GROUNDWATER INVESTIGATION REPORT

Petrocelli Electric Company Inc. Facility
22-09 Queens Bridge Plaza North
Long Island City, NY
Spill # 0330001

September 9, 2010

PROJECT NO. 10BR060

GROUNDWATER INVESTIGATION REPORT

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Long Island City, NY
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GROUNDWATER INVESTIGATION REPORT

Petrocelli Electric Company Inc. Facility
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APPENDICES

GROUNDWATER INVESTIGATION REPORT

Petrocelli Electric Company Inc. Facility
22-09 Queens Bridge Plaza North
Long Island City, NY
Spill # 0330001

September 9, 2010

1.0 INTRODUCTION

Brinkerhoff Environmental Services, Inc. (Brinkerhoff) has prepared the following Groundwater Investigation Report (Report) on behalf of Petrocelli Electric Company for the property located at 22-09 Queens Bridge Plaza North, Long Island City, New York (hereinafter referred to as the Site or subject property). (Refer to Figure 1 - Site Location Map.)

The Report was prepared in response to New York State Department of Environmental Conservation (NYSDEC) correspondence dated February 11, 2010 (refer to Appendix I). The letter required a determination of the source of free petroleum product (FPP) discovered on site on April 8, 2003.

This Report describes investigations performed that include the gauging of existing wells, installation and surveying of two (2) monitoring wells, groundwater sampling results, and a review of a historic report. Based on the results of the investigation, no FPP was encountered on site and in the newly installed monitoring wells, and groundwater flow direction was consistent with historic contouring; therefore, no further investigation/action is proposed at this time.

2.0 AREA / SITE CHARACTERIZATION

The Site is utilized as administrative and maintenance facilities for the Petrocelli Electric Company Inc., located at 22-09 Queens Plaza North, between 22nd and 23rd Streets, Long Island City, Queens County, New York. The area surrounding the site is primarily commercial, with some residential units upgradient of the site, east on 23rd Street. A site location map is included as Figure 1, and a site plan illustrating all site features is included as Figure 2.

3.0 METHODOLOGY

The following section presents the sampling and analytical methods for the investigations at the subject property.

3.1 Principal Personnel

Project Manager:	Ron J. Rosenberg (Brinkerhoff)	732-223-2225
Responsibilities:	Managed all aspects of the project including report preparation, coordination of Subcontractors, and communication with the NYSDEC and Client.	
Subcontractor:	Tom McChesney (Foresight Enviroprobe Inc. [Foresight])	609-259-6340
Responsibilities:	Subcontractor who provided monitoring well installation activities.	

3.2 Applicable Remediation Standards

Soil and groundwater samples were collected in accordance with the standard field sampling practices of the NYSDEC and the United States Environmental Protection Agency (USEPA).

- Soil was subject to NYSDEC Soil Cleanup Objectives Technical and Administrative Guidance Memorandum (TAGM).
- Groundwater was subject to NYSDEC Ambient Water Quality Standards (AWQS).

3.3 Laboratory Analytical Results

Groundwater samples were submitted to Aqua Pro-Tech Laboratories (APL), Fairfield, New Jersey (New York Department of Health Certification No. 11634). Samples were submitted for the following USEPA methods:

Soil Samples:	Volatile Organics (VO+10)	USEPA Method 8260
	Base Neutrals (BN+15)	USEPA Method 8270
Groundwater Samples:	VO+10	USEPA Method 624
	BN+15	USEPA Method 625

4.0 GROUNDWATER INVESTIGATION

As per the NYSDEC requirements, Brinkerhoff performed a groundwater investigation that included gauging of existing wells, installation of two (2) upgradient monitoring wells, surveying, and groundwater sample analysis.

Prior to initiation of the groundwater investigation, Brinkerhoff performed a site inspection that included the gauging (utilizing an oil/water interface probe) of all monitoring wells on site to evaluate for the presence of FPP. No FPP was detected at that time. Subsequent to the site inspection, Brinkerhoff contacted the NYSDEC Case Manager to inform him of the findings. Based on that information, the NYSDEC modified their initial requirements in the letter and approved the location and installation of two (2) on-site upgradient monitoring wells at the eastern border of the property, adjacent to the entrance along 23rd street.

4.1 Monitoring Well Installation

Brinkerhoff directed the installation of two (2) monitoring wells on the upgradient side of the property adjacent to 23rd Street. The wells were installed by a Licensed Well Driller (Foresight) using hollow stem auger drilling techniques. Soils were continuously field-screened during the well installation by a Brinkerhoff representative using a properly calibrated photoionization detector (PID) for evidence of contamination and to prepare lithologic logs.

Monitoring Wells MW-8 and MW-9 were installed to a total depth of 14.75 feet below grade and screened from 4.75 to 14.75 feet below grade and were constructed of two-inch-diameter polyvinyl chloride (PVC) with 10 feet of 0.01-inch slotted well screen. A licensed surveyor performed the surveying of the newly installed monitoring wells and accessible wells relative to the on-site structure.

Copies of the monitoring well construction logs and a survey of the property are provided in Appendix II and III. Refer to Figures 3 and 4 for monitoring well locations.

4.2 Well Installation - Soil Sample Results

In accordance with the NYSDEC requirements, the soil cuttings were continuously field-screened using a PID during the well installations. No PID readings beyond background were detected during the well installations; therefore, one (1) sample was collected from each well approximately six (6) inches above the water interface at 7.5 to 8.0 feet below grade. Soil samples were submitted to a certified laboratory and analyzed for volatile organics and base neutrals via USEPA Methods 8260 and 8270.

Soil sample results from monitoring wells MW-8 and MW-9 did not detect the presence of targeted compounds exceeding the NYSDEC Soil Cleanup Objectives (SCO) TAGM. A summary of soil results is presented on Table 1, and the laboratory data package is provided in Appendix IV.

4.3 Groundwater Sampling

On May 26, 2010, Brinkerhoff performed groundwater sampling of newly installed monitoring wells MW-8 and MW-9 in accordance with the standard field sampling practices of the NYSDEC and the USEPA. Prior to sampling, three (3) to five (5) volumes of water were purged from each well via a submersible pump with dedicated polytubing. As a precaution, purge water was filtered through activated carbon filtration containers before being discharged to the subject property. Field readings, including depth to water, temperature, pH (potential of hydrogen), dissolved oxygen, redox potential, specific conductivity, and dissolved solids, were taken prior to and after purging and prior to sampling. Headspace readings were collected with a PID prior to purging. Gauging field data for the sampling event is presented on Table 2, and Monitoring Well Sampling Data Forms are provided in Appendix V.

Samples were collected with disposable bailers and transferred to laboratory-supplied glassware. The sample bottles were placed in a cooler on ice, transported to Brinkerhoff's office, and placed in a designated refrigerator until picked up by the laboratory. The samples were transported and analyzed within required holding times.

4.4 Groundwater Sampling Results

Laboratory results from monitoring wells MW-8 and MW-9 reported elevated concentrations of tetrachlorethene of 13.7 and 5.18 parts per billion (ppb) exceeding the NYSDEC AWQS of 5 ppb. Remaining targeted compounds were below the applicable AWQS. A summary of groundwater sample results is presented on Table 3, and the laboratory data package is provided on Appendix VI.

4.5 Groundwater Gauging Results/Flow Direction

Brinkerhoff collected groundwater gauging data on May 12 and 26, 2010. Groundwater contour maps were prepared for each gauging event completed. Based on the information collected, groundwater at the Site generally flows to the west. Groundwater gauging data is provided on Tables 2 and 4, and contour maps are depicted on Figures 3 and 4.

5.0 HISTORIC REPORT REVIEW

Prior to well installation activities, Brinkerhoff reviewed a No Further Action Report prepared by EnSolutions, Inc., dated March 2003. The report included an evaluation of groundwater flow direction, potential upgradient sources, and a fingerprint analysis of FPP identified in monitoring well MW-6. Based on the results of the No Further Action Report the following conclusions were made:

- MW-6 (the most upgradient well) was the only well that exhibited increasing contaminate results from November 25, 2002 to February 6, 2003 of all benzene, toluene, ethylbenzene, and xylenes (BTEX) constituents of concern and also methyl

tert-butyl ether (MTBE).

- Laboratory results of fingerprint analysis of the free product obtained from MW-6 confirmed that this product most closely resembled a Diesel/#2 Fuel Oil. The underground storage tanks (USTs) on site contain unleaded gasoline.
- On March 7, 2003, all USTs and product lines passed a comprehensive precision tightness test.
- Results of an upgradient survey identified three (3) potential sources of petroleum contamination.

6.0 FINDINGS AND RECOMMENDATIONS

Brinkerhoff performed a groundwater investigation that included the gauging of existing wells, installation of two (2) upgradient monitoring wells, surveying, and groundwater sample analysis. Based on the results of this groundwater investigation and a review of historic reports, the following conclusions can be made:

- FPP was not detected in any wells on site, including the two (2) newly installed upgradient wells.
- Based on a recent survey, groundwater flow direction is confirmed to the west, which is consistent with historic groundwater gauging events.
- Historic documents confirmed the FPP detected on site in monitoring well MW-6 in 2003 was not stored in the on-site USTs.

Based on the investigations performed, a source of the FPP could not be identified; therefore, Brinkerhoff on behalf of Petrocelli Electric Company proposes No Further Action and closure of Spill Case # 0330001.

This report has been prepared and is respectfully submitted by

BRINKERHOFF ENVIRONMENTAL SERVICES, INC.

RON J. ROSENBERG
Senior Project Manager

September 13, 2010
Date

DOUG HARM, PG
Vice President of Technical Services
Registered Professional Geologist

September 13, 2010
Date

Table 1

Soil Sampling Results
22-09 Queens Bridge Plaza North
Long Island City, New York
May 26, 2010

(Results reported in parts per million [ppm])

Compound	SB-MW-8	SB-MW-9	SCO
Volatile Organic Compounds			
TIC (Total)	2.708	1.807	**NSE**
Semivolatile Organic Compounds			
Dimethylphthalate	0.122	.113	**2.0**
Bis(2-Ethylhexyl)phthalate	0.043 J	.039 J	**50**
TICs (Total)	1.28	709	**NSE**

SCO - Soil Cleanup Objectives as outlined in New York State Department of Environmental Conservation (NYSDEC) TAGM (Technical and Administrative Guidance Memorandum) No. 4046; J - Estimated concentration; TICs - Tentatively Identified Compounds; NSE - No Standard Established

Table 2
Monitoring Well Gauging
22-09 Queens Plaza North
Long Island City, New York
May 26, 2010

Monitoring Well	Date	Depth to Product	PID Reading (ppm)	Top of Casing Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-2	5/26/10	ND	ND	50.0	8.03	41.97
MW-4	5/26/10	ND	ND	50.68	8.50	42.18
MW-6	5/26/10	ND	ND	51.03	8.47	42.56
MW-8	5/26/10	ND	ND	51.76	9.19	42.57
MW-9	5/26/10	ND	ND	52.03	9.39	42.64

ND – Not Detected

Table 3
Groundwater Sampling Results
22-09 Queens Plaza North
Long Island City, New York
May 26, 2010

(Results reported in parts per billion [ppb])

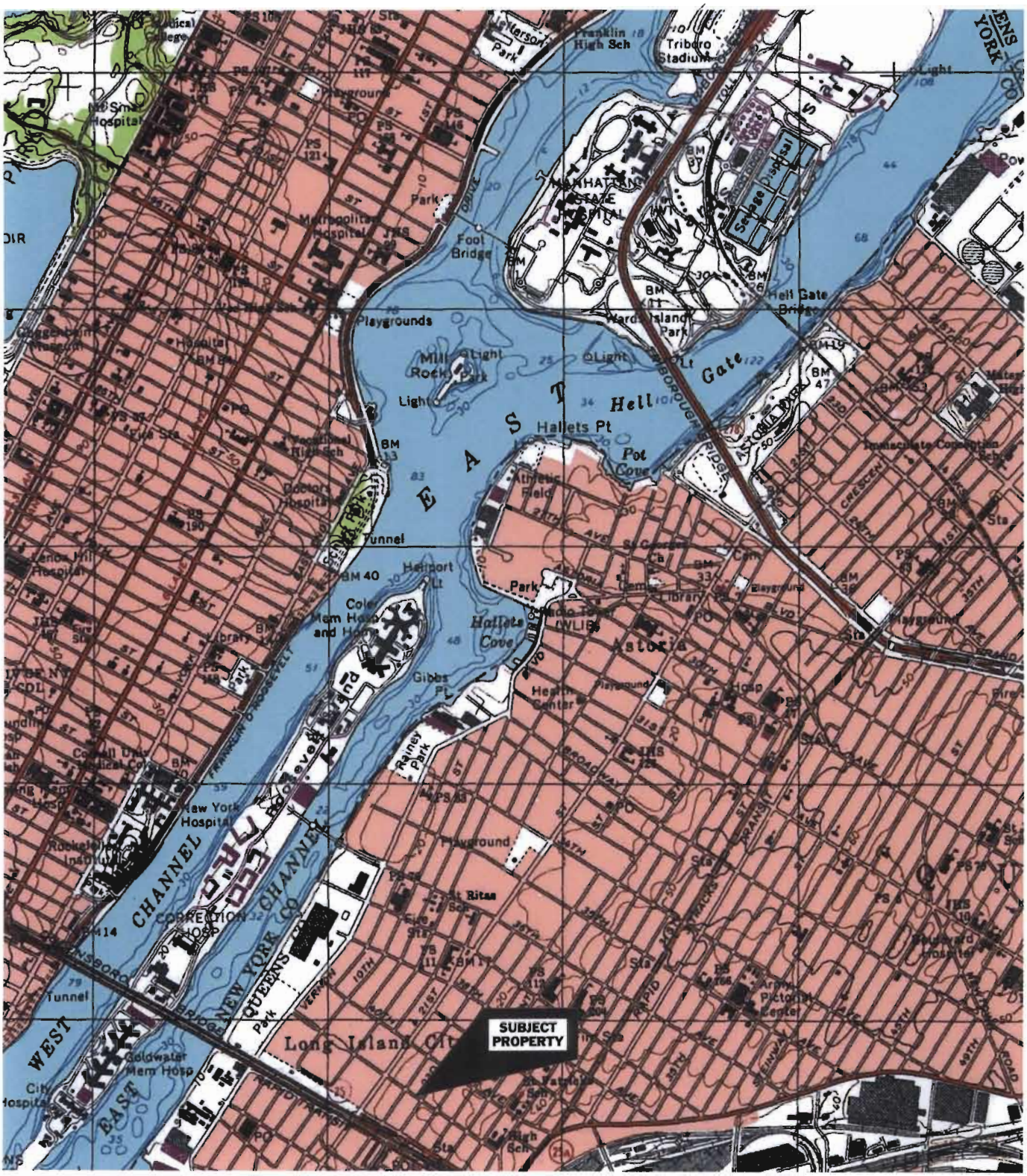
Compound	MW-8	MW-9	AWQS
Volatile Organic Compounds			
Trichloroethene (TCE)	0.718	ND	5
Tetrachloroethene (PCE)	**13.7**	**5.18**	5
Naphthalene	3.19	ND	10
Methyl tert-Butyl Ether	ND	5.84	NSE
TICs (total)	ND	ND	NSE
Semivolatile Organic Compounds			
Bis(2-ethylhexyl)phthalate	1.03	ND	5
TICs (total)	11.02	10.08	NSE

AWQS - NYSDEC Ambient Water Quality Standards; ND - Compound not detected; NSE - No standard established; Results in **BOLD** indicate results are greater than the AWQS; TICs - Tentatively Identified Compounds.

Table 4
Monitoring Well Gauging
22-09 Queens Plaza North
Long Island City, New York
May 12, 2010

Monitoring Well	Date	Depth to Product	PID Reading (ppm)	Top of Casing Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-2	5/12/10	ND	ND	50.0	7.87	42.13
MW-4	5/12/10	ND	ND	50.68	8.25	42.23
MW-6	5/12/10	ND	ND	51.03	8.32	42.71
MW-8	5/12/10	ND	ND	51.76	9.02	42.74
MW-9	5/12/10	ND	ND	52.03	9.23	42.80

ND – Not Detected



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ENVIRONMENTAL SERVICES, INC.

Figure 1 - Site Location Map

U.S.G.S. Topographic Central Park, NY Quad

Petrocelli Electric Company, Inc.
22-09 Queens Bridge Plaza North
Long Island City, New York

Series: 7.5'	Job No. 10BR060	Photo Revised: 1995

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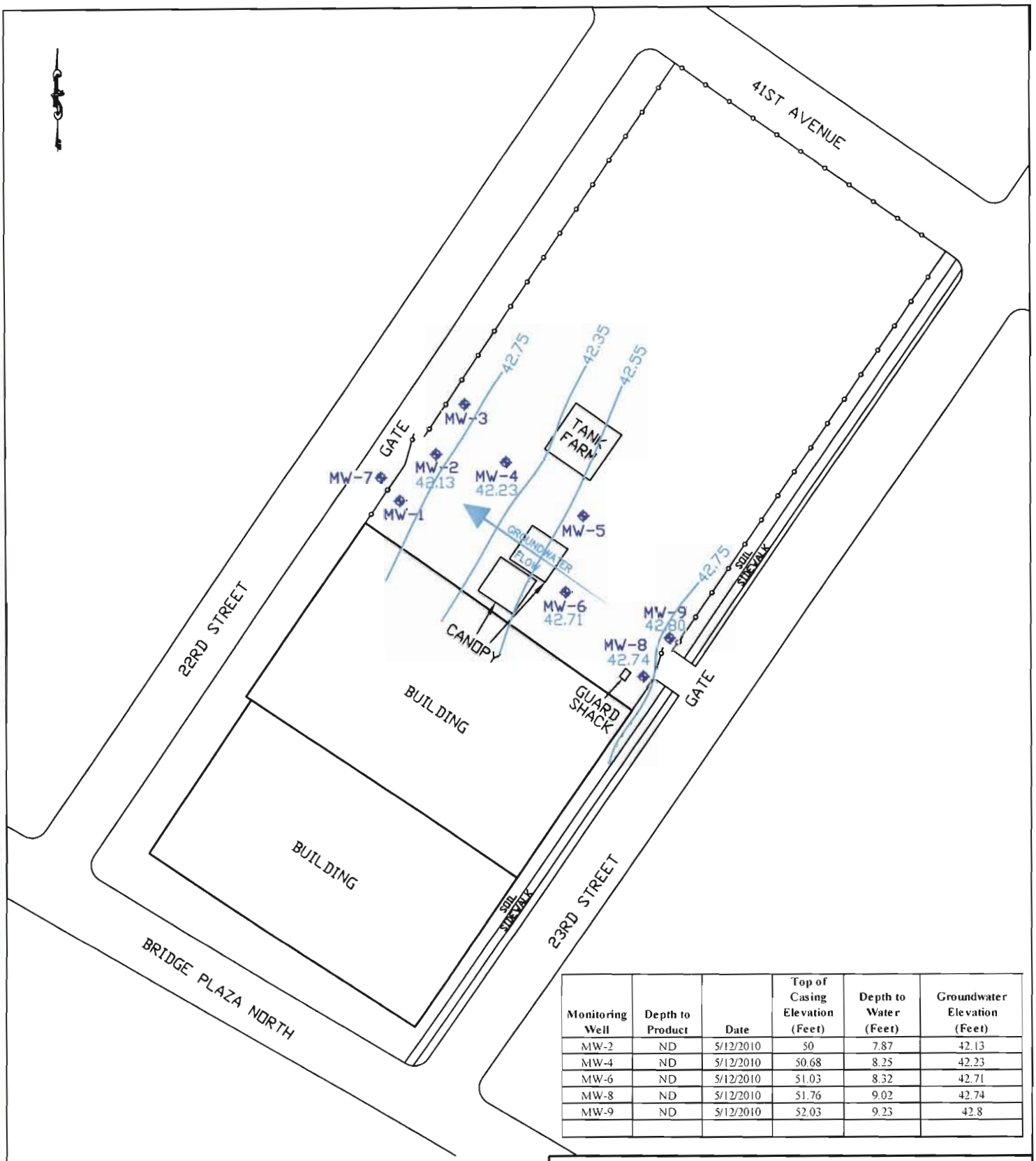
ENVIRONMENTAL SERVICES, INC.

FIGURE 2
SITE FEATURES MAP
PETROCELLI ELECTRIC COMPANY INC.
22-09 QUEENS BRIDGE PLAZA NORTH
LONG ISLAND CITY, NEW YORK

0′ 40′ 80′
SCALE: 1"=80′

DATE: 7/7/10	JOB NO.: 10BR060	SCALE: 1" = 80′



Monitoring Well	Depth to Product	Date	Top of Casing Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-2	ND	5/12/2010	50	7.87	42.13
MW-4	ND	5/12/2010	50.68	8.25	42.23
MW-6	ND	5/12/2010	51.03	8.32	42.71
MW-8	ND	5/12/2010	51.76	9.02	42.74
MW-9	ND	5/12/2010	52.03	9.23	42.8

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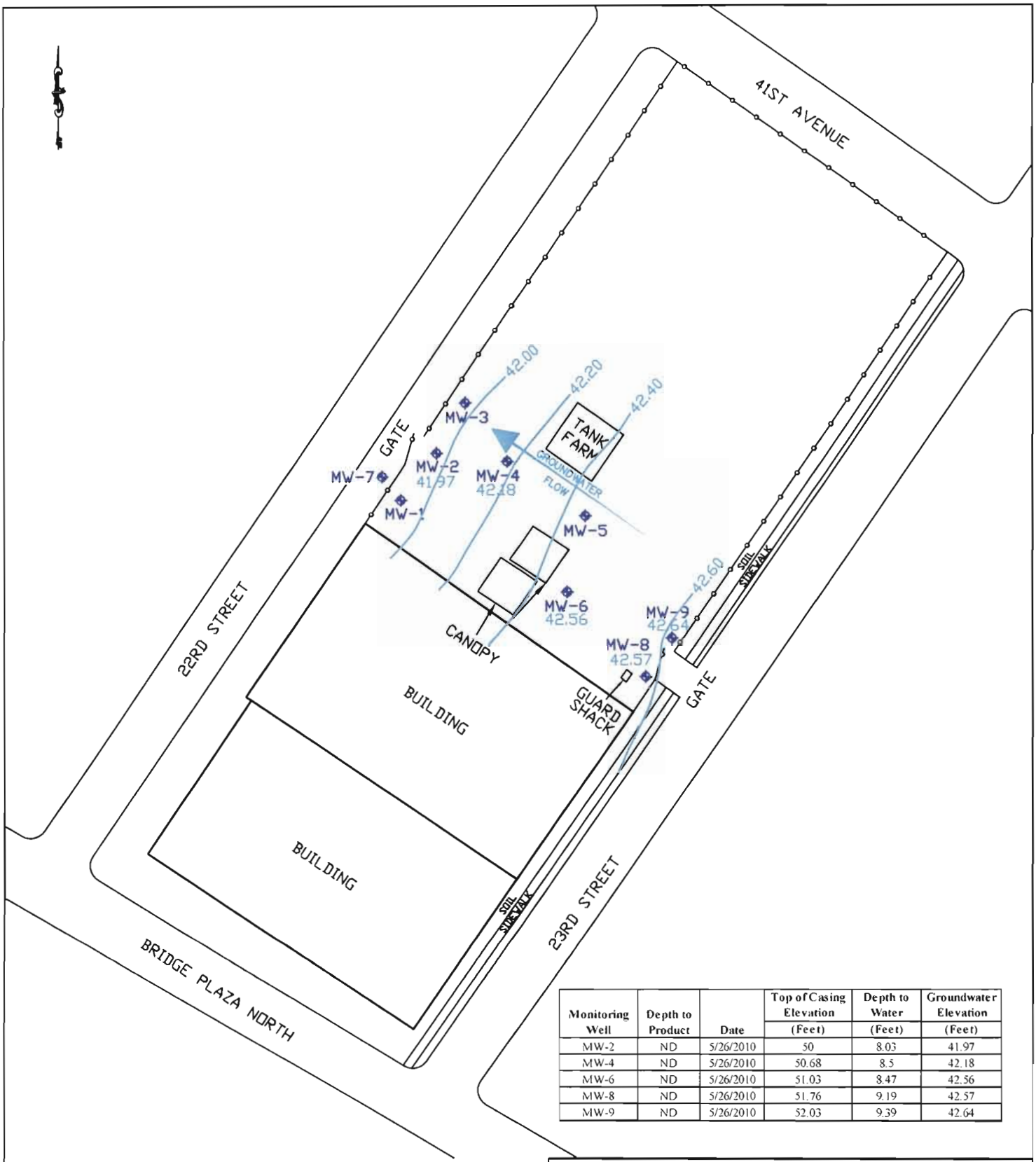
LEGEND
- MONITORING WELL LOCATION
MW-2
- GROUNDWATER FLOW DIRECTION
CONTOUR INTERVAL = 0.20 FEET

0' 40' 80'
SCALE: 1"=80'

FIGURE 3
GROUNDWATER CONTOUR MAP - MAY 12, 2010
PETROCELLI ELECTRIC COMPANY INC.
22-09 QUEENS BRIDGE PLAZA NORTH
LONG ISLAND CITY, NEW YORK

DATE: 9/1/10	JOB NO.: 10BR060	SCALE: 1" = 80'



Monitoring Well	Depth to Product	Date	Top of Casing Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-2	ND	5/26/2010	50	8.03	41.97
MW-4	ND	5/26/2010	50.68	8.5	42.18
MW-6	ND	5/26/2010	51.03	8.47	42.56
MW-8	ND	5/26/2010	51.76	9.19	42.57
MW-9	ND	5/26/2010	52.03	9.39	42.64

LEGEND

- MONITORING WELL LOCATION
MW-2
- GROUNDWATER FLOW DIRECTION

CONTOUR INTERVAL = 0.20 FEET

0' 40' 80'

SCALE: 1"=80'

BRINKERHOFF ENVIRONMENTAL SERVICES, INC.

FIGURE 4
GROUNDWATER CONTOUR MAP - MAY 26, 2010
PETROCELLI ELECTRIC COMPANY INC.
22-09 QUEENS BRIDGE PLAZA NORTH
LONG ISLAND CITY, NEW YORK

DATE: 9/1/10	JOB NO.: 10BR060	SCALE: 1" = 80'

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
One Hunters Point Plaza
47-40 21st Street, Long Island City, 11101
Phone: (718) 482-7366 • **Fax:** (718) 482-4098 • **Website:** www.dec.ny.gov

Alexander B. Grannis
Commissioner

February 11, 2010

Petrocelli Electric Co. Inc.
22-09 Queens Plaza North
Long Island City, NY 11101
Attn.: Tony Theodorakakis

Re.: Spill at 22-09 Queens Plaza N
Queens, NY
Spill Case #: 0330001

Project Manager: Hiralkumar Patel

Dear Mr. Theodorakakis,

On 04/08/2003, the New York State Department of Environmental Conservation (the Department) was notified that free petroleum product was discovered in one of the monitoring well at the above referenced site. This is a violation of Article 12 of the New York State Navigation Law (NL) Section 173. As of today, the Department has not received any subsequent information regarding the cause of the release or actions taken to address this problem. Therefore, this case will remain open in our database until the Department receives sufficient information to ascertain that the discharge has been properly cleaned up.

To rectify this problem, the Department requires the following:

1. *Delineation of Groundwater Contamination via Installation of Monitoring Wells:*
To determine the source of groundwater contamination, the Department is requiring delineation of contamination. If an off-site source is determined by the Department, the responsible parties will be held responsible for the cost of investigation and remediation. As per DER-10 (Technical Guidance for Site Investigation and Remediation, available at http://www.dec.ny.gov/regulations/2393.html) 3.7.2 (b) 4.i: "A minimum of three groundwater monitoring wells or piezometers are required in each affected aquifer or water bearing zone to determine the groundwater flow direction in that zone. The monitoring wells or piezometers must be properly installed and surveyed relative to a permanent surface structure to provide for adequate triangulation." Also as per 3.7.3 (b) 2: "A minimum of one background monitoring well should be installed in each water bearing zone that is believed to contain background groundwater contamination." During installation of the monitoring wells, soil must be sampled continuously with a photoionization detector (PID). The deepest dry soil sample and the sample with the highest PID reading must be sent to a NYSDOH certified laboratory for EPA Method 8260/8270 analyses and the results must be sent to the Department. Water samples must be analyzed for EPA Method 8260/8270 analyses. Prior to installation, all utilities must be located and marked out.

An investigation report must be submitted to the Department including: scaled site plan with

sampling locations, well installation logs, sampling results, site specific groundwater flow direction, site observations, conclusions and recommendations. The report must be **submitted to this office no later than two months from the date of this letter**. It should be sent to my attention, referencing the spill case number and the site address. Additional borings/monitoring wells and/or a remedial action plan may be required based upon review of the investigation report.

The Department holds the responsible party liable for addressing any on- or off-site contamination associated with this spill case. Under the New York State Environmental Conservation Law (ECL) and/or the New York State Navigation Law (NL), any person who discharges petroleum and fails to promptly clean up such prohibited discharge may be subject to a penalty of up to $37,500 per day per violation.

If you have any questions, please call me at (718) 482-7366.

Sincerely,

Hiralkumar Patel
Environmental Engineer 1
Spill Prevention & Response Programs

0211175 - Tim Dennis No Further Action

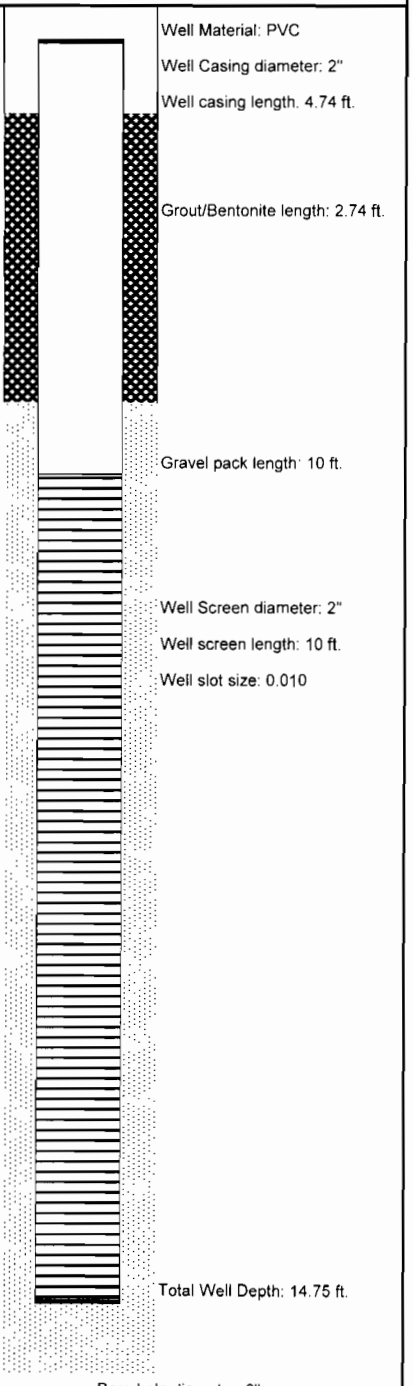
MW-8 Well Construction Log
Petrocelli Electric Company
Long Island City, New York

Project: Petrocelli Electric Co. Inc.		Boring/Well No.: MW-8
Project No.: 10BR060	Drilling Co.:Foresight Enviroprobe Inc.	Lock No.:
Site: 22-09 Quenns Plaza North, Long Island City, NY	Driller: Daryl	Start Date: 5-12-10
Geologist: Duane Shinton	Drilling Method: Hollow Stem Auger (HSA)	Date Complete: 5-12-10
Top of Casing Elev.: NA	Drilling Equip: Geoprobe 6600	Total Boring Depth: 14.75 ft.
Screen Interval: 4.75' to 14.75' below grade	Static Water (below TOC): 9.06 feet	Product Thickness: Not applicable

Remarks: well was developed for approximately one-hour utilizing a submersible pump at a rate of 1 gpm.

GEOLOGIC LOG	Depth (ft.)	Blow/6 inches	Recovery (inches)	PID (ppm)	Sample
Concrete (sawed and jackhammered).	0-1.0	NA	NA	ND	NA
Brown and gray sand.	1.0-1.5	NA	NA	ND	NA
Brown silty sand and clay.	1.5-5.0	NA	NA	ND	NA
Brown and yellow silt and clay.	5.0-7.5	NA	NA	ND	NA
Red and brown sand with fine quartz.	7.5-10.0	NA	NA	ND	NA
Red and brown sand with fine quartz.	10.0-13.0	NA	NA	ND	NA
Red and brown medium sand.	13.0-15.0	NA	NA	ND	NA

AS-BUILT WELL SCHEMATIC



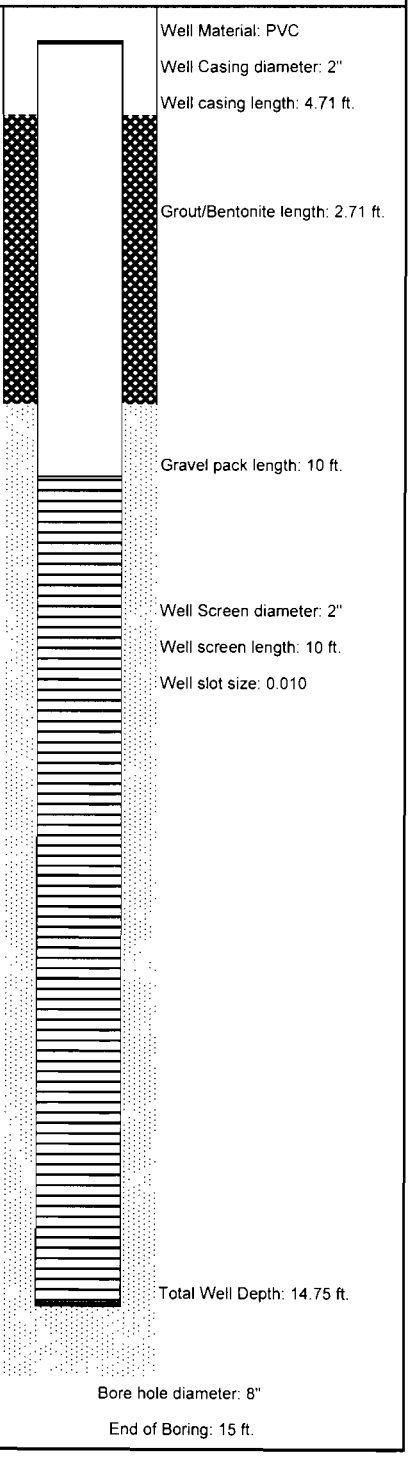
MW-9 Well Construction Log
Petrocelli Electric Company
Long Island City, New York

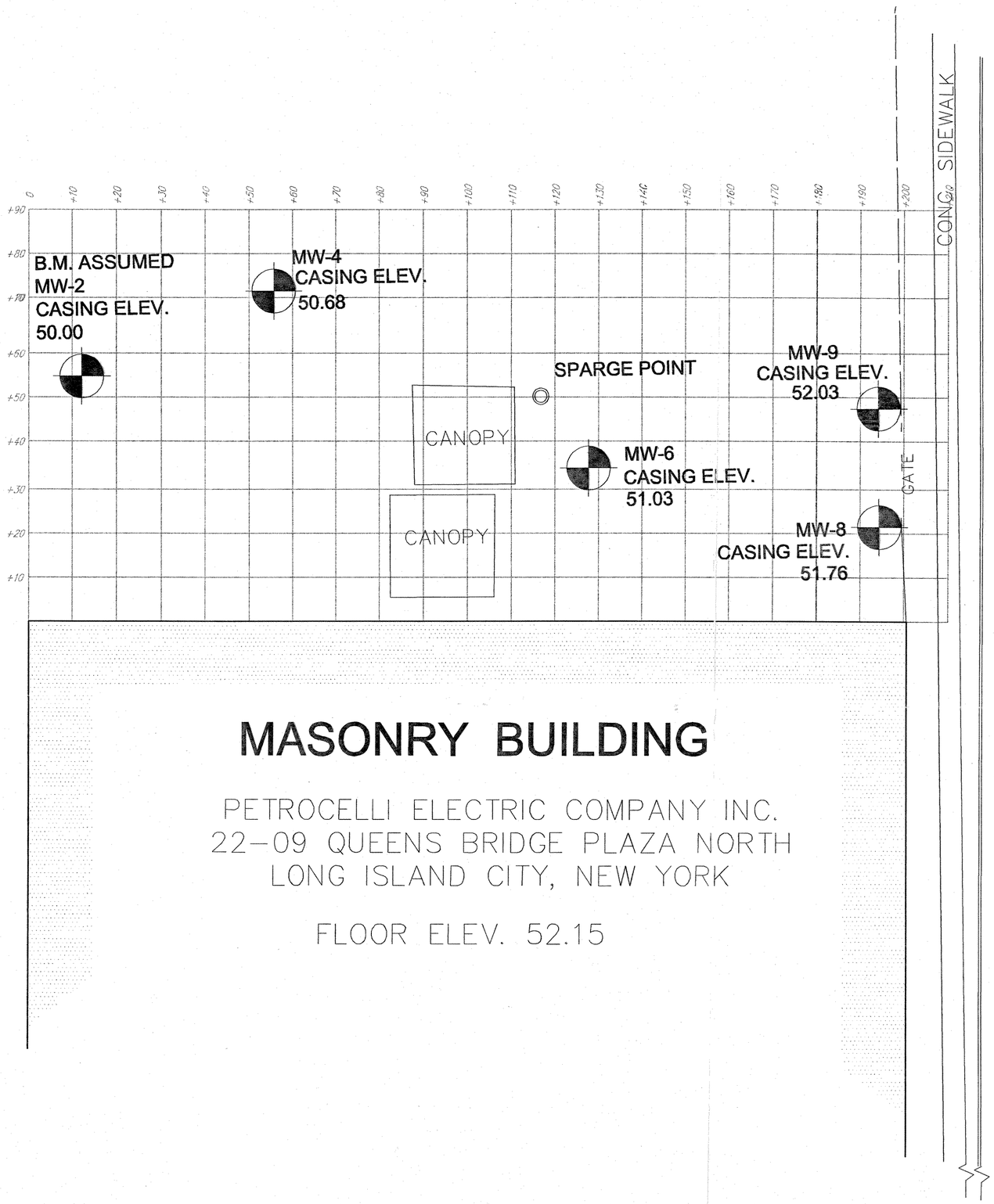
Project: Petrocelli Electric Co. Inc.		Boring/Well No.: MW-9
Project No.: 10BR060	Drilling Co.:Foresight Enviroprobe Inc.	Lock No.:
Site: 22-09 Quenns Plaza North, Long Island City, NY	Driller: Daryl	Start Date: 5-12-10
Geologist: Duane Shinton	Drilling Method: Hollow Stem Auger (HSA)	Date Complete: 5-12-10
Top of Casing Elev.: NA	Drilling Equip: Geoprobe 6600	Total Boring Depth: 14.75 ft.
Screen Interval: 4.71' to 14.71' below grade	Static Water (below TOC): 9.23 feet	Product Thickness: Not applicable

Remarks: well was developed for approximately one-hour utilizing a submersible pump at a rate of 1 gpm.

GEOLOGIC LOG	Depth (ft.)	Blow/6 inches	Recovery (inches)	PID (ppm)	Sample
Concrete (sawed and jackhammered).	0-1.0	NA	NA	ND	NA
Fill material and brown sand.	1.0-5.0	NA	NA	ND	NA
Red and yellow medium fine sand.	5.0-6.0	NA	NA	ND	NA
Brown and yellow silt and some fine sand.	6.0-8.0	NA	NA	ND	NA
Yellow and brown fine silty sand.	8.0-9.5	NA	NA	ND	NA
Red and brown medium-fine sand with crushed quartz.	9.5-15.0	NA	NA	ND	NA

AS-BUILT WELL SCHEMATIC





PETROCELLI ELECTRIC COMPANY INC.
22-09 QUEENS BRIDGE PLAZA NORTH
LONG ISLAND CITY, NEW YORK

FLOOR ELEV. 52.15

BRIDGE PLAZA NORTH

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MAP OF WELL LOCATIONS
PETROCELLI ELECTRIC COMPANY INC.
22-09 QUEENS BRIDGE PLAZA NORTH
LONG ISLAND CITY, NEW YORK

Lawrence J. Borio
Professional Land Surveyor
Professional Planner
229 Pine Drive, Bayville, N.J. 08721
(732) 269-5615

Lawrence J. Borio, L.S. , P.P.
New Jersey Land Surveyor Lic. No. 26807
New Jersey Professional Planner Lic. No. 3015

6/15/10
DATE

Date	File
5 June 10	10-2557
Scale	Drn. By
1"=20'	D.A.

1 of 1

APL

Aqua Pro-Tech Laboratories
Certified Environmental Testing

Analytical Results
GC/MS VOLATILES AND SEMI-VOLATILES

Brinkerhoff Environmental
Manasquan, NJ

Project: Petrocelli Electric

Reviewed By: _____ 07-Jun-2010
Olga Deleanu, Organics Manager — Date

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey, 07004
(t)973.227.0422 (f)973.227.2813 (w)www.aquaprotechlabs.com
NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010/NYDOH #11634
CTPHB #0233/US ARMY

THIS REPORT CONTAINS 100 PAGES

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APL

AQUA PRO-TECH LABORATORIES

www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

PAGE 1 OF 1

CLIENT: Brinkerhoff	SEND REPORT TO: Ron Rosenberg
ADDRESS: 1913 Atlantic Ave Manasquan, NJ 08736	ADDRESS:
PHONE: 732-223-2225	PHONE:
E-MAIL: rrosenberg@brinkenv.com	FAX:
PROJECT NAME: Petrocelli Electric	SEND INVOICE TO: Ron Rosenberg
PROJECT MGR: Ron Rosenberg	ADDRESS:
P.O. NUMBER 10BR060	SAMPLED BY: Duane Shinton

CONTAMINATION LEVEL
☐ HIGH ☐ MEDIUM ☑ LOW

TURN-AROUND TIME
- ☑ APL STANDARD 2 weeks
- ☐ RUSH (choose one below)
  - ☐ 24 hr. date & time required
  - ☐ 48 hr. date & time required
  - ☐ 72 hr. date & time required
  - ☐ 1 week

REPORT FORMAT
- ☐ RESULTS ONLY
- ☑ NJ DEP REDUCED DELIVERABLES
- ☐ NJ DEP FULL DELIVERABLES
- ☐ ELECTRONIC DATA DELIVERY

SRP# _____
☐ STATE FORMS/E2 REPORTING

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
10504600-1	SB-MW-8	5-12-10	1050	X		S	1	ICE	VOCs 8260, SVOCs-BNs 8270
2	SB-MW9	5-12-10	1235	X		S	1	ICE	√

RELINQUISHED BY (Print) Duane Shinton	DATE 5.13.10	RECEIVED BY (Print) Paul DeFrancesco	
Signature	Time 09:40	Signature	
RELINQUISHED BY (Print) Paul DeFrancesco	DATE 5.13.10	RECEIVED BY (Print)	
Signature	Time 13:10	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS

NYASP Cat. A

Cooler Temp. upon receipt at lab 4°C

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

Extractable Petroleum Hydrocarbons:
Gas Chromatography/Flame Ionization Detector
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8015B or
NJDEP Office of Quality Assurance Quantitation of Semi-Volatile Petroleum Products in Water, Soil and Sediment OQA-QAM-025, Revision 6.

Metals:
Inductively-Coupled Plasma Atomic Emission Spectrometry
Water Samples-USEPA Methods for the Analysis of Water and Wastes, Method 200.7
Soil Samples-USEPA Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 6010B.

Mercury:
Cold Vapor Atomic Absorption Spectrometry
Water Samples-USEPA Methods for the Analysis of Water and Wastes, Method 245.1
Soil Samples-USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 7171A.

Volatile Organic Compounds:
Purge and Trap Gas Chromatography/Mass Spectroscopy
Drinking Water Samples-USEPA Methods for the Determination of Organic Compounds in Drinking Water, Method 524.2.
Water Samples-USEPA Methods for the Analysis of Water and Wastes, Method 624.
Soil Samples-USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8260B

Semi-Volatile Organic Compounds:
Gas Chromatography/Mass Spectroscopy
Water Samples-USEPA Methods for the Analysis of Water and Wastes, Method 625.
Soil Samples-USEPA SW-846 Test Methods for Evaluating Soil Waste Physical/Chemical Methods Update III, Method 8270C.

Pesticides:
Gas Chromatography/Electron Capture Detector
Water Samples-USEPA Methods for the Analysis of Water and Wastes, Method 608.
Soil Samples-USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8081A.

Polychlorinated Biphenyls (PCBs):
Gas Chromatography/Electron Capture Detector.
Water Samples-USEPA Methods for the Analysis of Water and Wastes, Method 608.
Soil Samples-USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8082

General Chemistry Methods:
Various general chemistry methods are taken from Standard Methods for the Examination of Water and Wastewater, 19th Edition. Specific method citations can be found on the Analytical Results Summary page of this report listed under 'Method'.

MDL:
Method Detection Limit. The minimum reportable concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The value is calculated from the analysis of seven replicates of a spike sample. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

PQL:
Practical Quantitation Limit. The Concentration of the lowest calibration standard that was included in the initial calibration of the instrument. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

Concentration (Conc) / Result:
If the compound is detected, the measured concentration is reported. If this column is left blank, or contains a 'less than' (<) symbol, the compound was not detected.

Tentatively Identified Compound (TIC):
A TIC is a non-targeted compound, not included in the calibration, identified by a mass spectral library search.

Qualifiers:

U:
Indicates the compound was analyzed for but was not detected.

J:
Indicates an estimated value. All tentatively identified compounds (TICs) and results below the MDL receive this qualifier.

B:
Indicates the analyte was found in the method blank as well as the sample.

E:
Indicates that the concentration of the compound exceeds the calibration range of the instrument. The results of a diluted analysis will also be reported. The results of the dilution should be used for those compounds exceeding the calibration range in the undiluted analysis.

N:
Used when reporting a specific tentatively identified compound.

Volatile Organics

by

GC/MS

Aqua Pro-Tech Laboratories
Sample Location and Identification
GC/MS VOLATILES

Client Sample Number	Aqua Pro-Tech Sample Number	Matrix
SB-MW-8	10050460-001	Soil
SB-MW-9	10050460-002	Soil

Aqua Pro-Tech Laboratories
Laboratory Chronicle
GC/MS VOLATILES

	Date Performed	Performed By
Receipt/Refrigeration:	5/13/10	KPONSI

Analysis	Date Analyzed	Analyzed By
10050460-001	05/25/2010	O. Deleanu
10050460-002	05/25/2010	O. Deleanu

Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-8

Sample Weight 5.0 Grams
Level: Low
% Moisture: 10.2%

Lab Sample ID: 10050460-001
Lab File ID: 1V0660.D
Date Collected: 12-May-10

Date Analyzed: 25-May-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/kg	Q	MDL	PQL
75-71-8	Dichlorodifluoromethane		U	1.04	5.57
74-87-3	Chloromethane		U	0.947	5.57
75-01-4	Vinyl Chloride		U	0.935	5.57
74-83-9	Bromomethane		U	1.92	5.57
75-00-3	Chloroethane		U	1.04	5.57
75-69-4	Trichlorofluoromethane		U	0.846	5.57
107-02-8	Acrolein		U	1.71	55.7
67-64-1	Acetone		U	3.13	5.57
75-35-4	1,1-Dichloroethene		U	1.16	5.57
75-65-0	tert-Butyl Alcohol		U	18.8	55.7
75-09-2	Methylene Chloride		U	1.57	5.57
75-15-0	Carbon Disulfide		U	1.08	5.57
107-13-1	Acrylonitrile		U	2.46	55.7
1634-04-4	Methyl tert-Butyl Ether		U	1.70	5.57
156-60-5	trans-1,2-Dichloroethene		U	1.51	5.57
75-34-3	1,1-Dichloroethane		U	1.33	5.57
108-05-4	Vinyl Acetate		U	1.68	5.57
78-93-3	2-Butanone		U	1.51	5.57
594-20-7	2,2-Dichloropropane		U	1.19	5.57
156-59-2	cis-1,2-Dichloroethene		U	1.15	5.57
67-66-3	Chloroform		U	0.958	5.57
74-97-5	Bromochloromethane		U	1.33	5.57
71-55-6	1,1,1-Trichloroethane		U	1.30	5.57
563-58-6	1,1-Dichloropropene		U	1.01	5.57
56-23-5	Carbon Tetrachloride		U	1.11	5.57
107-06-2	1,2-Dichloroethane		U	1.29	5.57
71-43-2	Benzene		U	1.40	5.57
79-01-6	Trichloroethene		U	1.40	5.57
78-87-5	1,2-Dichloropropane		U	1.55	5.57
75-27-4	Bromodichloromethane		U	1.01	5.57
74-95-3	Dibromomethane		U	1.00	5.57
110-75-8	2-Chloroethylvinyl ether		U	1.48	11.1
108-10-1	4-Methyl-2-Pentanone		U	1.36	5.57
10061-01-5	cis-1,3-Dichloropropene		U	1.28	5.57
108-88-3	Toluene		U	1.35	5.57
10061-02-6	trans-1,3-Dichloropropene		U	1.27	5.57
79-00-5	1,1,2-Trichloroethane		U	1.33	5.57
591-78-6	2-Hexanone		U	2.20	5.57
142-28-9	1,3-Dichloropropane		U	1.48	5.57

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-8

Sample Weight 5.0 Grams
Level: Low
% Moisture: 10.2%

Lab Sample ID: 10050460-001
Lab File ID: 1V0660.D
Date Collected: 12-May-10

Date Analyzed: 25-May-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/kg	Q	MDL	PQL
127-18-4	Tetrachloroethene		U	1.59	5.57
124-48-1	Dibromochloromethane		U	1.19	5.57
106-93-4	1,2-Dibromoethane		U	1.28	5.57
108-90-7	Chlorobenzene		U	1.22	5.57
630-20-6	1,1,1,2-Tetrachloroethane		U	1.50	5.57
100-41-4	Ethylbenzene		U	1.63	5.57
1330-20-7	m+p-Xylenes		U	2.62	11.1
95-47-6	o-Xylene		U	1.33	5.57
100-42-5	Styrene		U	1.53	5.57
75-25-2	Bromoform		U	1.79	5.57
79-34-5	1,1,2,2-Tetrachloroethane		U	1.70	5.57
96-18-4	1,2,3-Trichloropropane		U	1.37	5.57
108-86-1	Bromobenzene		U	1.36	5.57
95-49-8	2-Chlorotoluene		U	1.39	5.57
106-43-4	4-Chlorotoluene		U	1.94	5.57
541-73-1	1,3-Dichlorobenzene		U	2.13	5.57
106-46-7	1,4-Dichlorobenzene		U	1.56	5.57
95-50-1	1,2-Dichlorobenzene		U	1.71	5.57
96-12-8	1,2-Dibromo-3-chloropropane		U	5.38	5.57
120-82-1	1,2,4-Trichlorobenzene		U	1.92	5.57
87-68-3	Hexachlorobutadiene		U	3.03	5.57
91-20-3	Naphthalene		U	2.16	5.57
87-61-6	1,2,3-Trichlorobenzene		U	3.56	5.57

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-8

Sample Weight 5.0 Grams
Level: Low
% Moisture: 10.2%

Lab Sample ID: 10050460-001
Lab File ID: 1V0660.D
Date Collected: 12-May-10

Date Analyzed: 25-May-10
Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT
	unknown	258	J	18.7
17302-28-2	Nonane, 2,6-dimethyl-	825	JN	20.04
	unknown	977	J	20.72
493-02-7	Naphthalene, decahydro-, trans-	648	JN	21.71

Number of TICs found: 4
Total Est. Concentration: 2708 ug/kg

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

Data File : G:\HPChem\1\Data\05252010\1V0660.D Vial: 5
Acq On : 25 May 2010 3:00 pm Operator: omd
Sample : 10050460-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 15:34 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.12	168	47480	50.00	ug/kg	-0.01
30) 1,4-Difluorobenzene	12.99	114	70805	50.00	ug/kg	0.00
47) Chlorobenzene-d5	17.59	82	49040	50.00	ug/kg	0.02
69) 1,4-Dichlorobenzene-d4	21.52	152	32878	50.00	ug/kg	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	11.50	113	87751	45.98	ug/kg	-0.01
Spiked Amount 50.000	Range 59 - 147		Recovery = 91.96%			
38) Toluene-d8	15.10	98	393620	40.87	ug/kg	-0.01
Spiked Amount 50.000	Range 66 - 134		Recovery = 81.74%			
57) 4-Bromofluorobenzene	19.55	95	150663	52.90	ug/kg	0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 105.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\05252010\1V0660.D
Acq On : 25 May 2010 3:00 pm
Sample : 10050460-001
Misc : soil 5.0g
MS Integration Params: RTEINT.P
Quant Time: May 25 15:34 2010

Vial: 5
Operator: omd
Inst : GC/MS-1
Multiplr: 1.00

Quant Results File: 0309WC1.RES

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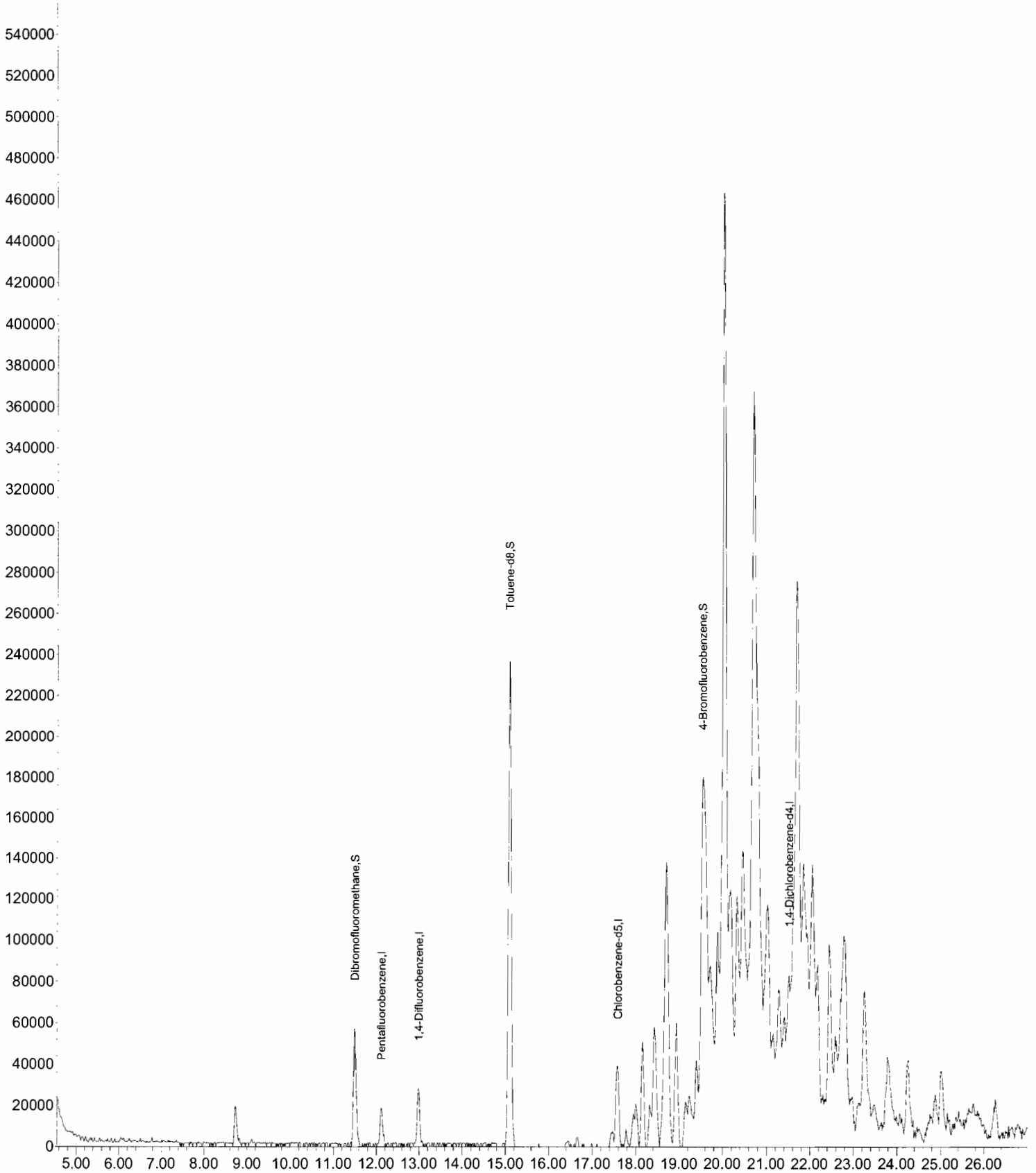
Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

Approved:
25-May-2010 17:57
OD

TIC: 1V0660.D



Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-9

Sample Weight 5.0 Grams
Level: Low
% Moisture: 13.4%

Lab Sample ID: 10050460-002
Lab File ID: 1V0661.D
Date Collected: 12-May-10

Date Analyzed: 25-May-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/kg	Q	MDL	PQL
75-71-8	Dichlorodifluoromethane		U	1.07	5.77
74-87-3	Chloromethane		U	0.982	5.77
75-01-4	Vinyl Chloride		U	0.970	5.77
74-83-9	Bromomethane		U	1.99	5.77
75-00-3	Chloroethane		U	1.07	5.77
75-69-4	Trichlorofluoromethane		U	0.878	5.77
107-02-8	Acrolein		U	1.78	57.7
67-64-1	Acetone		U	3.24	5.77
75-35-4	1,1-Dichloroethene		U	1.20	5.77
75-65-0	tert-Butyl Alcohol		U	19.5	57.7
75-09-2	Methylene Chloride		U	1.63	5.77
75-15-0	Carbon Disulfide		U	1.12	5.77
107-13-1	Acrylonitrile		U	2.55	57.7
1634-04-4	Methyl tert-Butyl Ether		U	1.77	5.77
156-60-5	trans-1,2-Dichloroethene		U	1.57	5.77
75-34-3	1,1-Dichloroethane		U	1.37	5.77
108-05-4	Vinyl Acetate		U	1.74	5.77
78-93-3	2-Butanone		U	1.57	5.77
594-20-7	2,2-Dichloropropane		U	1.24	5.77
156-59-2	cis-1,2-Dichloroethene		U	1.19	5.77
67-66-3	Chloroform		U	0.993	5.77
74-97-5	Bromochloromethane		U	1.37	5.77
71-55-6	1,1,1-Trichloroethane		U	1.35	5.77
563-58-6	1,1-Dichloropropene		U	1.05	5.77
56-23-5	Carbon Tetrachloride		U	1.15	5.77
107-06-2	1,2-Dichloroethane		U	1.34	5.77
71-43-2	Benzene		U	1.45	5.77
79-01-6	Trichloroethene		U	1.45	5.77
78-87-5	1,2-Dichloropropane		U	1.61	5.77
75-27-4	Bromodichloromethane		U	1.05	5.77
74-95-3	Dibromomethane		U	1.04	5.77
110-75-8	2-Chloroethylvinyl ether		U	1.54	11.5
108-10-1	4-Methyl-2-Pentanone		U	1.41	5.77
10061-01-5	cis-1,3-Dichloropropene		U	1.33	5.77
108-88-3	Toluene		U	1.40	5.77
10061-02-6	trans-1,3-Dichloropropene		U	1.32	5.77
79-00-5	1,1,2-Trichloroethane		U	1.37	5.77
591-78-6	2-Hexanone		U	2.29	5.77
142-28-9	1,3-Dichloropropane		U	1.54	5.77

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-9

Sample Weight 5.0 Grams
Level: Low
% Moisture: 13.4%

Lab Sample ID: 10050460-002
Lab File ID: 1V0661.D
Date Collected: 12-May-10

Date Analyzed: 25-May-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/kg	Q	MDL	PQL
127-18-4	Tetrachloroethene		U	1.65	5.77
124-48-1	Dibromochloromethane		U	1.24	5.77
106-93-4	1,2-Dibromoethane		U	1.33	5.77
108-90-7	Chlorobenzene		U	1.27	5.77
630-20-6	1,1,1,2-Tetrachloroethane		U	1.56	5.77
100-41-4	Ethylbenzene		U	1.69	5.77
1330-20-7	m+p-Xylenes		U	2.71	11.5
95-47-6	o-Xylene		U	1.37	5.77
100-42-5	Styrene		U	1.58	5.77
75-25-2	Bromoform		U	1.86	5.77
79-34-5	1,1,2,2-Tetrachloroethane		U	1.77	5.77
96-18-4	1,2,3-Trichloropropane		U	1.42	5.77
108-86-1	Bromobenzene		U	1.41	5.77
95-49-8	2-Chlorotoluene		U	1.44	5.77
106-43-4	4-Chlorotoluene		U	2.01	5.77
541-73-1	1,3-Dichlorobenzene		U	2.21	5.77
106-46-7	1,4-Dichlorobenzene		U	1.62	5.77
95-50-1	1,2-Dichlorobenzene		U	1.78	5.77
96-12-8	1,2-Dibromo-3-chloropropane		U	5.58	5.77
120-82-1	1,2,4-Trichlorobenzene		U	1.99	5.77
87-68-3	Hexachlorobutadiene		U	3.14	5.77
91-20-3	Naphthalene		U	2.24	5.77
87-61-6	1,2,3-Trichlorobenzene		U	3.70	5.77

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-9

Sample Weight 5.0 Grams
Level: Low
% Moisture: 13.4%

Lab Sample ID: 10050460-002
Lab File ID: 1V0661.D
Date Collected: 12-May-10

Date Analyzed: 25-May-10
Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT
2847-72-5	Decane, 4-methyl-	638	JN	20.05
	unknown hydrocarbon	690	J	20.71
	unknown	479	J	21.71

Number of TICs found: 3
Total Est. Concentration: 1807 ug/kg

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

Data File : G:\HPChem\1\Data\05252010\1V0661.D Vial: 6
Acq On : 25 May 2010 3:39 pm Operator: omd
Sample : 10050460-002 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 18:49 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
Data Acq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.12	168	52281	50.00	ug/kg	0.00
30) 1,4-Difluorobenzene	12.98	114	76861	50.00	ug/kg	-0.02
47) Chlorobenzene-d5	17.58	82	54239	50.00	ug/kg	0.02
69) 1,4-Dichlorobenzene-d4	21.52	152	37066	50.00	ug/kg	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	11.49	113	96655	45.99	ug/kg	-0.02
Spiked Amount 50.000	Range 59 - 147		Recovery = 91.98%			
38) Toluene-d8	15.09	98	417453	39.93	ug/kg	-0.02
Spiked Amount 50.000	Range 66 - 134		Recovery = 79.86%			
57) 4-Bromofluorobenzene	19.54	95	155121	49.24	ug/kg	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 98.48%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\05252010\1V0661.D Vial: 6
Acq On : 25 May 2010 3:39 pm Operator: omd
Sample : 10050460-002 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 18:49 2010 Quant Results File: 0309WC1.RES

Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

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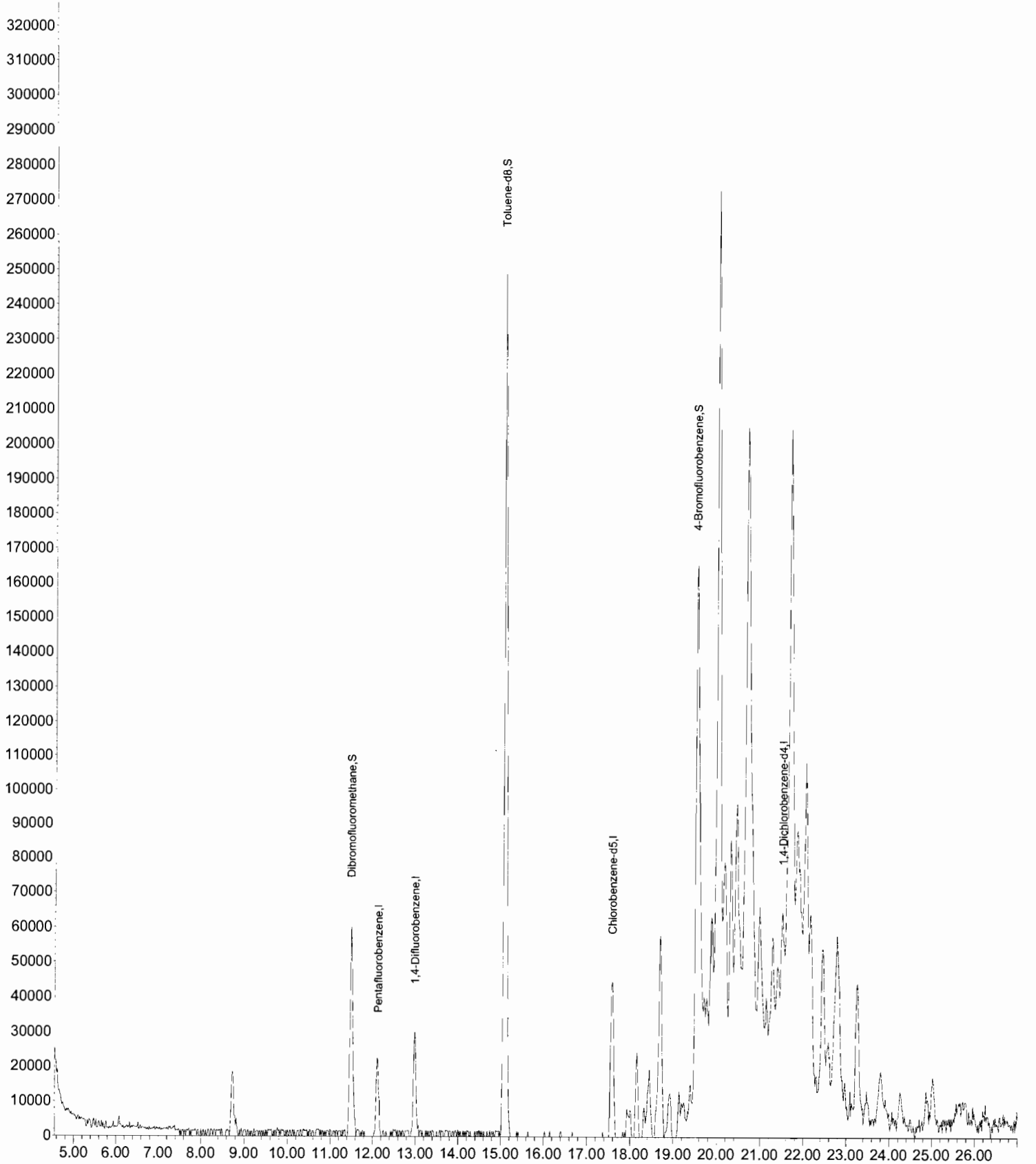
Approved:
25-May-2010 17:57
OS

TIC: 1V0661.D



Aqua Pro-Tech Laboratories
Conformance/Non-Conformance Checklist

	YES	NO
GC/MS TUNE SPECIFICATIONS		
BFB passes criteria	X	
GC/MS TUNING FREQUENCY		
Method 624-Performed within 24 hours prior to sample analysis		
Method 8260B-Performed within 12 hours prior to sample analysis	X	
GC/MS INITIAL CALIBRATION REQUIREMENTS		
Calibration Check Compounds pass criteria	X	
System Performance Check Compounds pass criteria	X	
GC/MS CONTINUING CALIBRATION PASS REQUIREMENTS	X	
SURROGATE RECOVERIES PASS CRITERIA	X	
MATRIX SPIKE/SPIKE DUPLICATE RECOVERIES PASS CRITERIA		X
BLANK SPIKE RECOVERIES PASS CRITERIA	X	
INTERNAL STANDARD AREAS AND RETENTION TIMES PASS CRITERIA	X	
ANALYSIS HOLDING TIMES MET (from date of collection)		
Method 624 (non-preserved water)-7 days		
Method 624 (acid preserved water)-14 days		
Method 8260B(soil/solid waste)-14 days	X	

COMMENTS:
The matrix spike (1V0718) and the matrix spike dup (1V0719) failed the QC criteria for Trichloroethene.

Reviewed By: Tracie Schmid

Tracie Schmid

02-Jun-2010
Date

Form 2 Volatile Organics Soil
Volatile System Monitoring (Surrogate) Compound Recovery

Client: Brinkerhoff Environmental
Project: Petrocelli Electric

		(% Recovery)
QC Limits	S1 = Dibromofluoromethane	(59 - 147%)
	S2 = Toluene-d8	(66 - 134%)
	S3 = 4-Bromofluorobenzene	(64 - 125%)

* = Values outside of QC limits
D = System Monitoring Compound diluted out

Sample ID	Sample Name	S1	S2	S3	TOTAL OUT
10050460-001	SB-MW-8	92	82	106	0
10050460-002	SB-MW-9	92	80	98	0
Blank - 1	Blank	96	79	100	0

Aqua Pro-Tech Laboratories

Volatile Matrix Spike/Matrix Spike Duplicate Recovery

Client: Brinkerhoff Environmental
Project: Petrocelli Electric

Sample File: 10050726-001 (G:\HPChem\1\Data\06012010\1V0717.D)

CAS	Compound	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limits % Rec
79-01-6	Trichloroethene	213	0	271	127*	83 - 119
108-90-7	Chlorobenzene	213	0	198	93	77 - 121
108-88-3	Toluene	213	0	209	98	74 - 116
75-35-4	1,1-Dichloroethene	213	0	229	107	67 - 116
71-43-2	Benzene	213	0	242	114	79 - 118

Compound	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Rec	RPD %	QC Limits	
					RPD	% Rec
Trichloroethene	213	270	127*	1	12	83 - 119
Chlorobenzene	213	212	99	6	14	77 - 121
Toluene	213	234	110	12	16	74 - 116
1,1-Dichloroethene	213	247	116	8	22	67 - 116
Benzene	213	247	116	2	14	79 - 118

* Values outside of QC limits

RPD: 0 out of 5 outside of limits
Spike Recovery: 2 out of 10 outside of limits

Data File : G:\HPChem\1\Data\06012010\1V0717.D Vial: 18
Acq On : 1 Jun 2010 11:53 pm Operator: omd
Sample : 10050726-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 11:35 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
Data Acq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.15	168	39714	50.00	ug/kg	0.03
30) 1,4-Difluorobenzene	13.03	114	65947	50.00	ug/kg	0.02
47) Chlorobenzene-d5	17.63	82	50866	50.00	ug/kg	0.06
69) 1,4-Dichlorobenzene-d4	21.57	152	38568	50.00	ug/kg	0.05
System Monitoring Compounds						
24) Dibromofluoromethane	11.54	113	82384	51.61	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 103.22%			
38) Toluene-d8	15.15	98	332634	37.08	ug/kg	0.04
Spiked Amount 50.000	Range 66 - 134		Recovery = 74.16%			
57) 4-Bromofluorobenzene	19.58	95	155970	52.80	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery = 105.60%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\06012010\1V0717.D Vial: 18
Acq On : 1 Jun 2010 11:53 pm Operator: omd
Sample : 10050726-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 11:35 2010 Quant Results File: 0309WC1.RES

Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

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Approved:
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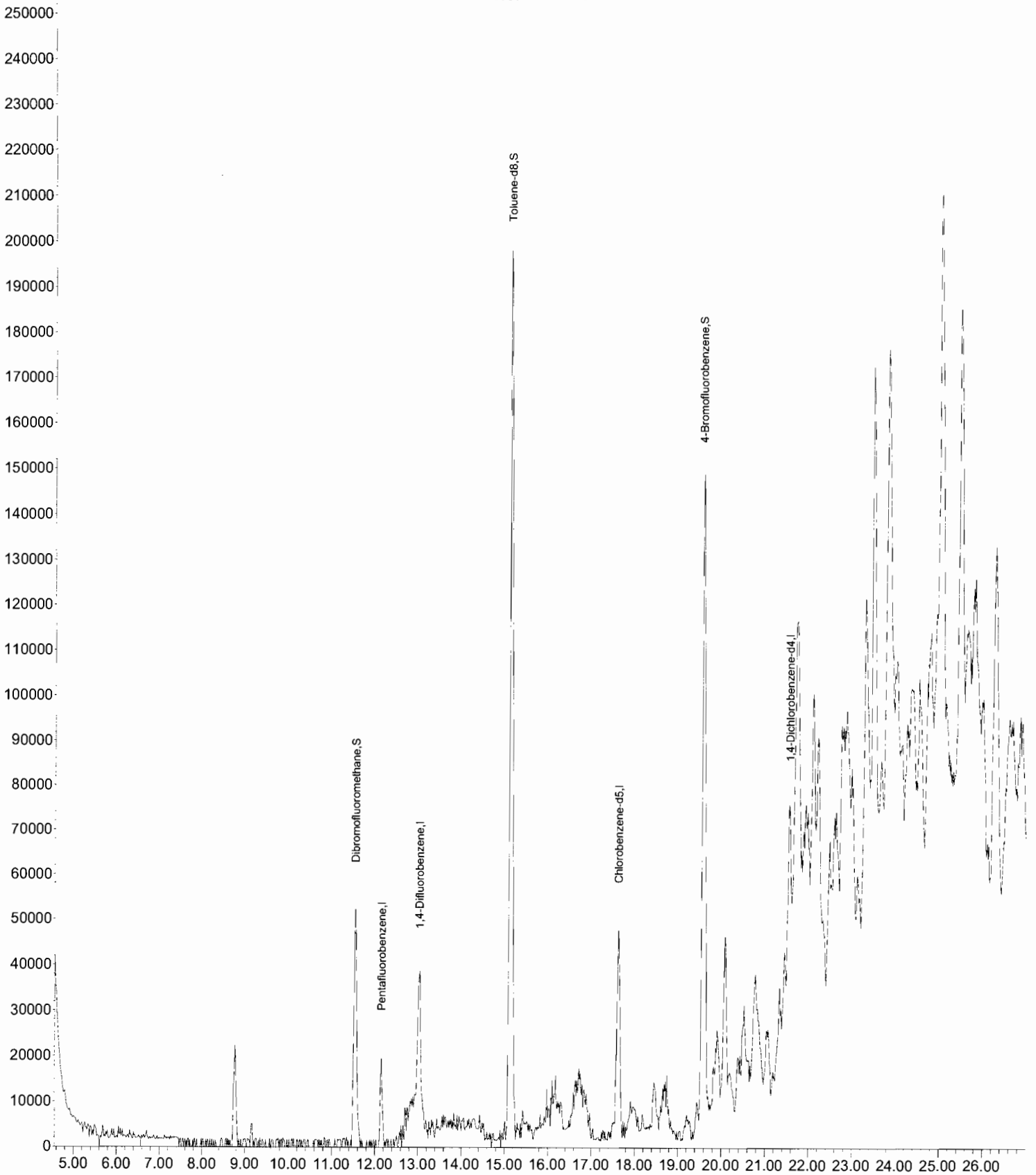
TIC: 1V0717.D



Data File : G:\HPChem\1\Data\06012010\1V0718.D Vial: 19
Acq On : 2 Jun 2010 12:32 am Operator: omd
Sample : ms10050726-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 11:35 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
Data Acq Meth : VOCRUN1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.15	168	41003	50.00	ug/kg	0.03
30) 1,4-Difluorobenzene	13.02	114	63414	50.00	ug/kg	0.01
47) Chlorobenzene-d5	17.61	82	58278	50.00	ug/kg	0.04
69) 1,4-Dichlorobenzene-d4	21.55	152	38919	50.00	ug/kg	0.03
System Monitoring Compounds						
24) Dibromofluoromethane	11.54	113	83501	50.66	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 101.32%			
38) Toluene-d8	15.14	98	343318	39.80	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 79.60%			
57) 4-Bromofluorobenzene	19.59	95	157379	46.50	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery = 93.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.82	85	158298	140.04	ug/kg	96
3) Chloromethane	5.31	50	321027	166.29	ug/kg	97
4) Vinyl Chloride	5.49	62	273779	183.01	ug/kg	91
5) Bromomethane	6.22	94	147218	85.61	ug/kg	97
6) Chloroethane	6.49	64	190246	143.43	ug/kg	90
7) Trichlorofluoromethane	6.80	101	245830	223.04	ug/kg	98
8) Acrolein	8.36	56	3388	13.63	ug/kg#	13
9) Acetone	8.83	43	25917	200.61	ug/kg	87
10) 1,1-Dichloroethene	7.77	61	313367	214.65	ug/kg	95
11) tert-Butyl Alcohol	9.26	59	74214	64.57	ug/kg	96
12) Methylene Chloride	8.77	84	203742	272.94	ug/kg	82
13) Carbon Disulfide	7.89	76	624241	219.18	ug/kg	100
14) Acrylonitrile	10.11	53	27466	45.27	ug/kg	84
15) Methyl tert-Butyl Ether	9.19	73	335394	178.46	ug/kg	97
16) trans-1,2-Dichloroethene	9.05	61	290427	217.76	ug/kg	96
17) 1,1-Dichloroethane	10.05	63	392027	241.12	ug/kg	98
18) Vinyl Acetate	10.34	43	315956	210.45	ug/kg	94
19) 2-Butanone	11.69	43	45627	219.58	ug/kg	97
20) 2,2-Dichloropropane	11.05	77	248765	204.09	ug/kg	97
21) cis-1,2-Dichloroethene	10.88	61	273367	242.74	ug/kg	85
22) Chloroform	11.25	83	301992	242.19	ug/kg	99
23) Bromochloromethane	11.19	49	177430	220.09	ug/kg#	73
25) 1,1,1-Trichloroethane	11.63	97	211886	228.44	ug/kg	91
26) 1,1-Dichloropropene	11.80	75	230994	228.13	ug/kg	94
27) Carbon Tetrachloride	11.54	117	192241	236.77	ug/kg	100
28) 1,2-Dichloroethane	12.48	62	156334	243.32	ug/kg	98
29) Benzene	12.18	78	650441	227.34	ug/kg	98
31) Trichloroethene	13.03	130	134570	254.11	ug/kg	92
32) 1,2-Dichloropropane	13.83	63	166776	207.46	ug/kg	99
33) Bromodichloromethane	13.88	83	169214	223.10	ug/kg	96
34) Dibromomethane	13.71	174	49895	199.99	ug/kg	79
35) 2-Chloroethylvinyl ether	14.65	63	69078	150.30	ug/kg	89
36) 4-Methyl-2-Pentanone	15.71	43	127154	187.12	ug/kg	96
37) cis-1,3-Dichloropropene	14.83	75	207577	178.68	ug/kg	97
39) Toluene	15.22	91	737092	195.68	ug/kg	99
40) trans-1,3-Dichloropropene	15.80	75	168304	184.86	ug/kg#	91
41) 1,1,2-Trichloroethane	16.08	97	82116	195.03	ug/kg	92
42) 2-Hexanone	17.00	43	96257	179.28	ug/kg#	97
43) 1,3-Dichloropropane	16.54	76	183821	183.06	ug/kg	100
44) Tetrachloroethene	15.86	166	172600	247.53	ug/kg	99
45) Dibromochloromethane	16.41	129	97285	181.38	ug/kg	95
46) 1,2-Dibromoethane	16.86	107	78951	183.42	ug/kg	82
48) Chlorobenzene	17.64	112	420660	185.94	ug/kg	99
49) 1,1,1,2-Tetrachloroethane	17.72	131	145889	206.18	ug/kg	95

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\06012010\1V0718.D Vial: 19
Acq On : 2 Jun 2010 12:32 am Operator: omd
Sample : ms10050726-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 11:35 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
Data Acq Meth : VOCRUN1

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	Ethylbenzene	17.61	91	953041	187.82 ug/kg	95
51)	m+p-Xylenes	17.83	106	648658	387.75 ug/kg	87
52)	o-Xylene	18.55	91	707801	185.84 ug/kg	95
53)	Styrene	18.63	104	480246	175.68 ug/kg	93
54)	Isopropylbenzene	19.03	105	904784	187.02 ug/kg	97
55)	Bromoform	18.77	173	54406	153.61 ug/kg	98
56)	1,1,2,2-Tetrachloroethane	19.81	83	127357	176.88 ug/kg	92
58)	1,2,3-Trichloropropane	20.14	110	24955	160.21 ug/kg	88
59)	n-Propylbenzene	19.74	91	1208597	202.44 ug/kg	96
60)	Bromobenzene	19.81	77	376144	177.42 ug/kg	81
61)	1,3,5-Trimethylbenzene	20.01	105	695570	189.46 ug/kg	98
62)	2-Chlorotoluene	20.09	91	705389	183.25 ug/kg	96
63)	4-Chlorotoluene	20.37	91	642506	185.03 ug/kg	97
64)	tert-Butylbenzene	20.63	119	675189	185.97 ug/kg	95
65)	1,2,4-Trimethylbenzene	20.74	105	681994	177.83 ug/kg	98
66)	sec-Butylbenzene	20.95	105	1037232	194.58 ug/kg	96
67)	4-Isopropyltoluene	21.15	119	781579	180.89 ug/kg	94
68)	1,3-Dichlorobenzene	21.44	146	379963	185.14 ug/kg	89
70)	1,4-Dichlorobenzene	21.58	146	328510	174.62 ug/kg	90
71)	n-Butylbenzene	21.89	91	916428	204.86 ug/kg	97
72)	1,2-Dichlorobenzene	22.37	146	297266	198.98 ug/kg	93
73)	1,2-Dibromo-3-chloropropan	23.89	75	12639	151.73 ug/kg	80
74)	1,2,4-Trichlorobenzene	25.34	180	179266	176.00 ug/kg	96
75)	Hexachlorobutadiene	25.18	225	146777	211.52 ug/kg	96
76)	Naphthalene	26.12	128	264159	152.73 ug/kg	96
77)	1,2,3-Trichlorobenzene	26.59	180	134743	161.44 ug/kg	96

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\06012010\1V0718.D Vial: 19
Acq On : 2 Jun 2010 12:32 am Operator: omd
Sample : ms10050726-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 11:35 2010 Quant Results File: 0309WC1.RES

Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

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Approved:
02-Jun-2010 10:43
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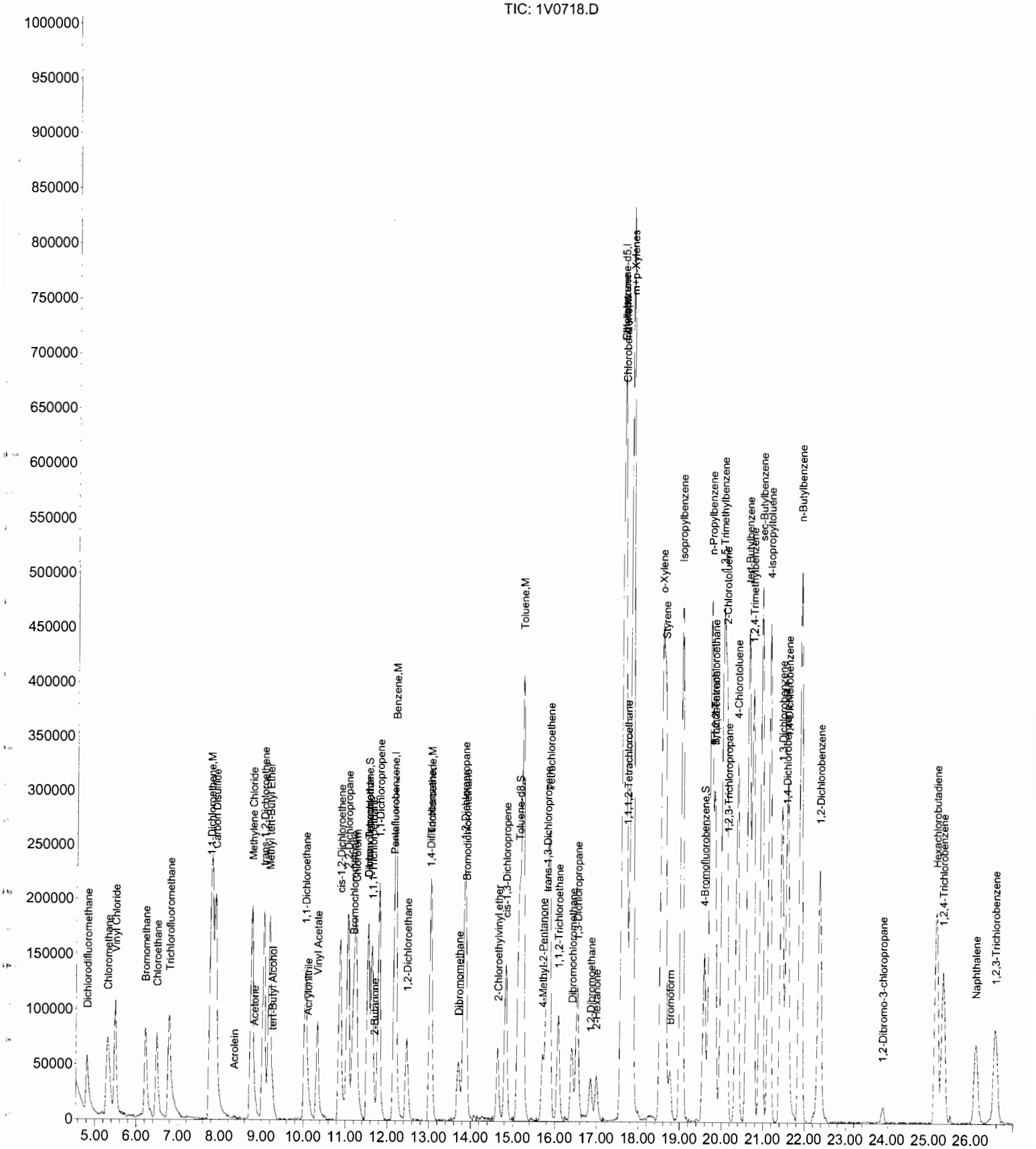
TIC: 1V0718.D



Data File : G:\HPChem\1\Data\06012010\1V0719.D Vial: 20
Acq On : 2 Jun 2010 1:12 am Operator: omd
Sample : msd10050726-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 11:36 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.15	168	39134	50.00	ug/kg	0.02
30) 1,4-Difluorobenzene	13.02	114	61190	50.00	ug/kg	0.02
47) Chlorobenzene-d5	17.62	82	59326	50.00	ug/kg	0.06
69) 1,4-Dichlorobenzene-d4	21.56	152	40705	50.00	ug/kg	0.03
System Monitoring Compounds						
24) Dibromofluoromethane	11.53	113	87723	55.77	ug/kg	0.02
Spiked Amount 50.000	Range 59 - 147		Recovery = 111.54%			
38) Toluene-d8	15.15	98	350555	42.12	ug/kg	0.04
Spiked Amount 50.000	Range 66 - 134		Recovery = 84.24%			
57) 4-Bromofluorobenzene	19.58	95	156588	45.45	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery = 90.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.82	85	169750	157.34	ug/kg	100
3) Chloromethane	5.31	50	347739	188.73	ug/kg	99
4) Vinyl Chloride	5.50	62	287921	201.66	ug/kg	97
5) Bromomethane	6.22	94	156452	95.33	ug/kg	100
6) Chloroethane	6.50	64	192000	151.66	ug/kg	94
7) Trichlorofluoromethane	6.79	101	246283	234.12	ug/kg	96
8) Acrolein	8.36	56	7255	30.59	ug/kg#	13
9) Acetone	8.83	43	35206	285.53	ug/kg	90
10) 1,1-Dichloroethene	7.77	61	322671	231.58	ug/kg	94
11) tert-Butyl Alcohol	9.26	59	107306	97.82	ug/kg	95
12) Methylene Chloride	8.77	84	216275	303.57	ug/kg	83
13) Carbon Disulfide	7.90	76	623794	229.48	ug/kg	96
14) Acrylonitrile	10.09	53	34096	58.89	ug/kg	94
15) Methyl tert-Butyl Ether	9.19	73	453074	252.59	ug/kg	100
16) trans-1,2-Dichloroethene	9.05	61	295117	231.85	ug/kg	93
17) 1,1-Dichloroethane	10.05	63	416683	268.52	ug/kg	96
18) Vinyl Acetate	10.34	43	407841	284.62	ug/kg	94
19) 2-Butanone	11.70	43	60963	307.40	ug/kg	98
20) 2,2-Dichloropropane	11.06	77	254358	218.64	ug/kg	93
21) cis-1,2-Dichloroethene	10.87	61	300659	279.72	ug/kg	88
22) Chloroform	11.24	83	331473	278.53	ug/kg	98
23) Bromochloromethane	11.20	49	202280	262.89	ug/kg#	71
25) 1,1,1-Trichloroethane	11.64	97	211997	239.47	ug/kg	92
26) 1,1-Dichloropropene	11.81	75	225009	232.83	ug/kg	93
27) Carbon Tetrachloride	11.55	117	196210	253.20	ug/kg	96
28) 1,2-Dichloroethane	12.49	62	191976	313.06	ug/kg	94
29) Benzene	12.20	78	632611	231.67	ug/kg	100
31) Trichloroethene	13.04	130	129285	253.01	ug/kg	87
32) 1,2-Dichloropropane	13.84	63	166557	214.72	ug/kg	94
33) Bromodichloromethane	13.89	83	183178	250.29	ug/kg	98
34) Dibromomethane	13.72	174	64180	266.59	ug/kg	73
35) 2-Chloroethylvinyl ether	14.65	63	87086	196.37	ug/kg	89
36) 4-Methyl-2-Pentanone	15.72	43	167141	254.91	ug/kg	96
37) cis-1,3-Dichloropropene	14.84	75	223027	198.96	ug/kg	96
39) Toluene	15.22	91	797272	219.35	ug/kg	95
40) trans-1,3-Dichloropropene	15.81	75	196908	224.14	ug/kg	91
41) 1,1,2-Trichloroethane	16.09	97	91051	224.11	ug/kg	94
42) 2-Hexanone	17.01	43	121851	235.20	ug/kg	92
43) 1,3-Dichloropropane	16.55	76	218152	225.15	ug/kg	96
44) Tetrachloroethene	15.87	166	179773	267.19	ug/kg	99
45) Dibromochloromethane	16.42	129	117190	226.43	ug/kg	93
46) 1,2-Dibromoethane	16.87	107	100887	242.90	ug/kg	94
48) Chlorobenzene	17.66	112	458064	198.90	ug/kg	99
49) 1,1,1,2-Tetrachloroethane	17.73	131	155396	215.74	ug/kg	94

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\06012010\1V0719.D Vial: 20
Acq On : 2 Jun 2010 1:12 am Operator: omd
Sample : msd10050726-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 11:36 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
Data Acq Meth : VOCRUN1

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50)	Ethylbenzene	17.61	91	993480	192.33	ug/kg	96
51)	m+p-Xylenes	17.83	106	671276	394.18	ug/kg	89
52)	o-Xylene	18.57	91	746320	192.49	ug/kg	95
53)	Styrene	18.63	104	522129	187.63	ug/kg	93
54)	Isopropylbenzene	19.05	105	941492	191.17	ug/kg	95
55)	Bromoform	18.78	173	75780	210.17	ug/kg	92
56)	1,1,2,2-Tetrachloroethane	19.82	83	162037	221.07	ug/kg	94
58)	1,2,3-Trichloropropane	20.14	110	33815	213.26	ug/kg	85
59)	n-Propylbenzene	19.74	91	1245081	204.86	ug/kg	97
60)	Bromobenzene	19.83	77	416609	193.03	ug/kg	76
61)	1,3,5-Trimethylbenzene	20.02	105	716020	191.59	ug/kg	97
62)	2-Chlorotoluene	20.09	91	731374	186.64	ug/kg	96
63)	4-Chlorotoluene	20.37	91	682287	193.02	ug/kg	95
64)	tert-Butylbenzene	20.63	119	709418	191.94	ug/kg	95
65)	1,2,4-Trimethylbenzene	20.74	105	721422	184.79	ug/kg	96
66)	sec-Butylbenzene	20.96	105	1082590	199.51	ug/kg	96
67)	4-Isopropyltoluene	21.16	119	806165	183.29	ug/kg	94
68)	1,3-Dichlorobenzene	21.45	146	410391	196.44	ug/kg	91
70)	1,4-Dichlorobenzene	21.59	146	360352	183.14	ug/kg	90
71)	n-Butylbenzene	21.89	91	928218	198.39	ug/kg	96
72)	1,2-Dichlorobenzene	22.37	146	346283	221.62	ug/kg	92
73)	1,2-Dibromo-3-chloropropan	23.88	75	19082	219.03	ug/kg	84
74)	1,2,4-Trichlorobenzene	25.35	180	202646	190.22	ug/kg	95
75)	Hexachlorobutadiene	25.17	225	145518	200.51	ug/kg	95
76)	Naphthalene	26.14	128	351008	194.04	ug/kg	97
77)	1,2,3-Trichlorobenzene	26.58	180	157767	180.73	ug/kg	95

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\06012010\1V0719.D Vial: 20
Acq On : 2 Jun 2010 1:12 am Operator: omd
Sample : msd10050726-001 Inst : GC/MS-1
Misc : soil 5.0g Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 11:36 2010 Quant Results File: 0309WC1.RES

Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

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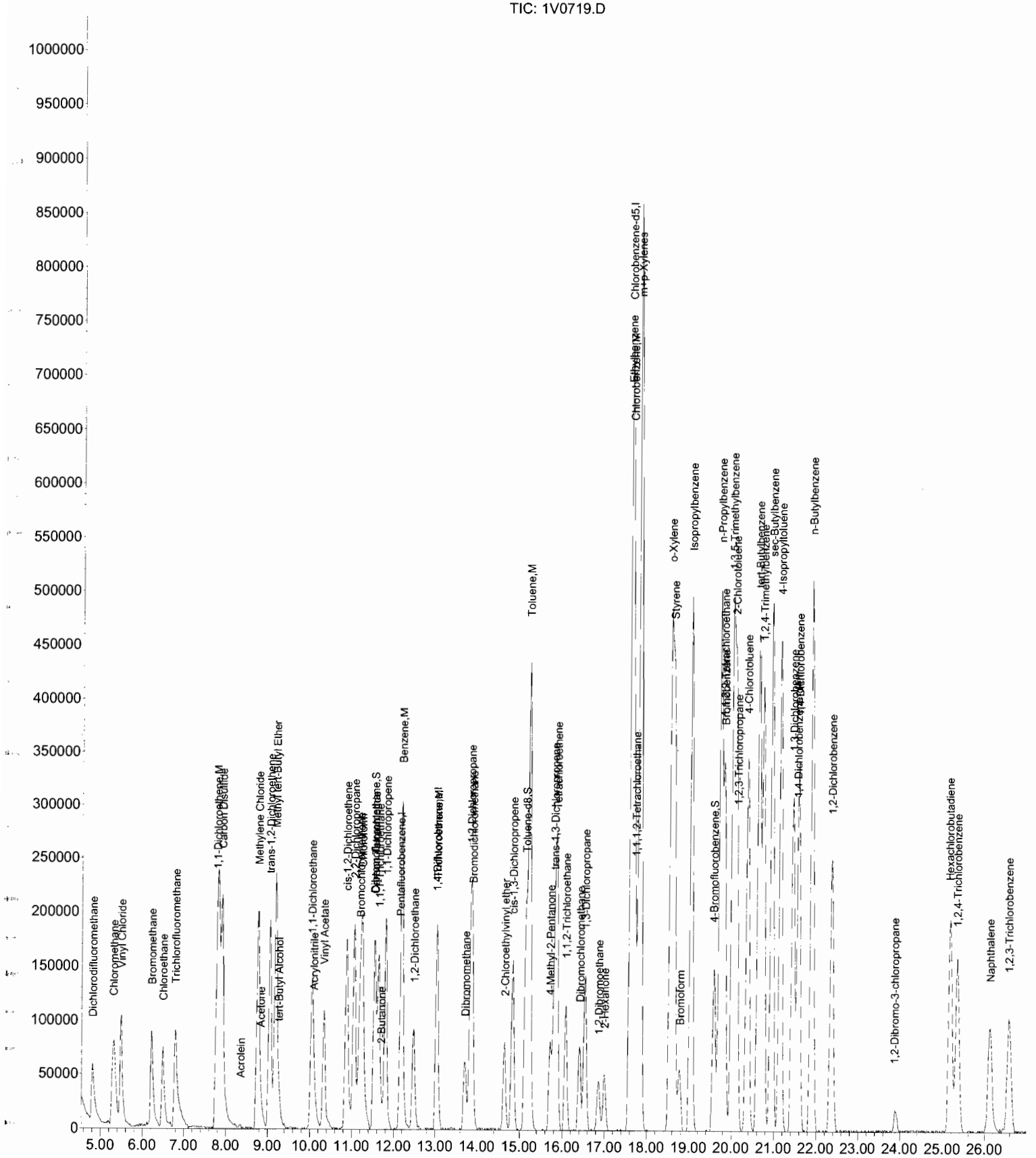
Approved:
02-Jun-2010 10:43
os

TIC: 1V0719.D



Data File : G:\HPChem\1\Data\05252010\1V0658.D Vial: 3
Acq On : 25 May 2010 1:15 pm Operator: omd
Sample : 200 ppb m5035A lcs Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 13:40 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.11	168	48935	50.00	ug/kg	-0.02
30) 1,4-Difluorobenzene	12.98	114	60749	50.00	ug/kg	-0.02
47) Chlorobenzene-d5	17.58	82	57697	50.00	ug/kg	0.02
69) 1,4-Dichlorobenzene-d4	21.52	152	38672	50.00	ug/kg	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	11.49	113	92491	47.02	ug/kg	-0.02
Spiked Amount 50.000	Range 59 - 147		Recovery = 94.04%			
38) Toluene-d8	15.09	98	388930	47.07	ug/kg	-0.01
Spiked Amount 50.000	Range 66 - 134		Recovery = 94.14%			
57) 4-Bromofluorobenzene	19.54	95	155189	46.31	ug/kg	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 92.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.79	85	230658	170.98	ug/kg	100
3) Chloromethane	5.28	50	424895	184.42	ug/kg	99
4) Vinyl Chloride	5.45	62	340412	190.67	ug/kg	96
5) Bromomethane	6.19	94	189757	92.47	ug/kg	97
6) Chloroethane	6.45	64	228196	144.15	ug/kg	99
7) Trichlorofluoromethane	6.76	101	291712	221.76	ug/kg	99
8) Acrolein	8.31	56	6298	21.24	ug/kg#	13
9) Acetone	8.80	43	35603	230.91	ug/kg	95
10) 1,1-Dichloroethene	7.74	61	374040	214.68	ug/kg	93
11) tert-Butyl Alcohol	9.23	59	97106	70.79	ug/kg	94
12) Methylene Chloride	8.73	84	237381	266.46	ug/kg	85
13) Carbon Disulfide	7.85	76	752163	221.28	ug/kg	98
14) Acrylonitrile	10.08	53	35748	49.37	ug/kg	98
15) Methyl tert-Butyl Ether	9.15	73	492076	219.39	ug/kg	100
16) trans-1,2-Dichloroethene	9.02	61	351824	221.04	ug/kg	94
17) 1,1-Dichloroethane	10.00	63	448836	231.31	ug/kg	99
18) Vinyl Acetate	10.31	43	436087	243.38	ug/kg	96
19) 2-Butanone	11.66	43	56990	229.81	ug/kg	98
20) 2,2-Dichloropropane	11.02	77	339196	233.17	ug/kg	95
21) cis-1,2-Dichloroethene	10.83	61	330280	245.74	ug/kg	81
22) Chloroform	11.20	83	349354	234.76	ug/kg	95
23) Bromochloromethane	11.14	49	211677	220.01	ug/kg	84
25) 1,1,1-Trichloroethane	11.60	97	287700	259.90	ug/kg	91
26) 1,1-Dichloropropene	11.75	75	320504	265.22	ug/kg	95
27) Carbon Tetrachloride	11.51	117	263870	272.31	ug/kg	96
28) 1,2-Dichloroethane	12.43	62	195144	254.49	ug/kg	96
29) Benzene	12.15	78	776202	227.32	ug/kg	100
31) Trichloroethene	13.00	130	168465	332.07	ug/kg	90
32) 1,2-Dichloropropane	13.80	63	211281	274.36	ug/kg	97
33) Bromodichloromethane	13.85	83	212414	292.34	ug/kg	97
34) Dibromomethane	13.68	174	65119	272.46	ug/kg	73
35) 2-Chloroethylvinyl ether	14.60	63	83080	188.69	ug/kg	89
36) 4-Methyl-2-Pentanone	15.66	43	135909	208.78	ug/kg	99
37) cis-1,3-Dichloropropene	14.78	75	263256	236.56	ug/kg	96
39) Toluene	15.19	91	832600	230.73	ug/kg	98
40) trans-1,3-Dichloropropene	15.76	75	202078	231.70	ug/kg	94
41) 1,1,2-Trichloroethane	16.03	97	93594	232.04	ug/kg	99
42) 2-Hexanone	16.95	43	104085	202.37	ug/kg#	94
43) 1,3-Dichloropropane	16.49	76	211874	220.26	ug/kg	97
44) Tetrachloroethene	15.82	166	175289	262.42	ug/kg	96
45) Dibromochloromethane	16.36	129	108096	210.38	ug/kg	92
46) 1,2-Dibromoethane	16.82	107	87115	211.26	ug/kg	96
48) Chlorobenzene	17.60	112	478013	213.42	ug/kg	100
49) 1,1,1,2-Tetrachloroethane	17.68	131	142434	203.33	ug/kg	89

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\05252010\1V0658.D Vial: 3
Acq On : 25 May 2010 1:15 pm Operator: omd
Sample : 200 ppb m5035A lcs Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 13:40 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	Ethylbenzene	17.57	91	1054288	209.87 ug/kg	96
51)	m+p-Xylenes	17.78	106	722670	436.34 ug/kg	90
52)	o-Xylene	18.51	91	789204	209.30 ug/kg	97
53)	Styrene	18.58	104	547355	202.24 ug/kg	93
54)	Isopropylbenzene	19.00	105	1011515	211.18 ug/kg	94
55)	Bromoform	18.72	173	71339	203.44 ug/kg	98
56)	1,1,2,2-Tetrachloroethane	19.77	83	154778	217.13 ug/kg	96
58)	1,2,3-Trichloropropane	20.08	110	31239	202.57 ug/kg	93
59)	n-Propylbenzene	19.68	91	1374847	232.60 ug/kg	97
60)	Bromobenzene	19.77	77	431521	205.59 ug/kg	79
61)	1,3,5-Trimethylbenzene	19.97	105	779857	214.56 ug/kg	100
62)	2-Chlorotoluene	20.03	91	784787	205.92 ug/kg	97
63)	4-Chlorotoluene	20.33	91	728952	212.04 ug/kg	94
64)	tert-Butylbenzene	20.59	119	780099	217.03 ug/kg	94
65)	1,2,4-Trimethylbenzene	20.70	105	782207	206.02 ug/kg	96
66)	sec-Butylbenzene	20.90	105	1190453	225.58 ug/kg	95
67)	4-Isopropyltoluene	21.10	119	893410	208.86 ug/kg	93
68)	1,3-Dichlorobenzene	21.39	146	425345	209.35 ug/kg	95
70)	1,4-Dichlorobenzene	21.53	146	389023	208.11 ug/kg	90
71)	n-Butylbenzene	21.86	91	1030100	231.74 ug/kg	95
72)	1,2-Dichlorobenzene	22.32	146	354488	238.80 ug/kg	94
73)	1,2-Dibromo-3-chloropropan	23.84	75	14164	171.12 ug/kg	77
74)	1,2,4-Trichlorobenzene	25.29	180	203453	201.02 ug/kg	97
75)	Hexachlorobutadiene	25.12	225	151983	220.42 ug/kg	91
76)	Naphthalene	26.07	128	327756	190.71 ug/kg	99
77)	1,2,3-Trichlorobenzene	26.53	180	163818	197.52 ug/kg	93

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\05252010\1V0658.D Vial: 3
Acq On : 25 May 2010 1:15 pm Operator: omd
Sample : 200 ppb m5035A lcs Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 13:40 2010 Quant Results File: 0309WC1.RES

Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

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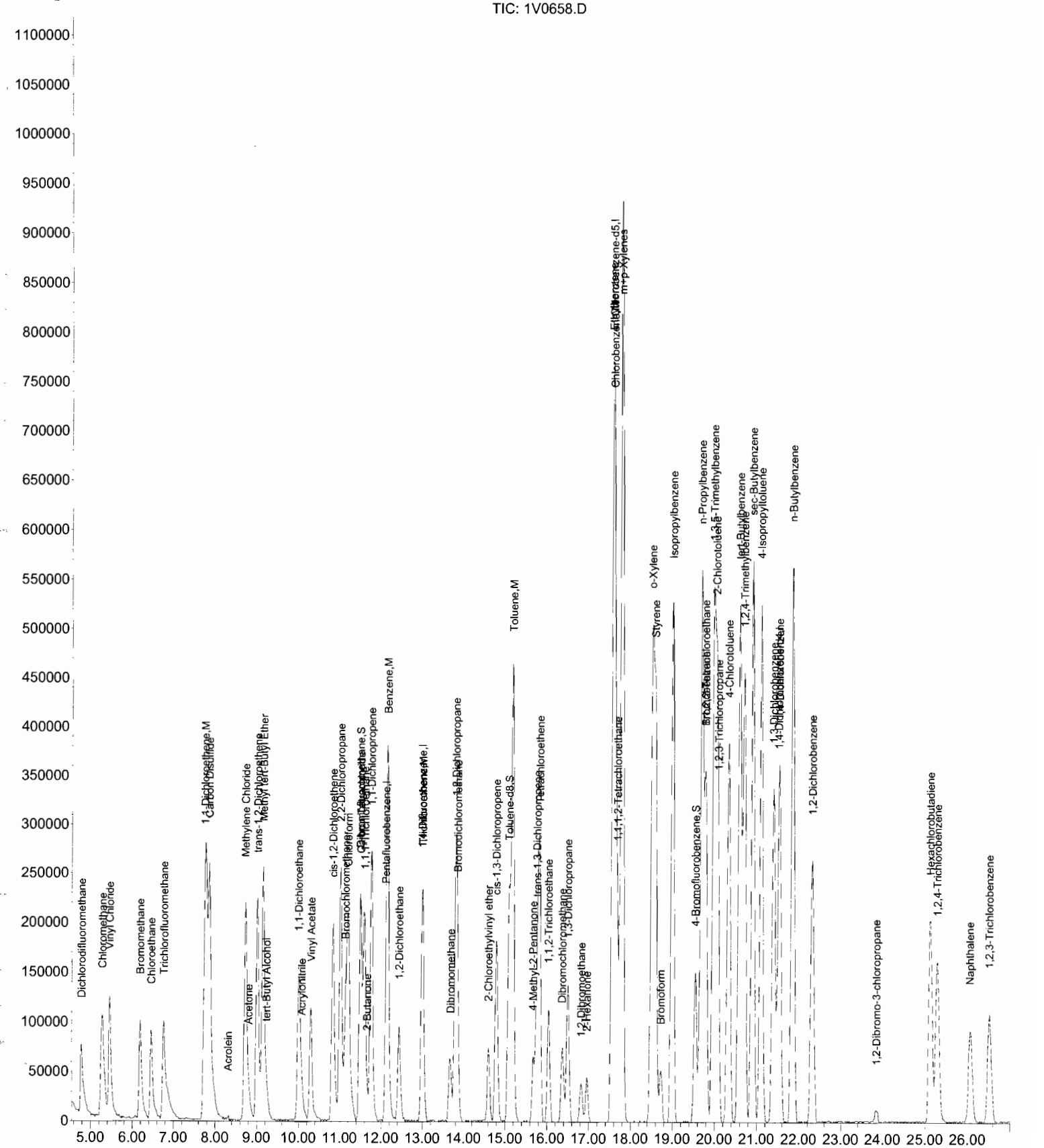
Approved:
25-May-2010 17:57
OB

TIC: 1V0658.D



Aqua Pro-Tech Laboratories
Volatile Method Blank Summary

Blank: VO- MBlank #1

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID: 1V0659.D
Date Acquired: 25-May-10

Lab Sample ID: blank
Time Acquired 14:21

This Method Blank applies to the following samples:

Client Sample	Lab Sample ID	Lab File ID	Time Acquired
SB-MW-8	10050460-001	1V0660.D	15:00
SB-MW-9	10050460-002	1V0661.D	15:39

Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: Blank - 1

Sample Weight 5.0 Grams
Level: Low

Lab Sample ID: Blank - 1
Lab File ID: 1V0659.D

Dilution Factor: 1

CAS No.	Compound	Conc ug/kg	Q	MDL	PQL
75-71-8	Dichlorodifluoromethane		U	0.930	5
74-87-3	Chloromethane		U	0.850	5
75-01-4	Vinyl Chloride		U	0.840	5
74-83-9	Bromomethane		U	1.72	5
75-00-3	Chloroethane		U	0.930	5
75-69-4	Trichlorofluoromethane		U	0.760	5
107-02-8	Acrolein		U	1.54	50
67-64-1	Acetone		U	2.81	5
75-35-4	1,1-Dichloroethene		U	1.04	5
75-65-0	tert-Butyl Alcohol		U	16.9	50
75-09-2	Methylene Chloride		U	1.41	5
75-15-0	Carbon Disulfide		U	0.970	5
107-13-1	Acrylonitrile		U	2.21	50
1634-04-4	Methyl tert-Butyl Ether		U	1.53	5
156-60-5	trans-1,2-Dichloroethene		U	1.36	5
75-34-3	1,1-Dichloroethane		U	1.19	5
108-05-4	Vinyl Acetate		U	1.51	5
78-93-3	2-Butanone		U	1.36	5
594-20-7	2,2-Dichloropropane		U	1.07	5
156-59-2	cis-1,2-Dichloroethene		U	1.03	5
67-66-3	Chloroform		U	0.860	5
74-97-5	Bromochloromethane		U	1.19	5
71-55-6	1,1,1-Trichloroethane		U	1.17	5
563-58-6	1,1-Dichloropropene		U	0.910	5
56-23-5	Carbon Tetrachloride		U	1.00	5
107-06-2	1,2-Dichloroethane		U	1.16	5
71-43-2	Benzene		U	1.26	5
79-01-6	Trichloroethene		U	1.26	5
78-87-5	1,2-Dichloropropane		U	1.39	5
75-27-4	Bromodichloromethane		U	0.910	5
74-95-3	Dibromomethane		U	0.900	5
110-75-8	2-Chloroethylvinyl ether		U	1.33	10
108-10-1	4-Methyl-2-Pentanone		U	1.22	5
10061-01-5	cis-1,3-Dichloropropene		U	1.15	5
108-88-3	Toluene		U	1.21	5
10061-02-6	trans-1,3-Dichloropropene		U	1.14	5
79-00-5	1,1,2-Trichloroethane		U	1.19	5
591-78-6	2-Hexanone		U	1.98	5
142-28-9	1,3-Dichloropropane		U	1.33	5

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: Blank - 1

Sample Weight 5.0 Grams
Level: Low

Lab Sample ID: Blank - 1
Lab File ID: 1V0659.D

Dilution Factor: 1

CAS No.	Compound	Conc ug/kg	Q	MDL	PQL
127-18-4	Tetrachloroethene		U	1.43	5
124-48-1	Dibromochloromethane		U	1.07	5
106-93-4	1,2-Dibromoethane		U	1.15	5
108-90-7	Chlorobenzene		U	1.10	5
630-20-6	1,1,1,2-Tetrachloroethane		U	1.35	5
100-41-4	Ethylbenzene		U	1.46	5
1330-20-7	m+p-Xylenes		U	2.35	10
95-47-6	o-Xylene		U	1.19	5
100-42-5	Styrene		U	1.37	5
75-25-2	Bromoform		U	1.61	5
79-34-5	1,1,2,2-Tetrachloroethane		U	1.53	5
96-18-4	1,2,3-Trichloropropane		U	1.23	5
108-86-1	Bromobenzene		U	1.22	5
95-49-8	2-Chlorotoluene		U	1.25	5
106-43-4	4-Chlorotoluene		U	1.74	5
541-73-1	1,3-Dichlorobenzene		U	1.91	5
106-46-7	1,4-Dichlorobenzene		U	1.40	5
95-50-1	1,2-Dichlorobenzene		U	1.54	5
96-12-8	1,2-Dibromo-3-chloropropane		U	4.83	5
120-82-1	1,2,4-Trichlorobenzene		U	1.72	5
87-68-3	Hexachlorobutadiene		U	2.72	5
91-20-3	Naphthalene		U	1.94	5
87-61-6	1,2,3-Trichlorobenzene		U	3.20	5

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8260 B Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: Blank - 1

Sample Weight 5.0 Grams
Level: Low

Lab Sample ID: Blank - 1
Lab File ID: 1V0659.D

Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT

Number of TICs found: 0
Total Est. Concentration: 0 ug/kg

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

Data File : G:\HPChem\1\Data\05252010\1V0659.D Vial: 4
Acq On : 25 May 2010 2:21 pm Operator: omd
Sample : blank Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 15:32 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.10	168	51320	50.00	ug/kg	-0.03
30) 1,4-Difluorobenzene	12.97	114	72194	50.00	ug/kg	-0.03
47) Chlorobenzene-d5	17.57	82	50584	50.00	ug/kg	0.00
69) 1,4-Dichlorobenzene-d4	21.51	152	36040	50.00	ug/kg	-0.02
System Monitoring Compounds						
24) Dibromofluoromethane	11.50	113	98892	47.94	ug/kg	-0.02
Spiked Amount 50.000	Range 59 - 147		Recovery = 95.88%			
38) Toluene-d8	15.09	98	389016	39.61	ug/kg	-0.01
Spiked Amount 50.000	Range 66 - 134		Recovery = 79.22%			
57) 4-Bromofluorobenzene	19.54	95	147622	50.25	ug/kg	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 100.50%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\05252010\1V0659.D Vial: 4
Acq On : 25 May 2010 2:21 pm Operator: omd
Sample : blank Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 15:32 2010 Quant Results File: 0309WC1.RES

Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

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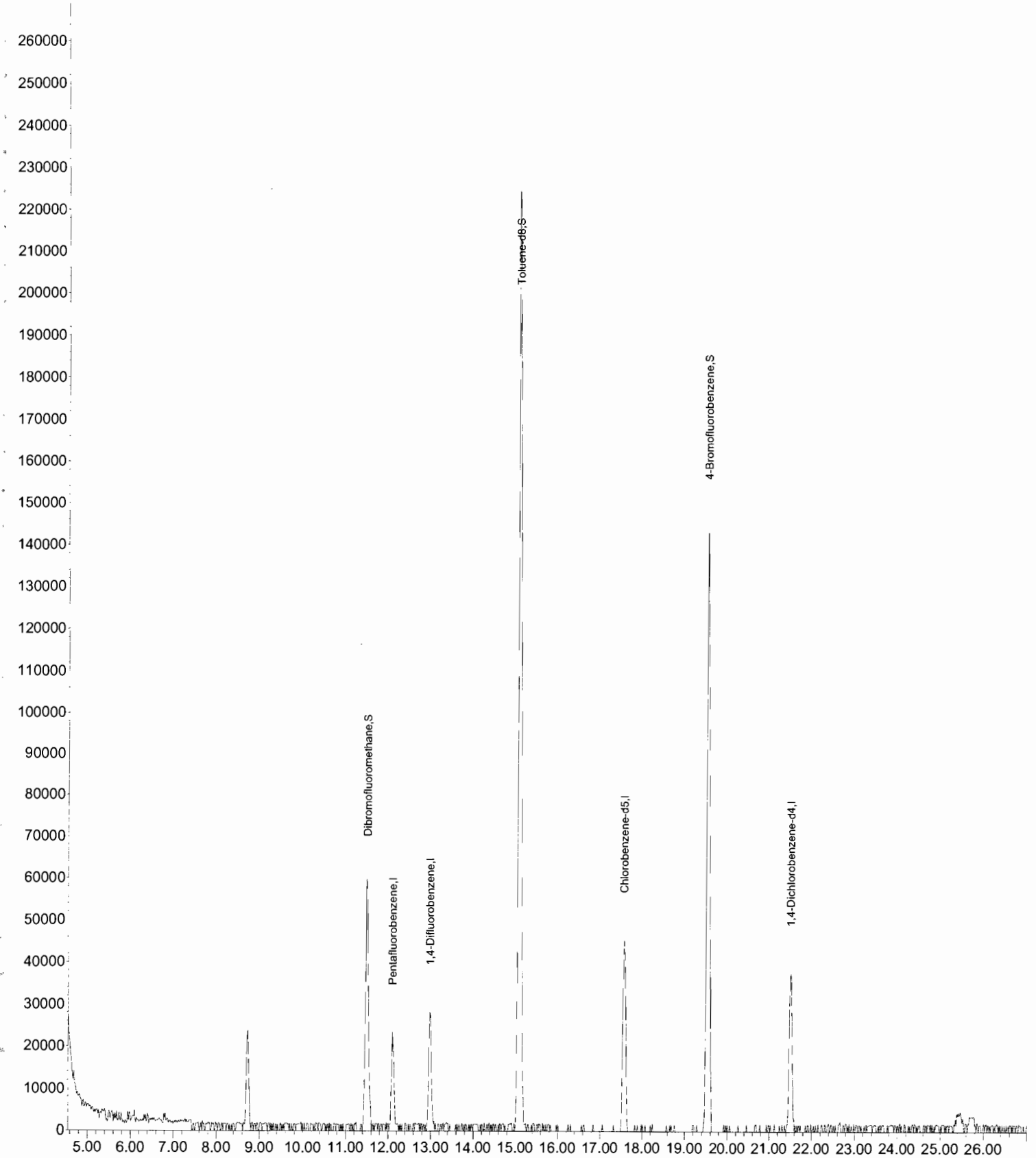
Approved:
25-May-2010 17:57
OD

TIC: 1V0659.D



Aqua Pro-Tech Laboratories
Volatile Organic Instrument Performance Check (Tune)
Bromofluorobenzene(BFB)

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID: G:\HPChem\1\Data\05252010\1V0656.D

BFB Injection Date: 25-May-10
BFB Injection Time: 11:57

m/z	Ion Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	29.6
75	30.0 - 80.0% of mass 95	57.7
95	100 - 100% of mass 95	100
96	5.00 - 9.00% of mass 95	5.60
173	0.00 - 2.00% of mass 174	0.00
174	50.0 - 100% of mass 95	77.9
175	5.00 - 9.00% of mass 174	8.40
176	95.0 - 101% of mass 174	99.7
177	5.00 - 9.00% of mass 176	6.40

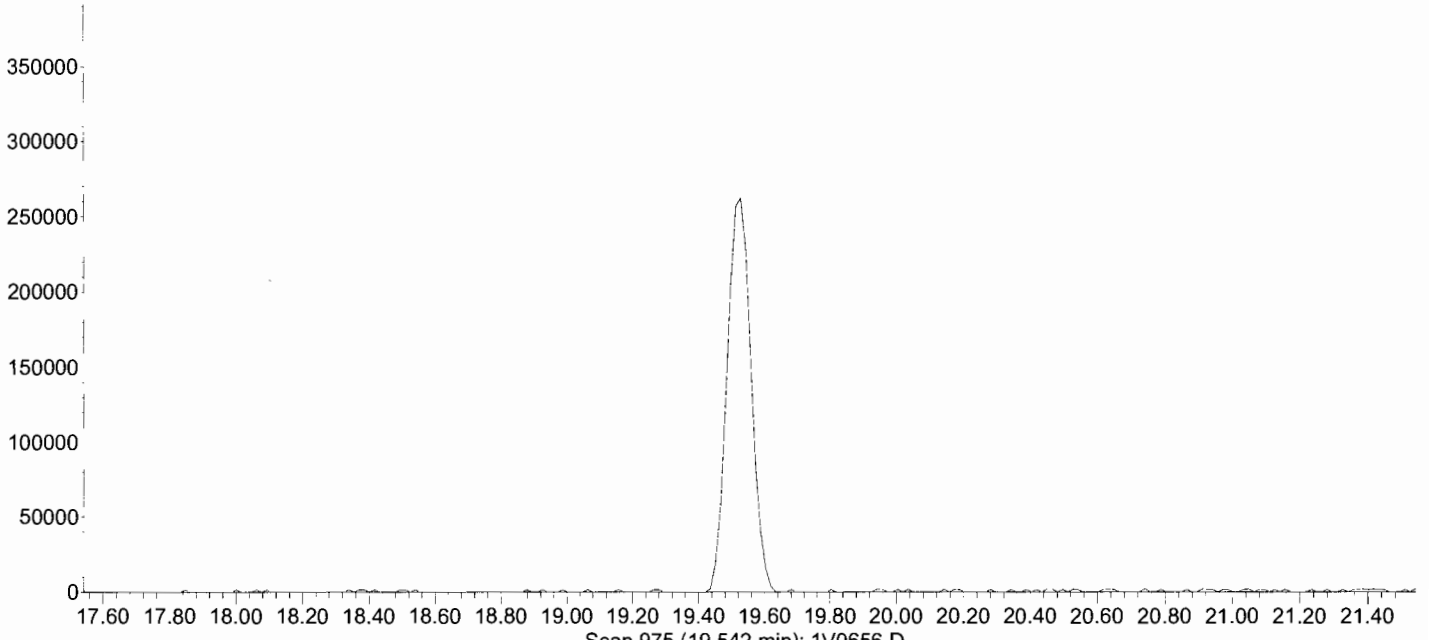
This check applies to the following Samples, MS, MSD, Blanks, and Standards

Client Sample	Lab Sample ID	Lab File ID	Date Acquired	Time Acquired
CCV	200 ppb m5035A ccv	1V0657.D	25-May-10	12:37
Blank - 1	blank	1V0659.D	25-May-10	14:21
Blank Spike - 1	200 ppb m5035A lcs	1V0658.D	25-May-10	13:15
SB-MW-8	10050460-001	1V0660.D	25-May-10	15:00
SB-MW-9	10050460-002	1V0661.D	25-May-10	15:39

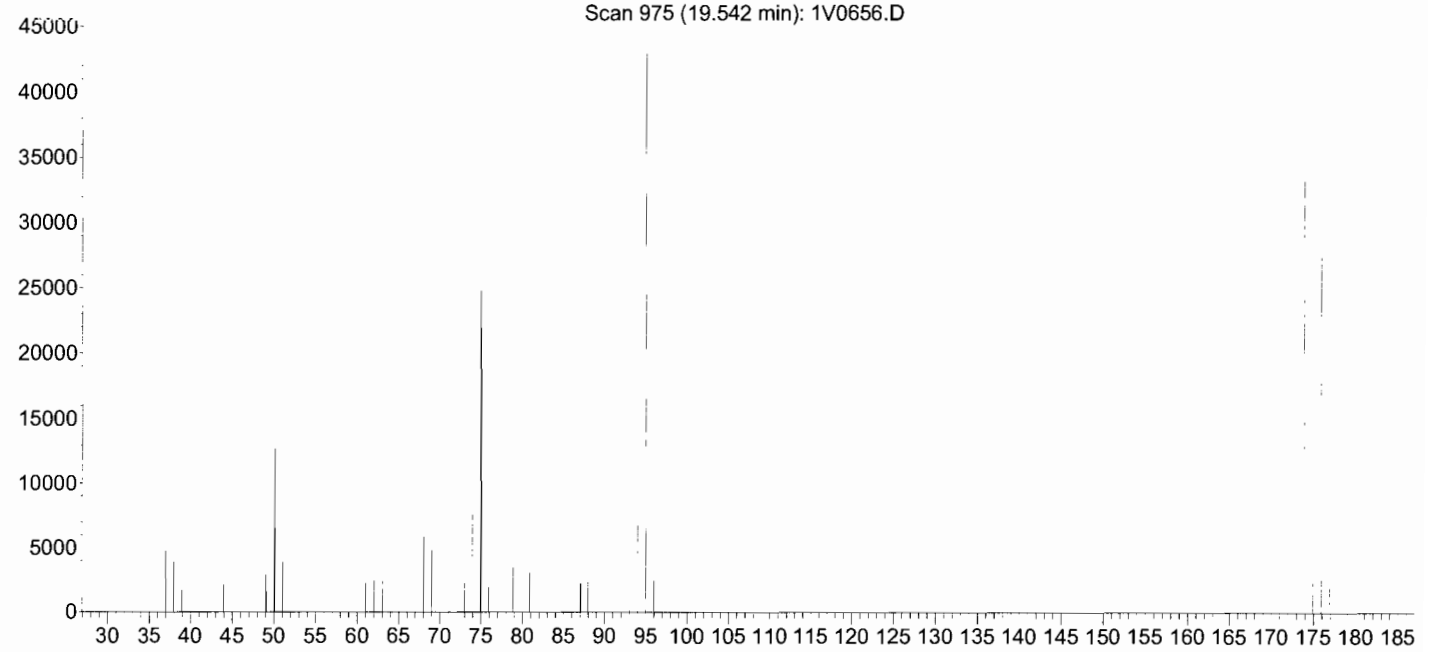
Data File : G:\HPChem\1\Data\05252010\1V0656.D Vial: 1
Acq On : 25 May 2010 11:57 am Operator: omd
Sample : bfb Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B

Approved:
25-May-2010 17:57
OD

TIC: 1V0656.D



Scan 975 (19.542 min): 1V0656.D



Spectrum Information: Scan 975

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.6	12703	PASS
75	95	30	80	57.7	24744	PASS
95	95	100	100	100.0	42880	PASS
96	95	5	9	5.6	2410	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.9	33392	PASS
175	174	5	9	8.4	2807	PASS
176	174	95	101	99.7	33296	PASS
177	176	5	9	6.4	2133	PASS

Aqua Pro-Tech Laboratories
Volatile Organic Instrument Performance Check (Tune)
Bromofluorobenzene(BFB)

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID: G:\HPChem\1\Data\06012010\1V0699.D

BFB Injection Date: 1-Jun-10
BFB Injection Time: 11:45

m/z	Ion Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	27.8
75	30.0 - 80.0% of mass 95	53.3
95	100 - 100% of mass 95	100
96	5.00 - 9.00% of mass 95	5.10
173	0.00 - 2.00% of mass 174	0.00
174	50.0 - 100% of mass 95	76.0
175	5.00 - 9.00% of mass 174	7.60
176	95.0 - 101% of mass 174	98.1
177	5.00 - 9.00% of mass 176	6.30

This check applies to the following Samples, MS, MSD, Blanks, and Standards

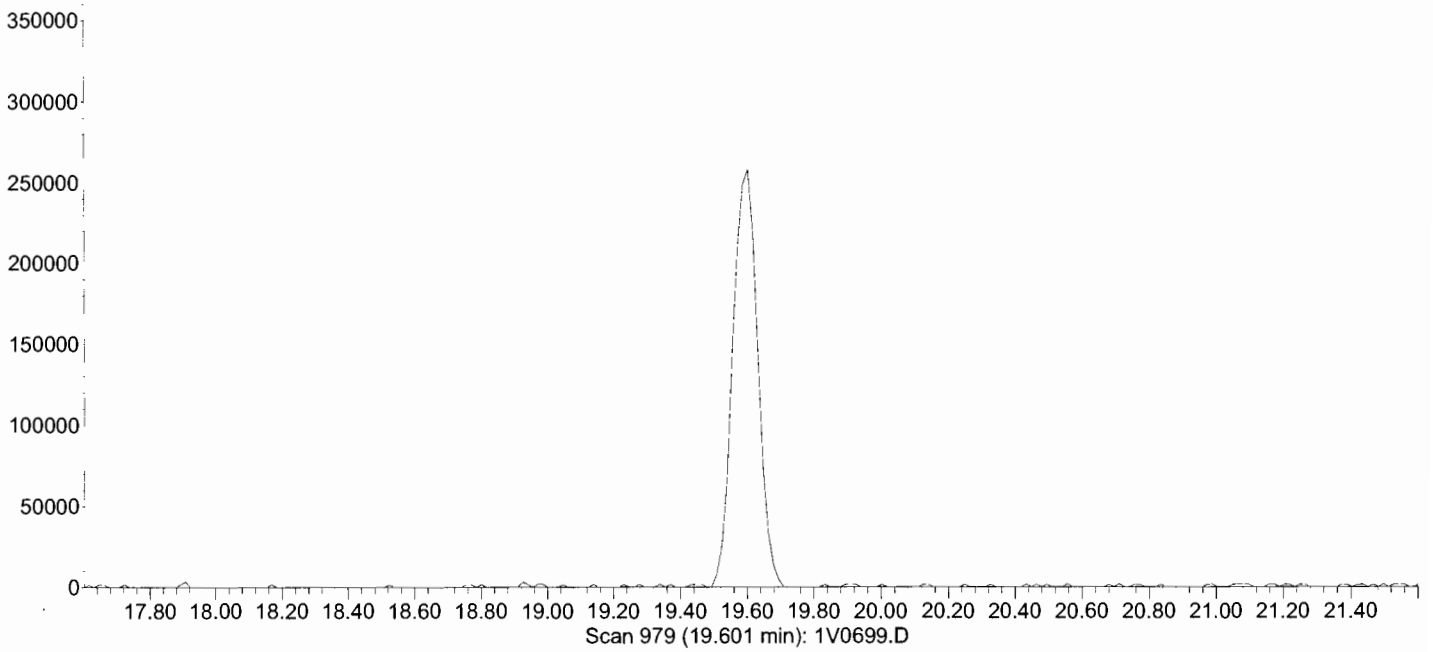
Client Sample	Lab Sample ID	Lab File ID	Date Acquired	Time Acquired
CCV	200 ppb m5035A ccv	1V0700.D	1-Jun-10	12:28
Matrix Spike - 2	ms10050726-001	1V0718.D	2-Jun-10	0:32
Matrix Spike Dup - 2	msd10050726-001	1V0719.D	2-Jun-10	1:12

Data File : G:\HPChem\1\Data\06012010\1V0699.D
Acq On : 1 Jun 2010 11:45 am
Sample : bfb
Misc : soil
MS Integration Params: RTEINT.P
Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B

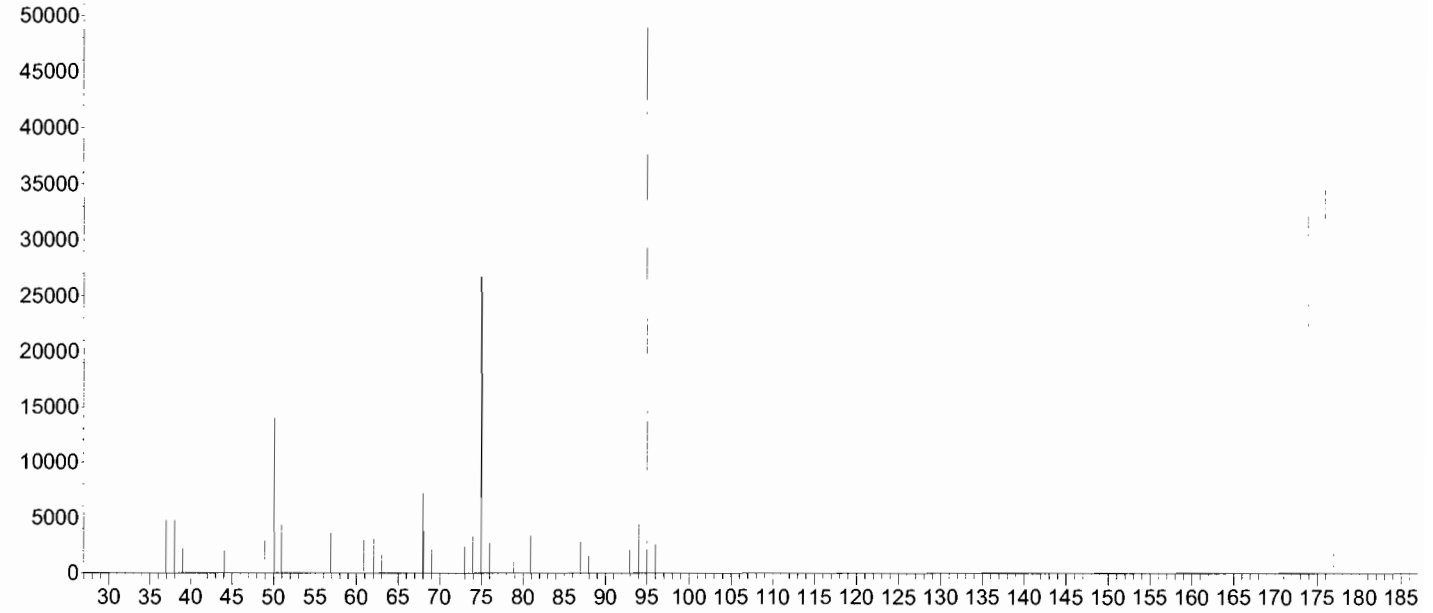
Vial: 44
Operator: omd
Inst : GC/MS-1
Multiplr: 1.00

Approved:
01-Jun-2010 15:55
OB

TIC: 1V0699.D



Scan 979 (19.601 min): 1V0699.D



Spectrum Information: Scan 979

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.8	13943	PASS
75	95	30	80	53.3	26712	PASS
95	95	100	100	100.0	50072	PASS
96	95	5	9	5.1	2561	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.0	38048	PASS
175	174	5	9	7.6	2889	PASS
176	174	95	101	98.1	37328	PASS
177	176	5	9	6.3	2348	PASS

Aqua Pro-Tech Laboratories
Volatile Organic Initial Calibration

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Calibration Date: 9-Mar-10

Lab File ID:	RRF5:	1V0314.D	RRF80:	1V0316.D	RRF120:	1V0317.D
	RRF200:	1V0318.D	RRF400:	1V0319.D	RRF800:	1V0320.D

* Compounds with required maximum %RSD values. (CC Compounds)
** Compounds with required minimum RRF values. (SPC Compounds)

Compound	RRF5	RRF80	RRF120	RRF200	RRF400	RRF800	Avg RRF	% RSD	Cal Type
Dichlorodifluoromethane	1.27	1.25	1.32	1.53	1.55	1.35	1.38	**9.35**	Average RRF
Chloromethane **	2.55	2.08	2.15	2.63	2.54	2.18	2.35	**10.4**	Average RRF
Vinyl Chloride *	2.22	1.53	1.65	1.82	1.91	1.81	1.82	**12.9**	Average RRF
Bromomethane		1.40	1.68	2.29	2.58	2.53	2.10	**25.3**	Average RRF
Chloroethane *		0.976	1.08	1.22	2.58	2.23	1.62	**45.6**	Average RRF
Trichlorofluoromethane	1.31	1.29	1.31	1.45	1.19	1.51	1.34	**8.59**	Average RRF
1,1-Dichloroethene *		1.68	1.79	1.81	1.92	1.71	1.78	**5.30**	Average RRF
Carbon Disulfide		3.33	3.46	3.59	3.69	3.30	3.47	**4.81**	Average RRF
Acrolein		0.257	0.237	0.333	0.349	0.338	0.303	**17.1**	Average RRF
Methylene Chloride		0.914	0.865	0.963	0.957	0.852	0.910	**5.61**	Average RRF
Acetone		0.116	0.128	0.191	0.174	0.179	0.158	**21.2**	Average RRF
trans-1,2-Dichloroethene	2.08	1.47	1.50	1.53	1.62	1.56	1.63	**14.1**	Average RRF
Methyl tert-Butyl Ether	3.11	2.29	2.11	2.32	2.08	1.83	2.29	**19.1**	Average RRF
tert-Butyl Alcohol		0.479	0.398	0.662	0.619	0.542	0.540	**19.6**	Average RRF
1,1-Dichloroethane **	2.18	1.91	1.90	1.98	2.05	1.87	1.98	**5.83**	Average RRF
Acrylonitrile		0.697	0.655	0.832	0.778	0.737	0.740	**9.31**	Average RRF
Vinyl Acetate		2.00	1.83	1.95	1.79	1.59	1.83	**8.69**	Average RRF
cis-1,2-Dichloroethene	1.53	1.33	1.32	1.37	1.39	1.30	1.37	**6.21**	Average RRF
2,2-Dichloropropane	1.98	1.49	1.47	1.39	1.38	1.20	1.49	**17.8**	Average RRF
Bromochloromethane	1.02	1.02	1.02	0.998	0.940	0.893	0.983	**5.54**	Average RRF
Chloroform *	1.95	1.38	1.45	1.46	1.48	1.40	1.52	**14.0**	Average RRF
Dibromofluoromethane	2.08	1.99	2.00	2.09	2.00	1.90	2.01	**3.47**	Average RRF
Carbon Tetrachloride	0.925	1.03	1.01	1.02	1.02	0.926	0.990	**5.10**	Average RRF
1,1,1-Trichloroethane	1.32	1.12	1.13	1.12	1.11	0.991	1.13	**9.35**	Average RRF
2-Butanone		0.252	0.216	0.271	0.270	0.257	0.253	**8.83**	Average RRF
1,1-Dichloropropene	1.45	1.24	1.19	1.18	1.20	1.15	1.23	**8.87**	Average RRF
Benzene	5.34	3.26	3.19	3.05	3.11	3.00	3.49	**26.1**	Average RRF
1,2-Dichloroethane	0.548	0.830	0.798	0.896	0.837	0.791	0.783	**15.5**	Average RRF
Trichloroethene	0.160	0.500	0.461	0.487	0.488	0.410	0.418	**31.2**	Average RRF
Dibromomethane		0.170	0.173	0.231	0.215	0.195	0.197	**13.4**	Average RRF
1,2-Dichloropropane *	0.563	0.720	0.646	0.685	0.648	0.540	0.634	**11.0**	Average RRF
Bromodichloromethane	0.370	0.681	0.639	0.696	0.637	0.565	0.598	**20.2**	Average RRF
2-Chloroethylvinyl ether		0.318	0.310	0.414	0.404	0.367	0.363	**13.2**	Average RRF
cis-1,3-Dichloropropene	1.05	0.874	0.855	0.950	0.928	0.841	0.916	**8.43**	Average RRF
Toluene-d8	5.78	6.60	6.65	7.68	7.54	6.56	6.80	**10.3**	Average RRF
Toluene *	4.05	2.71	2.65	3.04	2.94	2.43	2.97	**19.3**	Average RRF
4-Methyl-2-Pentanone		0.488	0.446	0.652	0.609	0.484	0.536	**16.7**	Average RRF
trans-1,3-Dichloropropene	0.577	0.701	0.658	0.789	0.828	0.754	0.718	**12.8**	Average RRF
Tetrachloroethene	0.338	0.563	0.591	0.626	0.628	0.551	0.550	**19.7**	Average RRF
1,1,2-Trichloroethane		0.297	0.294	0.364	0.367	0.337	0.332	**10.6**	Average RRF
Dibromochloromethane		0.390	0.361	0.461	0.481	0.422	0.423	**11.7**	Average RRF
1,3-Dichloropropane	0.777	0.776	0.704	0.873	0.850	0.770	0.792	**7.71**	Average RRF
1,2-Dibromoethane		0.301	0.305	0.380	0.382	0.330	0.340	**11.6**	Average RRF

Aqua Pro-Tech Laboratories
Volatile Organic Initial Calibration

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Calibration Date: 9-Mar-10

Lab File ID:	RRF5:	1V0314.D	RRF80:	1V0316.D	RRF120:	1V0317.D
	RRF200:	1V0318.D	RRF400:	1V0319.D	RRF800:	1V0320.D

* Compounds with required maximum %RSD values. (CC Compounds)
** Compounds with required minimum RRF values. (SPC Compounds)

Compound	RRF5	RRF80	RRF120	RRF200	RRF400	RRF800	Avg RRF	% RSD	Cal Type
2-Hexanone		0.402	0.353	0.533	0.480	0.349	0.423	**19.1**	Average RRF
Ethylbenzene *	6.72	4.15	3.84	3.51	3.88	4.02	4.35	**27.1**	Average RRF
Chlorobenzene **	2.43	1.93	1.78	1.70	1.86	1.94	1.94	**13.2**	Average RRF
1,1,1,2-Tetrachloroethane		0.620	0.584	0.525	0.619	0.687	0.607	**9.73**	Average RRF
m+p-Xylenes	1.90	1.43	1.30	1.23	1.35	1.40	1.44	**16.6**	Average RRF
o-Xylene	4.54	3.17	2.96	2.73	3.08	3.13	3.27	**19.6**	Average RRF
Styrene	2.91	2.29	2.16	2.05	2.30	2.36	2.35	**12.8**	Average RRF
Bromoform **		0.310	0.268	0.305	0.317	0.320	0.304	**6.90**	Average RRF
Isopropylbenzene	5.76	3.96	3.72	3.56	3.96	3.95	4.15	**19.4**	Average RRF
4-Bromofluorobenzene	2.66	2.93	2.75	2.71	3.14	3.24	2.90	**8.25**	Average RRF
n-Propylbenzene		5.26	5.02	4.78	5.26	5.29	5.12	**4.29**	Average RRF
1,1,2,2-Tetrachloroethane **		0.696	0.623	0.686	0.608	0.475	0.618	**14.3**	Average RRF
Bromobenzene	2.14	1.85	1.67	1.72	1.81	1.72	1.82	**9.34**	Average RRF
1,3,5-Trimethylbenzene	3.76	3.11	2.90	2.81	3.18	3.14	3.15	**10.6**	Average RRF
2-Chlorotoluene	4.50	3.15	3.00	2.88	3.18	3.11	3.30	**18.0**	Average RRF
1,2,3-Trichloropropane		0.117	0.104	0.148	0.154	0.146	0.134	**16.4**	Average RRF
4-Chlorotoluene	3.73	2.90	2.71	2.70	2.93	2.90	2.98	**12.9**	Average RRF
tert-Butylbenzene	3.97	2.96	2.88	2.75	3.02	3.11	3.12	**14.0**	Average RRF
1,2,4-Trimethylbenzene	4.38	3.11	2.95	2.86	3.26	3.19	3.29	**16.8**	Average RRF
sec-Butylbenzene		4.71	4.43	4.36	4.72	4.64	4.57	**3.63**	Average RRF
4-Isopropyltoluene	5.12	3.44	3.26	3.18	3.68	3.56	3.71	**19.4**	Average RRF
1,3-Dichlorobenzene	2.00	1.71	1.64	1.64	1.82	1.75	1.76	**7.75**	Average RRF
1,4-Dichlorobenzene	3.32	2.24	2.59	2.20	2.19	1.95	2.42	**20.2**	Average RRF
n-Butylbenzene		5.66	6.52	5.71	5.69	5.16	5.75	**8.48**	Average RRF
1,2-Dichlorobenzene	1.61	2.02	2.22	2.10	1.90	1.66	1.92	**12.7**	Average RRF
1,2-Dibromo-3-chloropropane			0.0940	0.125	0.0890	0.120	0.107	**16.9**	Average RRF
Hexachlorobutadiene		0.787	1.00	0.884	0.844	0.941	0.891	**9.33**	Average RRF
1,2,4-Trichlorobenzene		1.22	1.40	1.28	1.33	1.32	1.31	**4.99**	Average RRF
Naphthalene		2.13	2.33	2.30	2.22	2.13	2.22	**4.18**	Average RRF
1,2,3-Trichlorobenzene		0.953	1.11	1.10	1.11	1.08	1.07	**6.30**	Average RRF

Average %RSD = 13.2

Aqua Pro-Tech Laboratories
Volatile Organic Instrument Performance Check (Tune)
Bromofluorobenzene(BFB)

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID: G:\HPChem\1\Data\03102010\1V0311.D

BFB Injection Date: 9-Mar-10
BFB Injection Time: 14:04

m/z	Ion Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	30.4
75	30.0 - 80.0% of mass 95	59.1
95	100 - 100% of mass 95	100
96	5.00 - 9.00% of mass 95	6.80
173	0.00 - 2.00% of mass 174	0.00
174	50.0 - 100% of mass 95	72.9
175	5.00 - 9.00% of mass 174	6.30
176	95.0 - 101% of mass 174	99.2
177	5.00 - 9.00% of mass 176	6.20

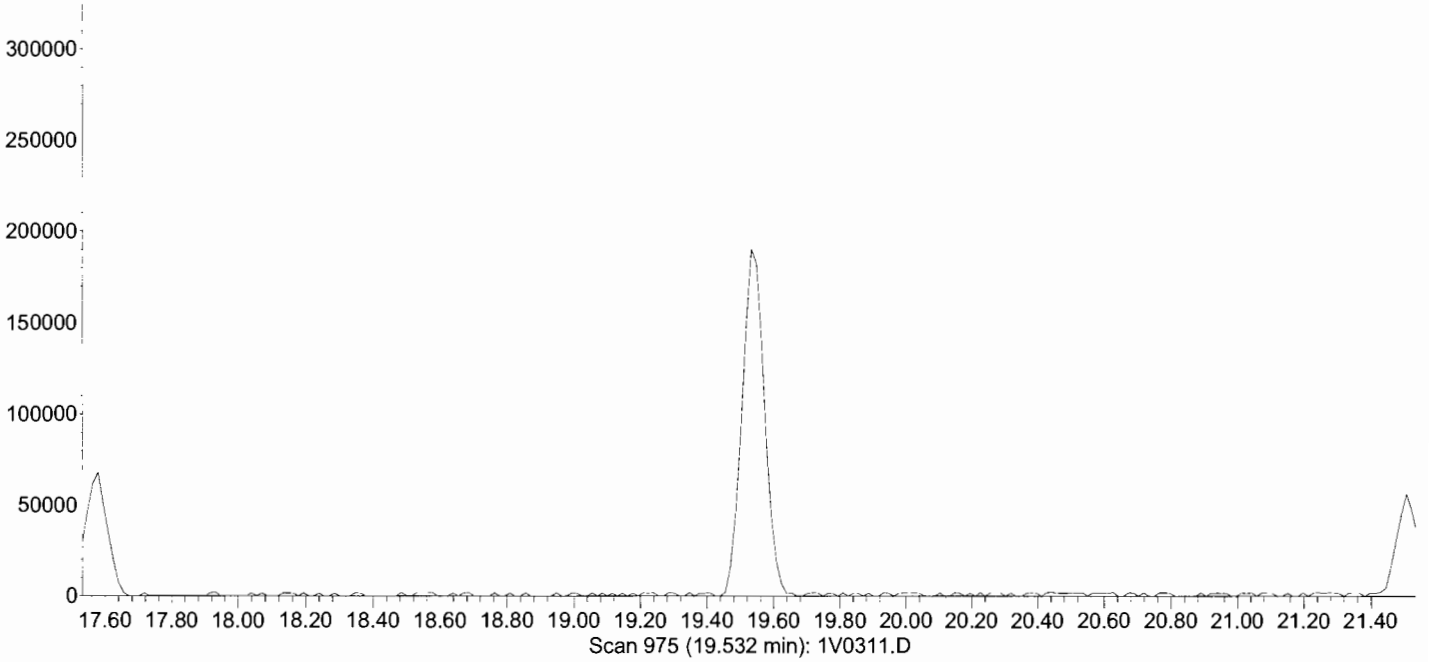
This check applies to the following Samples, MS, MSD, Blanks, and Standards

Client Sample	Lab Sample ID	Lab File ID	Date Acquired	Time Acquired
VSTD5	005 ppb m5035A ical	1V0314.D	9-Mar-10	16:12
VSTD80	080 ppb m5035A ical	1V0316.D	9-Mar-10	17:32
VSTD120	120 ppb m5035A ical	1V0317.D	9-Mar-10	18:10
VSTD200	200 ppb m5035A ical	1V0318.D	9-Mar-10	18:48
VSTD400	400 ppb m5035A ical	1V0319.D	9-Mar-10	19:27
VSTD800	800 ppb m5035A ical	1V0320.D	9-Mar-10	20:06

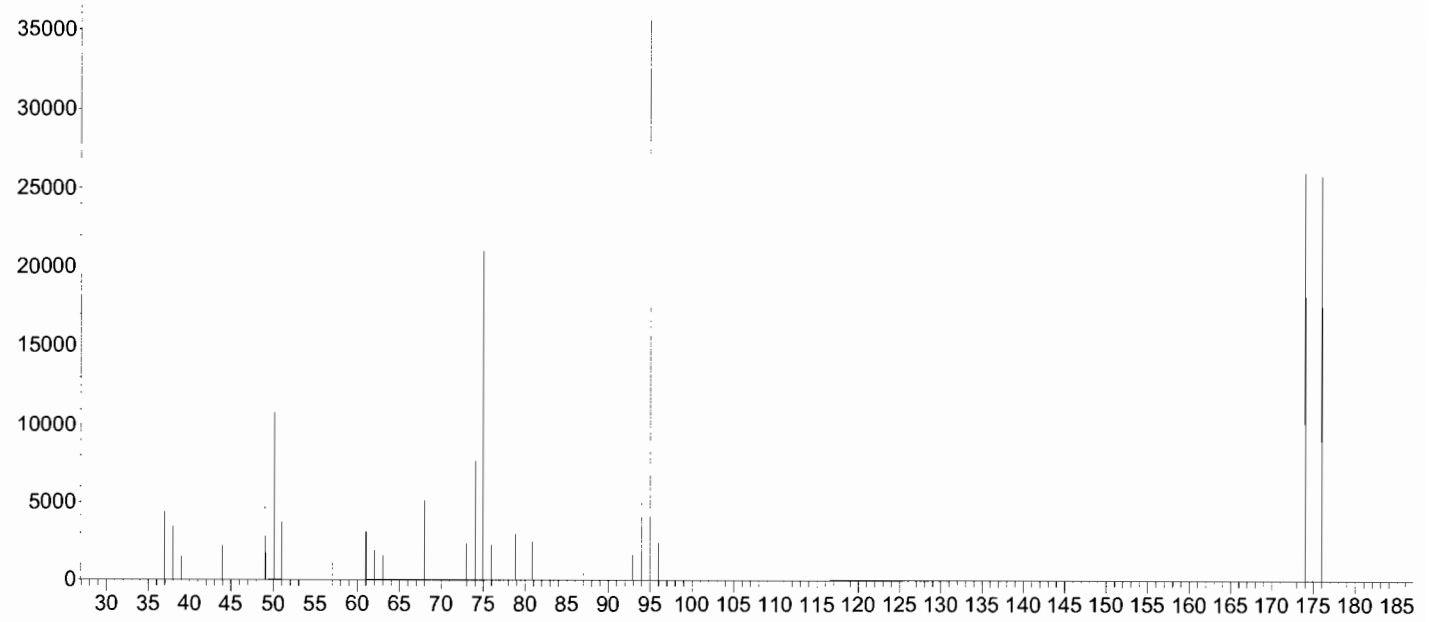
Data File : G:\HPChem\1\Data\03102010\1V0311.D Vial: 1
Acq On : 9 Mar 2010 2:04 pm Operator: omd
Sample : BFB Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPChem\1\Methods\1120WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B

Approved:
12-Mar-2010 10:28
OD

TIC: 1V0311.D



Scan 975 (19.532 min): 1V0311.D



Spectrum Information: Scan 975

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.4	10802	PASS
75	95	30	80	59.1	21008	PASS
95	95	100	100	100.0	35544	PASS
96	95	5	9	6.8	2403	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.9	25920	PASS
175	174	5	9	6.3	1631	PASS
176	174	95	101	99.2	25712	PASS
177	176	5	9	6.2	1606	PASS

Aqua Pro-Tech Laboratories
Volatile Organics Continuing Calibration Check

Client: Brinkerhoff Environmental
Project: Petrocelli Electric

* Compounds with required maximum %RSD values. (CC Compounds)
** Compounds with required minimum RRF values. (SPC Compounds)

Compound	Avg RRF	CCC RRF	Min RRF	RRF %D	Conc	CCC Conc	Conc %D	Max %D	Cal Type
Dichlorodifluoromethane	1.38	0.951		31.0	200	138	31.0		Average RRF
Chloromethane **	2.35	1.85	0.100	21.3	200	157	21.3		Average RRF
Vinyl Chloride*	1.82	1.52		16.8	200	166	16.8	20.0	Average RRF
Bromomethane	2.10	0.850		59.5	200	81.1	59.5		Average RRF
Chloroethane*	1.62	1.03		36.5	200	127	36.5		Average RRF
Trichlorofluoromethane	1.34	1.36		1.41	200	203	1.42		Average RRF
1,1-Dichloroethene*	1.78	1.80		0.887	200	202	0.896	20.0	Average RRF
Carbon Disulfide	3.47	3.43		1.23	200	198	1.23		Average RRF
Acrolein	0.303	0.0308		89.8	200	20.3	89.8		Average RRF
Methylene Chloride	0.910	1.06		17.0	200	234	17.0		Average RRF
Acetone	0.158	0.159		0.698	200	201	0.735		Average RRF
trans-1,2-Dichloroethene	1.63	1.61		0.891	200	198	0.882		Average RRF
Methyl tert-Butyl Ether	2.29	2.08		9.26	200	181	9.26		Average RRF
tert-Butyl Alcohol	0.540	0.443		17.9	200	63.2	68.4		Average RRF
1,1-Dichloroethane **	1.98	2.12	0.100	6.86	200	214	6.85		Average RRF
Acrylonitrile	0.740	0.152		79.5	200	41.0	79.5		Average RRF
Vinyl Acetate	1.83	1.92		4.92	200	210	4.93		Average RRF
cis-1,2-Dichloroethene	1.37	1.49		8.42	200	217	8.42		Average RRF
2,2-Dichloropropane	1.49	1.51		1.31	200	203	1.31		Average RRF
Bromochloromethane	0.983	1.02		3.96	200	208	3.95		Average RRF
Chloroform*	1.52	1.60		5.06	200	210	5.06	20.0	Average RRF
Dibromofluoromethane	2.01	1.79		11.1	50.0	44.5	11.1		Average RRF
Carbon Tetrachloride	0.990	1.11		12.5	200	225	12.5		Average RRF
1,1,1-Trichloroethane	1.13	1.21		6.74	200	214	6.75		Average RRF
2-Butanone	0.253	0.274		8.41	200	217	8.33		Average RRF
1,1-Dichloropropene	1.23	1.35		9.09	200	218	9.10		Average RRF
Benzene	3.49	3.39		2.80	200	194	2.80		Average RRF
1,2-Dichloroethane	0.783	0.919		17.3	200	235	17.3		Average RRF
Trichloroethene	0.418	0.596		42.6	200	285	42.6		Average RRF
Dibromomethane	0.197	0.240		21.8	200	244	21.9		Average RRF
1,2-Dichloropropane*	0.634	0.755		19.1	200	238	19.1	20.0	Average RRF
Bromodichloromethane	0.598	0.760		27.0	200	254	27.0		Average RRF
2-Chloroethylvinyl ether	0.363	0.311		14.1	200	172	14.1		Average RRF
cis-1,3-Dichloropropene	0.916	0.973		6.24	200	213	6.25		Average RRF
Toluene-d8	6.80	6.14		9.77	50.0	45.1	9.78		Average RRF
Toluene*	2.97	3.20		7.60	200	215	7.60	20.0	Average RRF
4-Methyl-2-Pentanone	0.536	0.543		1.36	200	203	1.36		Average RRF
trans-1,3-Dichloropropene	0.718	0.759		5.79	200	212	5.78		Average RRF
Tetrachloroethene	0.550	0.729		32.6	200	265	32.6		Average RRF
1,1,2-Trichloroethane	0.332	0.351		5.91	200	212	5.86		Average RRF
Dibromochloromethane	0.423	0.432		2.03	200	204	2.05		Average RRF
1,3-Dichloropropane	0.792	0.821		3.76	200	208	3.75		Average RRF
1,2-Dibromoethane	0.340	0.346		1.91	200	204	1.98		Average RRF
2-Hexanone	0.423	0.402		5.05	200	190	5.03		Average RRF

Aqua Pro-Tech Laboratories
Volatile Organics Continuing Calibration Check

Client: Brinkerhoff Environmental
Project: Petrocelli Electric

* Compounds with required maximum %RSD values. (CC Compounds)
** Compounds with required minimum RRF values. (SPC Compounds)

Compound	Avg RRF	CCC RRF	Min RRF	RRF %D	Conc	CCC Conc	Conc %D	Max %D	Cal Type
Ethylbenzene*	4.35	4.54		4.31	200	209	4.30	20.0	Average RRF
Chlorobenzene **	1.94	2.07	0.300	6.80	200	214	6.81		Average RRF
1,1,1,2-Tetrachloroethane	0.607	0.629		3.59	200	207	3.58		Average RRF
m+p-Xylenes	1.44	1.51		5.53	400	422	5.53		Average RRF
o-Xylene	3.27	3.32		1.56	200	203	1.56		Average RRF
Styrene	2.35	2.25		4.26	200	191	4.26		Average RRF
Bromoform **	0.304	0.295	0.100	3.09	200	194	3.05		Average RRF
Isopropylbenzene	4.15	4.25		2.32	200	205	2.32		Average RRF
4-Bromofluorobenzene	2.90	2.74		5.79	50.0	47.1	5.79		Average RRF
n-Propylbenzene	5.12	5.68		10.8	200	222	10.8		Average RRF
1,1,2,2-Tetrachloroethane **	0.618	0.669	0.300	8.31	200	217	8.28		Average RRF
Bromobenzene	1.82	1.65		9.25	200	181	9.25		Average RRF
1,3,5-Trimethylbenzene	3.15	3.19		1.41	200	203	1.41		Average RRF
2-Chlorotoluene	3.30	3.33		0.761	200	202	0.761		Average RRF
1,2,3-Trichloropropane	0.134	0.120		10.3	200	180	10.2		Average RRF
4-Chlorotoluene	2.98	3.08		3.52	200	207	3.52		Average RRF
tert-Butylbenzene	3.12	3.26		4.74	200	209	4.75		Average RRF
1,2,4-Trimethylbenzene	3.29	3.21		2.43	200	195	2.43		Average RRF
sec-Butylbenzene	4.57	5.00		9.23	200	218	9.23		Average RRF
4-Isopropyltoluene	3.71	3.71		0.0809	200	200	0.0825		Average RRF
1,3-Dichlorobenzene	1.76	1.80		1.96	200	204	1.95		Average RRF
1,4-Dichlorobenzene	2.42	2.45		1.36	200	203	1.36		Average RRF
n-Butylbenzene	5.75	6.56		14.2	200	228	14.2		Average RRF
1,2-Dichlorobenzene	1.92	2.24		16.9	200	234	16.9		Average RRF
1,2-Dibromo-3-chloropropane	0.107	0.0983		8.13	200	184	8.14		Average RRF
Hexachlorobutadiene	0.891	0.984		10.3	200	221	10.3		Average RRF
1,2,4-Trichlorobenzene	1.31	1.28		2.25	200	195	2.27		Average RRF
Naphthalene	2.22	2.01		9.53	200	181	9.52		Average RRF
1,2,3-Trichlorobenzene	1.07	0.969		9.60	200	181	9.61		Average RRF

Average Conc %D = 12.5

Data File : G:\HPChem\1\Data\05252010\1V0657.D Vial: 2
Acq On : 25 May 2010 12:37 pm Operator: omd
Sample : 200 ppb m5035A ccv Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 13:42 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.12	168	56077	50.00	ug/kg	0.00
30) 1,4-Difluorobenzene	12.98	114	68275	50.00	ug/kg	-0.02
47) Chlorobenzene-d5	17.58	82	60433	50.00	ug/kg	0.01
69) 1,4-Dichlorobenzene-d4	21.52	152	39935	50.00	ug/kg	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	11.49	113	100203	44.45	ug/kg	-0.02
Spiked Amount 50.000	Range 59 - 147		Recovery = 88.90%			
38) Toluene-d8	15.09	98	418966	45.11	ug/kg	-0.02
Spiked Amount 50.000	Range 66 - 134		Recovery = 90.22%			
57) 4-Bromofluorobenzene	19.54	95	165328	47.10	ug/kg	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 94.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.78	85	213207	137.92	ug/kg	98
3) Chloromethane	5.26	50	415695	157.45	ug/kg	98
4) Vinyl Chloride	5.44	62	340436	166.40	ug/kg	91
5) Bromomethane	6.17	94	190615	81.05	ug/kg	97
6) Chloroethane	6.45	64	230494	127.06	ug/kg	93
7) Trichlorofluoromethane	6.75	101	305747	202.83	ug/kg	95
8) Acrolein	8.31	56	6903	20.31	ug/kg	77
9) Acetone	8.80	43	35597	201.47	ug/kg	92
10) 1,1-Dichloroethene	7.74	61	402891	201.79	ug/kg	90
11) tert-Butyl Alcohol	9.22	59	99406	63.24	ug/kg	98
12) Methylene Chloride	8.72	84	238807	233.92	ug/kg	86
13) Carbon Disulfide	7.85	76	769474	197.55	ug/kg	98
14) Acrylonitrile	10.06	53	34035	41.02	ug/kg#	86
15) Methyl tert-Butyl Ether	9.14	73	466447	181.48	ug/kg	100
16) trans-1,2-Dichloroethene	9.00	61	361576	198.24	ug/kg	92
17) 1,1-Dichloroethane	10.00	63	475187	213.70	ug/kg	99
18) Vinyl Acetate	10.29	43	430895	209.86	ug/kg	95
19) 2-Butanone	11.66	43	61569	216.65	ug/kg	95
20) 2,2-Dichloropropane	11.01	77	337758	202.61	ug/kg	94
21) cis-1,2-Dichloroethene	10.83	61	333984	216.85	ug/kg	87
22) Chloroform	11.20	83	358324	210.12	ug/kg	99
23) Bromochloromethane	11.15	49	229224	207.90	ug/kg	80
25) 1,1,1-Trichloroethane	11.58	97	270836	213.50	ug/kg	94
26) 1,1-Dichloropropene	11.75	75	302169	218.20	ug/kg	95
27) Carbon Tetrachloride	11.49	117	249792	224.95	ug/kg	97
28) 1,2-Dichloroethane	12.43	62	206061	234.50	ug/kg	100
29) Benzene	12.14	78	760659	194.40	ug/kg	97
31) Trichloroethene	13.00	130	162646	285.26	ug/kg	89
32) 1,2-Dichloropropane	13.80	63	206182	238.22	ug/kg	93
33) Bromodichloromethane	13.84	83	207446	254.03	ug/kg	99
34) Dibromomethane	13.66	174	65472	243.74	ug/kg	87
35) 2-Chloroethylvinyl ether	14.60	63	85053	171.88	ug/kg	91
36) 4-Methyl-2-Pentanone	15.67	43	148307	202.71	ug/kg	97
37) cis-1,3-Dichloropropene	14.79	75	265790	212.51	ug/kg	98
39) Toluene	15.18	91	872781	215.21	ug/kg	100
40) trans-1,3-Dichloropropene	15.75	75	207383	211.57	ug/kg	95
41) 1,1,2-Trichloroethane	16.03	97	95976	211.72	ug/kg	95
42) 2-Hexanone	16.95	43	109797	189.94	ug/kg	94
43) 1,3-Dichloropropane	16.50	76	224334	207.50	ug/kg	97
44) Tetrachloroethene	15.81	166	199032	265.12	ug/kg	95
45) Dibromochloromethane	16.36	129	117857	204.09	ug/kg	95
46) 1,2-Dibromoethane	16.81	107	94522	203.96	ug/kg	97
48) Chlorobenzene	17.61	112	501132	213.61	ug/kg	98
49) 1,1,1,2-Tetrachloroethane	17.68	131	152004	207.17	ug/kg	98

#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\05252010\1V0657.D Vial: 2
Acq On : 25 May 2010 12:37 pm Operator: omd
Sample : 200 ppb m5035A ccv Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 13:42 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Ethylbenzene	17.57	91	1097650	208.60	ug/kg	96
51) m+p-Xylenes	17.78	106	732286	422.13	ug/kg	90
52) o-Xylene	18.51	91	802238	203.12	ug/kg	96
53) Styrene	18.59	104	542792	191.48	ug/kg	93
54) Isopropylbenzene	19.00	105	1026662	204.64	ug/kg	92
55) Bromoform	18.72	173	71218	193.90	ug/kg	93
56) 1,1,2,2-Tetrachloroethane	19.77	83	161700	216.57	ug/kg	95
58) 1,2,3-Trichloropropane	20.10	110	29013	179.62	ug/kg	97
59) n-Propylbenzene	19.68	91	1372370	221.67	ug/kg	97
60) Bromobenzene	19.77	77	399008	181.49	ug/kg	78
61) 1,3,5-Trimethylbenzene	19.97	105	772120	202.81	ug/kg	100
62) 2-Chlorotoluene	20.04	91	804433	201.52	ug/kg	96
63) 4-Chlorotoluene	20.33	91	745507	207.04	ug/kg	95
64) tert-Butylbenzene	20.59	119	788718	209.49	ug/kg	92
65) 1,2,4-Trimethylbenzene	20.70	105	776037	195.14	ug/kg	96
66) sec-Butylbenzene	20.90	105	1207578	218.46	ug/kg	96
67) 4-Isopropyltoluene	21.10	119	896837	200.16	ug/kg	96
68) 1,3-Dichlorobenzene	21.39	146	433937	203.90	ug/kg	93
70) 1,4-Dichlorobenzene	21.53	146	391350	202.73	ug/kg	90
71) n-Butylbenzene	21.84	91	1048427	228.41	ug/kg	97
72) 1,2-Dichlorobenzene	22.32	146	358454	233.84	ug/kg	90
73) 1,2-Dibromo-3-chloropropan	23.82	75	15703	183.72	ug/kg	82
74) 1,2,4-Trichlorobenzene	25.27	180	204296	195.47	ug/kg	91
75) Hexachlorobutadiene	25.12	225	157123	220.67	ug/kg	98
76) Naphthalene	26.07	128	321152	180.95	ug/kg	95
77) 1,2,3-Trichlorobenzene	26.53	180	154834	180.79	ug/kg	96

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\05252010\1V0657.D Vial: 2
Acq On : 25 May 2010 12:37 pm Operator: omd
Sample : 200 ppb m5035A ccv Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 13:42 2010 Quant Results File: 0309WC1.RES

Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

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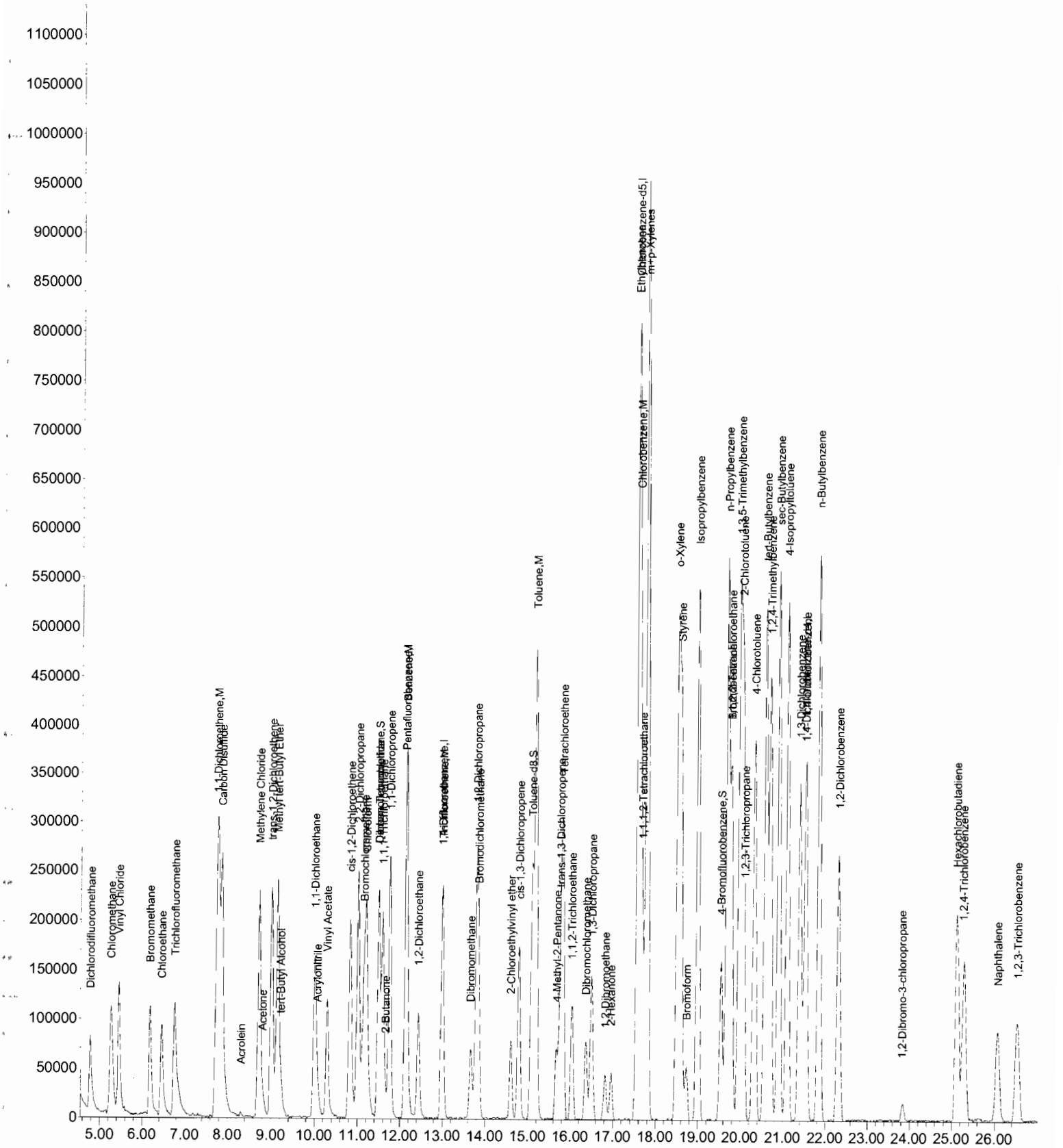
Approved:
25-May-2010 17:57
os

TIC: 1V0657.D



Aqua Pro-Tech Laboratories
Volatile Organics Continuing Calibration Check

Client: Brinkerhoff Environmental
Project: Petrocelli Electric

* Compounds with required maximum %RSD values. (CC Compounds)
** Compounds with required minimum RRF values. (SPC Compounds)

Compound	Avg RRF	CCC RRF	Min RRF	RRF %D	Conc	CCC Conc	Conc %D	Max %D	Cal Type
Dichlorodifluoromethane	1.38	1.04		24.9	200	150	24.9		Average RRF
Chloromethane **	2.35	2.02	0.100	14.2	200	172	14.2		Average RRF
Vinyl Chloride*	1.82	1.62		11.4	200	177	11.4	20.0	Average RRF
Bromomethane	2.10	0.841		59.9	200	80.2	59.9		Average RRF
Chloroethane*	1.62	1.11		31.6	200	137	31.6		Average RRF
Trichlorofluoromethane	1.34	1.46		8.36	200	217	8.36		Average RRF
1,1-Dichloroethene*	1.78	1.86		4.31	200	209	4.32	20.0	Average RRF
Carbon Disulfide	3.47	3.54		2.03	200	204	2.03		Average RRF
Acrolein	0.303	0.0161		94.7	200	10.6	94.7		Average RRF
Methylene Chloride	0.910	1.02		12.3	200	224	12.2		Average RRF
Acetone	0.158	0.137		12.9	200	174	12.9		Average RRF
trans-1,2-Dichloroethene	1.63	1.74		7.08	200	214	7.09		Average RRF
Methyl tert-Butyl Ether	2.29	2.19		4.26	200	191	4.27		Average RRF
tert-Butyl Alcohol	0.540	0.532		1.41	200	76.0	62.0		Average RRF
1,1-Dichloroethane **	1.98	2.33	0.100	17.5	200	235	17.5		Average RRF
Acrylonitrile	0.740	0.150		79.7	200	40.5	79.7		Average RRF
Vinyl Acetate	1.83	2.05		11.9	200	224	11.9		Average RRF
cis-1,2-Dichloroethene	1.37	1.67		21.8	200	244	21.8		Average RRF
2,2-Dichloropropane	1.49	1.69		13.7	200	227	13.7		Average RRF
Bromochloromethane	0.983	1.01		2.26	200	204	2.25		Average RRF
Chloroform*	1.52	1.76		15.8	200	232	15.8	20.0	Average RRF
Dibromofluoromethane	2.01	1.87		6.98	50.0	46.5	6.98		Average RRF
Carbon Tetrachloride	0.990	1.21		22.7	200	245	22.7		Average RRF
1,1,1-Trichloroethane	1.13	1.36		20.0	200	240	20.0		Average RRF
2-Butanone	0.253	0.267		5.45	200	211	5.35		Average RRF
1,1-Dichloropropene	1.23	1.45		17.3	200	235	17.3		Average RRF
Benzene	3.49	3.65		4.65	200	209	4.65		Average RRF
1,2-Dichloroethane	0.783	0.955		21.9	200	244	21.9		Average RRF
Trichloroethene	0.418	0.574		37.5	200	275	37.5		Average RRF
Dibromomethane	0.197	0.219		11.3	200	223	11.4		Average RRF
1,2-Dichloropropane*	0.634	0.706		11.4	200	223	11.4	20.0	Average RRF
Bromodichloromethane	0.598	0.726		21.5	200	243	21.5		Average RRF
2-Chloroethylvinyl ether	0.363	0.290		20.0	200	160	20.0		Average RRF
cis-1,3-Dichloropropene	0.916	0.901		1.67	200	197	1.67		Average RRF
Toluene-d8	6.80	5.62		17.3	50.0	41.3	17.4		Average RRF
Toluene*	2.97	2.96		0.256	200	199	0.256	20.0	Average RRF
4-Methyl-2-Pentanone	0.536	0.486		9.31	200	181	9.32		Average RRF
trans-1,3-Dichloropropene	0.718	0.737		2.61	200	205	2.61		Average RRF
Tetrachloroethene	0.550	0.677		23.2	200	246	23.1		Average RRF
1,1,2-Trichloroethane	0.332	0.320		3.53	200	193	3.58		Average RRF
Dibromochloromethane	0.423	0.382		9.57	200	181	9.56		Average RRF
1,3-Dichloropropane	0.792	0.762		3.68	200	193	3.70		Average RRF
1,2-Dibromoethane	0.340	0.314		7.42	200	185	7.37		Average RRF
2-Hexanone	0.423	0.358		15.5	200	169	15.5		Average RRF

Aqua Pro-Tech Laboratories
Volatile Organics Continuing Calibration Check

Client: Brinkerhoff Environmental
Project: Petrocelli Electric

* Compounds with required maximum %RSD values. (CC Compounds)
** Compounds with required minimum RRF values. (SPC Compounds)

Compound	Avg RRF	CCC RRF	Min RRF	RRF %D	Conc	CCC Conc	Conc %D	Max %D	Cal Type
Ethylbenzene*	4.35	4.30		1.19	200	198	1.20	20.0	Average RRF
Chlorobenzene **	1.94	1.90	0.300	2.37	200	195	2.36		Average RRF
1,1,1,2-Tetrachloroethane	0.607	0.614		1.07	200	202	1.05		Average RRF
m+p-Xylenes	1.44	1.44		0.290	400	401	0.299		Average RRF
o-Xylene	3.27	3.17		3.11	200	194	3.11		Average RRF
Styrene	2.35	2.15		8.53	200	183	8.53		Average RRF
Bromoform **	0.304	0.272	0.100	10.5	200	179	10.5		Average RRF
Isopropylbenzene	4.15	4.03		2.97	200	194	2.97		Average RRF
4-Bromofluorobenzene	2.90	2.58		11.0	50.0	44.5	11.0		Average RRF
n-Propylbenzene	5.12	5.52		7.66	200	215	7.67		Average RRF
1,1,2,2-Tetrachloroethane **	0.618	0.554	0.300	10.3	200	179	10.4		Average RRF
Bromobenzene	1.82	1.66		8.50	200	183	8.50		Average RRF
1,3,5-Trimethylbenzene	3.15	3.09		1.78	200	196	1.78		Average RRF
2-Chlorotoluene	3.30	3.15		4.52	200	191	4.52		Average RRF
1,2,3-Trichloropropane	0.134	0.0999		25.3	200	150	25.2		Average RRF
4-Chlorotoluene	2.98	2.95		0.839	200	198	0.843		Average RRF
tert-Butylbenzene	3.12	3.14		0.645	200	201	0.648		Average RRF
1,2,4-Trimethylbenzene	3.29	3.06		7.03	200	186	7.03		Average RRF
sec-Butylbenzene	4.57	4.72		3.13	200	206	3.13		Average RRF
4-Isopropyltoluene	3.71	3.57		3.74	200	193	3.74		Average RRF
1,3-Dichlorobenzene	1.76	1.71		2.66	200	195	2.66		Average RRF
1,4-Dichlorobenzene	2.42	2.06		14.7	200	171	14.7		Average RRF
n-Butylbenzene	5.75	5.82		1.27	200	203	1.26		Average RRF
1,2-Dichlorobenzene	1.92	1.94		1.34	200	203	1.34		Average RRF
1,2-Dibromo-3-chloropropane	0.107	0.0810		24.3	200	151	24.3		Average RRF
Hexachlorobutadiene	0.891	0.932		4.58	200	209	4.57		Average RRF
1,2,4-Trichlorobenzene	1.31	1.16		11.0	200	178	11.0		Average RRF
Naphthalene	2.22	1.72		22.4	200	155	22.4		Average RRF
1,2,3-Trichlorobenzene	1.07	0.851		20.7	200	159	20.7		Average RRF

Average Conc %D = 14.0

Data File : G:\HPChem\1\Data\06012010\1V0700.D Vial: 1
Acq On : 1 Jun 2010 12:28 pm Operator: omd
Sample : 200 ppb m5035A ccv Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 1 12:52 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	12.16	168	51722	50.00	ug/kg	0.03
30) 1,4-Difluorobenzene	13.03	114	73378	50.00	ug/kg	0.03
47) Chlorobenzene-d5	17.63	82	65929	50.00	ug/kg	0.06
69) 1,4-Dichlorobenzene-d4	21.57	152	46378	50.00	ug/kg	0.05
System Monitoring Compounds						
24) Dibromofluoromethane	11.54	113	96693	46.51	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 93.02%			
38) Toluene-d8	15.15	98	412473	41.32	ug/kg	0.04
Spiked Amount 50.000	Range 66 - 134		Recovery = 82.64%			
57) 4-Bromofluorobenzene	19.60	95	170392	44.50	ug/kg	0.06
Spiked Amount 50.000	Range 64 - 125		Recovery = 89.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.82	85	214195	150.22	ug/kg	96
3) Chloromethane	5.31	50	418053	171.68	ug/kg	99
4) Vinyl Chloride	5.50	62	334245	177.13	ug/kg	97
5) Bromomethane	6.23	94	174061	80.25	ug/kg	95
6) Chloroethane	6.49	64	228981m	136.85	ug/kg	
7) Trichlorofluoromethane	6.80	101	301324	216.73	ug/kg	87
8) Acrolein	8.38	56	3333	10.63	ug/kg#	13
9) Acetone	8.85	43	28395	174.24	ug/kg	92
10) 1,1-Dichloroethene	7.79	61	384226	208.65	ug/kg	90
11) tert-Butyl Alcohol	9.27	59	110137m	75.97	ug/kg	
12) Methylene Chloride	8.77	84	211390	224.50	ug/kg	86
13) Carbon Disulfide	7.90	76	733135	204.06	ug/kg	98
14) Acrylonitrile	10.11	53	31027	40.55	ug/kg	96
15) Methyl tert-Butyl Ether	9.20	73	453906	191.47	ug/kg	97
16) trans-1,2-Dichloroethene	9.06	61	360314	214.18	ug/kg	90
17) 1,1-Dichloroethane	10.07	63	481960	235.00	ug/kg	99
18) Vinyl Acetate	10.36	43	424023	223.90	ug/kg	99
19) 2-Butanone	11.71	43	55229	210.71	ug/kg	93
20) 2,2-Dichloropropane	11.06	77	349696	227.44	ug/kg	98
21) cis-1,2-Dichloroethene	10.88	61	346149	243.67	ug/kg	88
22) Chloroform	11.26	83	364255	231.59	ug/kg	98
23) Bromochloromethane	11.20	49	207958	204.49	ug/kg	83
25) 1,1,1-Trichloroethane	11.65	97	280717	239.92	ug/kg	92
26) 1,1-Dichloropropene	11.82	75	299605	234.57	ug/kg	93
27) Carbon Tetrachloride	11.56	117	251323	245.39	ug/kg	99
28) 1,2-Dichloroethane	12.50	62	197533	243.72	ug/kg	97
29) Benzene	12.20	78	755353	209.30	ug/kg	100
31) Trichloroethene	13.05	130	168568	275.09	ug/kg	93
32) 1,2-Dichloropropane	13.85	63	207280	222.83	ug/kg	92
33) Bromodichloromethane	13.90	83	213243	242.97	ug/kg	99
34) Dibromomethane	13.72	174	64305	222.75	ug/kg	77
35) 2-Chloroethylvinyl ether	14.66	63	85123	160.06	ug/kg	89
36) 4-Methyl-2-Pentanone	15.72	43	142604	181.36	ug/kg	97
37) cis-1,3-Dichloropropene	14.85	75	264364	196.67	ug/kg	96
39) Toluene	15.23	91	869504	199.49	ug/kg	99
40) trans-1,3-Dichloropropene	15.81	75	216204	205.23	ug/kg	95
41) 1,1,2-Trichloroethane	16.09	97	93951	192.84	ug/kg	85
42) 2-Hexanone	17.01	43	104955	168.94	ug/kg	92
43) 1,3-Dichloropropane	16.55	76	223797	192.61	ug/kg	98
44) Tetrachloroethene	15.87	166	198668	246.23	ug/kg	97
45) Dibromochloromethane	16.43	129	112262	180.88	ug/kg	92
46) 1,2-Dibromoethane	16.88	107	92269	185.25	ug/kg	99
48) Chlorobenzene	17.66	112	499770	195.27	ug/kg	100
49) 1,1,1,2-Tetrachloroethane	17.74	131	161780	202.11	ug/kg	97

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\1\Data\06012010\1V0700.D Vial: 1
Acq On : 1 Jun 2010 12:28 pm Operator: omd
Sample : 200 ppb m5035A ccv Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 1 12:52 2010 Quant Results File: 0309WC1.RES

Quant Method : G:\HPCHEM\1\METHODS\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50)	Ethylbenzene	17.63	91	1134343	197.61	ug/kg	99
51)	m+p-Xylenes	17.85	106	759264	401.20	ug/kg	91
52)	o-Xylene	18.57	91	834964	193.79	ug/kg	97
53)	Styrene	18.64	104	565748	182.94	ug/kg	92
54)	Isopropylbenzene	19.06	105	1062110	194.06	ug/kg	94
55)	Bromoform	18.78	173	71720	178.99	ug/kg	94
56)	1,1,2,2-Tetrachloroethane	19.83	83	146016	179.26	ug/kg	97
58)	1,2,3-Trichloropropane	20.15	110	26347	149.52	ug/kg	93
59)	n-Propylbenzene	19.74	91	1454394	215.34	ug/kg	96
60)	Bromobenzene	19.85	77	438898	182.99	ug/kg	75
61)	1,3,5-Trimethylbenzene	20.03	105	815879	196.44	ug/kg	98
62)	2-Chlorotoluene	20.11	91	831567	190.95	ug/kg	94
63)	4-Chlorotoluene	20.38	91	779029	198.31	ug/kg	95
64)	tert-Butylbenzene	20.64	119	826788	201.30	ug/kg	92
65)	1,2,4-Trimethylbenzene	20.75	105	806698	185.94	ug/kg	93
66)	sec-Butylbenzene	20.95	105	1243858	206.27	ug/kg	97
67)	4-Isopropyltoluene	21.17	119	941053	192.52	ug/kg	93
68)	1,3-Dichlorobenzene	21.46	146	451973	194.68	ug/kg	93
70)	1,4-Dichlorobenzene	21.60	146	382272	170.52	ug/kg	91
71)	n-Butylbenzene	21.91	91	1079636	202.53	ug/kg	97
72)	1,2-Dichlorobenzene	22.39	146	360825	202.68	ug/kg	92
73)	1,2-Dibromo-3-chloropropan	23.91	75	15033	151.45	ug/kg	70
74)	1,2,4-Trichlorobenzene	25.36	180	215957	177.92	ug/kg	99
75)	Hexachlorobutadiene	25.21	225	172929	209.13	ug/kg	98
76)	Naphthalene	26.14	128	319960	155.24	ug/kg	97
77)	1,2,3-Trichlorobenzene	26.60	180	157814	158.67	ug/kg	92

(#) = qualifier out of range (m) = manual integration

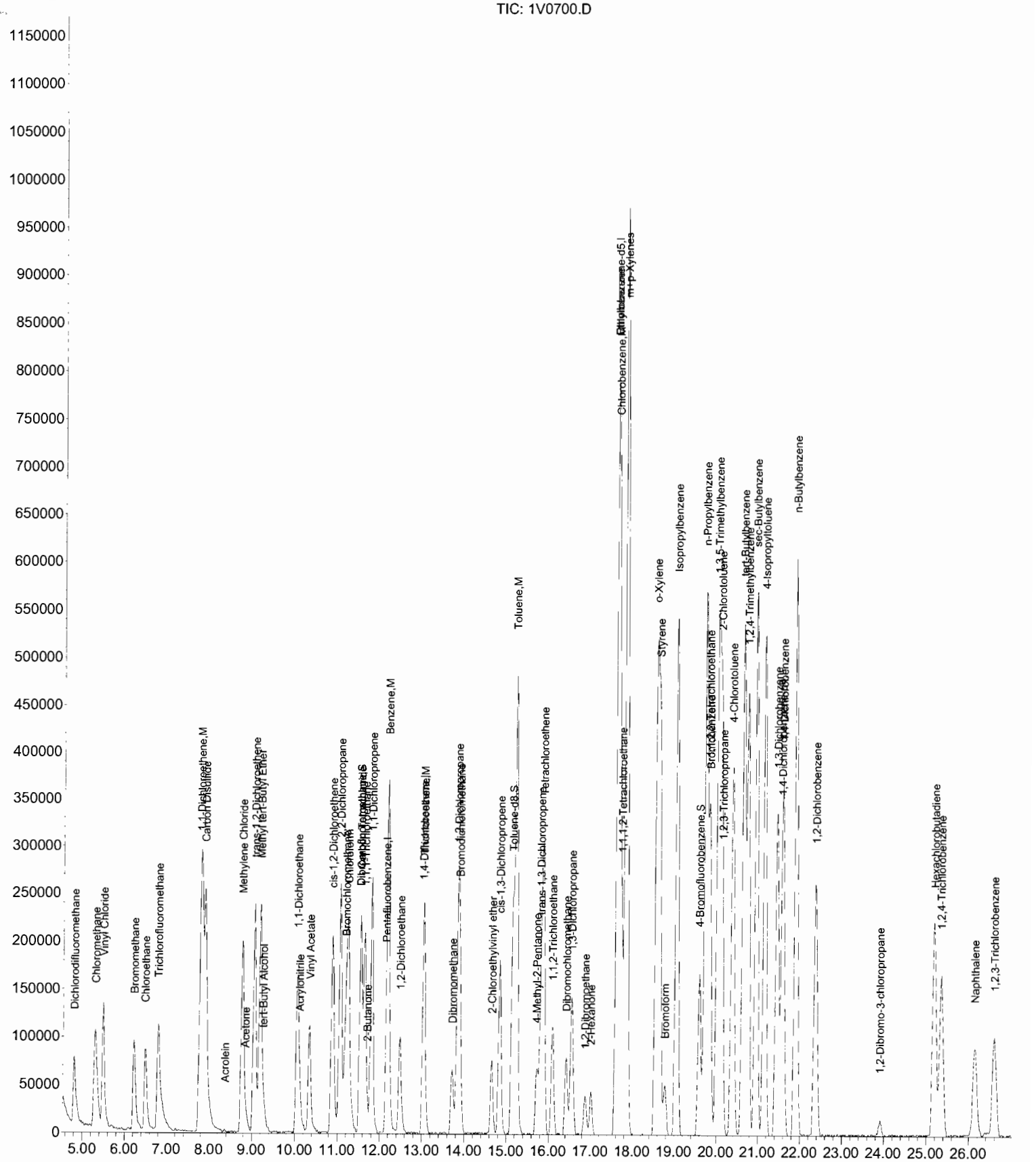
Data File : G:\HPChem\1\Data\06012010\1V0700.D Vial: 1
Acq On : 1 Jun 2010 12:28 pm Operator: omd
Sample : 200 ppb m5035A ccv Inst : GC/MS-1
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 1 12:52 2010 Quant Results File: 0309WC1.RES

Method : G:\HPChem\1\Methods\0309WC1.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 8260 B
Last Update : Fri May 21 16:31:29 2010
Response via : Initial Calibration

56

Approved:
01-Jun-2010 15:55
os

TIC: 1V0700.D



Aqua Pro-Tech Laboratories
Volatile Internal Standard Area and RT Summary

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID (Standard): 1V0657.D

Date Acquired: 25-May-10
Time Acquired: 12:37

IS1= Pentafluorobenzene
IS2= 1,4-Difluorobenzene
IS3= Chlorobenzene-d5
IS4= 1,4-Dichlorobenzene-d4

Area Upper Limit=+100% of Internal Standard Area
Area Lower Limit=-50% of Internal Standard Area
RT Upper Limit=+0.50 minutes of Internal Standard RT
RT Lower Limit=-0.50 minutes of Internal Standard RT

* Denotes values outside of method required QC limits

	IS1 Area	RT	IS2 Area	RT	IS3 Area	RT	IS4 Area	RT
12 Hour Std.	56077	12.12	68275	12.98	60433	17.58	39935	21.52
Upper Limit	112154	12.62	136550	13.48	120866	18.08	79870	22.02
Lower Limit	28038	11.62	34138	12.48	30216	17.08	19968	21.02
Client Sample								
Blank - 1	51320	12.1	72194	12.97	50584	17.57	36040	21.51
SB-MW-8	47480	12.12	70805	12.99	49040	17.59	32878	21.52
SB-MW-9	52281	12.12	76861	12.98	54239	17.58	37066	21.52

Semi-Volatile Organics

by

GC/MS

Aqua Pro-Tech Laboratories
Sample Location and Identification
GC/MS SEMI-VOLATILES

Client Sample Number	Aqua Pro-Tech Sample Number	Matrix
SB-MW-8	10050460-001	Soil
SB-MW-9	10050460-002	Soil

Aqua Pro-Tech Laboratories
Laboratory Chronicle
GC/MS SEMI-VOLATILES

	Date Performed	Performed By
Receipt/Refrigeration:	5/13/10	KPONSI

Analysis	Date Extracted	Extracted By	Date Analyzed	Analyzed By
10050460-001	05/14/2010	DRANA	05/15/2010	S. Pradhan
10050460-002	05/14/2010	DRANA	05/15/2010	S. Pradhan

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-8

Sample Volume 15.0 mL
% Moisture: 10.2%
Extract Volume: 1 mL

Lab Sample ID: 10050460-001
Lab File ID: 5S8666.D
Date Collected: 12-May-10
Date Extracted: 14-May-10
Date Analyzed: 15-May-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
110-86-1	Pyridine		U	213	371
62-75-9	n-Nitroso-dimethylamine		U	334	371
62-53-3	Aniline		U	16.3	371
111-44-4	bis(2-Chloroethyl)ether		U	23.0	371
541-73-1	1,3-Dichlorobenzene		U	22.3	371
106-46-7	1,4-Dichlorobenzene		U	28.2	371
100-51-6	Benzyl Alcohol		U	514	371
95-50-1	1,2-Dichlorobenzene		U	17.1	371
108-60-1	bis(2-Chloroisopropyl)ether		U	18.6	371
621-64-7	n-Nitroso-di-n-propylamine		U	32.7	371
67-72-1	Hexachloroethane		U	20.8	371
98-95-3	Nitrobenzene		U	14.8	371
78-59-1	Isophorone		U	15.6	371
111-91-1	bis(2-Chloroethoxy)methane		U	25.2	371
120-82-1	1,2,4-Trichlorobenzene		U	26.0	371
91-20-3	Naphthalene		U	16.3	371
106-47-8	4-Chloroaniline		U	22.3	371
87-68-3	Hexachlorobutadiene		U	21.5	371
91-57-6	2-Methylnaphthalene		U	19.3	371
77-47-4	Hexachlorocyclopentadiene		U	304	742
91-58-7	2-Chloronaphthalene		U	14.8	371
88-74-4	2-Nitroaniline		U	8.17	371
131-11-3	Dimethylphthalate	122	B	21.5	371
208-96-8	Acenaphthylene		U	11.9	371
606-20-2	2,6-Dinitrotoluene		U	31.2	371
99-09-2	3-Nitroaniline		U	362	371
83-32-9	Acenaphthene		U	14.8	371
132-64-9	Dibenzofuran		U	16.3	371
121-14-2	2,4-Dinitrotoluene		U	29.0	371
86-73-7	Fluorene		U	11.1	371
84-66-2	Diethylphthalate		U	802	371
7005-72-3	4-Chlorophenyl phenyl ether		U	20.0	371
100-01-6	4-Nitroaniline		U	203	371
86-30-6	n-Nitrosodiphenylamine		U	16.3	371
103-33-3	1,2-Diphenylhydrazine		U	12.6	371
101-55-3	4-Bromophenyl-phenyl ether		U	23.8	371
118-74-1	Hexachlorobenzene		U	33.4	371
85-01-8	Phenanthrene		U	5.94	371
120-12-7	Anthracene		U	10.4	371

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-8

Sample Volume 15.0 mL
% Moisture: 10.2%
Extract Volume: 1 mL

Lab Sample ID: 10050460-001
Lab File ID: 5S8666.D
Date Collected: 12-May-10
Date Extracted: 14-May-10
Date Analyzed: 15-May-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
86-74-8	Carbazole		U	23.0	371
84-74-2	Di-n-butylphthalate		U	35.6	371
206-44-0	Fluoranthene		U	18.6	371
92-87-5	Benzidine		U	348	371
129-00-0	Pyrene		U	10.4	371
85-68-7	Butylbenzylphthalate		U	14.1	371
56-55-3	Benzo(a)anthracene		U	12.6	371
91-94-1	3,3'-Dichlorobenzidine		U	195	371
218-01-9	Chrysene		U	14.8	371
117-81-7	bis(2-Ethylhexyl)phthalate	43.1	BJ	254	371
117-84-0	Di-n-octylphthalate		U	23.0	371
205-99-2	Benzo(b)fluoranthene		U	25.2	371
207-08-9	Benzo(k)fluoranthene		U	20.0	371
50-32-8	Benzo(a)pyrene		U	14.1	371
193-39-5	Indeno(1,2,3-cd)pyrene		U	9.65	371
53-70-3	Dibenzo(a,h)anthracene		U	11.9	371
191-24-2	Benzo(g,h,i)perylene		U	19.3	371

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-8

Sample Volume 15.0 mL
% Moisture: 10.2%
Extract Volume: 1 mL

Lab Sample ID: 10050460-001
Lab File ID: 5S8666.D
Date Collected: 12-May-10
Date Extracted: 14-May-10
Date Analyzed: 15-May-10
Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT
	unknown	1280	J	21.4

Number of TICs found: 1
Total Est. Concentration: 1280 ug/L

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

Data File : G:\HPChem\5\Data\05142010\5S8666.D Vial: 18
Acq On : 15 May 2010 12:19 am Operator: sdp
Sample : 10050460-001 Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 13:05 2010 Quant Results File: 0510ABNS.RES

Quant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration
DataAcq Meth : RUN8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	55266	40.00	ug/kg	-0.02
21) Naphthalene-d8	9.63	136	251234	40.00	ug/kg	-0.03
38) Acenaphthene-d10	13.40	164	187179	40.00	ug/kg	-0.03
60) Phenanthrene-d10	16.57	188	377827	40.00	ug/kg	-0.03
74) Chrysene-d12	20.91	240	520374	40.00	ug/kg	-0.03
83) Perylene-d12	23.40	264	503650	40.00	ug/kg	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol	4.35	112	116827	79.44	ug/kg	0.00
Spiked Amount 100.000	Range 46 - 77		Recovery = 79.44%#			
7) Phenol-d6	6.34	99	192453	77.53	ug/kg	-0.02
Spiked Amount 100.000	Range 32 - 60		Recovery = 77.53%#			
22) Nitrobenzene-d5	8.13	82	104745	39.09	ug/kg	-0.03
Spiked Amount 50.000	Range 49 - 112		Recovery = 78.18%			
42) 2-Fluorobiphenyl	12.00	172	213165	34.91	ug/kg	-0.04
Spiked Amount 50.000	Range 45 - 115		Recovery = 69.82%			
64) 2,4,6-Tribromophenol	15.10	330	141359	81.32	ug/kg	-0.04
Spiked Amount 100.000	Range 43 - 126		Recovery = 81.32%			
77) p-Terphenyl-d14	19.49	244	406523	39.23	ug/kg	-0.03
Spiked Amount 50.000	Range 50 - 125		Recovery = 78.46%			
Target Compounds						Qvalue
46) Dimethylphthalate	12.92	163	10474	1.64	ug/kg#	87
82) bis(2-Ethylhexyl)phthalate	20.92	149	6856	0.58	ug/kg	95

(#) = qualifier out of range (m) = manual integration

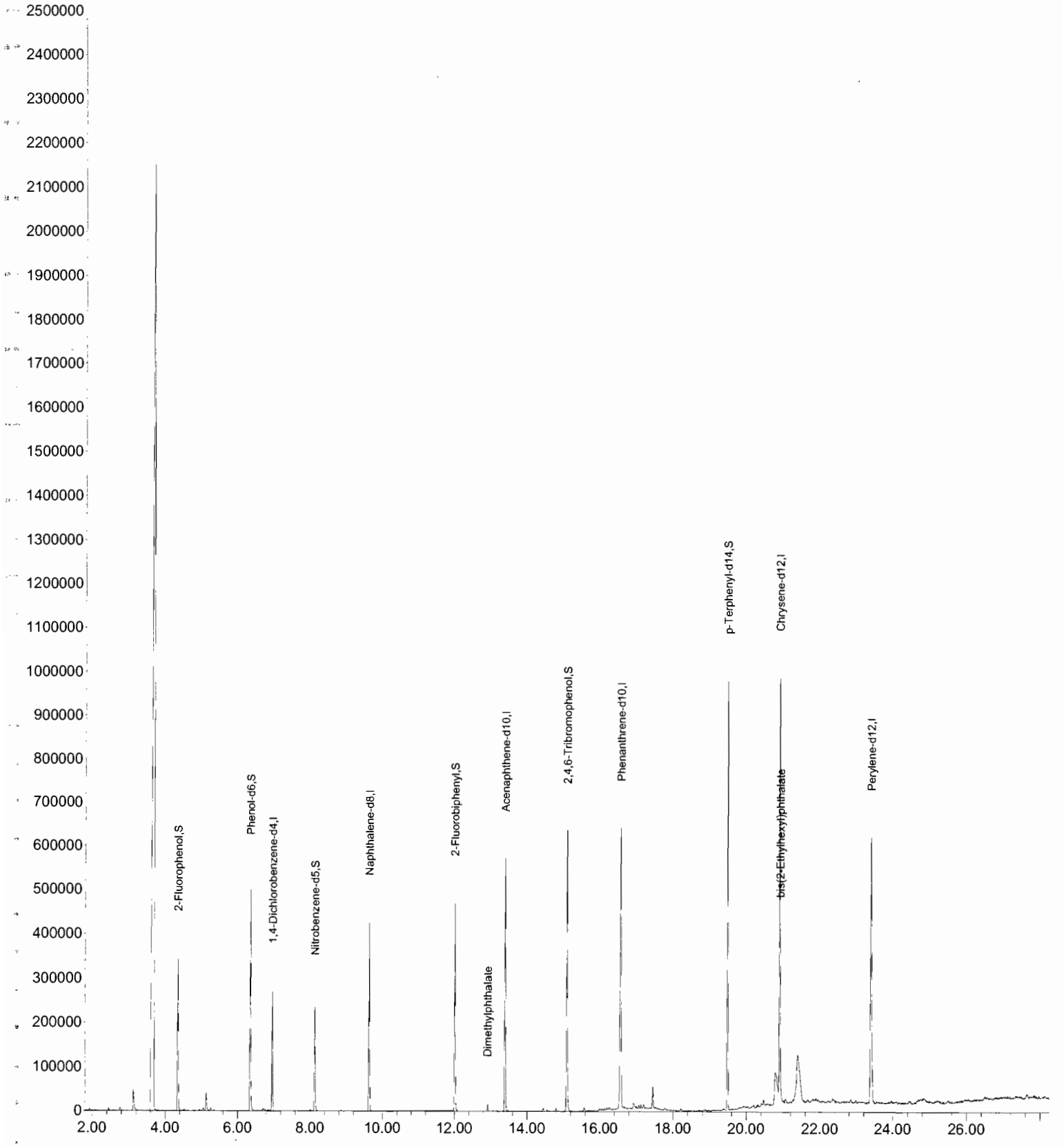
Data File : G:\HPChem\5\Data\05142010\5S8666.D Vial: 18
Acq On : 15 May 2010 12:19 am Operator: sdp
Sample : 10050460-001 Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 13:05 2010 Quant Results File: 0510ABNS.RES

Method : G:\HPChem\5\Methods\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration

65

Approved:
17-May-2010 12:10

TIC: 5S8666.D



Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-9

Sample Volume 15.0 mL
% Moisture: 13.4%
Extract Volume: 1 mL

Lab Sample ID: 10050460-002
Lab File ID: 5S8667.D
Date Collected: 12-May-10
Date Extracted: 14-May-10
Date Analyzed: 15-May-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
110-86-1	Pyridine		U	221	385
62-75-9	n-Nitroso-dimethylamine		U	346	385
62-53-3	Aniline		U	16.9	385
111-44-4	bis(2-Chloroethyl)ether		U	23.9	385
541-73-1	1,3-Dichlorobenzene		U	23.1	385
106-46-7	1,4-Dichlorobenzene		U	29.3	385
100-51-6	Benzyl Alcohol		U	533	385
95-50-1	1,2-Dichlorobenzene		U	17.7	385
108-60-1	bis(2-Chloroisopropyl)ether		U	19.2	385
621-64-7	n-Nitroso-di-n-propylamine		U	33.9	385
67-72-1	Hexachloroethane		U	21.6	385
98-95-3	Nitrobenzene		U	15.4	385
78-59-1	Isophorone		U	16.2	385
111-91-1	bis(2-Chloroethoxy)methane		U	26.2	385
120-82-1	1,2,4-Trichlorobenzene		U	26.9	385
91-20-3	Naphthalene		U	16.9	385
106-47-8	4-Chloroaniline		U	23.1	385
87-68-3	Hexachlorobutadiene		U	22.3	385
91-57-6	2-Methylnaphthalene		U	20.0	385
77-47-4	Hexachlorocyclopentadiene		U	316	770
91-58-7	2-Chloronaphthalene		U	15.4	385
88-74-4	2-Nitroaniline		U	8.47	385
131-11-3	Dimethylphthalate	113	B	22.3	385
208-96-8	Acenaphthylene		U	12.3	385
606-20-2	2,6-Dinitrotoluene		U	32.3	385
99-09-2	3-Nitroaniline		U	376	385
83-32-9	Acenaphthene		U	15.4	385
132-64-9	Dibenzofuran		U	16.9	385
121-14-2	2,4-Dinitrotoluene		U	30.0	385
86-73-7	Fluorene		U	11.5	385
84-66-2	Diethylphthalate		U	831	385
7005-72-3	4-Chlorophenyl phenyl ether		U	20.8	385
100-01-6	4-Nitroaniline		U	211	385
86-30-6	n-Nitrosodiphenylamine		U	16.9	385
103-33-3	1,2-Diphenylhydrazine		U	13.1	385
101-55-3	4-Bromophenyl-phenyl ether		U	24.6	385
118-74-1	Hexachlorobenzene		U	34.6	385
85-01-8	Phenanthrene		U	6.16	385
120-12-7	Anthracene		U	10.8	385

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-9

Sample Volume 15.0 mL
% Moisture: 13.4%
Extract Volume: 1 mL

Lab Sample ID: 10050460-002
Lab File ID: 5S8667.D
Date Collected: 12-May-10
Date Extracted: 14-May-10
Date Analyzed: 15-May-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
86-74-8	Carbazole		U	23.9	385
84-74-2	Di-n-butylphthalate		U	37.0	385
206-44-0	Fluoranthene		U	19.2	385
92-87-5	Benzidine		U	361	385
129-00-0	Pyrene		U	10.8	385
85-68-7	Butylbenzylphthalate		U	14.6	385
56-55-3	Benzo(a)anthracene		U	13.1	385
91-94-1	3,3'-Dichlorobenzidine		U	202	385
218-01-9	Chrysene		U	15.4	385
117-81-7	bis(2-Ethylhexyl)phthalate	38.6	BJ	263	385
117-84-0	Di-n-octylphthalate		U	23.9	385
205-99-2	Benzo(b)fluoranthene		U	26.2	385
207-08-9	Benzo(k)fluoranthene		U	20.8	385
50-32-8	Benzo(a)pyrene		U	14.6	385
193-39-5	Indeno(1,2,3-cd)pyrene		U	10.0	385
53-70-3	Dibenzo(a,h)anthracene		U	12.3	385
191-24-2	Benzo(g,h,i)perylene		U	20.0	385

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Soil

Client Sample: SB-MW-9

Sample Volume 15.0 mL
% Moisture: 13.4%
Extract Volume: 1 mL

Lab Sample ID: 10050460-002
Lab File ID: 5S8667.D
Date Collected: 12-May-10
Date Extracted: 14-May-10
Date Analyzed: 15-May-10
Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT
	unknown	709	J	20.79

Number of TICs found: 1
Total Est. Concentration: 709 ug/L

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

ata File : G:\HPChem\5\Data\05142010\5S8667.D Vial: 19
cq On : 15 May 2010 12:55 am Operator: sdp
mple : 10050460-002 Inst : GC/MS-5
sc : (2029-134) Multiplr: 1.00
IS Integration Params: rteint.p
Quant Time: May 17 13:05 2010 Quant Results File: 0510ABNS.RES

ant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
ast Update : Thu May 13 16:55:39 2010
sponse via : Initial Calibration
taAcq Meth : RUN8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	51918	40.00	ug/kg	-0.02
21) Naphthalene-d8	9.64	136	231893	40.00	ug/kg	-0.02
38) Acenaphthene-d10	13.39	164	173102	40.00	ug/kg	-0.03
60) Phenanthrene-d10	16.57	188	350595	40.00	ug/kg	-0.03
74) Chrysene-d12	20.90	240	491578	40.00	ug/kg	-0.03
83) Perylene-d12	23.40	264	481019	40.00	ug/kg	-0.05
ystem Monitoring Compounds						
4) 2-Fluorophenol	4.35	112	112190	81.21	ug/kg	0.00
Spiked Amount 100.000	Range 46 - 77		Recovery = 81.21%#			
7) Phenol-d6	6.35	99	197428	84.66	ug/kg	-0.02
Spiked Amount 100.000	Range 32 - 60		Recovery = 84.66%#			
22) Nitrobenzene-d5	8.13	82	101537	41.05	ug/kg	-0.02
Spiked Amount 50.000	Range 49 - 112		Recovery = 82.10%			
42) 2-Fluorobiphenyl	12.01	172	207416	36.73	ug/kg	-0.03
Spiked Amount 50.000	Range 45 - 115		Recovery = 73.46%			
64) 2,4,6-Tribromophenol	15.10	330	138131	85.63	ug/kg	-0.03
Spiked Amount 100.000	Range 43 - 126		Recovery = 85.63%			
77) p-Terphenyl-d14	19.49	244	404826	41.35	ug/kg	-0.02
Spiked Amount 50.000	Range 50 - 125		Recovery = 82.70%			
Target Compounds						Qvalue
46) Dimethylphthalate	12.92	163	8650	1.47	ug/kg#	88
82) bis(2-Ethylhexyl)phthalate	20.93	149	5593	0.50	ug/kg#	86

4) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\5\Data\05142010\5S8667.D Vial: 19
Acq On : 15 May 2010 12:55 am Operator: sdp
Sample : 10050460-002 Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 13:05 2010 Quant Results File: 0510ABNS.RES

Method : G:\HPChem\5\Methods\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration

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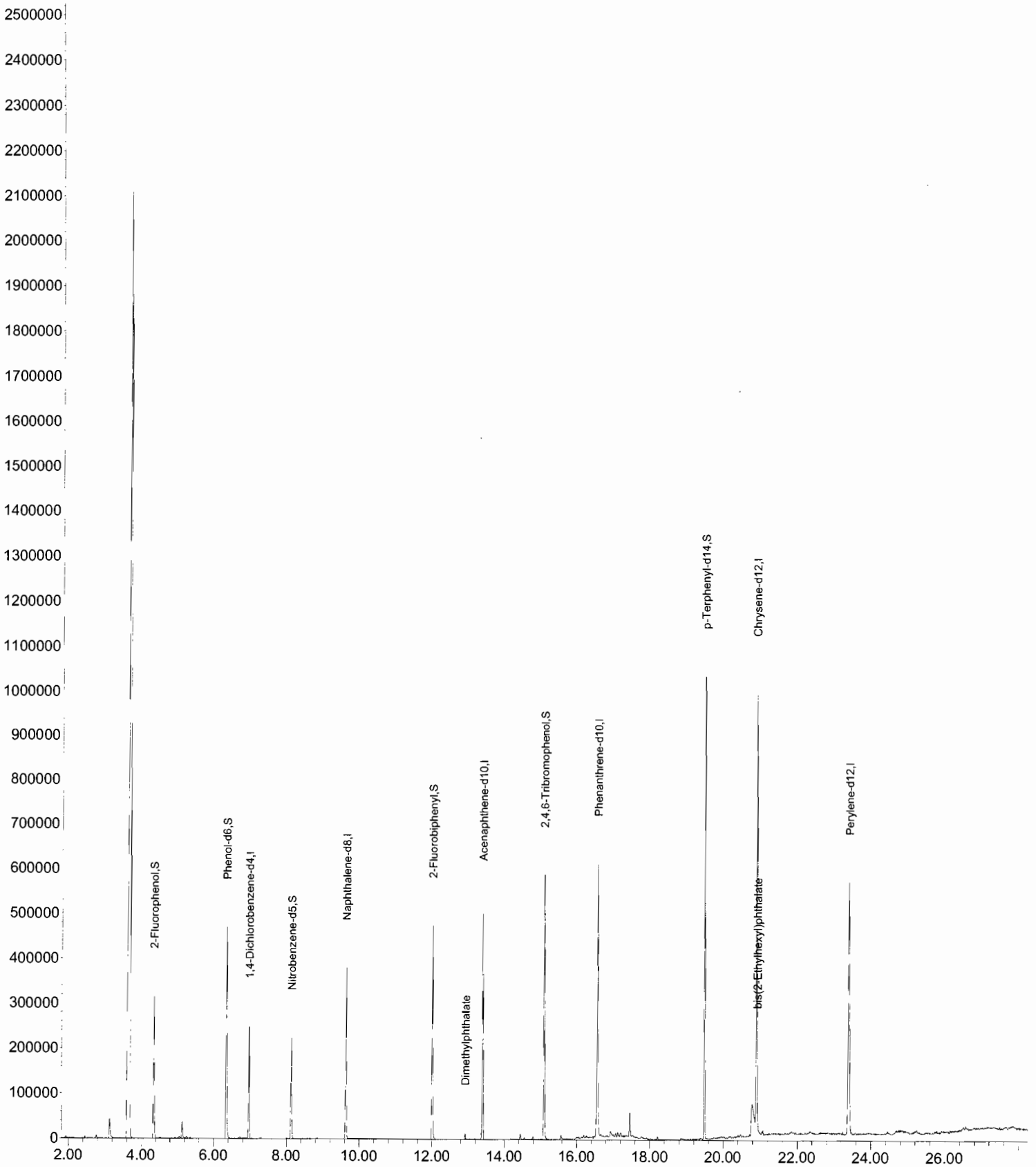
Approved:
17-May-2010 12:10

TIC: 5S8667.D



Aqua Pro-Tech Laboratories
Conformance/Non-Conformance Checklist

	YES	NO
GC/MS TUNE SPECIFICATIONS		
DFTPP passes criteria	X	
GC/MS TUNING FREQUENCY		
Method 625-Performed within 24 hours prior to sample analysis		
Method 8270C-Performed within 12 hours prior to sample analysis	X	
GC/MS INITIAL CALIBRATION REQUIREMENTS		
Calibration Check Compounds pass criteria	X	
System Performance Check Compounds pass criteria	X	
GC/MS CONTINUING CALIBRATION PASS REQUIREMENTS	X	
SURROGATE RECOVERIES PASS CRITERIA	X	
MATRIX SPIKE/SPIKE DUPLICATE RECOVERIES PASS CRITERIA	X	
BLANK SPIKE RECOVERIES PASS CRITERIA	X	
INTERNAL STANDARD AREAS AND RETENTION TIMES PASS CRITERIA	X	
EXTRACTION HOLDING TIMES MET (from date of collection)		
Method 625 (water/wastewater)-7 days		
Method 8270C(soil/solid waste)-14 days	X	
ANALYSIS HOLDING TIMES MET (from date of extraction)		
Method 625 (water extracts)-40 days		
Method 8270C(soil/solid extracts)-40 days	X	

COMMENTS:

Reviewed By: Tracie Schmid 02-Jun-2010

Date

Tracie Schmid

Form 2 Semi-Volatile Organics Water
Semi-Volatile System Monitoring (Surrogate) Compound Recovery

Client: Brinkerhoff Environmental
Project: Petrocelli Electric

	(% Recovery)
QC Limits	
S1 = 2-Fluorophenol	(46 - 77%)
S2 = Phenol-d6	(32 - 60%)
S3 = Nitrobenzene-d5	(49 - 112%)
S4 = 2-Fluorobiphenyl	(45 - 115%)
S5 = 2,4,6-Tribromophenol	(43 - 126%)
S6 = p-Terphenyl-d14	(50 - 125%)

* = Values outside of QC limits
D = System Monitoring Compound diluted out
N/A = Not Applicable To This Method

Sample ID	Sample Name	S1	S2	S3	S4	S5	S6	TOTAL OUT
10050460-001	SB-MW-8	N/A	N/A	78	70	N/A	78	0
10050460-002	SB-MW-9	N/A	N/A	82	73	N/A	83	0
Blank - 2029	Blank	N/A	N/A	82	73	N/A	80	0

Data File : G:\HPChem\5\Data\05142010\5S8660.D Vial: 12
Acq On : 14 May 2010 8:39 pm Operator: sdp
Sample : 10050398-001 Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:16 2010 Quant Results File: 0510ABNS.RES

Quant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration
Data Acq Meth : RUN8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	57650	40.00	ug/kg	-0.02
21) Naphthalene-d8	9.63	136	263635	40.00	ug/kg	-0.03
38) Acenaphthene-d10	13.39	164	200333	40.00	ug/kg	-0.03
60) Phenanthrene-d10	16.57	188	386763	40.00	ug/kg	-0.03
74) Chrysene-d12	20.90	240	530639	40.00	ug/kg	-0.03
83) Perylene-d12	23.40	264	519751	40.00	ug/kg	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol	4.34	112	114557	74.68	ug/kg	-0.01
Spiked Amount 100.000	Range 46 - 77		Recovery = 74.68%			
7) Phenol-d6	6.34	99	201443	77.79	ug/kg	-0.02
Spiked Amount 100.000	Range 32 - 60		Recovery = 77.79%#			
22) Nitrobenzene-d5	8.13	82	104999	37.34	ug/kg	-0.03
Spiked Amount 50.000	Range 49 - 112		Recovery = 74.68%			
42) 2-Fluorobiphenyl	12.01	172	209609	32.07	ug/kg	-0.03
Spiked Amount 50.000	Range 45 - 115		Recovery = 64.14%			
64) 2,4,6-Tribromophenol	15.09	330	146974	82.59	ug/kg	-0.04
Spiked Amount 100.000	Range 43 - 126		Recovery = 82.59%			
77) p-Terphenyl-d14	19.49	244	406364	38.45	ug/kg	-0.02
Spiked Amount 50.000	Range 50 - 125		Recovery = 76.90%			
Target Compounds						Qvalue
46) Dimethylphthalate	12.92	163	8828	1.29	ug/kg#	91
82) bis(2-Ethylhexyl)phthalate	20.93	149	7185	0.60	ug/kg	90

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\5\Data\05142010\5S8660.D Vial: 12
Acq On : 14 May 2010 8:39 pm Operator: sdp
Sample : 10050398-001 Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:16 2010 Quant Results File: 0510ABNS.RES

Method : G:\HPChem\5\Methods\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration

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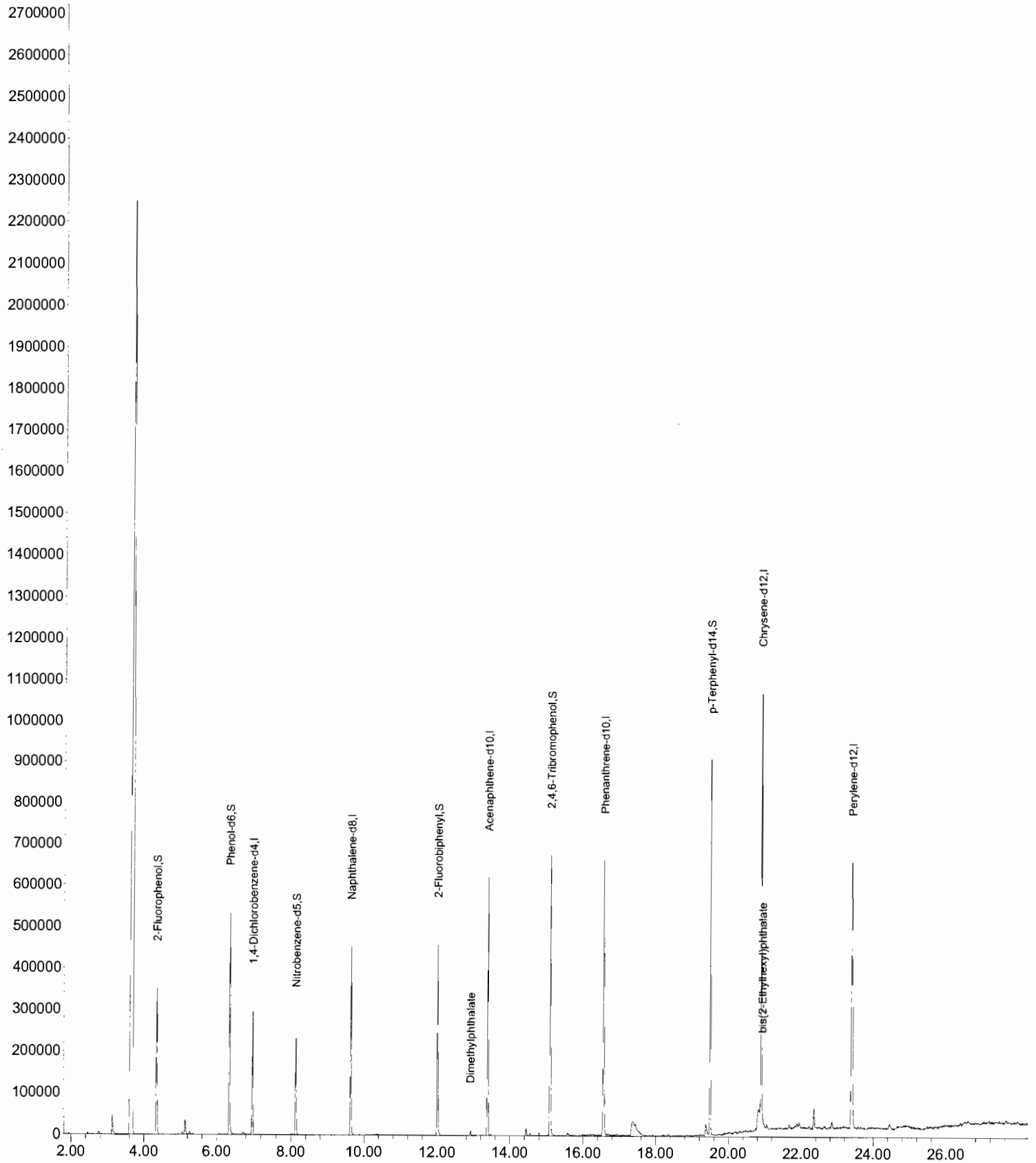
Approved:
17-May-2010 12:10

TIC: 5S8660.D



Data File : G:\HPChem\5\Data\05142010\5S8669.D Vial: 21
Acq On : 15 May 2010 2:09 am Operator: sdp
Sample : ms 10050398-001 Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 13:01 2010 Quant Results File: 0510ABNS.RES

Quant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration
DataAcq Meth : RUN8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	55067	40.00	ug/kg	-0.03
21) Naphthalene-d8	9.63	136	250890	40.00	ug/kg	-0.03
38) Acenaphthene-d10	13.40	164	183814	40.00	ug/kg	-0.03
60) Phenanthrene-d10	16.56	188	360430	40.00	ug/kg	-0.03
74) Chrysene-d12	20.91	240	469236	40.00	ug/kg	-0.03
83) Perylene-d12	23.40	264	476484	40.00	ug/kg	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	4.35	112	101556	69.31	ug/kg	0.00
Spiked Amount 100.000	Range 46 - 77		Recovery = 69.31%			
7) Phenol-d6	6.35	99	173547	70.16	ug/kg	-0.02
Spiked Amount 100.000	Range 32 - 60		Recovery = 70.16%#			
22) Nitrobenzene-d5	8.13	82	92346	34.51	ug/kg	-0.03
Spiked Amount 50.000	Range 49 - 112		Recovery = 69.02%			
42) 2-Fluorobiphenyl	12.01	172	193408	32.25	ug/kg	-0.03
Spiked Amount 50.000	Range 45 - 115		Recovery = 64.50%			
64) 2,4,6-Tribromophenol	15.10	330	129551	78.12	ug/kg	-0.03
Spiked Amount 100.000	Range 43 - 126		Recovery = 78.12%			
77) p-Terphenyl-d14	19.49	244	359189	38.44	ug/kg	-0.03
Spiked Amount 50.000	Range 50 - 125		Recovery = 76.88%			
Target Compounds						Qvalue
2) Pyridine	1.98	79	37382	21.87	ug/kg	96
3) n-Nitroso-dimethylamine	1.93	42	47483	36.10	ug/kg	95
6) Aniline	6.30	93	66379	22.99	ug/kg	93
8) Phenol	6.38	94	90903	37.40	ug/kg	84
9) bis(2-Chloroethyl)ether	6.49	93	66625	36.69	ug/kg	94
10) 2-Chlorophenol	6.54	128	66959	35.29	ug/kg	94
11) 1,3-Dichlorobenzene	6.84	146	63790	29.85	ug/kg	97
12) 1,4-Dichlorobenzene	7.00	146	67898	30.89	ug/kg	94
13) Benzyl Alcohol	7.31	108	43900	40.62	ug/kg	94
14) 1,2-Dichlorobenzene	7.31	146	63433	30.62	ug/kg	93
15) 2-Methylphenol	7.62	108	67184	38.44	ug/kg	98
16) bis(2-Chloroisopropyl)ethe	7.63	45	213702	35.40	ug/kg	98
18) 3+4-Methylphenol	7.95	108	76239	39.00	ug/kg	99
19) n-Nitroso-di-n-propylamine	7.88	70	68609	37.62	ug/kg	94
20) Hexachloroethane	8.00	117	35794	30.64	ug/kg	96
23) Nitrobenzene	8.17	77	95287	36.37	ug/kg	97
24) Isophorone	8.70	82	189952	37.31	ug/kg	98
25) 2-Nitrophenol	8.86	139	46410	35.22	ug/kg	91
26) 2,4-Dimethylphenol	9.06	107	88820	36.50	ug/kg	98
27) bis(2-Chloroethoxy)methane	9.23	93	116611	37.26	ug/kg	99
28) 2,4-Dichlorophenol	9.39	162	72920	35.63	ug/kg	97
29) Benzoic Acid	9.26	105	2063	2.29	ug/kg	83
30) 1,2,4-Trichlorobenzene	9.54	180	72321	30.68	ug/kg	100
31) Naphthalene	9.68	128	220195	32.65	ug/kg	99
32) 2,6-Dichlorophenol	9.87	162	70874	32.84	ug/kg	98
33) 4-Chloroaniline	9.86	127	91021	29.57	ug/kg	98
34) Hexachlorobutadiene	10.01	225	50019	31.24	ug/kg	98
36) 4-Chloro-3-methylphenol	10.99	107	102560	40.53	ug/kg	98
37) 2-Methylnaphthalene	11.18	142	158686	32.90	ug/kg	99
39) Hexachlorocyclopentadiene	11.55	237	27418	24.26	ug/kg	96
40) 2,4,6-Trichlorophenol	11.83	196	68254	38.34	ug/kg	98
41) 2,4,5-Trichlorophenol	11.90	196	69631	36.24	ug/kg	97
44) 2-Chloronaphthalene	12.20	162	176359	37.04	ug/kg	98
45) 2-Nitroaniline	12.47	138	79046	38.80	ug/kg	90
46) Dimethylphthalate	12.92	163	246311	39.31	ug/kg	98
47) Acenaphthylene	13.08	152	297137	39.02	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\5\Data\05142010\5S8669.D Vial: 21
Acq On : 15 May 2010 2:09 am Operator: sdp
Sample : ms 10050398-001 Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 13:01 2010 Quant Results File: 0510ABNS.RES

Quant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration
DataAcq Meth : RUN8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48)	2,6-Dinitrotoluene	13.03	165	58329	40.94	ug/kg	94
49)	3-Nitroaniline	13.36	138	62659	34.54	ug/kg	88
50)	Acenaphthene	13.46	153	188676	35.91	ug/kg	99
51)	2,4-Dinitrophenol	13.62	184	7514	15.48	ug/kg	97
52)	Dibenzofuran	13.84	168	280933	34.89	ug/kg	99
53)	4-Nitrophenol	13.84	65	72415	43.36	ug/kg	95
54)	2,4-Dinitrotoluene	13.88	165	89366	41.21	ug/kg	97
56)	Fluorene	14.58	166	225170	35.71	ug/kg	97
57)	Diethylphthalate	14.45	149	276182	38.46	ug/kg	98
58)	4-Chlorophenyl phenyl ethe	14.62	204	117272	36.53	ug/kg	97
59)	4-Nitroaniline	14.66	138	76153	38.50	ug/kg	96
61)	4,6-Dinitro-2-methylphenol	14.76	198	32598	26.34	ug/kg	99
62)	n-Nitrosodiphenylamine	14.89	169	164545	36.25	ug/kg	98
63)	1,2-Diphenylhydrazine	14.96	77	366897	42.04	ug/kg	99
65)	4-Bromophenyl-phenyl ether	15.66	248	85907	38.32	ug/kg	99
66)	Hexachlorobenzene	15.77	284	112429	37.76	ug/kg	100
68)	Pentachlorophenol	16.22	266	31407	22.76	ug/kg	94
69)	Phenanthrene	16.62	178	372012	36.39	ug/kg	99
70)	Anthracene	16.72	178	380476	38.30	ug/kg	99
71)	Carbazole	17.12	167	370674	36.21	ug/kg	98
72)	Di-n-butylphthalate	17.92	149	571813	38.69	ug/kg	98
73)	Fluoranthene	18.87	202	470185	37.89	ug/kg	99
75)	Benzidine	19.11	184	99274	38.20	ug/kg	97
76)	Pyrene	19.22	202	476759	36.72	ug/kg	99
78)	Butylbenzylphthalate	20.17	149	300632	39.96	ug/kg	97
79)	Benzo(a)anthracene	20.89	228	463927	37.26	ug/kg	99
80)	3,3'-Dichlorobenzidine	20.86	252	161619	34.73	ug/kg	98
81)	Chrysene	20.94	228	433643	35.49	ug/kg	99
82)	bis(2-Ethylhexyl)phthalate	20.93	149	423642	39.81	ug/kg	98
84)	Di-n-octylphthalate	21.89	149	740063	32.28	ug/kg	100
85)	Benzo(b)fluoranthene	22.63	252	516325	33.59	ug/kg	96
86)	Benzo(k)fluoranthene	22.67	252	446588	29.44	ug/kg	99
87)	Benzo(a)pyrene	23.28	252	424839	29.64	ug/kg	98
88)	Indeno(1,2,3-cd)pyrene	26.08	276	528281	30.48	ug/kg	99
89)	Dibenzo(a,h)anthracene	26.12	278	430081	30.50	ug/kg	99
90)	Benzo(g,h,i)perylene	26.77	276	449421	29.98	ug/kg	100

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\5\Data\05142010\5S8669.D Vial: 21
Acq On : 15 May 2010 2:09 am Operator: sdp
Sample : ms 10050398-001 Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 13:01 2010 Quant Results File: 0510ABNS.RES

Method : G:\HPChem\5\Methods\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration

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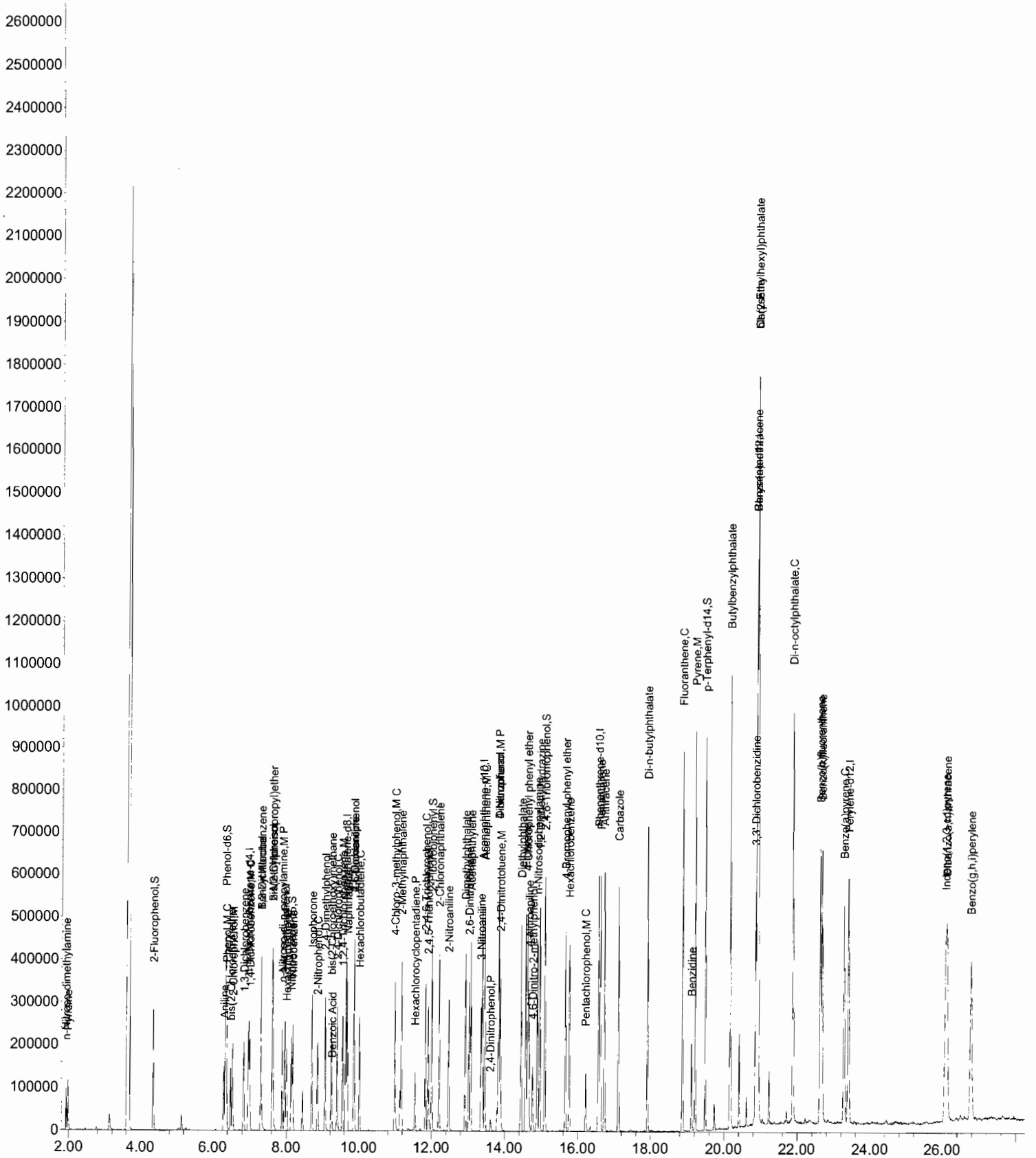
Approved:
17-May-2010 12:10

TIC: 5S8669.D



Aqua Pro-Tech Laboratories
Semi-Volatile Blank Spike Recoveries

Blank Spike File: G:\HPChem\5\Data\05142010\5S8658.D

* Denotes values outside of method required QC Limits

CAS	Compound	Conc.	QC Limits
111-44-4	bis(2-Chloroethyl)ether	48.4	21.5 - 63.0
106-46-7	1,4-Dichlorobenzene	38.9	18.7 - 52.9
108-60-1	bis(2-Chloroisopropyl)ether	47.2	31.4 - 69.3
98-95-3	Nitrobenzene	45.0	27.2 - 78.8
111-91-1	bis(2-Chloroethoxy)methane	44.5	24.6 - 82.4
91-20-3	Naphthalene	38.8	17.8 - 59.8
91-58-7	2-Chloronaphthalene	44.6	32.3 - 56.8
131-11-3	Dimethylphthalate	48.3	Detected - 50.0
606-20-2	2,6-Dinitrotoluene	51.1	34.1 - 68.4
121-14-2	2,4-Dinitrotoluene	52.0	23.8 - 63.5
7005-72-3	4-Chlorophenyl phenyl ether	45.0	19.2 - 72.4
118-74-1	Hexachlorobenzene	45.6	3.90 - 70.8
120-12-7	Anthracene	45.8	21.7 - 59.0
206-44-0	Fluoranthene	44.6	21.5 - 60.7
129-00-0	Pyrene	45.1	34.8 - 50.0
56-55-3	Benzo[a]anthracene	44.9	20.9 - 66.5
218-01-9	Chrysene	43.0	22.1 - 70.0
117-84-0	Di-n-octylphthalate	38.2	9.30 - 65.9
50-32-8	Benzo[a]pyrene	35.0	15.9 - 74.0
53-70-3	Dibenzo[a,h]anthracene	36.3	Detected - 99.9
95-50-1	1,2-Dichlorobenzene	41.2	24.3 - 56.0
621-64-7	n-Nitroso-di-n-propylamine	47.0	6.80 - 99.0
87-68-3	Hexachlorobutadiene	38.1	18.9 - 51.1
86-73-7	Fluorene	43.4	35.8 - 53.2
84-74-2	Di-n-butylphthalate	47.3	4.20 - 55.5
117-81-7	bis(2-Ethylhexyl)phthalate	47.1	14.5 - 68.4
205-99-2	Benzo[b]fluoranthene	37.9	21.0 - 70.2
541-73-1	1,3-Dichlorobenzene	39.2	8.40 - 77.0
67-72-1	Hexachloroethane	40.4	27.6 - 50.0
78-59-1	Isophorone	44.4	23.3 - 90.1
120-82-1	1,2,4-Trichlorobenzene	37.8	28.7 - 64.6
208-96-8	Acenaphthylene	47.4	26.8 - 63.0
83-32-9	Acenaphthene	44.2	30.1 - 66.2
84-66-2	Diethylphthalate	46.7	Detected - 50.0
101-55-3	4-Bromophenyl-phenyl ether	44.1	32.5 - 57.2
85-01-8	Phenanthrene	43.6	32.6 - 53.4
85-68-7	Butylbenzylphthalate	49.4	Detected - 70.0
91-94-1	3,3'-Dichlorobenzidine	42.3	4.10 - 160
207-08-9	Benzo[k]fluoranthene	37.7	12.6 - 72.9
193-39-5	Indeno(1,2,3-cd)pyrene	35.6	Detected - 75.5
191-24-2	Benzo[g,h,i]perylene	35.2	Detected - 97.5

ata File : G:\HPChem\5\Data\05142010\5S8658.D Vial: 10
cq On : 14 May 2010 7:26 pm Operator: sdp
mple : sabn 134 lcs Inst : GC/MS-5
sc : (2029-134) Multiplr: 1.00
S Integration Params: rteint.p
Quant Time: May 17 12:07 2010 Quant Results File: 0510ABNS.RES

ant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
itle : BNA by EPA 8270C method
ast Update : Thu May 13 16:55:39 2010
sponse via : Initial Calibration
taAcq Meth : RUN8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	49986	40.00	ug/kg	-0.02
21) Naphthalene-d8	9.63	136	239010	40.00	ug/kg	-0.03
38) Acenaphthene-d10	13.40	164	171892	40.00	ug/kg	-0.03
60) Phenanthrene-d10	16.57	188	342575	40.00	ug/kg	-0.03
74) Chrysene-d12	20.91	240	446582	40.00	ug/kg	-0.03
83) Perylene-d12	23.40	264	467210	40.00	ug/kg	-0.05
ystem Monitoring Compounds						
4) 2-Fluorophenol	4.35	112	117350	88.23	ug/kg	0.00
Spiked Amount 100.000	Range 46 - 77		Recovery = 88.23%#			
7) Phenol-d6	6.35	99	196629	87.58	ug/kg	-0.02
Spiked Amount 100.000	Range 32 - 60		Recovery = 87.58%#			
22) Nitrobenzene-d5	8.13	82	107868	42.31	ug/kg	-0.03
Spiked Amount 50.000	Range 49 - 112		Recovery = 84.62%			
42) 2-Fluorobiphenyl	12.01	172	216241	38.56	ug/kg	-0.04
Spiked Amount 50.000	Range 45 - 115		Recovery = 77.12%			
64) 2,4,6-Tribromophenol	15.10	330	144030	91.38	ug/kg	-0.04
Spiked Amount 100.000	Range 43 - 126		Recovery = 91.38%			
77) p-Terphenyl-d14	19.49	244	392406	44.12	ug/kg	-0.03
Spiked Amount 50.000	Range 50 - 125		Recovery = 88.24%			

Target Compounds						Qvalue
2) Pyridine	1.99	79	45934	29.61	ug/kg	96
3) n-Nitroso-dimethylamine	1.94	42	54792	45.90	ug/kg	96
6) Aniline	6.30	93	89586	34.18	ug/kg	95
8) Phenol	6.38	94	103984	47.13	ug/kg	86
9) bis(2-Chloroethyl)ether	6.49	93	79836	48.43	ug/kg	98
10) 2-Chlorophenol	6.54	128	77637	45.08	ug/kg	94
11) 1,3-Dichlorobenzene	6.84	146	76178	39.27	ug/kg	97
12) 1,4-Dichlorobenzene	7.00	146	77712	38.95	ug/kg	93
13) Benzyl Alcohol	7.32	108	48646	49.58	ug/kg	95
14) 1,2-Dichlorobenzene	7.31	146	77574	41.25	ug/kg	97
15) 2-Methylphenol	7.62	108	75297	47.47	ug/kg	99
16) bis(2-Chloroisopropyl)ethe	7.63	45	258659	47.21	ug/kg	97
18) 3+4-Methylphenol	7.95	108	86263	48.61	ug/kg	99
19) n-Nitroso-di-n-propylamine	7.88	70	77920	47.06	ug/kg	94
20) Hexachloroethane	8.00	117	42856	40.42	ug/kg	98
23) Nitrobenzene	8.17	77	112383	45.03	ug/kg	98
24) Isophorone	8.70	82	215317	44.40	ug/kg	97
25) 2-Nitrophenol	8.86	139	56251	44.81	ug/kg	93
26) 2,4-Dimethylphenol	9.06	107	101026	43.58	ug/kg	96
27) bis(2-Chloroethoxy)methane	9.23	93	132672	44.50	ug/kg	98
28) 2,4-Dichlorophenol	9.39	162	86664	44.45	ug/kg	96
29) Benzoic Acid	9.32	105	31097	36.20	ug/kg	95
30) 1,2,4-Trichlorobenzene	9.55	180	84929	37.82	ug/kg	99
31) Naphthalene	9.68	128	249510	38.83	ug/kg	99
32) 2,6-Dichlorophenol	9.87	162	82174	39.97	ug/kg	95
33) 4-Chloroaniline	9.86	127	106483	36.31	ug/kg	96
34) Hexachlorobutadiene	10.02	225	58186	38.15	ug/kg	98
36) 4-Chloro-3-methylphenol	10.99	107	112573	46.70	ug/kg	95
37) 2-Methylnaphthalene	11.18	142	180712	39.33	ug/kg	98
39) Hexachlorocyclopentadiene	11.55	237	46093	39.09	ug/kg	96
40) 2,4,6-Trichlorophenol	11.84	196	77130	46.33	ug/kg	99
41) 2,4,5-Trichlorophenol	11.90	196	85462	47.56	ug/kg	98
44) 2-Chloronaphthalene	12.21	162	198975	44.69	ug/kg	97
45) 2-Nitroaniline	12.47	138	94437	49.56	ug/kg	89
46) Dimethylphthalate	12.93	163	283138	48.32	ug/kg	97
47) Acenaphthylene	13.08	152	337902	47.45	ug/kg	99

Data File : G:\HPChem\5\Data\05142010\5S8658.D Vial: 10
Acq On : 14 May 2010 7:26 pm Operator: sdp
Sample : sabn 134 lcs Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:07 2010 Quant Results File: 0510ABNS.RES

Quant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration
DataAcq Meth : RUN8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48)	2,6-Dinitrotoluene	13.02	165	68136	51.14	ug/kg	96
49)	3-Nitroaniline	13.36	138	74329	43.81	ug/kg	90
50)	Acenaphthene	13.46	153	217313	44.23	ug/kg	97
51)	2,4-Dinitrophenol	13.61	184	24027	36.42	ug/kg	85
52)	Dibenzofuran	13.85	168	315407	41.89	ug/kg	98
53)	4-Nitrophenol	13.84	65	87407	55.97	ug/kg	98
54)	2,4-Dinitrotoluene	13.88	165	105464	52.00	ug/kg	97
56)	Fluorene	14.58	166	256063	43.43	ug/kg	99
57)	Diethylphthalate	14.46	149	313842	46.74	ug/kg	98
58)	4-Chlorophenyl phenyl ethe	14.63	204	135202	45.04	ug/kg	99
59)	4-Nitroaniline	14.67	138	88850	48.03	ug/kg	95
61)	4,6-Dinitro-2-methylphenol	14.76	198	52147	40.53	ug/kg	98
62)	n-Nitrosodiphenylamine	14.89	169	191770	44.45	ug/kg	99
63)	1,2-Diphenylhydrazine	14.96	77	420575	50.70	ug/kg	98
65)	4-Bromophenyl-phenyl ether	15.67	248	94147	44.18	ug/kg	97
66)	Hexachlorobenzene	15.77	284	129219	45.66	ug/kg	97
68)	Pentachlorophenol	16.22	266	39860	30.40	ug/kg	94
69)	Phenanthrene	16.62	178	424045	43.64	ug/kg	100
70)	Anthracene	16.73	178	433001	45.86	ug/kg	99
71)	Carbazole	17.12	167	427605	43.95	ug/kg	98
72)	Di-n-butylphthalate	17.92	149	665615	47.38	ug/kg	97
73)	Fluoranthene	18.88	202	526991	44.69	ug/kg	99
75)	Benzidine	19.12	184	162644	65.76	ug/kg	98
76)	Pyrene	19.22	202	558019	45.16	ug/kg	99
78)	Butylbenzylphthalate	20.18	149	353893	49.42	ug/kg	97
79)	Benzo(a)anthracene	20.89	228	533000	44.98	ug/kg	99
80)	3,3'-Dichlorobenzidine	20.86	252	187664	42.37	ug/kg	99
81)	Chrysene	20.94	228	500582	43.05	ug/kg	99
82)	bis(2-Ethylhexyl)phthalate	20.93	149	477940	47.19	ug/kg	97
84)	Di-n-octylphthalate	21.89	149	859534	38.23	ug/kg	99
85)	Benzo(b)fluoranthene	22.63	252	571962	37.95	ug/kg	98
86)	Benzo(k)fluoranthene	22.68	252	560755	37.70	ug/kg	99
87)	Benzo(a)pyrene	23.29	252	492076	35.01	ug/kg	99
88)	Indeno(1,2,3-cd)pyrene	26.08	276	605545	35.63	ug/kg	99
89)	Dibenzo(a,h)anthracene	26.13	278	502864	36.37	ug/kg	98
90)	Benzo(g,h,i)perylene	26.78	276	518705	35.28	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\5\Data\05142010\5S8658.D Vial: 10
Acq On : 14 May 2010 7:26 pm Operator: sdp
Sample : sabn 134 lcs Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:07 2010 Quant Results File: 0510ABNS.RES

Method : G:\HPChem\5\Methods\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration

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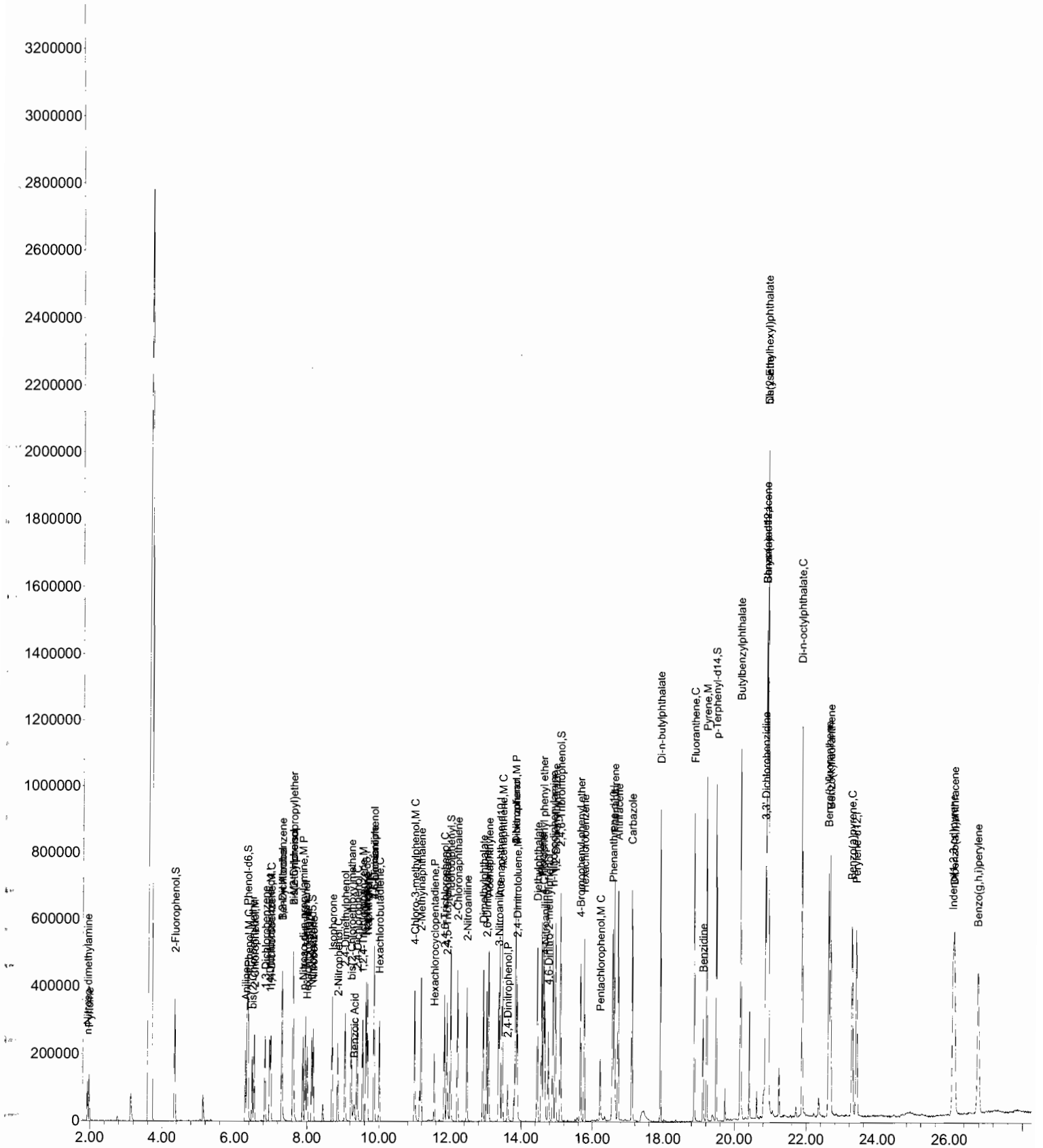
Approved:
17-May-2010 12:10

TIC: 5S8658.D



Aqua Pro-Tech Laboratories
Semi-Volatile Method Blank Summary

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID: 5S8659.D

Matrix: Water

Blank:
SVO MBlank #2029

Lab Sample ID: sabn 134 blk
Date Analyzed: 14-May-10
Time Acquired: 20:03

This Method Blank applies to the following samples:

Client Sample	Lab Sample ID	Lab File ID	Time Acquired
SB-MW-8	10050460-001	5S8666.D	0:19
SB-MW-9	10050460-002	5S8667.D	0:55

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Water

Client Sample: Blank - 2029

Sample Volume 15.0 mL

Lab Sample ID: Blank - 2029
Lab File ID: 5S8659.D

Extract Volume: 1 mL

Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
110-86-1	Pyridine		U	191	333
62-75-9	n-Nitroso-dimethylamine		U	300	333
100-52-7	Benzaldehyde		U	99.3	333
62-53-3	Aniline		U	14.7	333
108-95-2	Phenol		U	14.7	333
111-44-4	bis(2-Chloroethyl)ether		U	20.7	333
95-57-8	2-Chlorophenol		U	14.0	333
541-73-1	1,3-Dichlorobenzene		U	20.0	333
106-46-7	1,4-Dichlorobenzene		U	25.3	333
100-51-6	Benzyl Alcohol		U	462	333
95-50-1	1,2-Dichlorobenzene		U	15.3	333
95-48-7	2-Methylphenol		U	15.3	333
108-60-1	bis(2-Chloroisopropyl)ether		U	16.7	333
98-86-2	Acetophenone		U	88.0	333
1319-77-3	3+4-Methylphenol		U	25.3	333
621-64-7	n-Nitroso-di-n-propylamine		U	29.3	333
67-72-1	Hexachloroethane		U	18.7	333
98-95-3	Nitrobenzene		U	13.3	333
78-59-1	Isophorone		U	14.0	333
88-75-5	2-Nitrophenol		U	142	333
105-67-9	2,4-Dimethylphenol		U	18.7	333
111-91-1	bis(2-Chloroethoxy)methane		U	22.7	333
120-83-2	2,4-Dichlorophenol		U	41.3	333
65-85-0	Benzoic Acid		U	423	667
120-82-1	1,2,4-Trichlorobenzene		U	23.3	333
91-20-3	Naphthalene		U	14.7	333
87-65-0	2,6-Dichlorophenol		U	17.3	333
106-47-8	4-Chloroaniline		U	20.0	333
87-68-3	Hexachlorobutadiene		U	19.3	333
105-60-2	Caprolactam		U	60.7	333
59-50-7	4-Chloro-3-methylphenol		U	23.3	333
91-57-6	2-Methylnaphthalene		U	17.3	333
77-47-4	Hexachlorocyclopentadiene		U	273	667
88-06-2	2,4,6-Trichlorophenol		U	17.3	333
95-95-4	2,4,5-Trichlorophenol		U	34.0	333
92-52-4	Biphenyl		U	65.3	333
91-58-7	2-Chloronaphthalene		U	13.3	333
88-74-4	2-Nitroaniline		U	7.33	333
131-11-3	Dimethylphthalate	80.3		19.3	333

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Water

Client Sample: Blank - 2029

Sample Volume 15.0 mL

Lab Sample ID: Blank - 2029
Lab File ID: 5S8659.D

Extract Volume: 1 mL

Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
208-96-8	Acenaphthylene		U	10.7	333
606-20-2	2,6-Dinitrotoluene		U	28.0	333
99-09-2	3-Nitroaniline		U	325	333
83-32-9	Acenaphthene		U	13.3	333
51-28-5	2,4-Dinitrophenol		U	26.0	667
132-64-9	Dibenzofuran		U	14.7	333
100-02-7	4-Nitrophenol		U	87.3	667
121-14-2	2,4-Dinitrotoluene		U	26.0	333
58-90-2	2,3,4,6-Tetrachlorophenol		U	434	333
86-73-7	Fluorene		U	10.0	333
84-66-2	Diethylphthalate		U	720	333
7005-72-3	4-Chlorophenyl phenyl ether		U	18.0	333
100-01-6	4-Nitroaniline		U	183	333
534-52-1	4,6-Dinitro-2-methylphenol		U	189	667
86-30-6	n-Nitrosodiphenylamine		U	14.7	333
103-33-3	1,2-Diphenylhydrazine		U	11.3	333
101-55-3	4-Bromophenyl-phenyl ether		U	21.3	333
118-74-1	Hexachlorobenzene		U	30.0	333
1912-24-9	Atrazine		U	54.7	333
87-86-5	Pentachlorophenol		U	141	1330
85-01-8	Phenanthrene		U	5.33	333
120-12-7	Anthracene		U	9.33	333
86-74-8	Carbazole		U	20.7	333
84-74-2	Di-n-butylphthalate		U	32.0	333
206-44-0	Fluoranthene		U	16.7	333
92-87-5	Benzidine		U	313	333
129-00-0	Pyrene		U	9.33	333
85-68-7	Butylbenzylphthalate		U	12.7	333
56-55-3	Benzo(a)anthracene		U	11.3	333
91-94-1	3,3'-Dichlorobenzidine		U	175	333
218-01-9	Chrysene		U	13.3	333
117-81-7	bis(2-Ethylhexyl)phthalate	37.3	J	228	333
117-84-0	Di-n-octylphthalate		U	20.7	333
205-99-2	Benzo(b)fluoranthene		U	22.7	333
207-08-9	Benzo(k)fluoranthene		U	18.0	333
50-32-8	Benzo(a)pyrene		U	12.7	333
193-39-5	Indeno(1,2,3-cd)pyrene		U	8.67	333
53-70-3	Dibenzo(a,h)anthracene		U	10.7	333
191-24-2	Benzo(g,h,i)perylene		U	17.3	333

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Matrix: Water

Client Sample: Blank - 2029

Sample Volume 15.0 mL

Lab Sample ID: Blank - 2029
Lab File ID: 5S8659.D

Extract Volume: 1 mL

Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT

Number of TICs found: 0
Total Est. Concentration: 0 ug/L

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

Data File : G:\HPChem\5\Data\05142010\5S8659.D Vial: 11
Acq On : 14 May 2010 8:03 pm Operator: sdp
Sample : sabn 134 blk Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:08 2010 Quant Results File: 0510ABNS.RES

Quant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration
DataAcq Meth : RUN8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	50602	40.00	ug/kg	-0.02
21) Naphthalene-d8	9.63	136	237730	40.00	ug/kg	-0.03
38) Acenaphthene-d10	13.40	164	175606	40.00	ug/kg	-0.03
60) Phenanthrene-d10	16.57	188	354279	40.00	ug/kg	-0.03
74) Chrysene-d12	20.91	240	501266	40.00	ug/kg	-0.03
83) Perylene-d12	23.40	264	494638	40.00	ug/kg	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol	4.35	112	112385	83.47	ug/kg	0.00
Spiked Amount 100.000	Range 46 - 77		Recovery = 83.47%#			
7) Phenol-d6	6.35	99	197780	87.02	ug/kg	-0.02
Spiked Amount 100.000	Range 32 - 60		Recovery = 87.02%#			
22) Nitrobenzene-d5	8.13	82	103580	40.85	ug/kg	-0.03
Spiked Amount 50.000	Range 49 - 112		Recovery = 81.70%			
42) 2-Fluorobiphenyl	12.00	172	208759	36.44	ug/kg	-0.04
Spiked Amount 50.000	Range 45 - 115		Recovery = 72.88%			
64) 2,4,6-Tribromophenol	15.10	330	132450	81.25	ug/kg	-0.04
Spiked Amount 100.000	Range 43 - 126		Recovery = 81.25%			
77) p-Terphenyl-d14	19.49	244	396803	39.75	ug/kg	-0.03
Spiked Amount 50.000	Range 50 - 125		Recovery = 79.50%			
Target Compounds						Qvalue
46) Dimethylphthalate	12.92	163	7213	1.20	ug/kg#	93
82) bis(2-Ethylhexyl)phthalate	20.93	149	6352	0.56	ug/kg#	89

(#) = qualifier out of range (m) = manual integration

Data File : G:\HPChem\5\Data\05142010\5S8659.D Vial: 11
Acq On : 14 May 2010 8:03 pm Operator: sdp
Sample : sabn 134 blk Inst : GC/MS-5
Misc : (2029-134) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:08 2010 Quant Results File: 0510ABNS.RES

Method : G:\HPChem\5\Methods\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration

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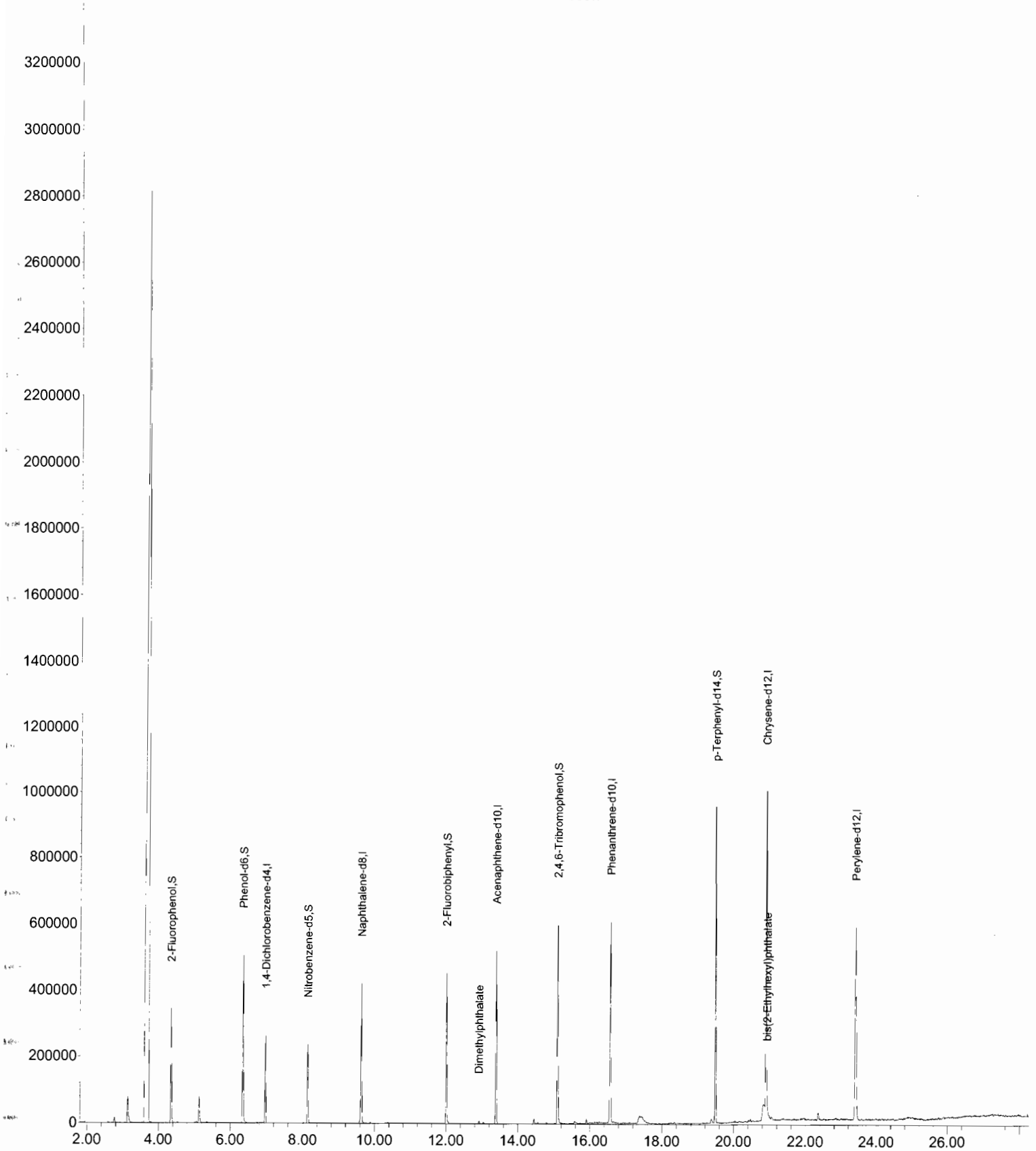
Approved:
17-May-2010 12:10

TIC: 5S8659.D



Aqua Pro-Tech Laboratories
Semi-Volatile Organic Instrument Performance Check (Tune)
DECAFLUOROTRIPHENYLPHOSPHINE(DFTPP)

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID: G:\HPChem\5\Data\05142010\5S8649.D

DFTPP Injection Date: 14-May-10
DFTPP Injection Time: 14:29

m/z	Ion Abundance Criteria	% Relative Abundance
51	30.0 - 60.0% of mass 198	55.4
68	0.00 - 2.00% of mass 69	0.600
69	0.00 - 100% of mass 198	64.7
70	0.00 - 2.00% of mass 69	0.00
127	40.0 - 60.0% of mass 198	40.1
197	0.00 - 1.00% of mass 198	0.00
198	100 - 100% of mass 198	100
199	5.00 - 9.00% of mass 198	6.80
275	10.0 - 30.0% of mass 198	22.1
365	1.00 - 100% of mass 198	1.70
441	0.0100 - 100% of mass 443	72.7
442	40.0 - 100% of mass 198	60.8
443	17.0 - 23.0% of mass 442	19.3

This check applies to the following Samples, MS, MSD, Blanks, and Standards

Client Sample	Lab Sample ID	Lab File ID	Date Acquired	Time Acquired
CCV	050 ppb ABN ccv	5S8650.D	14-May-10	14:43
Blank - 2029	sabn 134 blk	5S8659.D	14-May-10	20:03
Blank Spike - 2029	sabn 134 lcs	5S8658.D	14-May-10	19:26
Matrix Spike - 2029	ms 10050398-001	5S8669.D	15-May-10	2:09
SB-MW-8	10050460-001	5S8666.D	15-May-10	0:19
SB-MW-9	10050460-002	5S8667.D	15-May-10	0:55

Data File : G:\HPChem\5\Data\05142010\5S8649.D
Acq On : 14 May 2010 2:29 pm
Sample : Dftpp tune
Misc :
MS Integration Params: rteint.p
Method : G:\HPChem\5\Methods\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method

Vial: 1
Operator: sdp
Inst : GC/MS-5
Multiplr: 1.00

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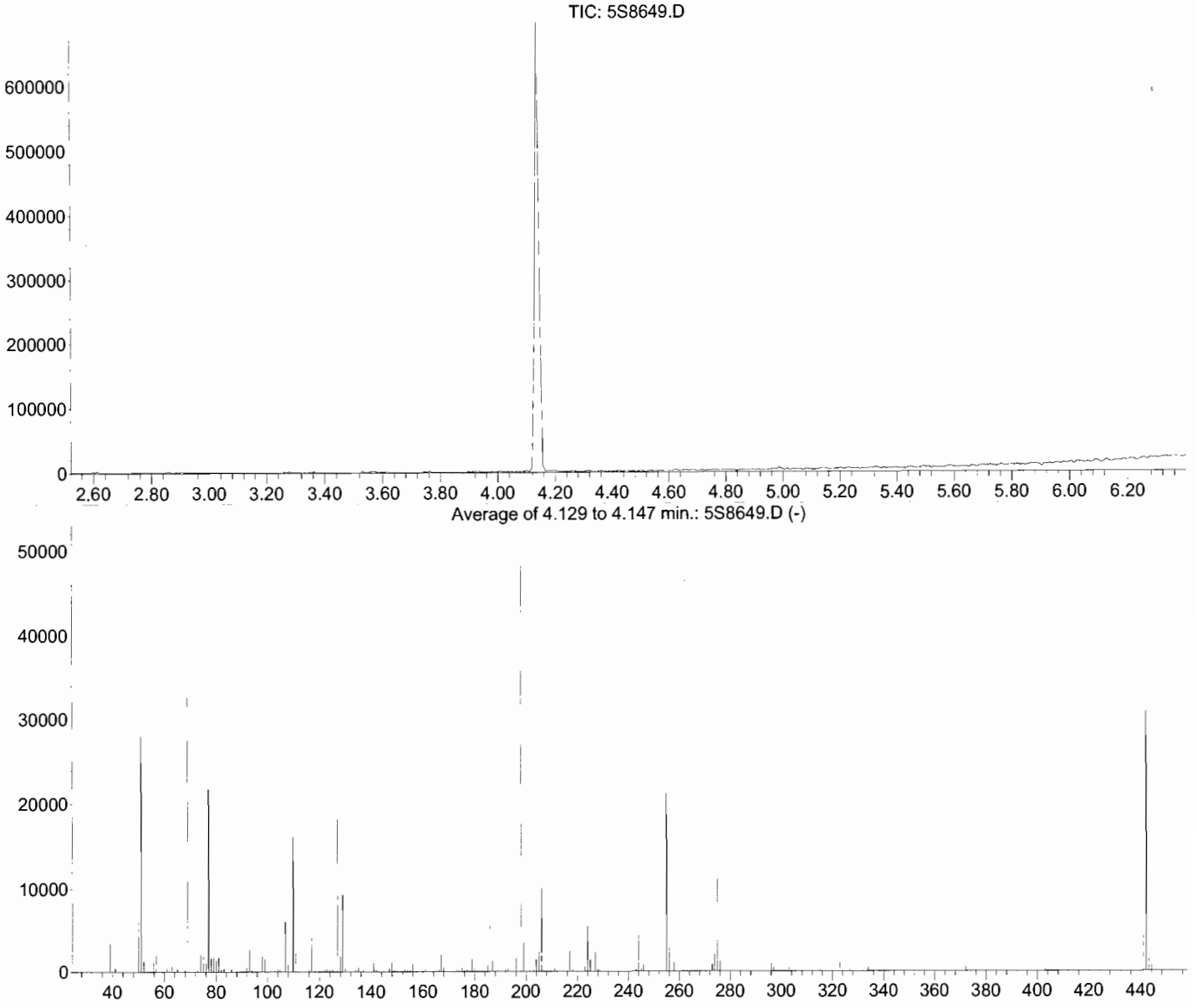
Approved:
17-May-2010 12:10



Spectrum Information: Average of 4.129 to 4.147 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.4	27956	PASS
68	69	0.00	2	0.6	191	PASS
69	198	0.00	100	64.7	32655	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	40.1	20231	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	50480	PASS
199	198	5	9	6.8	3417	PASS
275	198	10	30	22.1	11157	PASS
365	198	1	100	1.7	878	PASS
441	443	0.01	100	72.7	4297	PASS
442	198	40	100	60.8	30692	PASS
443	442	17	23	19.3	5914	PASS

Aqua Pro-Tech Laboratories
Semi-Volatile Organic Initial Calibration

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Calibration Date: 10-May-10
Lab File ID: RRF5: 5S8604.D RRF10: 5S8603.D RRF20: 5S8602.D
RRF50: 5S8601.D RRF60: 5S8600.D RRF80: 5S8599.D

Compound	RRF5	RRF10	RRF20	RRF50	RRF60	RRF80	Avg RRF	% RSD	Cal Type
n-Nitroso-dimethylamine	0.788	0.909	1.00	1.03	1.01	0.990	0.955	**9.61**	Average RRF
Pyridine	1.19	1.24	1.26	1.30	1.24	1.23	1.24	**2.75**	Average RRF
2-Fluorophenol	0.858	0.949	1.11	1.18	1.15	1.15	1.06	**12.2**	Average RRF
Benzaldehyde	0.772	0.947	0.915	0.719	0.598	0.491	0.740	**23.9**	Average RRF
Aniline	2.02	2.14	2.19	2.13	2.05	2.06	2.10	**3.16**	Average RRF
Phenol-d6	1.61	1.76	1.84	1.87	1.84	1.85	1.80	**5.36**	Average RRF
Phenol	1.63	1.73	1.81	1.82	1.82	1.78	1.77	**4.23**	Average RRF
bis(2-Chloroethyl)ether	1.16	1.35	1.33	1.41	1.34	1.31	1.32	**6.39**	Average RRF
2-Chlorophenol	1.28	1.38	1.42	1.42	1.38	1.38	1.38	**3.88**	Average RRF
1,3-Dichlorobenzene	1.61	1.55	1.53	1.56	1.54	1.51	1.55	**2.27**	Average RRF
1,4-Dichlorobenzene	1.52	1.62	1.67	1.61	1.58	1.58	1.60	**3.12**	Average RRF
1,2-Dichlorobenzene	1.54	1.54	1.53	1.52	1.47	1.42	1.50	**3.24**	Average RRF
Benzyl Alcohol	0.522	0.721	0.813	0.911	0.864	0.880	0.785	**18.5**	Average RRF
2-Methylphenol	1.14	1.22	1.32	1.34	1.27	1.33	1.27	**6.42**	Average RRF
bis(2-Chloroisopropyl)ether	4.21	4.55	4.43	4.52	4.39	4.20	4.38	**3.35**	Average RRF
Acetophenone	2.09	2.21	2.20	2.23	2.23	2.17	2.19	**2.44**	Average RRF
n-Nitroso-di-n-propylamine	1.35	1.26	1.34	1.37	1.34	1.30	1.32	**3.05**	Average RRF
3+4-Methylphenol	1.24	1.41	1.42	1.50	1.46	1.49	1.42	**6.77**	Average RRF
Hexachloroethane	0.823	0.851	0.843	0.857	0.862	0.855	0.848	**1.65**	Average RRF
Nitrobenzene-d5	0.348	0.418	0.439	0.463	0.451	0.441	0.427	**9.68**	Average RRF
Nitrobenzene	0.373	0.418	0.421	0.440	0.439	0.415	0.418	**5.83**	Average RRF
Isophorone	0.778	0.848	0.799	0.826	0.822	0.797	0.812	**3.09**	Average RRF
2-Nitrophenol	0.161	0.190	0.206	0.238	0.229	0.236	0.210	**14.5**	Average RRF
2,4-Dimethylphenol	0.386	0.382	0.378	0.400	0.396	0.386	0.388	**2.16**	Average RRF
bis(2-Chloroethoxy)methane	0.445	0.523	0.510	0.511	0.515	0.490	0.499	**5.73**	Average RRF
Benzoic Acid		0.125	0.0800	0.140	0.135	0.240	0.144	**40.7**	Average RRF
2,4-Dichlorophenol	0.276	0.330	0.330	0.345	0.340	0.337	0.326	**7.76**	Average RRF
1,2,4-Trichlorobenzene	0.384	0.378	0.390	0.363	0.376	0.364	0.376	**2.86**	Average RRF
Naphthalene	1.17	1.11	1.08	1.06	1.04	1.00	1.08	**5.40**	Average RRF
4-Chloroaniline	0.463	0.508	0.505	0.497	0.494	0.477	0.491	**3.54**	Average RRF
2,6-Dichlorophenol	0.342	0.351	0.350	0.346	0.346	0.330	0.344	**2.22**	Average RRF
Hexachlorobutadiene	0.250	0.247	0.267	0.261	0.258	0.248	0.255	**3.17**	Average RRF
Caprolactam	0.109	0.127	0.144	0.148	0.147	0.155	0.138	**12.4**	Average RRF
4-Chloro-3-methylphenol	0.343	0.386	0.403	0.441	0.415	0.433	0.404	**8.85**	Average RRF
2-Methylnaphthalene	0.809	0.837	0.779	0.746	0.744	0.698	0.769	**6.51**	Average RRF
Hexachlorocyclopentadiene		0.172	0.218	0.312	0.308	0.352	0.272	**27.4**	Quadratic
2,4,6-Trichlorophenol	0.333	0.369	0.407	0.411	0.406	0.399	0.388	**7.93**	Average RRF
2,4,5-Trichlorophenol	0.341	0.383	0.442	0.448	0.447	0.449	0.418	**10.9**	Average RRF
2-Fluorobiphenyl	1.41	1.36	1.33	1.25	1.26	1.22	1.31	**5.78**	Average RRF
Biphenyl	1.48	1.40	1.38	1.28	1.30	1.18	1.34	**8.10**	Average RRF
2-Chloronaphthalene	1.13	1.09	1.06	0.993	1.00	0.936	1.04	**6.91**	Average RRF
2-Nitroaniline	0.301	0.409	0.468	0.485	0.499	0.498	0.443	**17.4**	Average RRF
Dimethylphthalate	1.32	1.40	1.40	1.36	1.34	1.35	1.36	**2.28**	Average RRF

Aqua Pro-Tech Laboratories
Semi-Volatile Organic Initial Calibration

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Calibration Date: 10-May-10
Lab File ID: RRF5: 5S8604.D RRF10: 5S8603.D RRF20: 5S8602.D
RRF50: 5S8601.D RRF60: 5S8600.D RRF80: 5S8599.D

Compound	RRF5	RRF10	RRF20	RRF50	RRF60	RRF80	Avg RRF	% RSD	Cal Type
2,6-Dinitrotoluene	0.216	0.284	0.322	0.342	0.340	0.356	0.310	**16.9**	Average RRF
Acenaphthylene	1.70	1.70	1.66	1.66	1.64	1.59	1.66	**2.68**	Average RRF
3-Nitroaniline	0.318	0.346	0.392	0.438	0.434	0.440	0.395	**13.3**	Average RRF
Acenaphthene	1.15	1.23	1.18	1.12	1.12	1.06	1.14	**5.19**	Average RRF
2,4-Dinitrophenol		0.0320	0.103	0.196	0.206	0.252	0.158	**56.2**	Quadratic
4-Nitrophenol		0.288	0.342	0.400	0.391	0.397	0.364	**13.3**	Average RRF
Dibenzofuran	1.80	1.81	1.81	1.73	1.71	1.65	1.75	**3.76**	Average RRF
2,4-Dinitrotoluene	0.372	0.448	0.476	0.511	0.514	0.510	0.472	**11.7**	Average RRF
2,3,4,6-Tetrachlorophenol	0.278	0.340	0.391	0.420	0.417	0.424	0.378	**15.4**	Average RRF
Diethylphthalate	1.44	1.59	1.59	1.60	1.59	1.57	1.56	**4.02**	Average RRF
Fluorene	1.34	1.42	1.38	1.40	1.38	1.31	1.37	**3.04**	Average RRF
4-Chlorophenyl phenyl ether	0.677	0.736	0.740	0.687	0.686	0.666	0.699	**4.50**	Average RRF
4-Nitroaniline	0.317	0.416	0.428	0.481	0.475	0.466	0.431	**14.3**	Average RRF
4,6-Dinitro-2-methylphenol		0.0770	0.123	0.168	0.166	0.185	0.144	**30.5**	Quadratic
n-Nitrosodiphenylamine	0.501	0.526	0.503	0.501	0.500	0.491	0.504	**2.33**	Average RRF
1,2-Diphenylhydrazine	0.941	0.978	0.978	0.984	0.993	0.937	0.969	**2.43**	Average RRF
2,4,6-Tribromophenol	0.150	0.176	0.189	0.202	0.197	0.191	0.184	**10.3**	Average RRF
4-Bromophenyl-phenyl ether	0.232	0.254	0.248	0.253	0.257	0.249	0.249	**3.57**	Average RRF
Hexachlorobenzene	0.349	0.336	0.330	0.328	0.323	0.316	0.330	**3.44**	Average RRF
Atrazine	0.196	0.213	0.217	0.213	0.204	0.189	0.205	**5.38**	Average RRF
Pentachlorophenol		0.148	0.110	0.160	0.160	0.188	0.153	**18.5**	Average RRF
Phenanthrene	1.27	1.18	1.13	1.09	1.09	1.05	1.13	**6.96**	Average RRF
Anthracene	1.10	1.14	1.13	1.11	1.10	1.04	1.10	**2.99**	Average RRF
Carbazole	1.12	1.18	1.16	1.15	1.13	1.08	1.14	**3.09**	Average RRF
Di-n-butylphthalate	1.58	1.67	1.68	1.68	1.70	1.52	1.64	**4.35**	Average RRF
Fluoranthene	1.40	1.40	1.41	1.38	1.38	1.29	1.38	**3.21**	Average RRF
Benzidine	0.294	0.301	0.286	0.195	0.129	0.123	0.221	**37.6**	Average RRF
Pyrene	1.09	1.10	1.09	1.11	1.10	1.15	1.11	**2.01**	Average RRF
p-Terphenyl-d14	0.755	0.799	0.787	0.807	0.808	0.824	0.797	**2.98**	Average RRF
Butylbenzylphthalate	0.588	0.619	0.632	0.673	0.663	0.674	0.641	**5.39**	Average RRF
3,3'-Dichlorobenzidine	0.392	0.420	0.418	0.401	0.379	0.370	0.397	**5.12**	Average RRF
Benzo(a)anthracene	1.09	1.07	1.05	1.05	1.05	1.05	1.06	**1.62**	Average RRF
bis(2-Ethylhexyl)phthalate	0.924	0.902	0.902	0.910	0.909	0.896	0.907	**1.07**	Average RRF
Chrysene	1.10	1.08	1.06	1.01	0.996	1.01	1.04	**4.10**	Average RRF
Di-n-octylphthalate	1.70	1.87	1.94	2.05	2.01	1.98	1.92	**6.45**	Average RRF
Benzo(b)fluoranthene	1.31	1.32	1.31	1.28	1.25	1.27	1.29	**2.15**	Average RRF
Benzo(k)fluoranthene	1.29	1.31	1.24	1.30	1.29	1.21	1.27	**3.16**	Average RRF
Benzo(a)pyrene	1.20	1.19	1.20	1.22	1.20	1.21	1.20	**0.900**	Average RRF
Indeno(1,2,3-cd)pyrene	1.38	1.44	1.46	1.50	1.48	1.46	1.46	**2.85**	Average RRF
Dibenzo(a,h)anthracene	1.15	1.20	1.19	1.22	1.20	1.16	1.18	**2.18**	Average RRF
Benzo(g,h,i)perylene	1.17	1.26	1.26	1.30	1.29	1.27	1.26	**3.79**	Average RRF

Average %RSD = 8.17

Aqua Pro-Tech Laboratories
Semi-Volatile Organic Instrument Performance Check (Tune)
DECAFLUOROTRIPHENYLPHOSPHINE(DFTPP)

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID: G:\HPChem\5\Data\05102010\5S8598.D

DFTPP Injection Date: 10-May-10
DFTPP Injection Time: 10:26

m/z	Ion Abundance Criteria	% Relative Abundance
51	30.0 - 60.0% of mass 198	50.4
68	0.00 - 2.00% of mass 69	0.00
69	0.00 - 100% of mass 198	60.3
70	0.00 - 2.00% of mass 69	0.200
127	40.0 - 60.0% of mass 198	40.1
197	0.00 - 1.00% of mass 198	0.00
198	100 - 100% of mass 198	100
199	5.00 - 9.00% of mass 198	6.80
275	10.0 - 30.0% of mass 198	21.5
365	1.00 - 100% of mass 198	2.10
441	0.0100 - 100% of mass 443	73.0
442	40.0 - 100% of mass 198	55.5
443	17.0 - 23.0% of mass 442	20.3

This check applies to the following Samples, MS, MSD, Blanks, and Standards

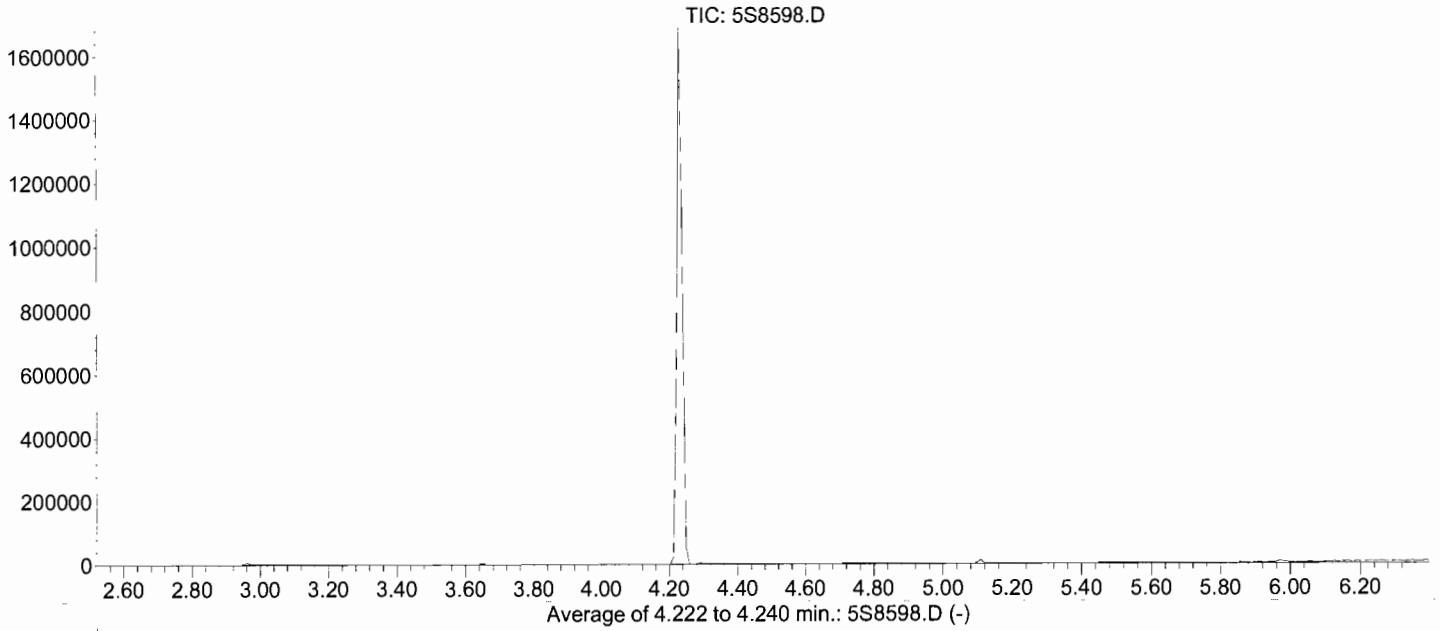
Client Sample	Lab Sample ID	Lab File ID	Date Acquired	Time Acquired
SSTD5	005 ppb ABN ical std	5S8604.D	10-May-10	13:53
SSTD10	010 ppb ABN ical std	5S8603.D	10-May-10	13:12
SSTD20	020 ppb ABN ical std	5S8602.D	10-May-10	12:30
SSTD40	040 ppb ABN ical std	5S8606.D	10-May-10	15:04
SSTD50	050 ppb ABN ical std	5S8601.D	10-May-10	11:54
SSTD60	060 ppb ABN ical std	5S8600.D	10-May-10	11:17
SSTD80	080 ppb ABN ical std	5S8599.D	10-May-10	10:43

Data File : G:\HPChem\5\Data\05102010\5S8598.D
Acq On : 10 May 2010 10:26 am
Sample : Dftpp tune
Misc :
MS Integration Params: rteint.p
Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method

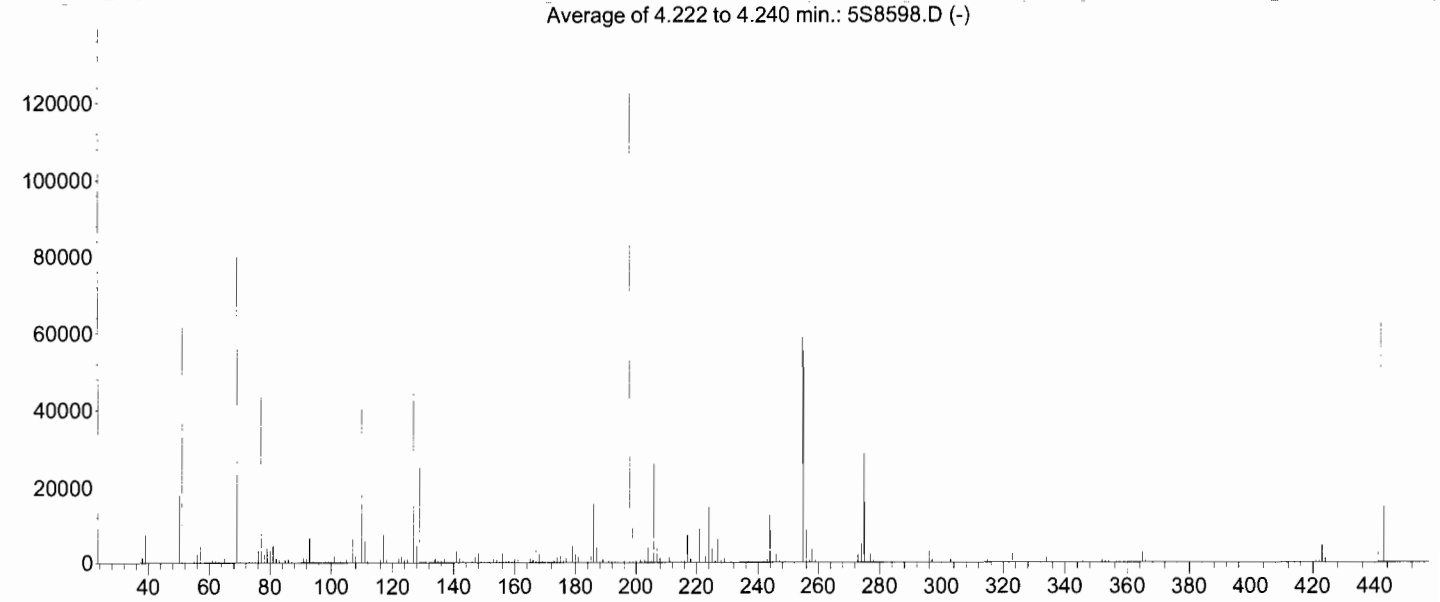
Vial: 1
Operator: sdp
Inst : GC/MS-5
Multiplr: 1.00

93

Approved:
10-May-2010 15:47



Average of 4.222 to 4.240 min.: 5S8598.D (-)



Spectrum Information: Average of 4.222 to 4.240 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.4	66920	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	60.3	79933	PASS
70	69	0.00	2	0.2	178	PASS
127	198	40	60	40.1	53176	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	132656	PASS
199	198	5	9	6.8	9024	PASS
275	198	10	30	21.5	28476	PASS
365	198	1	100	2.1	2764	PASS
441	443	0.01	100	73.0	10894	PASS
442	198	40	100	55.5	73574	PASS
443	442	17	23	20.3	14932	PASS

Aqua Pro-Tech Laboratories
Semi-Volatile Continuing Calibration Check

Continuing Calibration File: G:\HPChem\5\Data\05142010\5S8650.D

* Denotes values outside of method required QC Limits

CAS	Compound	Conc.	QC Limits
105-67-9	2,4-Dimethylphenol	52.2	40.0 - 60.0
86-73-7	Fluorene	48.7	40.0 - 60.0
117-81-7	bis(2-Ethylhexyl)phthalate	50.2	40.0 - 60.0
541-73-1	1,3-Dichlorobenzene	48.7	40.0 - 60.0
88-06-2	2,4,6-Trichlorophenol	52.5	40.0 - 60.0
85-01-8	Phenanthrene	46.3	40.0 - 60.0
191-24-2	Benzo[g,h,i]perylene	51.3	40.0 - 60.0
78-59-1	Isophorone	54.7	40.0 - 60.0
100-02-7	4-Nitrophenol	59.1	40.0 - 60.0
91-94-1	3,3'-Dichlorobenzidine	55.2	40.0 - 60.0
95-57-8	2-Chlorophenol	50.4	40.0 - 60.0
106-46-7	1,4-Dichlorobenzene	48.8	40.0 - 60.0
621-64-7	n-Nitroso-di-n-propylamine	53.9	40.0 - 60.0
98-95-3	Nitrobenzene	55.5	40.0 - 60.0
88-75-5	2-Nitrophenol	56.5	40.0 - 60.0
111-91-1	bis(2-Chloroethoxy)methane	53.4	40.0 - 60.0
120-83-2	2,4-Dichlorophenol	52.4	40.0 - 60.0
91-20-3	Naphthalene	49.3	40.0 - 60.0
59-50-7	4-Chloro-3-methylphenol	55.3	40.0 - 60.0
91-58-7	2-Chloronaphthalene	45.6	40.0 - 60.0
606-20-2	2,6-Dinitrotoluene	57.7	40.0 - 60.0
51-28-5	2,4-Dinitrophenol	58.5	40.0 - 60.0
121-14-2	2,4-Dinitrotoluene	57.1	40.0 - 60.0
84-66-2	Diethylphthalate	52.0	40.0 - 60.0
7005-72-3	4-Chlorophenyl phenyl ether	50.3	40.0 - 60.0
101-55-3	4-Bromophenyl-phenyl ether	50.4	40.0 - 60.0
87-86-5	Pentachlorophenol	58.0	40.0 - 60.0
120-12-7	Anthracene	48.7	40.0 - 60.0
129-00-0	Pyrene	49.7	40.0 - 60.0
56-55-3	Benzo[a]anthracene	51.0	40.0 - 60.0
218-01-9	Chrysene	48.2	40.0 - 60.0
117-84-0	Di-n-octylphthalate	51.1	40.0 - 60.0
205-99-2	Benzo[b]fluoranthene	48.0	40.0 - 60.0
50-32-8	Benzo[a]pyrene	49.6	40.0 - 60.0
53-70-3	Dibenzo[a,h]anthracene	50.0	40.0 - 60.0
95-50-1	1,2-Dichlorobenzene	48.2	40.0 - 60.0
131-11-3	Dimethylphthalate	49.6	40.0 - 60.0
84-74-2	Di-n-butylphthalate	51.7	40.0 - 60.0
111-44-4	bis(2-Chloroethyl)ether	52.4	40.0 - 60.0
67-72-1	Hexachloroethane	50.5	40.0 - 60.0
87-68-3	Hexachlorobutadiene	49.0	40.0 - 60.0
83-32-9	Acenaphthene	48.5	40.0 - 60.0
118-74-1	Hexachlorobenzene	51.0	40.0 - 60.0
85-68-7	Butylbenzylphthalate	53.6	40.0 - 60.0
193-39-5	Indeno(1,2,3-cd)pyrene	50.6	40.0 - 60.0
108-95-2	Phenol	55.1	40.0 - 60.0
120-82-1	1,2,4-Trichlorobenzene	49.6	40.0 - 60.0
534-52-1	4,6-Dinitro-2-methylphenol	56.5	40.0 - 60.0

Aqua Pro-Tech Laboratories
Semi-Volatile Continuing Calibration Check

Continuing Calibration File: G:\HPChem\5\Data\05142010\5S8650.D

* Denotes values outside of method required QC Limits

CAS	Compound	Conc.	QC Limits
207-08-9	Benzo[k]fluoranthene	47.8	40.0 - 60.0
108-60-1	bis(2-Chloroisopropyl)ether	55.7	40.0 - 60.0
208-96-8	Acenaphthylene	49.9	40.0 - 60.0
206-44-0	Fluoranthene	49.0	40.0 - 60.0

Data File : G:\HPChem\5\Data\05142010\5S8650.D Vial: 2
Acq On : 14 May 2010 2:43 pm Operator: sdp
Sample : 050 ppb ABN ccv Inst : GC/MS-5
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 16:49 2010 Quant Results File: 0510ABNS.RES

Quant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration
DataAcq Meth : RUN8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	69622	40.00	ug/kg	-0.02
21) Naphthalene-d8	9.64	136	312698	40.00	ug/kg	-0.02
38) Acenaphthene-d10	13.40	164	239649	40.00	ug/kg	-0.02
60) Phenanthrene-d10	16.57	188	479693	40.00	ug/kg	-0.02
74) Chrysene-d12	20.91	240	622716	40.00	ug/kg	-0.02
83) Perylene-d12	23.40	264	580130	40.00	ug/kg	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	4.34	112	99784	53.86	ug/kg	-0.02
Spiked Amount 100.000	Range 46 - 77		Recovery = 53.86%			
7) Phenol-d6	6.35	99	164869	52.72	ug/kg	-0.02
Spiked Amount 100.000	Range 32 - 60		Recovery = 52.72%			
22) Nitrobenzene-d5	8.13	82	192178	57.62	ug/kg	-0.02
Spiked Amount 50.000	Range 49 - 112		Recovery = 115.24%#			
42) 2-Fluorobiphenyl	12.01	172	365053	46.69	ug/kg	-0.03
Spiked Amount 50.000	Range 45 - 115		Recovery = 93.38%			
64) 2,4,6-Tribromophenol	15.10	330	128441	58.19	ug/kg	-0.03
Spiked Amount 100.000	Range 43 - 126		Recovery = 58.19%			
77) p-Terphenyl-d14	19.49	244	631907	50.95	ug/kg	-0.02
Spiked Amount 50.000	Range 50 - 125		Recovery = 101.90%			
Target Compounds						Qvalue
2) Pyridine	1.99	79	116900	54.10	ug/kg	94
3) n-Nitroso-dimethylamine	1.94	42	95223	57.27	ug/kg	96
5) Benzaldehyde	6.05	77	65926	51.17	ug/kg	97
6) Aniline	6.30	93	197422	54.08	ug/kg	99
8) Phenol	6.38	94	169332	55.10	ug/kg	91
9) bis(2-Chloroethyl)ether	6.49	93	120391	52.44	ug/kg	93
10) 2-Chlorophenol	6.54	128	120989	50.44	ug/kg	93
11) 1,3-Dichlorobenzene	6.84	146	131747	48.77	ug/kg	97
12) 1,4-Dichlorobenzene	7.00	146	135796	48.86	ug/kg	98
13) Benzyl Alcohol	7.32	108	83983	61.46	ug/kg	95
14) 1,2-Dichlorobenzene	7.31	146	126277	48.21	ug/kg	96
15) 2-Methylphenol	7.62	108	116467	52.71	ug/kg	98
16) bis(2-Chloroisopropyl)ethe	7.63	45	425294	55.73	ug/kg	96
17) Acetophenone	7.84	105	200075	52.52	ug/kg	98
18) 3+4-Methylphenol	7.95	108	134373	54.36	ug/kg	99
19) n-Nitroso-di-n-propylamine	7.89	70	124489	53.98	ug/kg	95
20) Hexachloroethane	8.00	117	74574	50.50	ug/kg	99
23) Nitrobenzene	8.17	77	181474	55.58	ug/kg	96
24) Isophorone	8.70	82	347588	54.78	ug/kg	97
25) 2-Nitrophenol	8.86	139	92899	56.57	ug/kg	94
26) 2,4-Dimethylphenol	9.07	107	158492	52.26	ug/kg	98
27) bis(2-Chloroethoxy)methane	9.23	93	208323	53.41	ug/kg	99
28) 2,4-Dichlorophenol	9.40	162	133703	52.42	ug/kg	99
29) Benzoic Acid	9.36	105	73178	65.12	ug/kg	97
30) 1,2,4-Trichlorobenzene	9.55	180	145915	49.66	ug/kg	97
31) Naphthalene	9.68	128	415138	49.38	ug/kg	100
32) 2,6-Dichlorophenol	9.87	162	135741	50.46	ug/kg	98
33) 4-Chloroaniline	9.86	127	200060	52.14	ug/kg	96
34) Hexachlorobutadiene	10.01	225	97922	49.07	ug/kg	98
35) Caprolactam	10.58	113	64404	59.50	ug/kg	89
36) 4-Chloro-3-methylphenol	11.00	107	174509	55.33	ug/kg	94
37) 2-Methylnaphthalene	11.19	142	429940	71.52	ug/kg	98
39) Hexachlorocyclopentadiene	11.55	237	98988	54.39	ug/kg	98
40) 2,4,6-Trichlorophenol	11.84	196	122057	52.58	ug/kg	99
41) 2,4,5-Trichlorophenol	11.91	196	134379	53.64	ug/kg	98
43) Biphenyl	12.20	154	367493	45.88	ug/kg	98

(#) = qualifier out of range (m) = manual integration

ata File : G:\HPChem\5\Data\05142010\5S8650.D Vial: 2
cq On : 14 May 2010 2:43 pm Operator: sdp
mple : 050 ppb ABN ccv Inst : GC/MS-5
sc : Multiplr: 1.00
S Integration Params: rteint.p
Quant Time: May 14 16:49 2010 Quant Results File: 0510ABNS.RES

ant Method : G:\HPCHEM\5\METHODS\0510ABNS.M (RTE Integrator)
itle : BNA by EPA 8270C method
ast Update : Thu May 13 16:55:39 2010
sponse via : Initial Calibration
taAcq Meth : RUN8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2-Chloronaphthalene	12.21	162	283029	45.60	ug/kg	97
45)	2-Nitroaniline	12.47	138	154795	58.27	ug/kg	92
46)	Dimethylphthalate	12.93	163	405418	49.63	ug/kg	97
47)	Acenaphthylene	13.08	152	495877	49.94	ug/kg	99
48)	2,6-Dinitrotoluene	13.03	165	107359	57.79	ug/kg	95
49)	3-Nitroaniline	13.36	138	137505	58.14	ug/kg	95
50)	Acenaphthene	13.46	153	332241	48.50	ug/kg	100
51)	2,4-Dinitrophenol	13.61	184	71558	58.52	ug/kg	98
52)	Dibenzofuran	13.85	168	503165	47.94	ug/kg	99
53)	4-Nitrophenol	13.84	65	128677	59.10	ug/kg	94
54)	2,4-Dinitrotoluene	13.89	165	161517	57.13	ug/kg	98
55)	2,3,4,6-Tetrachlorophenol	14.16	232	129896	57.31	ug/kg	98
56)	Fluorene	14.58	166	400834	48.76	ug/kg	98
57)	Diethylphthalate	14.46	149	487186	52.04	ug/kg	99
58)	4-Chlorophenyl phenyl ethe	14.63	204	210803	50.37	ug/kg	99
59)	4-Nitroaniline	14.67	138	148516	57.59	ug/kg	99
61)	4,6-Dinitro-2-methylphenol	14.77	198	111709	56.54	ug/kg	97
62)	n-Nitrosodiphenylamine	14.89	169	287259	47.55	ug/kg	98
63)	1,2-Diphenylhydrazine	14.97	77	613643	52.83	ug/kg	98
65)	4-Bromophenyl-phenyl ether	15.67	248	150456	50.43	ug/kg	99
66)	Hexachlorobenzene	15.77	284	202274	51.04	ug/kg	98
67)	Atrazine	16.11	200	126736	51.46	ug/kg	94
68)	Pentachlorophenol	16.22	266	106534	58.02	ug/kg	96
69)	Phenanthrene	16.62	178	630744	46.36	ug/kg	99
70)	Anthracene	16.73	178	644413	48.74	ug/kg	100
71)	Carbazole	17.12	167	669882	49.17	ug/kg	99
72)	Di-n-butylphthalate	17.92	149	1017725	51.74	ug/kg	97
73)	Fluoranthene	18.88	202	809547	49.02	ug/kg	99
75)	Benzidine	19.12	184	161948	46.96	ug/kg	99
76)	Pyrene	19.22	202	857962	49.79	ug/kg	100
78)	Butylbenzylphthalate	20.17	149	536075	53.69	ug/kg	99
79)	Benzo(a)anthracene	20.89	228	844148	51.09	ug/kg	100
80)	3,3'-Dichlorobenzidine	20.86	252	341114	55.23	ug/kg	99
81)	Chrysene	20.95	228	781850	48.22	ug/kg	100
82)	bis(2-Ethylhexyl)phthalate	20.93	149	709192	50.22	ug/kg	97
84)	Di-n-octylphthalate	21.89	149	1428482	51.17	ug/kg	100
85)	Benzo(b)fluoranthene	22.64	252	899395	48.06	ug/kg	99
86)	Benzo(k)fluoranthene	22.68	252	882915	47.81	ug/kg	98
87)	Benzo(a)pyrene	23.29	252	865495	49.60	ug/kg	99
88)	Indeno(1,2,3-cd)pyrene	26.09	276	1069339	50.67	ug/kg	98
89)	Dibenzo(a,h)anthracene	26.14	278	859926	50.09	ug/kg	98
90)	Benzo(g,h,i)perylene	26.79	276	937171	51.34	ug/kg	100

(#) = qualifier out of range (m) = manual integration

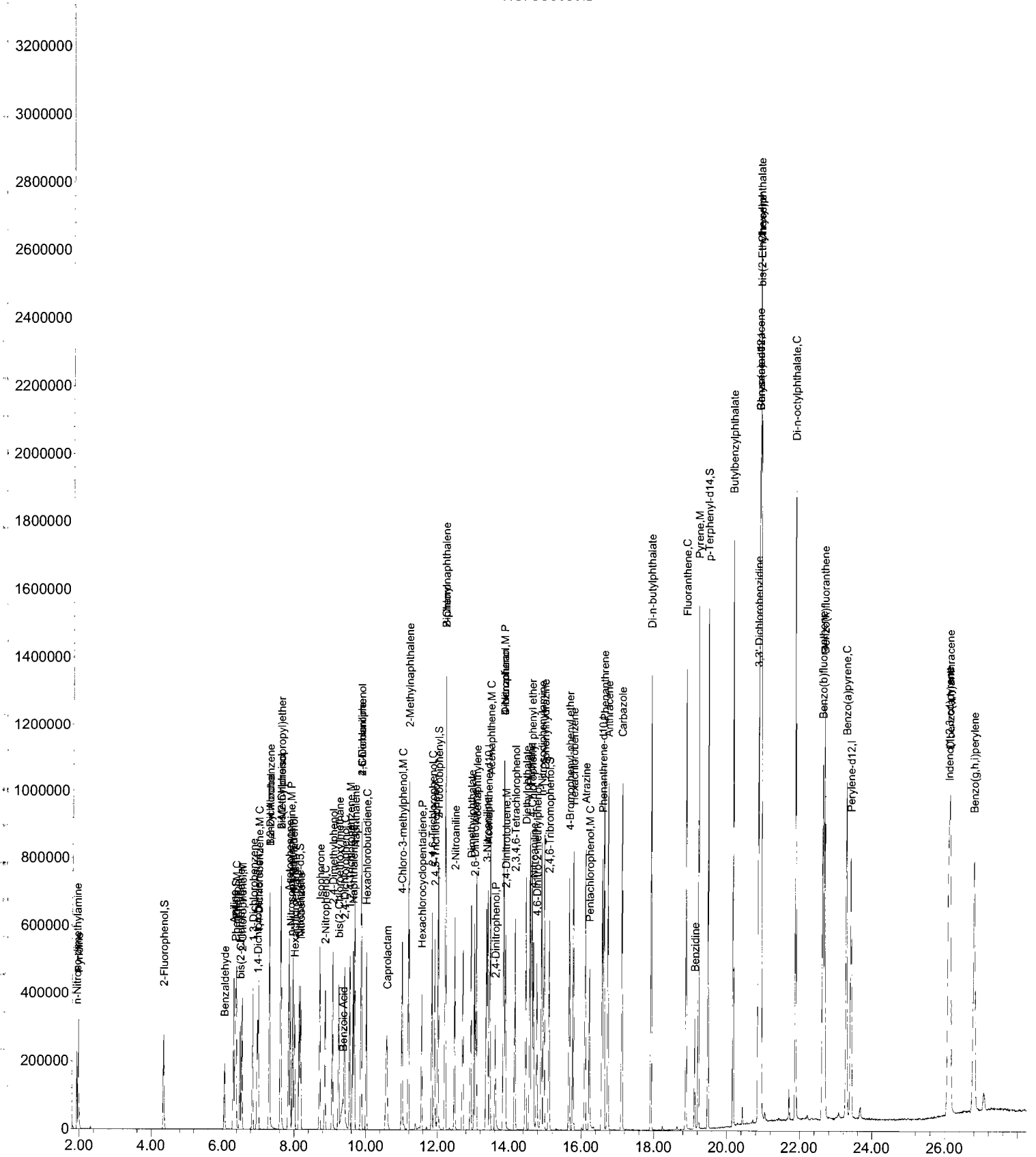
Data File : G:\HPChem\5\Data\05142010\5S8650.D Vial: 2
Acq On : 14 May 2010 2:43 pm Operator: sdp
Sample : 050 ppb ABN ccv Inst : GC/MS-5
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 16:49 2010 Quant Results File: 0510ABNS.RES

98

Method : G:\HPChem\5\Methods\0510ABNS.M (RTE Integrator)
Title : BNA by EPA 8270C method
Last Update : Thu May 13 16:55:39 2010
Response via : Initial Calibration

Approved:
17-May-2010 12:10

TIC: 5S8650.D



Aqua Pro-Tech Laboratories
Semi-Volatile Internal Standard Area and RT Summary

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID (Standard): 5S8650.D

Date Acquired: 14-May-10
Time Acquired: 14:43

IS1= 1,4-Dichlorobenzene-d4
IS2= Naphthalene-d8
IS3= Acenaphthene-d10

Area Upper Limit=+100% of Internal Standard Area
Area Lower Limit=-50% of Internal Standard Area
RT Upper Limit=+0.50 minutes of Internal Standard RT
RT Lower Limit=-0.50 minutes of Internal Standard RT

* Denotes values outside of method required QC limits

	IS1 Area	RT	IS2 Area	RT	IS3 Area	RT
12 Hour Std.	69622	6.97	312698	9.64	239649	13.4
Upper Limit	139244	7.47	625396	10.14	479298	13.9
Lower Limit	34811	6.47	156349	9.14	119824	12.9
Client Sample						
Blank - 2029	50602	6.97	237730	9.63	175606	13.4
SB-MW-8	55266	6.97	251234	9.63	187179	13.4
SB-MW-9	51918	6.96	231893	9.64	173102	13.39

Aqua Pro-Tech Laboratories
Semi-Volatile Internal Standard Area and RT Summary

Client: Brinkerhoff Environmental
Project: Petrocelli Electric
Lab File ID (Standard): 5S8650.D

Date Acquired: 14-May-10
Time Acquired: 14:43

IS4= Phenanthrene-d10
IS5= Chrysene-d12
IS6= Perylene-d12

Area Upper Limit=+100% of Internal Standard Area
Area Lower Limit=-50% of Internal Standard Area
RT Upper Limit=+0.50 minutes of Internal Standard RT
RT Lower Limit=-0.50 minutes of Internal Standard RT

* Denotes values outside of method required QC limits

	IS4 Area	RT	IS5 Area	RT	IS6 Area	RT
12 Hour Std.	479693	16.57	622716	20.91	580130	23.4
Upper Limit	959386	17.07	1245432	21.41	1160260	23.9
Lower Limit	239846	16.07	311358	20.41	290065	22.9
Client Sample						
Blank - 2029	354279	16.57	501266	20.91	494638	23.4
SB-MW-8	377827	16.57	520374	20.91	503650	23.4
SB-MW-9	350595	16.57	491578	20.9	481019	23.4

Brinkerhoff Environmental Services, Inc.

Monitoring Well Sampling Data Form

Location: Petrocelli Electric, 22-09 Queens Bridge Plaza North, Long Island City, New York

Sample Date:	5/26/10	**BES Job # :**	10BR060
Sample ID#:	MW-8	**Sampled By:**	Duane Shinton
Monitoring Well Number:	MW-8	**Casing Type & Diameter:**	Schedule 40 PVC 2 "
Weather Conditions:	Sunny, 88^{0}F	**Monitoring Well Permit #:**	Not Applicable

Readings Prior to Well Purging

Time:	11:00 AM	Product Thickness (ft.):	0.0
pH:	7.98	Depth, top of Inner Casing to Water (ft.):	9.19
Dissolved Oxygen (mg/l):	0.45	Total Depth, Top of Inner Casing (ft.):	14.76
Temp. (°C):	16.6	Length of Screen (ft.):	10.0
Conductivity (mS/cm)	2.05	Volume of Water in Well (gal.):	.91

Readings Subsequent to Purging

pH:	6.99	Pump Start Time:	11:00 AM
Dissolved Oxygen (mg/l):	0.46	Pump End Time:	11:11 AM
Temp. (°C):	15.7	Purge Rate:	0.41 (gal./min.)
Conductivity (mS/cm)	1.89	Volume Purged (gal.):	4.5
		Purge Method:	Submersible pump w/ dedicated poly tubing

Reading Subsequent to Sampling

pH:	6.59	Sampling Method:	Dedicated Teflon bailer
Dissolved Oxygen (mg/l):	0.48	Sample Start Time:	11:35 AM
Temp. (°C):	15.2	Sample End Time:	11:40 AM
Conductivity (mS/cm)	1.91		

Brinkerhoff Environmental Services, Inc.

Monitoring Well Sampling Data Form

Location: Petrocelli Electric, 22-09 Queens Bridge Plaza North, Long Island City, New York

Sample Date:	5/26/10	**BES Job # :**	10BR060
Sample ID#:	MW-9	**Sampled By:**	Duane Shinton
Monitoring Well Number:	MW-9	**Casing Type & Diameter:**	Schedule 40 PVC 2 "
Weather Conditions:	Sunny, 88^{0}F	**Monitoring Well Permit #:**	Not Applicable

Readings Prior to Well Purging

Time:	11:17 AM	Product Thickness (ft.):	0.0
pH:	7.02	Depth, top of Inner Casing to Water (ft.):	9.39
Dissolved Oxygen (mg/l):	0.45	Total Depth, Top of Inner Casing (ft.):	14.68
Temp. (°C):	16.4	Length of Screen (ft.):	10.0
Conductivity (mS/cm)	1.46	Volume of Water in Well (gal.):	.86

Readings Subsequent to Purging

pH:	6.76	Pump Start Time:	11:17 AM
Dissolved Oxygen (mg/l):	0.46	Pump End Time:	11:29 AM
Temp. (°C):	15.6	Purge Rate:	0.33 (gal./min.)
Conductivity (mS/cm)	1.57	Volume Purged (gal.):	4.0
		Purge Method:	Submersible pump w/ dedicated poly tubing

Reading Subsequent to Sampling

pH:	7.24	Sampling Method:	Dedicated Teflon bailer
Dissolved Oxygen (mg/l):	0.46	Sample Start Time:	11:55 AM
Temp. (°C):	15.9	Sample End Time:	12:00 PM
Conductivity (mS/cm)	1.67		

APL

AQUA PRO-TECH LABORATORIES

CERTIFICATIONS

NJ DEP 07010 / NY DOH 11634 / CT PH-0233

US ARMY CORPS (USACE)

ANALYTICAL RESULTS SUMMARY

Client	**Brinkerhoff Environmental** 1913 Atlantic Ave. Manasquan, NJ 08736	**APL Order ID Number**	**10051003**
		Date Sampled	05/26/2010 11:35
		Date Received	05/28/2010 10:52
Contact	Ron Rosenberg	**Matrix**	Groundwater
Project		**Site**	Petrocelli
Report Date	06/09/2010 11:11	**Customer Service Rep.**	

Sample Number/ Parameter	Method	Analysis Time	Analyst	Result	Units	MDL
10051003-001 MW8						
Semivolatile Organics	SW 846 8270C		SUDIP	SA		
Volatile Organics	SW 846 8260B		OLGA	SA		
10051003-002 MW9						
Semivolatile Organics	SW 846 8270C		SUDIP	SA		
Volatile Organics	SW 846 8260B		OLGA	SA		

SA: See attached report

Brian Wood
Laboratory Director

QA

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813
www.aquaprotechlabs.com

CONTAMINATION LEVEL
☐ HIGH ☐ MEDIUM ☑ LOW

CUSTOMER: Brinkerhoff	SEND REPORT TO: Ron Rosenberg
ADDRESS: 1413 Atlantic	ADDRESS: Same
Manasquan, NJ 08736	
PHONE: 732-223-2225	PHONE:
FAX: 732-223-3666	FAX:
PROJECT NAME: Petrocelli	SEND INVOICE TO: Brinkerhoff
PROJECT MGR: Ron Rosenberg	ADDRESS: Same
P.O. NUMBER 10BR060	SAMPLED BY: Duane Shinton

CHAIN OF CUSTODY
PAGE 1 OF 1

TURNAROUND TIME
☑ APL STANDARD In 2 weeks
☐ RUSH turnaround available upon request and lab approval

REPORT FORMAT
☑ RESULTS ONLY · NYASP Cat. A.
☐ NJ DEP REDUCED DELIVERABLES
☐ NJ DEP FULL DELIVERABLES
☐ ELECTRONIC DATA DELIVERY
SRP#
☐ STATE FORMS NEEDED

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE P - POOL L - LAKE

APL LAB ID#	SAMPLE SOURCE: FIELD ID	DATE	TIME	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX	NO. OF BOTTLES	PRESERVATIVE	ANALYSIS REQUESTED
105003-1	mw-8	5-26-10	1135	X		G	4	HCl	VOC - EPA 8260, SVOC EPA 8270
2	mw-9	5-26-10	1155	X		G	4	HCl	↓ ↓

RELINQUISHED BY (Print) Duane Shinton	DATE 5-27-10	RECEIVED BY (Print) WGR	DATE 5-27-10
Signature/Agent of: Brinkerhoff	Time 1015 AM PM	Signature/Agent of:	Time 1615 AM PM
RELINQUISHED BY (Print) WGR	DATE 5-27-10	RECEIVED BY (Print)	DATE 5-27-10
Signature/Agent of:	Time 1900 AM PM	Signature/Agent of:	Time 19:00 AM PM
RELINQUISHED BY (Print)	DATE : :	RECEIVED BY (Print)	DATE : :
Signature/Agent of:	Time : AM PM	Signature/Agent of:	Time : AM PM

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4 °C

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for your sample

Aqua Pro-Tech Laboratories
EPA Method 624 Analytical Report VOLATILE

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW8

Lab Sample ID: 10051003-001
Lab File ID: 7V6342.D
Date Collected: 26-May-10

Date Analyzed: 4-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
75-71-8	Dichlorodifluoromethane		U	0.640	2
74-87-3	Chloromethane		U	0.190	2
75-01-4	Vinyl Chloride		U	0.510	2
74-83-9	Bromomethane		U	0.770	2
75-00-3	Chloroethane		U	1.19	2
75-69-4	Trichlorofluoromethane		U	0.250	2
107-02-8	Acrolein		U	4.71	4
67-64-1	Acetone		U	0.650	5
75-35-4	1,1-Dichloroethene		U	0.200	2
75-65-0	tert-Butyl Alcohol		U	7.18	20
75-09-2	Methylene Chloride		U	0.280	2
75-15-0	Carbon Disulfide		U	0.530	2
107-13-1	Acrylonitrile		U	1.12	4
1634-04-4	Methyl tert-Butyl Ether		U	0.260	2
156-60-5	trans-1,2-Dichloroethene		U	0.330	2
108-05-4	Vinyl Acetate		U	0.270	2
75-34-3	1,1-Dichloroethane		U	0.200	2
78-93-3	2-Butanone		U	0.640	5
594-20-7	2,2-Dichloropropane		U	0.640	2
156-59-2	cis-1,2-Dichloroethene		U	0.270	2
67-66-3	Chloroform		U	0.270	2
74-97-5	Bromochloromethane		U	0.640	2
71-55-6	1,1,1-Trichloroethane		U	0.140	2
563-58-6	1,1-Dichloropropene		U	0.220	2
56-23-5	Carbon Tetrachloride		U	0.380	2
107-06-2	1,2-Dichloroethane		U	0.480	2
71-43-2	Benzene		U	0.240	2
79-01-6	Trichloroethene	0.718		0.390	2
78-87-5	1,2-Dichloropropane		U	0.280	2
75-27-4	Bromodichloromethane		U	0.340	2
74-95-3	Dibromomethane		U	0.690	2
110-75-8	2-Chloroethylvinyl ether		U	2.42	2
108-10-1	4-Methyl-2-Pentanone		U	0.240	2
10061-01-5	cis-1,3-Dichloropropene		U	0.250	2
108-88-3	Toluene		U	0.190	2
10061-02-6	trans-1,3-Dichloropropene		U	0.400	2
591-78-6	2-Hexanone		U	0.420	2
79-00-5	1,1,2-Trichloroethane		U	0.180	2
142-28-9	1,3-Dichloropropane		U	0.220	2

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 624 Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW8

Lab Sample ID: 10051003-001
Lab File ID: 7V6342.D
Date Collected: 26-May-10

Date Analyzed: 4-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
127-18-4	Tetrachloroethene	13.7		0.600	2
124-48-1	Dibromochloromethane		U	0.180	2
106-93-4	1,2-Dibromoethane		U	0.370	2
108-90-7	Chlorobenzene		U	0.180	2
630-20-6	1,1,1,2-Tetrachloroethane		U	0.250	2
1330-20-7	m+p-Xylenes		U	0.360	4
100-41-4	Ethylbenzene		U	0.220	2
95-47-6	o-Xylene		U	0.260	2
100-42-5	Styrene		U	0.200	2
98-82-8	Isopropylbenzene		U	0.250	2
75-25-2	Bromoform		U	1.33	2
79-34-5	1,1,2,2-Tetrachloroethane		U	0.450	2
96-18-4	1,2,3-Trichloropropane		U	0.950	2
108-86-1	Bromobenzene		U	0.400	2
95-49-8	2-Chlorotoluene		U	0.470	2
106-43-4	4-Chlorotoluene		U	0.590	2
541-73-1	1,3-Dichlorobenzene		U	0.320	2
106-46-7	1,4-Dichlorobenzene		U	0.170	2
95-50-1	1,2-Dichlorobenzene		U	0.200	2
96-12-8	1,2-Dibromo-3-chloropropane		U	4.03	2
120-82-1	1,2,4-Trichlorobenzene		U	0.740	2
87-68-3	Hexachlorobutadiene		U	0.770	2
91-20-3	Naphthalene	3.19		0.340	2
87-61-6	1,2,3-Trichlorobenzene		U	0.990	2

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 624 Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW8

Lab Sample ID: 10051003-001
Lab File ID: 7V6342.D
Date Collected: 26-May-10

Date Analyzed: 4-Jun-10
Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT

Number of TICs found: 0
Total Est. Concentration: 0 ug/L

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

Aqua Pro-Tech Laboratories
EPA Method 624 Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW9

Lab Sample ID: 10051003-002
Lab File ID: 7V6388.D
Date Collected: 26-May-10

Date Analyzed: 8-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
75-71-8	Dichlorodifluoromethane		U	0.640	2
74-87-3	Chloromethane		U	0.190	2
75-01-4	Vinyl Chloride		U	0.510	2
74-83-9	Bromomethane		U	0.770	2
75-00-3	Chloroethane		U	1.19	2
75-69-4	Trichlorofluoromethane		U	0.250	2
107-02-8	Acrolein		U	4.71	4
67-64-1	Acetone		U	0.650	5
75-35-4	1,1-Dichloroethene		U	0.200	2
75-65-0	tert-Butyl Alcohol		U	7.18	20
75-09-2	Methylene Chloride		U	0.280	2
75-15-0	Carbon Disulfide		U	0.530	2
107-13-1	Acrylonitrile		U	1.12	4
1634-04-4	Methyl tert-Butyl Ether	5.84		0.260	2
156-60-5	trans-1,2-Dichloroethene		U	0.330	2
108-05-4	Vinyl Acetate		U	0.270	2
75-34-3	1,1-Dichloroethane		U	0.200	2
78-93-3	2-Butanone		U	0.640	5
594-20-7	2,2-Dichloropropane		U	0.640	2
156-59-2	cis-1,2-Dichloroethene		U	0.270	2
67-66-3	Chloroform		U	0.270	2
74-97-5	Bromochloromethane		U	0.640	2
71-55-6	1,1,1-Trichloroethane		U	0.140	2
563-58-6	1,1-Dichloropropene		U	0.220	2
56-23-5	Carbon Tetrachloride		U	0.380	2
107-06-2	1,2-Dichloroethane		U	0.480	2
71-43-2	Benzene		U	0.240	2
79-01-6	Trichloroethene		U	0.390	2
78-87-5	1,2-Dichloropropane		U	0.280	2
75-27-4	Bromodichloromethane		U	0.340	2
74-95-3	Dibromomethane		U	0.690	2
110-75-8	2-Chloroethylvinyl ether		U	2.42	2
108-10-1	4-Methyl-2-Pentanone		U	0.240	2
10061-01-5	cis-1,3-Dichloropropene		U	0.250	2
108-88-3	Toluene		U	0.190	2
10061-02-6	trans-1,3-Dichloropropene		U	0.400	2
591-78-6	2-Hexanone		U	0.420	2
79-00-5	1,1,2-Trichloroethane		U	0.180	2
142-28-9	1,3-Dichloropropane		U	0.220	2

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 624 Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW9

Lab Sample ID: 10051003-002
Lab File ID: 7V6388.D
Date Collected: 26-May-10

Date Analyzed: 8-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
127-18-4	Tetrachloroethene	5.18		0.600	2
124-48-1	Dibromochloromethane		U	0.180	2
106-93-4	1,2-Dibromoethane		U	0.370	2
108-90-7	Chlorobenzene		U	0.180	2
630-20-6	1,1,1,2-Tetrachloroethane		U	0.250	2
100-41-4	Ethylbenzene		U	0.220	2
1330-20-7	m+p-Xylenes		U	0.360	4
95-47-6	o-Xylene		U	0.260	2
100-42-5	Styrene		U	0.200	2
98-82-8	Isopropylbenzene		U	0.250	2
75-25-2	Bromoform		U	1.33	2
79-34-5	1,1,2,2-Tetrachloroethane		U	0.450	2
96-18-4	1,2,3-Trichloropropane		U	0.950	2
108-86-1	Bromobenzene		U	0.400	2
95-49-8	2-Chlorotoluene		U	0.470	2
106-43-4	4-Chlorotoluene		U	0.590	2
541-73-1	1,3-Dichlorobenzene		U	0.320	2
106-46-7	1,4-Dichlorobenzene		U	0.170	2
95-50-1	1,2-Dichlorobenzene		U	0.200	2
96-12-8	1,2-Dibromo-3-chloropropane		U	4.03	2
120-82-1	1,2,4-Trichlorobenzene		U	0.740	2
87-68-3	Hexachlorobutadiene		U	0.770	2
91-20-3	Naphthalene		U	0.340	2
87-61-6	1,2,3-Trichlorobenzene		U	0.990	2

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 624 Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW9

Lab Sample ID: 10051003-002
Lab File ID: 7V6388.D
Date Collected: 26-May-10

Date Analyzed: 8-Jun-10
Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT

Number of TICs found: 0
Total Est. Concentration: 0 ug/L

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW8

Sample Volume 980.0 mL

Extract Volume: 1 mL

Lab Sample ID: 10051003-001
Lab File ID: BM6240.D
Date Collected: 26-May-10
Date Extracted: 1-Jun-10
Date Analyzed: 5-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
62-75-9	n-Nitroso-dimethylamine		U	0.0918	0.102
118-74-1	Hexachlorobenzene		U	0.0204	0.0204
87-86-5	Pentachlorophenol		U	0.0204	0.0204
56-55-3	Benzo(a)anthracene	0.0838		0.0306	0.0204
205-99-2	Benzo(b)fluoranthene	0.0877		0.0408	0.0204
207-08-9	Benzo(k)fluoranthene	0.0673		0.0306	0.0204
50-32-8	Benzo(a)pyrene	0.0786		0.0306	0.0204
193-39-5	Indeno(1,2,3-cd)pyrene	0.0695		0.0306	0.102
53-70-3	Dibenzo(a,h)anthracene		U	0.0510	0.102

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 625 Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW8

Sample Volume 980.0 mL
Extract Volume: 1 mL

Lab Sample ID: 10051003-001
Lab File ID: 9S9707.D
Date Collected: 26-May-10
Date Extracted: 1-Jun-10
Date Analyzed: 2-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
110-86-1	Pyridine		U	4.02	5.1
62-75-9	n-Nitroso-dimethylamine		U	1.09	5.1
100-52-7	Benzaldehyde		U	0.520	5.1
62-53-3	Aniline		U	0.265	5.1
108-95-2	Phenol		U	0.327	5.1
111-44-4	bis(2-Chloroethyl)ether		U	0.714	5.1
95-57-8	2-Chlorophenol		U	0.480	5.1
541-73-1	1,3-Dichlorobenzene		U	0.724	5.1
106-46-7	1,4-Dichlorobenzene		U	0.724	5.1
100-51-6	Benzyl Alcohol		U	0.357	5.1
95-50-1	1,2-Dichlorobenzene		U	0.561	5.1
95-48-7	2-Methylphenol		U	0.306	5.1
108-60-1	bis(2-Chloroisopropyl)ether		U	0.357	5.1
98-86-2	Acetophenone		U	0.286	5.1
1319-77-3	3+4-Methylphenol		U	0.531	5.1
621-64-7	n-Nitroso-di-n-propylamine		U	0.592	5.1
67-72-1	Hexachloroethane		U	0.571	5.1
98-95-3	Nitrobenzene		U	0.561	5.1
78-59-1	Isophorone		U	0.510	5.1
88-75-5	2-Nitrophenol		U	0.633	5.1
105-67-9	2,4-Dimethylphenol		U	0.388	5.1
111-91-1	bis(2-Chloroethoxy)methane		U	0.592	5.1
120-83-2	2,4-Dichlorophenol		U	0.398	5.1
65-85-0	Benzoic Acid		U	8.37	20.4
120-82-1	1,2,4-Trichlorobenzene		U	0.418	5.1
91-20-3	Naphthalene		U	0.122	5.1
87-65-0	2,6-Dichlorophenol		U	0.327	5.1
106-47-8	4-Chloroaniline		U	0.378	5.1
87-68-3	Hexachlorobutadiene		U	0.643	5.1
105-60-2	Caprolactam		U	2.04	5.1
59-50-7	4-Chloro-3-methylphenol		U	0.582	5.1
91-57-6	2-Methylnaphthalene		U	0.235	7.65
77-47-4	Hexachlorocyclopentadiene		U	5.48	20.4
88-06-2	2,4,6-Trichlorophenol		U	0.418	5.1
95-95-4	2,4,5-Trichlorophenol		U	0.551	5.1
92-52-4	Biphenyl		U	0.214	5.1
91-58-7	2-Chloronaphthalene		U	0.418	5.1
88-74-4	2-Nitroaniline		U	0.337	5.1
131-11-3	Dimethylphthalate		U	0.469	5.1

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 625 Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW8

Sample Volume 980.0 mL

Extract Volume: 1 mL

Lab Sample ID: 10051003-001
Lab File ID: 9S9707.D
Date Collected: 26-May-10
Date Extracted: 1-Jun-10
Date Analyzed: 2-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
208-96-8	Acenaphthylene		U	0.286	5.1
606-20-2	2,6-Dinitrotoluene		U	0.653	5.1
99-09-2	3-Nitroaniline		U	0.602	5.1
83-32-9	Acenaphthene		U	0.194	5.1
51-28-5	2,4-Dinitrophenol		U	4.33	20.4
132-64-9	Dibenzofuran		U	0.265	5.1
100-02-7	4-Nitrophenol		U	0.296	10.2
121-14-2	2,4-Dinitrotoluene		U	0.194	5.1
58-90-2	2,3,4,6-Tetrachlorophenol		U	6.64	5.1
86-73-7	Fluorene		U	0.235	5.1
84-66-2	Diethylphthalate		U	2.01	5.1
7005-72-3	4-Chlorophenyl phenyl ether		U	0.551	5.1
100-01-6	4-Nitroaniline		U	1.01	5.1
534-52-1	4,6-Dinitro-2-methylphenol		U	4.38	10.2
86-30-6	n-Nitrosodiphenylamine		U	0.357	5.1
103-33-3	1,2-Diphenylhydrazine		U	0.388	5.1
101-55-3	4-Bromophenyl-phenyl ether		U	0.286	5.1
118-74-1	Hexachlorobenzene		U	0.520	5.1
1912-24-9	Atrazine		U	0.765	5.1
87-86-5	Pentachlorophenol		U	2.53	20.4
85-01-8	Phenanthrene		U	0.367	5.1
120-12-7	Anthracene		U	0.143	5.1
86-74-8	Carbazole		U	0.265	5.1
84-74-2	Di-n-butylphthalate		U	0.194	5.1
206-44-0	Fluoranthene		U	0.194	5.1
92-87-5	Benzidine		U	7.30	10.2
129-00-0	Pyrene		U	0.194	5.1
85-68-7	Butylbenzylphthalate		U	0.469	5.1
56-55-3	Benzo(a)anthracene		U	0.255	5.1
91-94-1	3,3'-Dichlorobenzidine		U	2.72	5.1
218-01-9	Chrysene		U	0.276	5.1
117-81-7	bis(2-Ethylhexyl)phthalate	1.03	B	0.449	5.1
117-84-0	Di-n-octylphthalate		U	0.173	5.1
205-99-2	Benzo(b)fluoranthene		U	0.214	5.1
207-08-9	Benzo(k)fluoranthene		U	0.133	5.1
50-32-8	Benzo(a)pyrene		U	0.429	5.1
193-39-5	Indeno(1,2,3-cd)pyrene		U	0.276	5.1
53-70-3	Dibenzo(a,h)anthracene		U	0.408	5.1
191-24-2	Benzo(g,h,i)perylene		U	0.327	5.1

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
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Aqua Pro-Tech Laboratories
EPA Method 625 Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW8

Sample Volume 980.0 mL

Extract Volume: 1 mL

Lab Sample ID: 10051003-001
Lab File ID: 9S9707.D
Date Collected: 26-May-10
Date Extracted: 1-Jun-10
Date Analyzed: 2-Jun-10
Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT
	unknown	5.61	J	19.23
	unknown	5.41	J	20.28

Number of TICs found: 2
Total Est. Concentration: 11.02 ug/L

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound

Aqua Pro-Tech Laboratories
EPA Method 8270 C Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW9

Sample Volume 950.0 mL
Extract Volume: 1 mL

Lab Sample ID: 10051003-002
Lab File ID: BM6241.D
Date Collected: 26-May-10
Date Extracted: 1-Jun-10
Date Analyzed: 5-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
62-75-9	n-Nitroso-dimethylamine		U	0.0947	0.105
118-74-1	Hexachlorobenzene		U	0.0210	0.021
87-86-5	Pentachlorophenol		U	0.0210	0.021
56-55-3	Benzo(a)anthracene		U	0.0316	0.021
205-99-2	Benzo(b)fluoranthene		U	0.0421	0.021
207-08-9	Benzo(k)fluoranthene		U	0.0316	0.021
50-32-8	Benzo(a)pyrene		U	0.0316	0.021
193-39-5	Indeno(1,2,3-cd)pyrene		U	0.0316	0.105
53-70-3	Dibenzo(a,h)anthracene		U	0.0526	0.105

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 625 Analytical Report SEMI-VOLATILES

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW9

Sample Volume 950.0 mL

Extract Volume: 1 mL

Lab Sample ID: 10051003-002
Lab File ID: 9S9708.D
Date Collected: 26-May-10
Date Extracted: 1-Jun-10
Date Analyzed: 2-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
110-86-1	Pyridine		U	4.15	5.26
62-75-9	n-Nitroso-dimethylamine		U	1.13	5.26
100-52-7	Benzaldehyde		U	0.537	5.26
62-53-3	Aniline		U	0.274	5.26
108-95-2	Phenol		U	0.337	5.26
111-44-4	bis(2-Chloroethyl)ether		U	0.737	5.26
95-57-8	2-Chlorophenol		U	0.495	5.26
541-73-1	1,3-Dichlorobenzene		U	0.747	5.26
106-46-7	1,4-Dichlorobenzene		U	0.747	5.26
100-51-6	Benzyl Alcohol		U	0.368	5.26
95-50-1	1,2-Dichlorobenzene		U	0.579	5.26
95-48-7	2-Methylphenol		U	0.316	5.26
108-60-1	bis(2-Chloroisopropyl)ether		U	0.368	5.26
98-86-2	Acetophenone		U	0.295	5.26
1319-77-3	3+4-Methylphenol		U	0.547	5.26
621-64-7	n-Nitroso-di-n-propylamine		U	0.611	5.26
67-72-1	Hexachloroethane		U	0.589	5.26
98-95-3	Nitrobenzene		U	0.579	5.26
78-59-1	Isophorone		U	0.526	5.26
88-75-5	2-Nitrophenol		U	0.653	5.26
105-67-9	2,4-Dimethylphenol		U	0.400	5.26
111-91-1	bis(2-Chloroethoxy)methane		U	0.611	5.26
120-83-2	2,4-Dichlorophenol		U	0.411	5.26
65-85-0	Benzoic Acid		U	8.63	21.1
120-82-1	1,2,4-Trichlorobenzene		U	0.432	5.26
91-20-3	Naphthalene		U	0.126	5.26
87-65-0	2,6-Dichlorophenol		U	0.337	5.26
106-47-8	4-Chloroaniline		U	0.389	5.26
87-68-3	Hexachlorobutadiene		U	0.663	5.26
105-60-2	Caprolactam		U	2.11	5.26
59-50-7	4-Chloro-3-methylphenol		U	0.600	5.26
91-57-6	2-Methylnaphthalene		U	0.242	7.89
77-47-4	Hexachlorocyclopentadiene		U	5.65	21.1
88-06-2	2,4,6-Trichlorophenol		U	0.432	5.26
95-95-4	2,4,5-Trichlorophenol		U	0.568	5.26
92-52-4	Biphenyl		U	0.221	5.26
91-58-7	2-Chloronaphthalene		U	0.432	5.26
88-74-4	2-Nitroaniline		U	0.347	5.26
131-11-3	Dimethylphthalate		U	0.484	5.26

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 625 Analytical Report

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW9

Sample Volume 950.0 mL

Extract Volume: 1 mL

Lab Sample ID: 10051003-002
Lab File ID: 9S9708.D
Date Collected: 26-May-10
Date Extracted: 1-Jun-10
Date Analyzed: 2-Jun-10
Dilution Factor: 1

CAS No.	Compound	Conc ug/L	Q	MDL	PQL
208-96-8	Acenaphthylene		U	0.295	5.26
606-20-2	2,6-Dinitrotoluene		U	0.674	5.26
99-09-2	3-Nitroaniline		U	0.621	5.26
83-32-9	Acenaphthene		U	0.200	5.26
51-28-5	2,4-Dinitrophenol		U	4.46	21.1
132-64-9	Dibenzofuran		U	0.274	5.26
100-02-7	4-Nitrophenol		U	0.305	10.5
121-14-2	2,4-Dinitrotoluene		U	0.200	5.26
58-90-2	2,3,4,6-Tetrachlorophenol		U	6.85	5.26
86-73-7	Fluorene		U	0.242	5.26
84-66-2	Diethylphthalate		U	2.07	5.26
7005-72-3	4-Chlorophenyl phenyl ether		U	0.568	5.26
100-01-6	4-Nitroaniline		U	1.04	5.26
534-52-1	4,6-Dinitro-2-methylphenol		U	4.52	10.5
86-30-6	n-Nitrosodiphenylamine		U	0.368	5.26
103-33-3	1,2-Diphenylhydrazine		U	0.400	5.26
101-55-3	4-Bromophenyl-phenyl ether		U	0.295	5.26
118-74-1	Hexachlorobenzene		U	0.537	5.26
1912-24-9	Atrazine		U	0.789	5.26
87-86-5	Pentachlorophenol		U	2.61	21.1
85-01-8	Phenanthrene		U	0.379	5.26
120-12-7	Anthracene		U	0.147	5.26
86-74-8	Carbazole		U	0.274	5.26
84-74-2	Di-n-butylphthalate		U	0.200	5.26
206-44-0	Fluoranthene		U	0.200	5.26
92-87-5	Benzidine		U	7.53	10.5
129-00-0	Pyrene		U	0.200	5.26
85-68-7	Butylbenzylphthalate		U	0.484	5.26
56-55-3	Benzo(a)anthracene		U	0.263	5.26
91-94-1	3,3'-Dichlorobenzidine		U	2.81	5.26
218-01-9	Chrysene		U	0.284	5.26
117-81-7	bis(2-Ethylhexyl)phthalate		U	0.463	5.26
117-84-0	Di-n-octylphthalate		U	0.179	5.26
205-99-2	Benzo(b)fluoranthene		U	0.221	5.26
207-08-9	Benzo(k)fluoranthene		U	0.137	5.26
50-32-8	Benzo(a)pyrene		U	0.442	5.26
193-39-5	Indeno(1,2,3-cd)pyrene		U	0.284	5.26
53-70-3	Dibenzo(a,h)anthracene		U	0.421	5.26
191-24-2	Benzo(g,h,i)perylene		U	0.337	5.26

Qualifiers : U=Undetected, J=Estimated, B=Also Detected in Blank,
E=Exceeded Calibration - Dilution Required, D=Result of Dilution

Aqua Pro-Tech Laboratories
EPA Method 625 Analytical Report
Tentatively Identified Compounds

Client: Brinkerhoff Environmental
Project: Petrocelli
Matrix: Groundwater

Client Sample: MW9

Sample Volume 950.0 mL

Extract Volume: 1 mL

Lab Sample ID: 10051003-002
Lab File ID: 9S9708.D
Date Collected: 26-May-10
Date Extracted: 1-Jun-10
Date Analyzed: 2-Jun-10
Dilution Factor: 1

CAS No.	Compound	Est. Conc.	Q	RT
	unknown	5.14	J	19.22
	unknown	4.94	J	20.27

Number of TICs found: 2
Total Est. Concentration: 10.08 ug/L

Qualifiers : J=Estimated Concentration, N=Used When Reporting a Specific Tentatively Identified Compound