality Natural Community	Savanna - sand mesic	Mesic Sand Savanna		SG	036N009W 02 NEQ NEQ	1978-07-23	
Vascular Plant	Diervilla lonicera	Northern Bush-honeysuckle		SR	036N009W 02 NEQ	1985	
High Quality ural Community	Savanna - sand dry-mesic	Dry-mesic Sand Savanna		SG	036N009W 02 EH NEQ	1978-07-23	

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TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
High Quality Natural Community	Savanna - sand dry-mesic	Dry-mesic Sand Savanna		SG	036N009W 02 NEQ	1978-07-23	
Amphibian	Ambystoma laterale	Blue-spotted Salamander		SSC	036N009W 02 NEQ	1991-03-27	
High Quality Natural Community	Wetland - swamp shrub	Shrub Swamp		SG	036N009W 02 NEQ	1978-07	
High Quality Natural Community	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	036N009W 02 NEQ	1978-07	
Bird	Certhia americana	Brown Creeper			036N009W 02 NEQ	1991-05-01	
High Quality Natural Community	Prairie - sand wet	Wet Sand Prairie		SG	036N009W 02 EH NEQ	1978-07-23	
High Quality Natural Community	Wetland - marsh	Marsh		SG	036N009W 02 EH NEQ	1978-07-23	
Reptile	Emydoidea blandingii	Blanding's Turtle		SE	036N009W 02 SWQ SWQ NEQ	1991-11-01	
High Quality Natural Community	Wetland - swamp shrub	Shrub Swamp		SG	036N009W 02 EH NEQ	1978-07-23	
High Quality Natural Community	Savanna - sand mesic	Mesic Sand Savanna		SG	036N009W 02 NEQ	1978-07-23	
Vascular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	036N009W 02 NEQ	1985	
High Quality Natural Community	Wetland - marsh	Marsh		SG	036N009W 02 NEQ	1978-07	
High Quality Natural Community	Lake - pond	Pond		SG	036N009W 02 NEQ	1978-07-23	
Insecta: Lepidoptera	Lycaeides melissa samuelis	Karner Blue	LE	SE	036N009W 02 NEQ	1994-07-29	
High Quality Natural Community	Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	036N009W 02 EH NEQ	1978-07-23	
IVANHOE SOUTH							
High Quality Natural Community	Savanna - sand dry-mesic	Dry-mesic Sand Savanna		SG	036N009W 02 SEQ	1978-07-10	
High Quality Natural Community	Savanna - sand mesic	Mesic Sand Savanna		SG	036N009W 02 NEQ	1978-07-10	
Insecta: Lepidoptera	Lycaeides melissa samuelis	Karner Blue	LE	SE	036N009W 02 SEQ	1993-06-12	
SEIDNER DUNE AND SWALE NATURE PRESERVE							
Insecta: Lepidoptera	Peoria gemmatella	Gemmed Cordgrass Borer		SR	037N009W 33 SEQ	2001	
Bird	Chlidonias niger	Black Tern		SE	037N009W 33 NH SEQ	1991-07-11	

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TYPE	SNAME	SCOMNAME	FED	STATE	TOWNRANGE	DATE	COMMENTS
Vascular Plant	Juncus balticus var. littoralis	Baltic Rush		SR	037N009W 33 SWQ	2001	
d	Ardea alba	Great Egret		SSC	037N009W 33 NEQ SEQ	1988-06-10	
Insecta: Lepidoptera	Semiothisa eremiata	The Goat's Rue Looper		SR	037N009W 33 SEQ	2001	
Bird	Cistothorus palustris	Marsh Wren		SE	037N009W 33 SEQ	1987-06-06	
Insecta: Lepidoptera	Hesperia leonardus	Leonard's Skipper		SR	037N009W 33 SEQ	2001	
Insecta: Lepidoptera	Grammia oithona	Oithona's Grammia		SR	037N009W 33 SEQ	2001	
TOLLESTON RIDGES NATURE PRESERVE							
Vascular Plant	Prunus pensylvanica	Fire Cherry		SR	036N009W 03 SEQ NWQ & SWQ NEQ	1978-08	
Bird	Buteo lineatus	Red-shouldered Hawk		SSC	036N009W 03 NH SEQ	1978-08	
Insecta: Lepidoptera	Lycaeides melissa samuelis	Karner Blue	LE	SE	036N009W 03 CTR NH	1994-07-29	
High Quality Natural Community	Prairie - sand mesic	Mesic Sand Prairie		SG	036N009W 03 N HALF N HALF SEQ	1978-07-21	
Vascular Plant	Diervilla lonicera	Northern Bush-honeysuckle		SR	036N009W 03 SEQ NWQ & SWQ NEQ	1991-08-10	
High Quality Natural Community	Wetland - marsh	Marsh		SG	036N009W 03 NH NH SEQ	1978-07	
Bird	Botaurus lentiginosus	American Bittern		SE	036N009W 03 NH	1975	
cular Plant	Carex aurea	Golden-fruited Sedge		SR	036N009W 03 SEQ NWQ & SWQ NEQ	1978-08-11	
High Quality Natural Community	Savanna - sand dry-mesic	Dry-mesic Sand Savanna		SG	036N009W 03 NH SEQ	1978-07-21	
Reptile	Emydoidea blandingii	Blanding's Turtle		SE	036N009W 03 SEQ NWQ	1986-06-15	
Vascular Plant	Spiranthes lucida	Shining Ladies'-tresses		SR	036N009W 03 SEQ NWQ & SWQ NEQ	1989	
High Quality Natural Community	Wetland - swamp shrub	Shrub Swamp		SG	036N009W 03 SEQ SWQ NEQ & SWQ SEQ NEQ & NWQ NEQ SEQ	1978-07-21	
Vascular Plant	Carex richardsonii	Richardson Sedge		ST	036N009W 03 SEQ NWQ & SWQ NEQ	1980	
Mammal	Spermophilus franklinii	Franklin's Ground Squirrel		SE	036N009W 03 NWQ	1978	
Vascular Plant	Solidago simplex var. gillmanii	Sticky Goldenrod		ST	036N009W 03 NWQ	1978-08-11	
Vascular Plant	Cypripedium calceolus var. parviflorum	Small Yellow Lady's-slipper		SR	036N009W 03 NEQ	1987-05-20	

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APPENDIX E

SDMS US EPA Region V

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Appendix E (15-mile surface water pathway map)

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15-Mile Surface Water Pathway Map

U.S. Department of interior Administrative Report
on Nearshore Lake Michigan Watersheds

U.S. Department of the Interior
U.S. Geological Survey

Surface-Water and Ground-Water Hydrology and Contaminant Detections in Ground Water for a Natural Resource Damage Assessment of the Indiana Harbor Canal and Nearshore Lake Michigan Watersheds, Northwestern Indiana

By David A. Cohen, Theodore K. Greeman, and Paul M. Buszka

Administrative Report

Prepared for the
U.S. Department of the Interior,
U.S. Fish and Wildlife Service, Region 3

Indianapolis, Indiana
June 2002

SURFACE-WATER AND GROUND-WATER HYDROLOGY

The following section provides an overview of the surface-water and ground-water hydrology for the y area. This topic has been the subject of numerous studies, and in many instances the reader will be ɪred to the appropriate published material for additional detail.

Surface-Water Hydrology

Surface drainage in the study area generally is to the GCR, the IHC, and Lake Michigan in the north and e LCR in the south. The drainage divide separating these areas of surface-water dischage approximately cides with the Tolleston Beach Ridge, an arcuate upland in the southern part of the study area (fig. 2).

Surface-water flow in the NRDA portion of the study area has been altered greatly by human activity. ɔre about the early 1800's, the Little Calumet and Grand Calumet Rivers were sections of the same stream wford and Wangsness, 1987, p. 6). The ancestral Calumet River originated to the south of the study area flowed westward through the current LCR valley into Illinois. The channel made a hairpin turn in Illinois flowed eastward back into Indiana through the current GCR valley and discharged into Lake Michigan the Marquette Park Lagoons (fig. 1) (Shedlock and others, 1994, p. 16; Crawford and Wangsness, 1987, .

The development of portages, ditches, and canals connecting to Lake Michigan in northeastern Illinois ıgh the 1800's slowed and eventually reversed the eastward flow in the ancestral Calumet River. The stral river mouth in Indiana eventually was closed by littoral drift of sand along the shoreline (Shedlock ɔthers, 1994, p. 16). The opening of the IHC in 1909 divided the GCR into the east branch of the Grand met River (EB-GCR) and the west branch of the Grand Calumet River (WB-GCR) (fig. 1). Additional ls regarding pre-development drainage in the study area can be found in Cook and Jackson (1978) and /f .nd Wangsness (1987).

The GCR in the study area now consists of the two east-west oriented branches, the EB-GCR and the GCR, that meet at the southern end of the IHC (fig. 1). The Marquette Park Lagoons are the headwaters ıe EB-GCR—water from these lagoons flows westward through an underground culvert that discharges to pstream end of the main channel at the eastern end of the U.S. Steel—Gary Works property (plate 1). :r in the main channel then flows westward approximately 10 mi to its confluence with the IHC. The EB- . ranges in depth from 3-4 ft in the upstream reaches and about 8-10 ft at the downstream end, and has an ıge velocity of approximately 1 ft/s (Crawford and Wangsness, 1987, p.3).

The WB-GCR is about 6 mi long and has a depth of about 2 ft. Stream velocity in the WB-GCR ranges 0.2 to 1 ft/s (Crawford and Wangsness, 1987, p. 3). The WB-CGR has a surface-water divide that ally is near where I-90 (the Indiana Toll Road) crosses over the WB-GCR (fig. 1). Water in the WB-GCR : eastward from this divide towards its confluence with the IHC and westward from this divide towards its uence with the Little Calumet River in Illinois. The position of the divide is variable and influenced by :rous factors including water levels in Lake Michigan, the amount of effluent flow into the two branches of ;CR and the IHC, and the speed and direction of the wind (Crawford and Wangsness, 1987, p. 3).

In 1986, when record-high water levels in Lake Michigan were greater than 582 ft above sea level, lon and Watson (1993) and Greeman (1995) reported that the drainage divide in the WB-GCR was absent. ıg this time, Lake Michigan drained southward through the IHC and then, along with flow from the EB- , westward through the WB-GCR into Illinois (Greeman, 1995, p. 27). Historical water-level data for the d 1917 to 2000 (U.S. Army Corps of Engineers, 2002) indicate that average monthly water levels for Lake igan equaled or exceeded 582 ft above sea level only during June and July 1973, July 1974, and June gh November 1986.

The main channel of the IHC extends northward approximately 3 mi from its confluence with the east vest branches of the GCR and then turns northeast for an additional 3 mi to its mouth at the Indiana ɔr and Lake Michigan. The east-west oriented Lake George Branch, approximately 2 mi in length, enters IC at the point where the main channel bends from heading north to heading northeast (fig. 1).