SEVERN TRENT STL

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ANALYTICAL REPORT

QUANTA RESOURCES (EDGEWATER)

Lot #: A6J260219

Amy Klopper

CH2M Hill Constructors Inc
3011 SW Williston RD.
Gainesville, FL 32608

SEVERN TRENT LABORATORIES, INC.

Patrick J. O'Meara
Project Manager

November 12, 2006

350644

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CASE NARRATIVE

CASE NARRATIVE

A6J260219

The following report contains the analytical results for five water samples submitted to STL North Canton by CH2M Hill Constructors, Inc. from the Quanta Resources (Edgewater) Site. The samples were received October 26, 2006, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Patrick J. O'Meara, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.2°C.

GENERAL CHEMISTRY

The sample(s) had elevated reporting limits due to matrix interferences. Refer to the sample report pages for the affected analyte(s) flagged with "G".

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)
-

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Utah (#QUAN9), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A6J260219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-N-1-102506 10/25/06 10:35 001				
Arsenic (III)	1830000	269000	ug/L	SW846 7063
MW-N-2-102506 10/25/06 10:40 002				
Arsenic (III)	24300	3200	ug/L	SW846 7063
MW-0-102506 10/25/06 10:20 003				
Arsenic (III)	23.9	8.0	ug/L	SW846 7063
DUP-102506-GW 10/25/06 004				
Arsenic (III)	23.5	8.0	ug/L	SW846 7063

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A6J260219

PARAMETER	ANALYTICAL METHOD
Arsenic (III) Speciation by ASV	SW846 7063
Arsenic (V) Speciation by ASV	SW846 7063

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A6J260219

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JHAW1	001	MW-N-1-102506	10/25/06	10:35
JHAXV	002	MW-N-2-102506	10/25/06	10:40
JHAX3	003	MW-0-102506	10/25/06	10:20
JHA0A	004	DUP-102506-GW	10/25/06	
JHA0M	005	EB-102506-GW	10/25/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING
AND
RECEIVING DOCUMENTS

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720
330 497 9396

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 39010.55822
COC#: 30916-XXXXX GW-STL

Privileged & Confidential		Site Name:	Quanta Resources (Edgewater)
Sampling Co.:	CH2M HILL	EDD To:	john.mitchell@ch2m.com, amy.klopper@ch2m.com
Client Contact: (name, co., address)		Sampler:	
Jennifer Simms		PO #	
1700 Market Street, Suite 1600		Analysis Turnaround Time (TAT):	
Philadelphia, PA 19103		Consultant	CH2M
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608	Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com		

Location of Site:	Edgewater, NJ	Phase:
Sampling Program	Quanta 2006 OU1 SI	Lab Proj # (SDG):
Lab ID	STL-NCANT	Site ID: Quanta
Lab Job #		Authorized User: Honeywell
Text & Excel File Drive	Excel & Text File Order	

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite (Y/N)	Field Filtered Sample ?	SW7063 - Arsenic Speciation	Sampling Method (code)	Lab Sample Numbers
	Sample Identification										Units				
1	MW-N-1	6.95	7.35	MW-N-1-102506	10/25/06	10:35	REG	GW	—	1	X	—	X		
2	MW-N-1	6.95	7.35	MW-N-1-102506	10/25/06	10:35	MS	GW	—	1	X	—	X		
3	MW-N-1	6.95	7.35	MW-N-1-102506	10/25/06	10:35	MSD	GW	—	1	X	—	X		
4	MW-N-2	5.08	5.92	MW-N-2-102506	10/25/06	10:40	REG	GW	—	1	X	—	X		
5	MW-O	12.00	12.50	MW-O-102506	10/25/06	10:20	REG	GW	—	1	X	—	X		
6	DUP	N/A	N/A	DUP-102506-GW	10/25/06	N/A	DUP	GW	—	1	X	—	X		
7	EB	N/A	N/A	EB-102506-GW	10/25/06	—	EB	GW	—	1	X	—	X		
8															
9															
10															
11															
12															

Relinquished by	Company: CH2M HILL	Received by	Company: STL NC	Condition		Custody Seals Intact	
Kimberly Stotts	Date/Time: 10/25/06 4:00pm		Date/Time: 10-26-06 0915	Cooler Temp.			
Relinquished by	Company	Received by	Company	Condition		Custody Seals Intact	
	Date/Time		Date/Time	Cooler Temp.			

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (H[illegible] (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

STL Cooler Receipt Form/Narrative — Lot Number: ATJ260219

North Canton Facility

Client: Honeywell — Project: _____ — Quote#: 7914

Cooler Received on: 10-26-06 — Opened on: 10-26-06 — by: _____ (Signature)

Fedx ☒ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ STL Courier ☐

Stetson ☐ US Cargo ☐ Other: _____

STL Cooler No# L397 — Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler? Yes ☒ No ☐ — Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 1
   Were the custody seals signed and dated? Yes ☒ No ☐ NA ☐
2. Shipper's packing slip attached to this form? Yes ☒ No ☐ NA ☐
3. Did custody papers accompany the samples? Yes ☒ No ☐ — Relinquished by client? Yes ☒ No ☐
4. Did you sign the custody papers in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other : _____
6. Cooler temperature upon receipt 3.2 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H_20 Slurry ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels and/or tags be reconciled with the COC? Yes ☒ No ☐
9. Were samples at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottles used for the tests indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a Trip Blank present in the cooler? Yes ☐ No ☒ — Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: _____

√	

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot #* 122805-*HNO3; Sulfuric Acid Lot #* 071805-*H2SO4; Sodium Hydroxide Lot #* -100405 - *NaOH; Hydrochloric Acid Lot #* 100504-*HCl; Sodium Hydroxide and Zinc Acetate Lot #* 071604-*CH3COO2ZN/NaOH*

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials
MW-N-1	<2 <2 <2	10-26-06	NS
1-N-2	<2	〃	〃
1-O	<2	〃	〃
Dup	<2	〃	〃

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
EB	12	10.26.06	NS

Cooler	Temp	Method	Coolant

Discrepancies Cont.

GENERAL CHEMISTRY DATA

SAMPLE DATA

CH2M Hill Constructors, Inc.

Client Sample ID: MW-N-1-102506

General Chemistry

Lot-Sample #...: A6J260219-001 **Work Order #...:** JHAW1 **Matrix.....:** WG
Date Sampled...: 10/25/06 10:35 **Date Received..:** 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)	**1830000**	**269000**	**ug/L**	**SW846 7063**	**11/08/06**	**6313457**
	Dilution Factor: 134400					
Arsenic (V)	ND G	269000	ug/L	SW846 7063	11/09/06	6313459
	Dilution Factor: 134400					

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

CH2M Hill Constructors, Inc.

Client Sample ID: MW-N-2-102506

General Chemistry

Lot-Sample #...: A6J260219-002 **Work Order #...:** JHAXV **Matrix.....:** WG
Date Sampled...: 10/25/06 10:40 **Date Received..:** 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)	**24300**	**3200**	**ug/L**	**SW846 7063**	**11/08/06**	**6313457**
		Dilution Factor: 1600				
Arsenic (V)	ND G	16800	ug/L	SW846 7063	11/09/06	6313459
		Dilution Factor: 8400				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

CH2M Hill Constructors, Inc.

Client Sample ID: MW-0-102506

General Chemistry

Lot-Sample #...: A6J260219-003 **Work Order #...:** JHAX3 **Matrix.....:** WG
Date Sampled...: 10/25/06 10:20 **Date Received..:** 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)	**23.9**	**8.0**	**ug/L**	**SW846 7063**	**11/09/06**	**6313458**
		Dilution Factor: 4				
Arsenic (V)	ND G	8.0	ug/L	SW846 7063	11/09/06	6313459
		Dilution Factor: 4				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

CH2M Hill Constructors, Inc.

Client Sample ID: DUP-102506-GW

General Chemistry

Lot-Sample #...: A6J260219-004 **Work Order #...:** JHA0A **Matrix.....:** WG
Date Sampled...: 10/25/06 **Date Received..:** 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)	**23.5**	**8.0**	**ug/L**	**SW846 7063**	**11/09/06**	**6313458**
		Dilution Factor: 4				
Arsenic (V)	ND G	8.0	ug/L	SW846 7063	11/09/06	6313459
		Dilution Factor: 4				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

CH2M Hill Constructors, Inc.

Client Sample ID: EB-102506-GW

General Chemistry

Lot-Sample #...: A6J260219-005 **Work Order #...:** JHA0M **Matrix.....:** WQ
Date Sampled...: 10/25/06 **Date Received..:** 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)	ND	2.0	ug/L	SW846 7063	11/09/06	6313458
		Dilution Factor: 1				
Arsenic (V)	ND	2.0	ug/L	SW846 7063	11/09/06	6313459
		Dilution Factor: 1				

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A6J260219 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)		Work Order #: JJC2W1AA		MB Lot-Sample #:	A6K090000-457	
	ND	2.0	ug/L	SW846 7063	11/08/06	6313457
		Dilution Factor: 1				
Arsenic (III)		Work Order #: JJC211AA		MB Lot-Sample #:	A6K090000-458	
	ND	2.0	ug/L	SW846 7063	11/09/06	6313458
		Dilution Factor: 1				
Arsenic (V)		Work Order #: JJC251AA		MB Lot-Sample #:	A6K090000-459	
	ND	2.0	ug/L	SW846 7063	11/09/06	6313459
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A6J260219 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)		WO#:JJC2W1AC-LCS/JJC2W1AD-LCSD				LCS Lot-Sample#: A6K090000-457	
	100	(25 - 130)			SW846 7063	11/08/06	6313457
	109	(25 - 130)	8.6	(0-50)	SW846 7063	11/08/06	6313457
		Dilution Factor: 1					
Arsenic (III)		WO#:JJC211AC-LCS/JJC211AD-LCSD				LCS Lot-Sample#: A6K090000-458	
	111	(25 - 130)			SW846 7063	11/09/06	6313458
	70	(25 - 130)	45	(0-50)	SW846 7063	11/09/06	6313458
		Dilution Factor: 1					
Arsenic (V)		WO#:JJC251AC-LCS/JJC251AD-LCSD				LCS Lot-Sample#: A6K090000-459	
	66	(25 - 130)			SW846 7063	11/09/06	6313459
	62	(25 - 130)	7.0	(0-50)	SW846 7063	11/09/06	6313459
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: A6J260219 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)		WO#:JJC2W1AC-LCS/JJC2W1AD-LCSD		LCS Lot-Sample#: A6K090000-457				
	20.0	20.0	ug/L	100		SW846 7063	11/08/06	6313457
	20.0	21.8	ug/L	109	8.6	SW846 7063	11/08/06	6313457
		Dilution Factor: 1						
Arsenic (III)		WO#:JJC211AC-LCS/JJC211AD-LCSD		LCS Lot-Sample#: A6K090000-458				
	20.0	22.2	ug/L	111		SW846 7063	11/09/06	6313458
	20.0	14.0	ug/L	70	45	SW846 7063	11/09/06	6313458
		Dilution Factor: 1						
Arsenic (V)		WO#:JJC251AC-LCS/JJC251AD-LCSD		LCS Lot-Sample#: A6K090000-459				
	20.0	13.2	ug/L	66		SW846 7063	11/09/06	6313459
	20.0	12.3	ug/L	62	7.0	SW846 7063	11/09/06	6313459
		Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A6J260219 **Matrix.....:** WG
Date Sampled...: 10/25/06 10:35 **Date Received..:** 10/26/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)		WO#: JHAW11AC-MS/JHAW11AD-MS				MS Lot-Sample #: A6J260219-001	
	NC	(25 - 130)			SW846 7063	11/08/06	6313457
	NC	(25 - 130)		(0-50)	SW846 7063	11/08/06	6313457
		Dilution Factor: 1					
Arsenic (V)		WO#: JHAW11AF-MS/JHAW11AG-MS				MS Lot-Sample #: A6J260219-001	
	NC	(25 - 130)			SW846 7063	11/09/06	6313459
	NC	(25 - 130)		(0-50)	SW846 7063	11/09/06	6313459
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A6J260219 **Matrix.....:** WG
Date Sampled...: 10/25/06 10:35 **Date Received..:** 10/26/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic (III)			WO#: JHAW11AC-MS/JHAW11AD-MSD				MS Lot-Sample #: A6J260219-001		
	1830000	84000	2240000	ug/L			SW846 7063	11/08/06	6313457
			Qualifiers: NC						
	1830000	84000	2400000	ug/L			SW846 7063	11/08/06	6313457
			Qualifiers: NC						
			Dilution Factor: 1						
Arsenic (V)			WO#: JHAW11AF-MS/JHAW11AG-MSD				MS Lot-Sample #: A6J260219-001		
	ND	84000	2590000	ug/L			SW846 7063	11/09/06	6313459
			Qualifiers: NC						
	ND	84000	605000	ug/L			SW846 7063	11/09/06	6313459
			Qualifiers: NC						
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

SUPPORTIVE RAW DATA

STL North Canton Arsenic (III) Data Review Checklist

Run/Project Information

Run Date: 11/8/04 Analyst: MFG Instrument:

Prep Batches Run: 631357

Methods used: 7063 mod : NC-WC-000X Rev 1

Review Items

A. Instrument Setup	Yes	No	N/A	2ndLevel
1. Electrode sensitivity check?	X			✓
2. MSA working standard and verification standard within control limits?	X			✓
3. Cleanliness check (ICB) within +/- RL?	X			✓
B. Sample Results				
1. Were non-detect samples verified with single point MSA?	X			✓
2. All samples with As(III) quantified with 3-4 point MSA?	X			✓
3. Sample analyses done within holding time?	X			✓
C. Preparation/Matrix QC				
1. Samples preserved in the field?	X			✓
2. LCS done per prep batch and within QC limits?	X			✓
3. Method blank done per prep batch and < RL?	X			✓
4. MS run at required frequency (1 per 20 samples) and within limits?	X			✓
5. MSD or DU run at required frequency (1 per 20 samples) and RPD within limits?	X			✓
D. Other				
1. Are all nonconformances documented appropriately?			X	NA
2. Current MDL data on file?	X			✓
3. Calculations and Transcriptions checked for error?	X			✓
4. All client/ project specific requirements met?	X			✓
5. Date of analysis verified as correct?	X			✓

Analyst: Melissa A. Fuller-Chrisfield Date: 11/9/04

Comments:

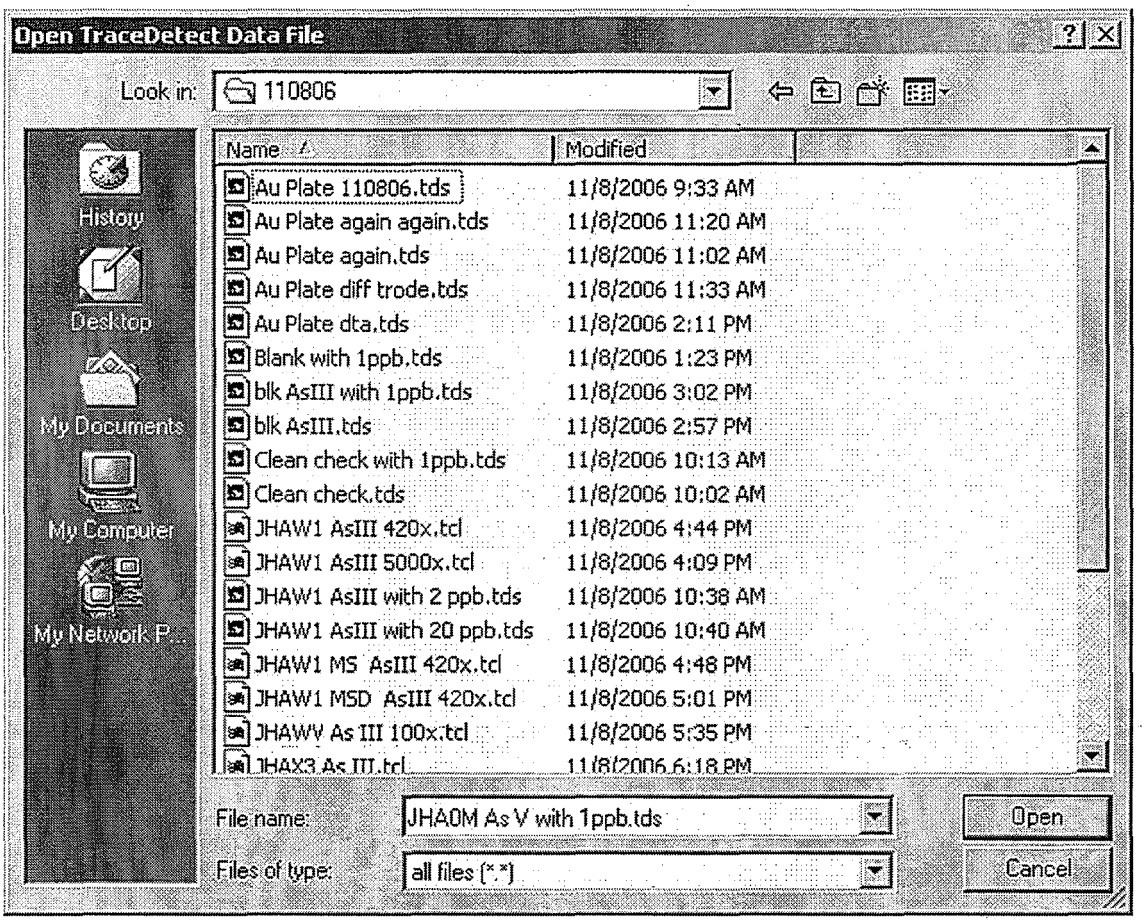
2nd Level Reviewer : Lee Hyland Date: 11/9/04

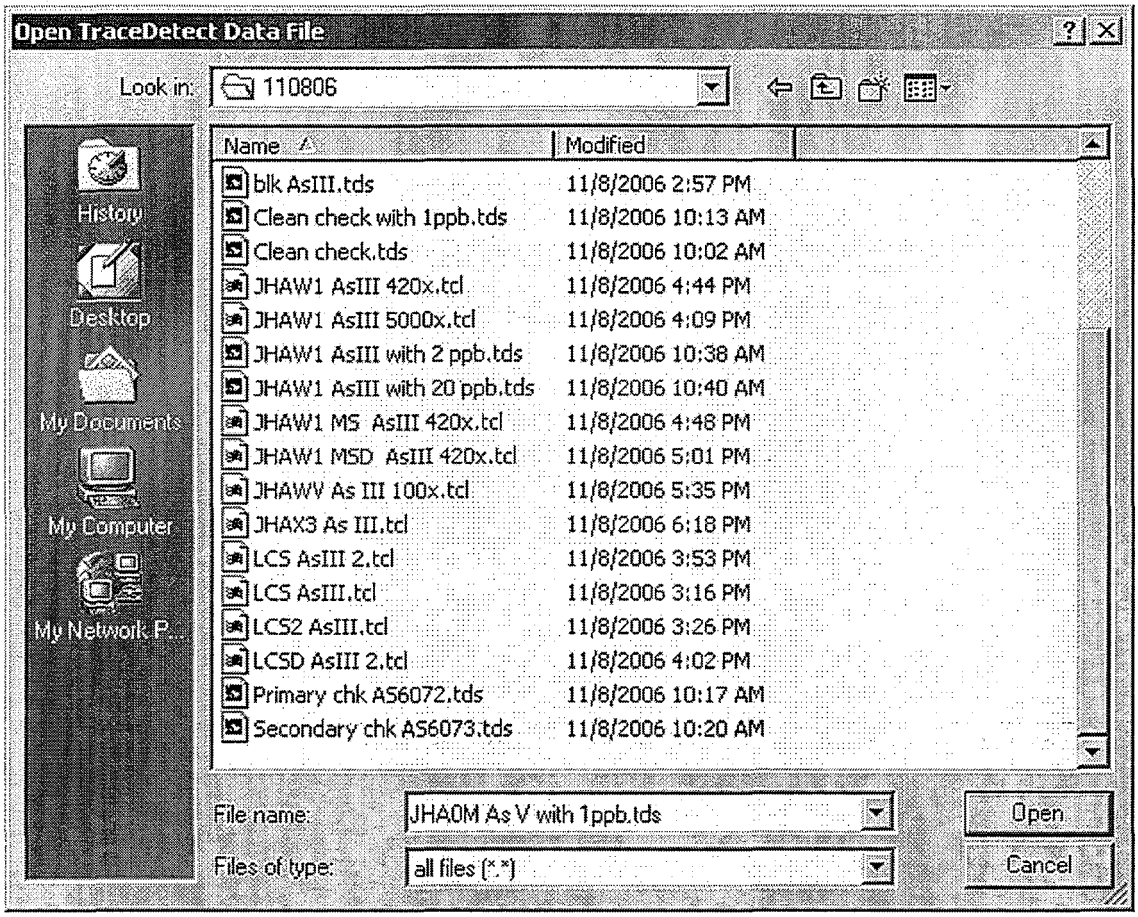
Standard, Reagent and Supply Numbers

MSA Working Std 1510728 MSA Verification Std 1510723 MS As(V) Std ——

Au plate soln 102612 conc HCl 102003 Cu Remover —— C18 ——

Acid ext —— Basic ext ——


Open TraceDetect Data File
Look in: 110806
History
Desktop
My Documents
My Computer
My Network P...
Name
Modified
Au Plate 110806.tds 11/8/2006 9:33 AM
Au Plate again again.tds 11/8/2006 11:20 AM
Au Plate again.tds 11/8/2006 11:02 AM
Au Plate diff trode.tds 11/8/2006 11:33 AM
Au Plate dta.tds 11/8/2006 2:11 PM
Blank with 1ppb.tds 11/8/2006 1:23 PM
blk AsIII with 1ppb.tds 11/8/2006 3:02 PM
blk AsIII.tds 11/8/2006 2:57 PM
Clean check with 1ppb.tds 11/8/2006 10:13 AM
Clean check.tds 11/8/2006 10:02 AM
JHAW1 AsIII 420x.tcl 11/8/2006 4:44 PM
JHAW1 AsIII 5000x.tcl 11/8/2006 4:09 PM
JHAW1 AsIII with 2 ppb.tds 11/8/2006 10:38 AM
JHAW1 AsIII with 20 ppb.tds 11/8/2006 10:40 AM
JHAW1 MS AsIII 420x.tcl 11/8/2006 4:48 PM
JHAW1 MSD AsIII 420x.tcl 11/8/2006 5:01 PM
JHAW As III 100x.tcl 11/8/2006 5:35 PM
JHAX3 As III.tcl 11/8/2006 6:18 PM
File name: JHA0M As V with 1ppb.tds
Files of type: all files (*.*)
Open
Cancel


Open TraceDetect Data File
Look in:
110806
History
Desktop
My Documents
My Computer
My Network P...
Name
Modified
blk AsIII.tds 11/8/2006 2:57 PM
Clean check with 1ppb.tds 11/8/2006 10:13 AM
Clean check.tds 11/8/2006 10:02 AM
JHAW1 AsIII 420x.tcl 11/8/2006 4:44 PM
JHAW1 AsIII 5000x.tcl 11/8/2006 4:09 PM
JHAW1 AsIII with 2 ppb.tds 11/8/2006 10:38 AM
JHAW1 AsIII with 20 ppb.tds 11/8/2006 10:40 AM
JHAW1 MS AsIII 420x.tcl 11/8/2006 4:48 PM
JHAW1 MSD AsIII 420x.tcl 11/8/2006 5:01 PM
JHAWV As III 100x.tcl 11/8/2006 5:35 PM
JHAX3 As III.tcl 11/8/2006 6:18 PM
LCS AsIII 2.tcl 11/8/2006 3:53 PM
LCS AsIII.tcl 11/8/2006 3:16 PM
LCS2 AsIII.tcl 11/8/2006 3:26 PM
LCSD AsIII 2.tcl 11/8/2006 4:02 PM
Primary chk AS6072.tds 11/8/2006 10:17 AM
Secondary chk AS6073.tds 11/8/2006 10:20 AM
File name:
JHA0M As V with 1ppb.tds
Files of type:
all files (*.*)
Open
Cancel

TraceDetect Nano-Band Explorer

Sample ID: JHAW1 AsIII ~~420x~~ 4200X

.01 mL sample used + 4/2 mL DI

MMS 11/9/06

Trace Metals:

As(III): 1.10 ppm

MMS 11/9/06

182,700 ppb

1,827,000 ppb

13,440 X dil

Temperature

MMS 11/9/06

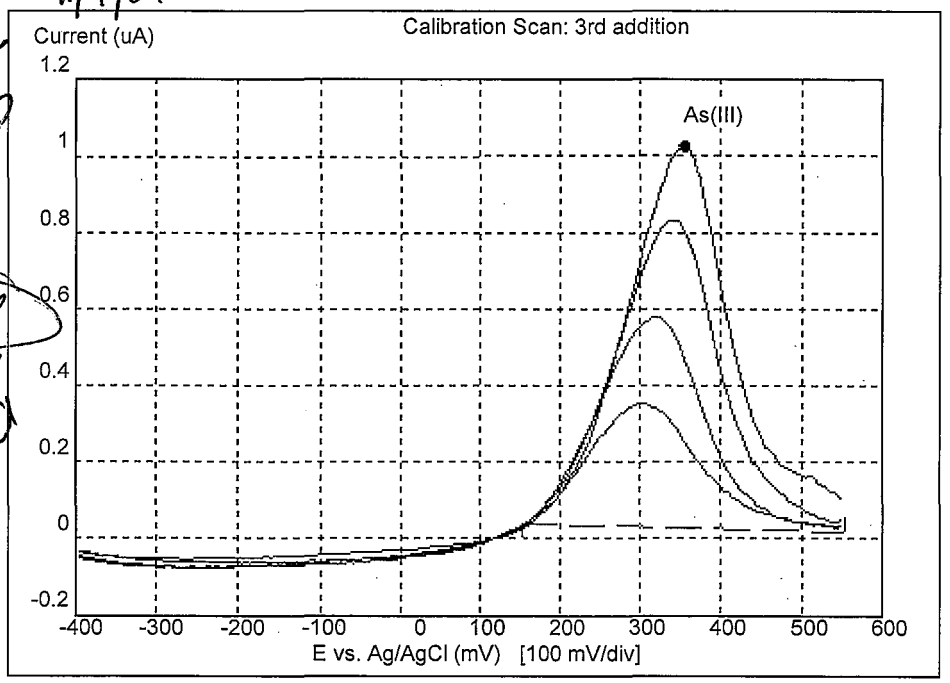
134,400 ppb X

Input 1:

Input 2:

08/Nov/06 16:43:13

Calibration Scan: 3rd addition



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	5	Start Voltage (mV):	-400
☑ Background subtraction		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

32 x dil for plate time

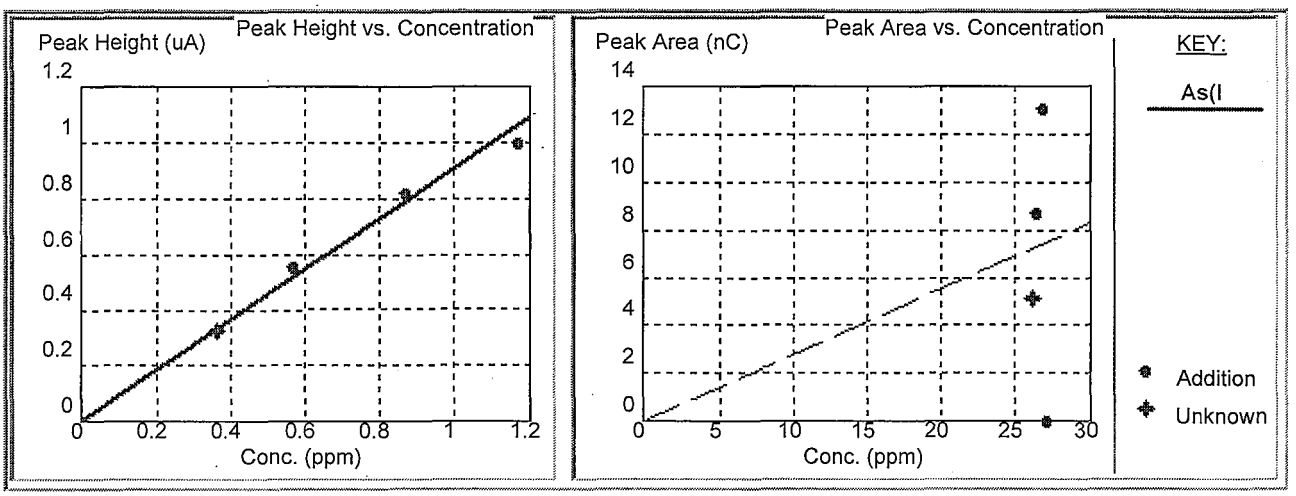
4200 ~~420~~X manual dilution

134,400 ~~13,440~~ X total dilution

MMS 11/9/06

Calibration Summary:

Calibration Date: 08/Nov/06 at 16:43:41



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III)	**Height**	0.983	1.10 ppb/nA	0 ppt	370 ppb	430 ppb
	Area	0.099	3600 ppb/nC	0 ppt	26 ppm	31 ppm

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	365 ppb	435 ppb	10.0 uL (200 ppb)	15.0 uL (300 ppb)	15.0 uL (300 ppb)	800 ppb

435 x 420 = 182,700 ppb

Starting Volume: 50.000 mL

Final Volume: 50.040 mL

TraceDetect Nano-Band Explorer

Sample ID: JHAW1 MS AsIII ~~420x~~ 4200X

Trace Metals:

As(III): 1.36 ppm

~~324,280ppb~~

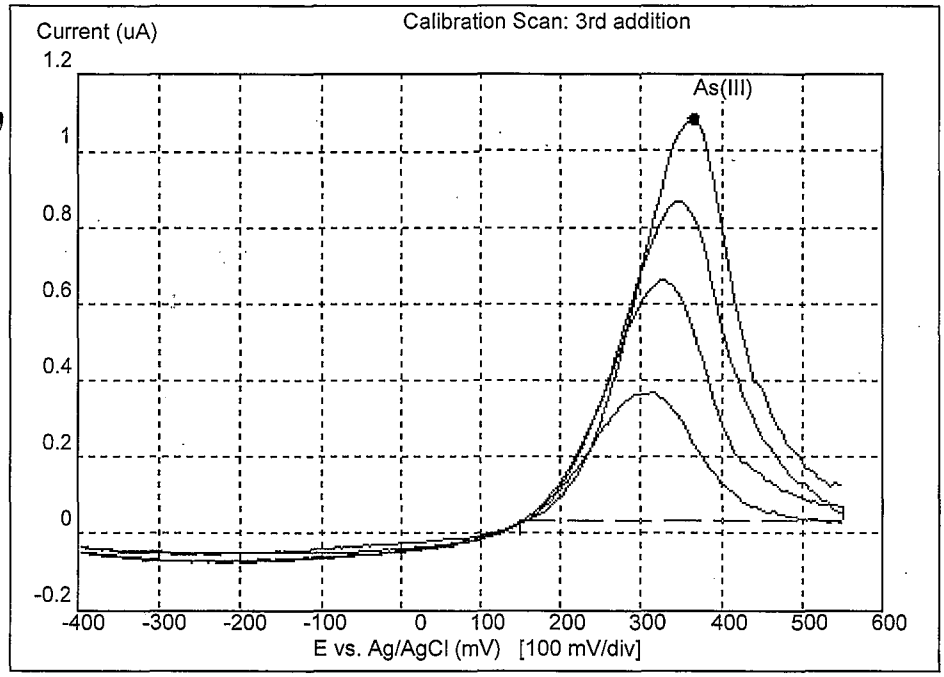
2242,800ppb

Temperature:

Input 1:

Input 2:

08/Nov/06 16:47:55



Settings: 13,440X dil

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	5	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

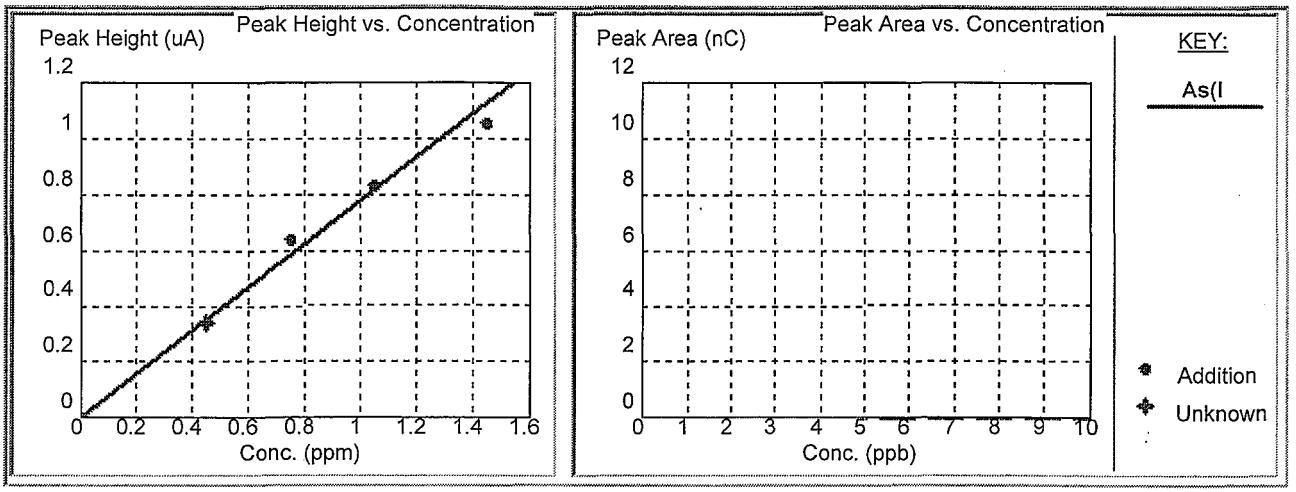
☑ Background subtraction

MS/MSD spike TV=84000

Calibration Summary:

Calibration Date: 08/Nov/06 at 16:48:25

JHAW01 MS As^{III} 420X



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III)	**Height**	0.977	1.29 ppb/nA	0 ppt	450 ppb	530 ppb
	Area	0.456	-156 ppb/nC	0 ppt	-1.0 ppm	-1.2 ppm

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	448 ppb	534 ppb	15.0 uL (300 ppb)	15.0 uL (300 ppb)	20.0 uL (400 ppb)	1.00 ppm

JHA101 MS As III

420 X

534 X 420 = 224,280

Starting Volume: 50.000 mL

Final Volume: 50.050 mL

TraceDetect Nano-Band Explorer

Sample ID: JHAW1 MSD AsIII 420x

Trace Metals:

As(III): 1.51 ppm

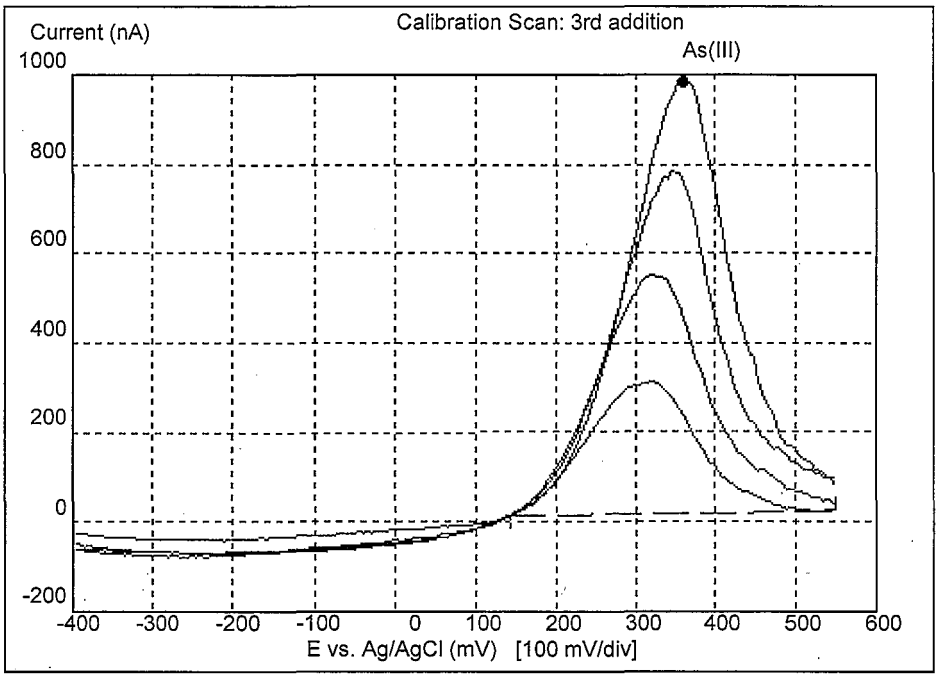
240,240 ppb

Temperature:

Input 1:

Input 2:

08/Nov/06 17:00:18



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	5	Start Voltage (mV):	-400
☑ Background subtraction		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

32 X for plate
H20X manual

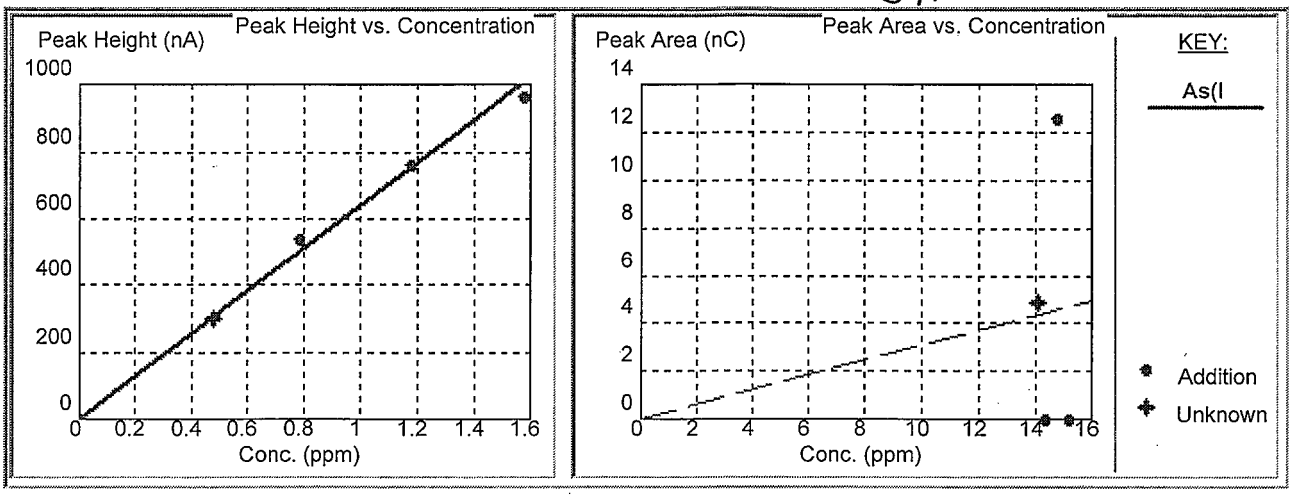
13,440 x total dilution

MS/MSD TV= 8400 ppb

Calibration Summary:

Calibration Date: 08/Nov/06 at 17:00:50

JHAW1 MSD As^{III} 420X



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As[III]	**Height**	0.990	1.56 ppb/nA	0 ppt	480 ppb	570 ppb
	Area	0.002	3220 ppb/nC	0 ppt	14 ppm	17 ppm

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	481 ppb	572 ppb	15.0 uL (300 ppb)	20.0 uL (400 ppb)	20.0 uL (400 ppb)	1.10 ppm

JHA101 MSD As III
420X

MA 11/9/06

572 x ~~420~~ = ~~240,240~~

4200

MA 11/9/06

2,402,800

Starting Volume: 50.000 mL

Final Volume: 50.055 mL

JHAXV

TraceDetect Nano-Band Explorer

Sample ID: ~~JHAWV~~ As III 100x

MEB 11/9/06

08/Nov/06 17:34:25

Trace Metals:

As(III): 725 ppb

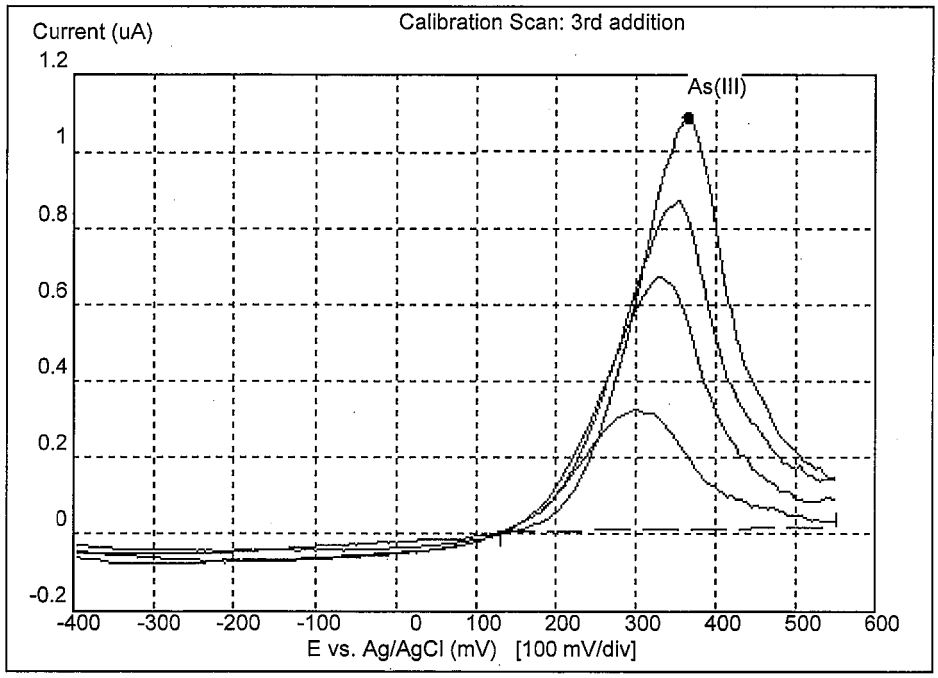
24,300 ppb

(1600X dil)

Temperature:

Input 1:

Input 2:



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	10	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

16X for plate time

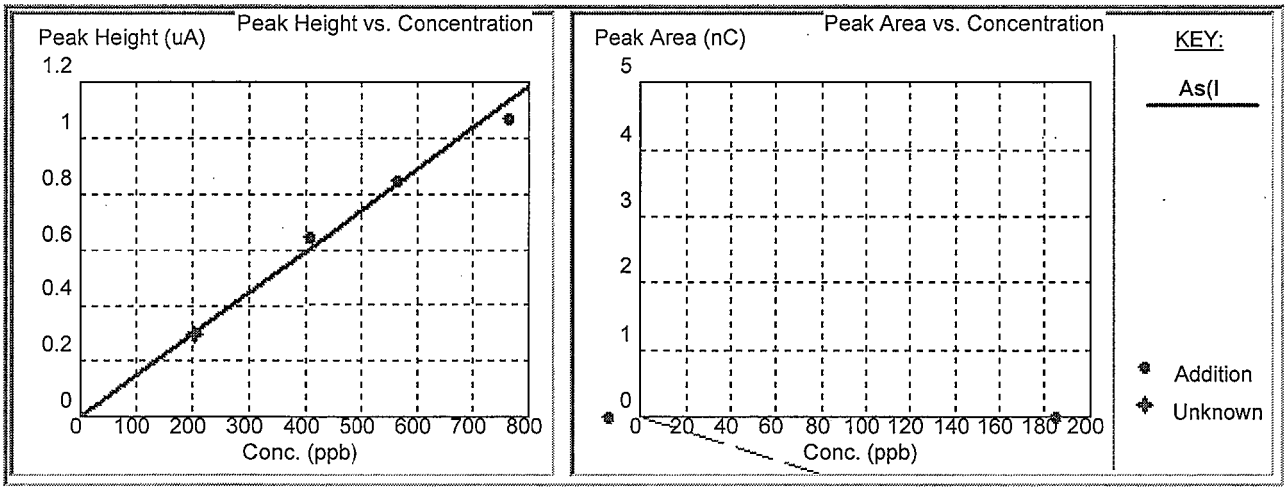
100X manual

1600X total dilution

Calibration Summary:

JHAWV 100X

Calibration Date: 08/Nov/06 at 17:34:58



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As[III]	**Height**	0.988	0.674 ppb/nA	0 ppt	200 ppb	240 ppb
	Area	0.616	-92 ppb/nC	0 ppt	-370 ppb	-450 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

JHWV 100X

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	204 ppb	243 ppb	10.0 uL (200 ppb)	8.00 uL (160 ppb)	10.0 uL (200 ppb)	560 ppb

X 100

24,300 ppb

Starting Volume: 50.000 mL

Final Volume: 50.028 mL

TraceDetect Nano-Band Explorer - C:\Program Files\Common Files\AS Temp\T0606\blk AsIII with 1ppb.tds

Sample ID: blk AsIII with 1ppb

Trace Metals:

As(III): 14.3 ppb

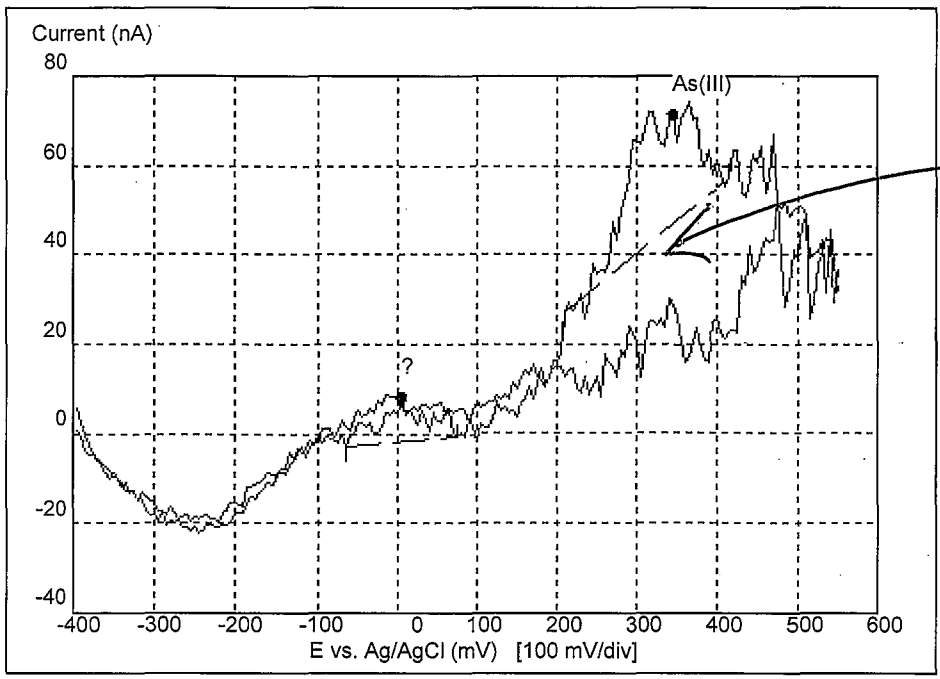
ND

Temperature:

Input 1:

Input 2:

08/Nov/06 14:58:02



1ppb

Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	160	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

TraceDetect Nano-Band Explorer

Sample ID: LCS AsIII 2

Trace Metals:

As(III): 61.0 ppb

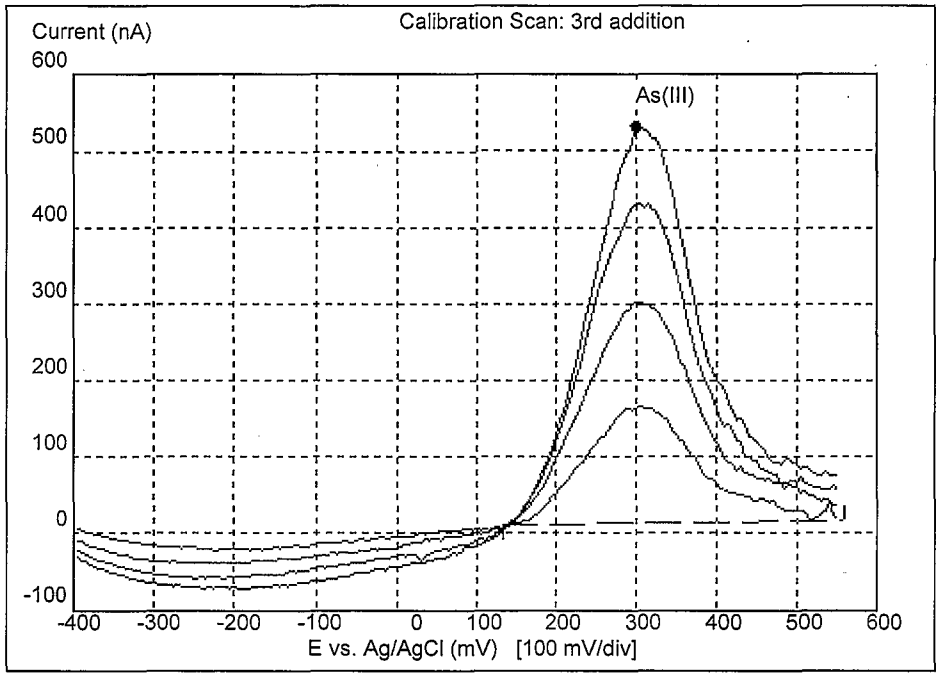
20.0ppb

Temperature:

Input 1:

Input 2:

08/Nov/06 15:51:35



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

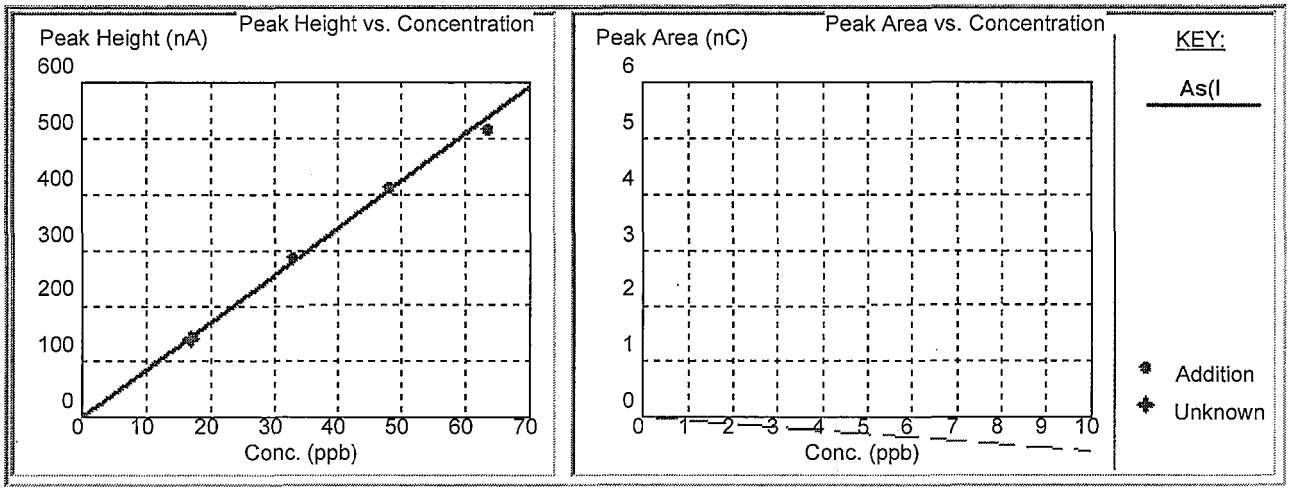
☑ Background subtraction

TV=20ppb

Calibration Summary:

LCS As III

Calibration Date: 08/Nov/06 at 15:53:31



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III)	**Height**	0.995	0.118 ppb/nA	0 ppt	17 ppb	20 ppb
	Area	0.384	-17 ppb/nC	0 ppt	-54 ppb	-65 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	16.8 ppb	20.0 ppb	800 uL (15.7 ppb)	800 uL (15.5 ppb)	800 uL (15.3 ppb)	46.5 ppb

LCS As III

Starting Volume: 50.000 mL

Final Volume: 52.400 mL

TraceDetect Nano-Band Explorer

Sample ID: LCSD AsIII 2

Trace Metals:

As(III): 64.6 ppb

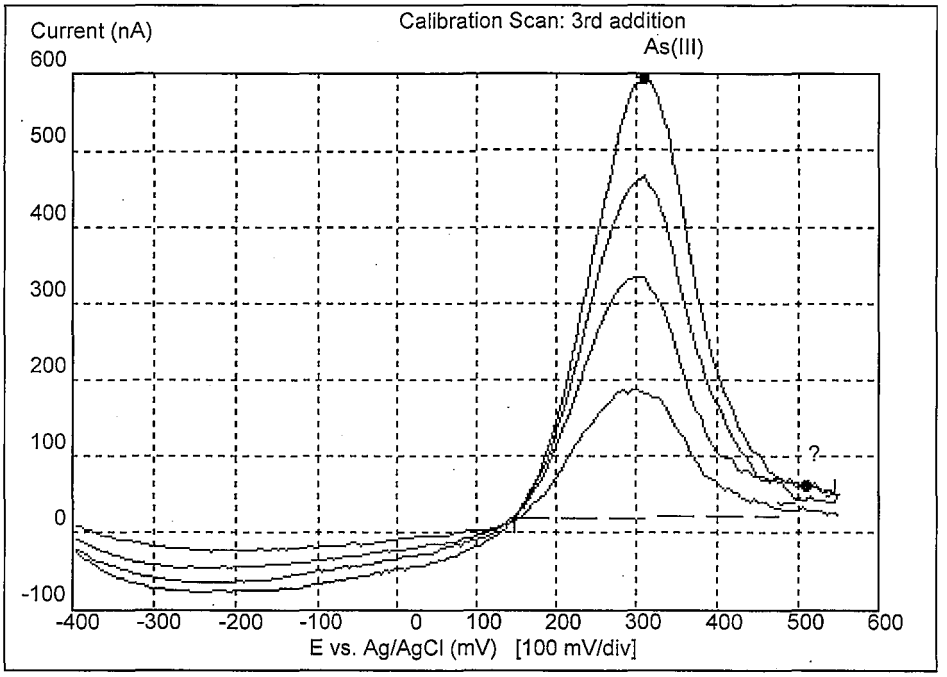
21.8 ppb

Temperature:

Input 1:

Input 2:

08/Nov/06 15:59:48



Settings:

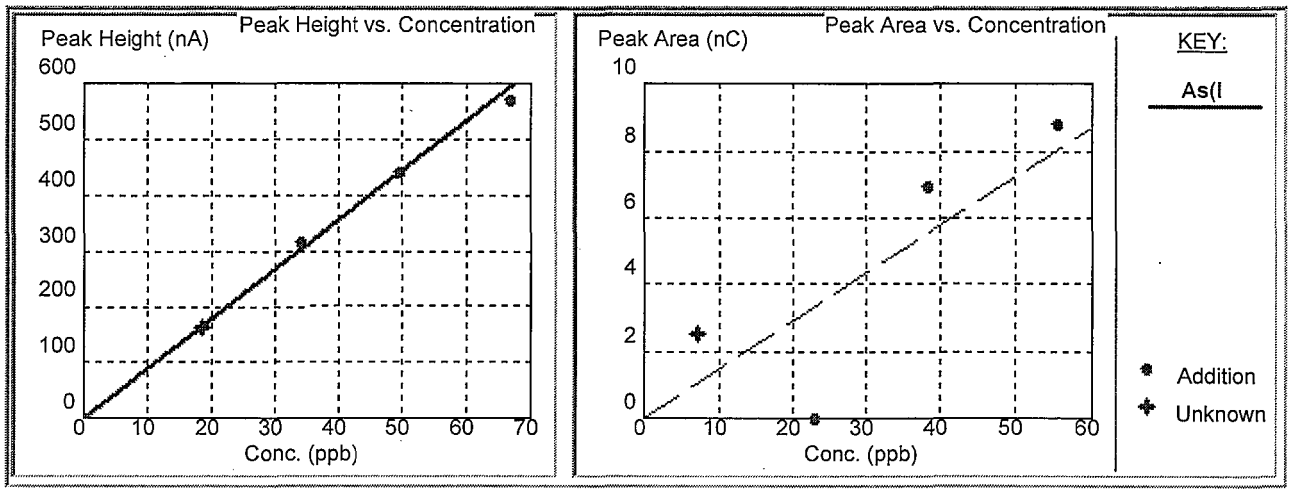
Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
☑ Background subtraction		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

TV = 20ppb

Calibration Summary:

LCSD As III

Calibration Date: 08/Nov/06 at 16:02:00



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III)	**Height**	0.996	0.113 ppb/nA	0 ppt	18 ppb	22 ppb
	Area	0.688	6.92 ppb/nC	0 ppt	7.0 ppb	8.4 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	18.3 ppb	21.8 ppb	800 uL (15.7 ppb)	800 uL (15.5 ppb)	900 uL (17.1 ppb)	48.4 ppb

LCSD As III

Starting Volume: 50.000 mL

Final Volume: 52.500 mL

Sample ID: Secondary chk AS6073

Trace Metals:

As(III): 274 nA

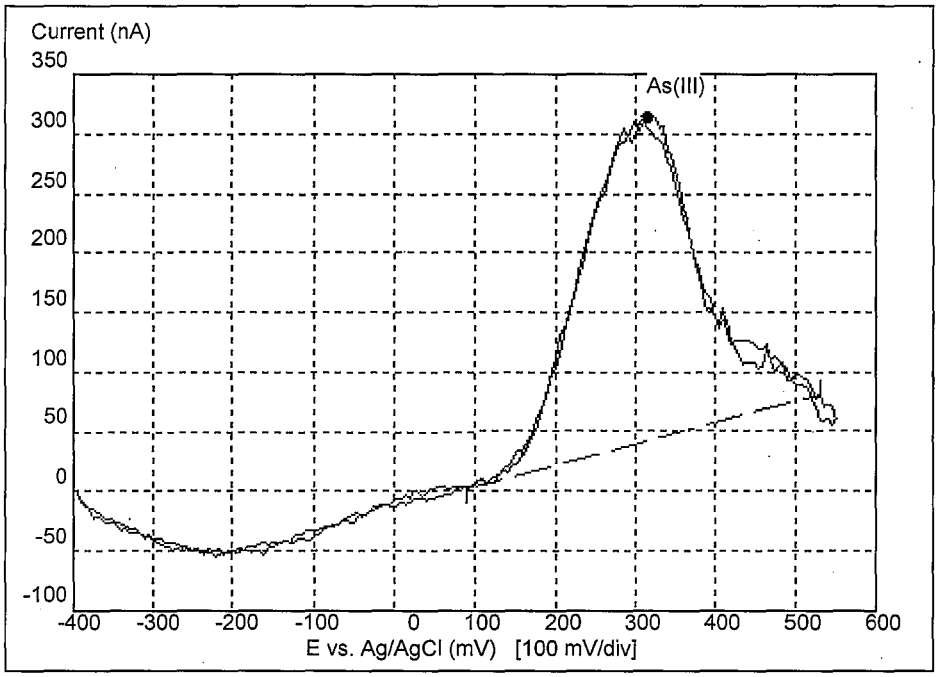
274/281 = 98%

Temperature:

Input 1:

Input 2:

08/Nov/06 10:19:14



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Sample ID: Primary chk AS6072

Trace Metals:

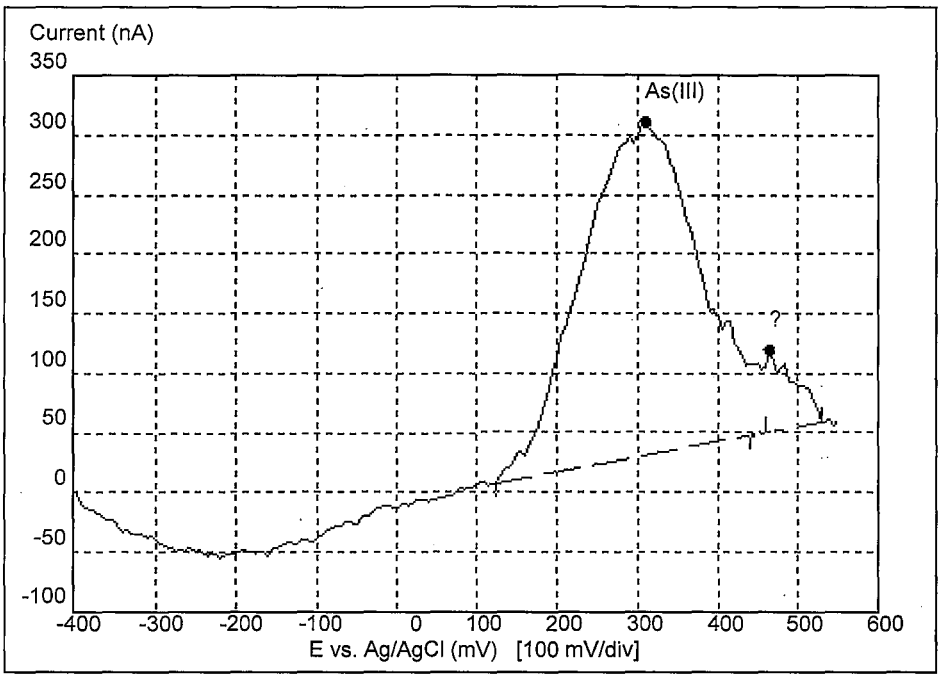
As(III): 281 nA

Temperature:

Input 1:

Input 2:

08/Nov/06 10:19:14



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Sample ID: Au Plate dta

Trace Metals:

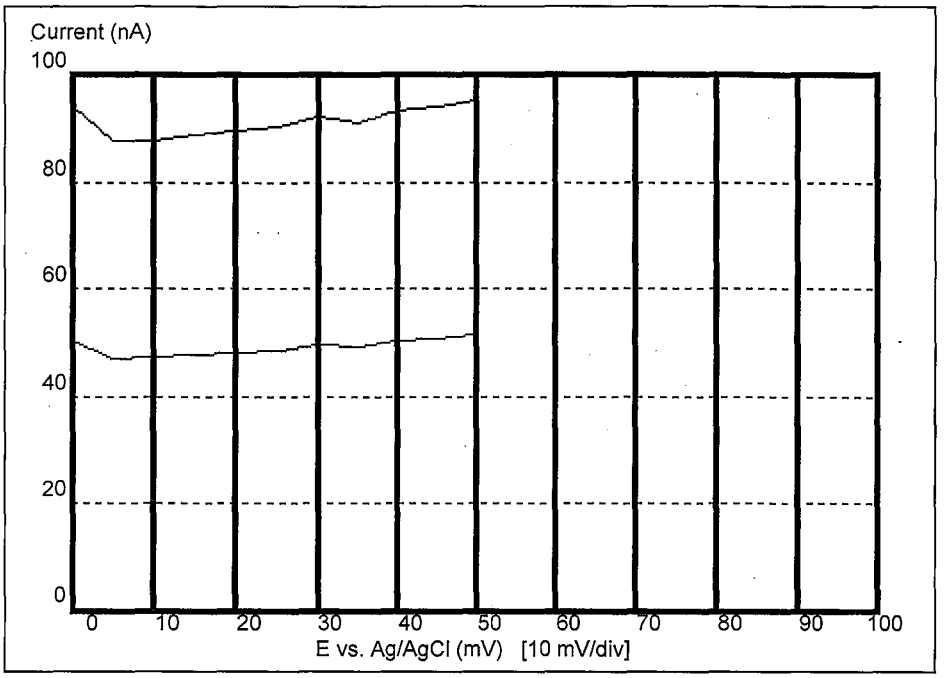
As(III): 19.5 ppb

Temperature:

Input 1:

Input 2:

08/Nov/06 14:09:23



Settings:

Type:	ASV	Clean Time (S)	0	Signal Avg.	16
Waveform:	Sq. Wave	Clean Voltage (mV):	100	Frequency (Hz):	1000
Cell	Three Electrode	Plate Time (S)	55	Start Voltage (mV):	-50
		Plate Voltage (mV)	-50	Stop Voltage (mV):	5
		Range (uA):	1.25	Step Voltage (mV):	5

☐ Background subtraction

STL North Canton Arsenic (III) Data Review Checklist

Run/Project Information

Run Date: 11/9/06 **Analyst:** MFG **Instrument:**_____

Prep Batches Run: 6313458

Methods used: **7063 mod :** NC-WC-000X Rev 1

Review Items

A. Instrument Setup	Yes	No	N/A	2ndLevel
1. Electrode sensitivity check?	X			✓
2. MSA working standard and verification standard within control limits?	X			✓
3. Cleanliness check (ICB) within +/- RL?	X			✓
B. Sample Results				
1. Were non-detect samples verified with single point MSA?	X			✓
2. All samples with As(III) quantified with 3-4 point MSA?	X			✓
3. Sample analyses done within holding time?	X			✓
C. Preparation/Matrix QC				
1. Samples preserved in the field?	X			✓
2. LCS done per prep batch and within QC limits?	X			✓
3. Method blank done per prep batch and < RL?	X			✓
4. MS run at required frequency (1 per 20 samples) and within limits?	X			✓
5. MSD or DU run at required frequency (1 per 20 samples) and RPD within limits?	X			✓
D. Other				
1. Are all nonconformances documented appropriately?			X	NA
2. Current MDL data on file?	X			✓
3. Calculations and Transcriptions checked for error?	X			✓
4. All client/ project specific requirements met?	X			✓
5. Date of analysis verified as correct?	X			✓

Analyst: Melissa A. Fuller-Gustavel **Date:** 11/9/06

Comments:

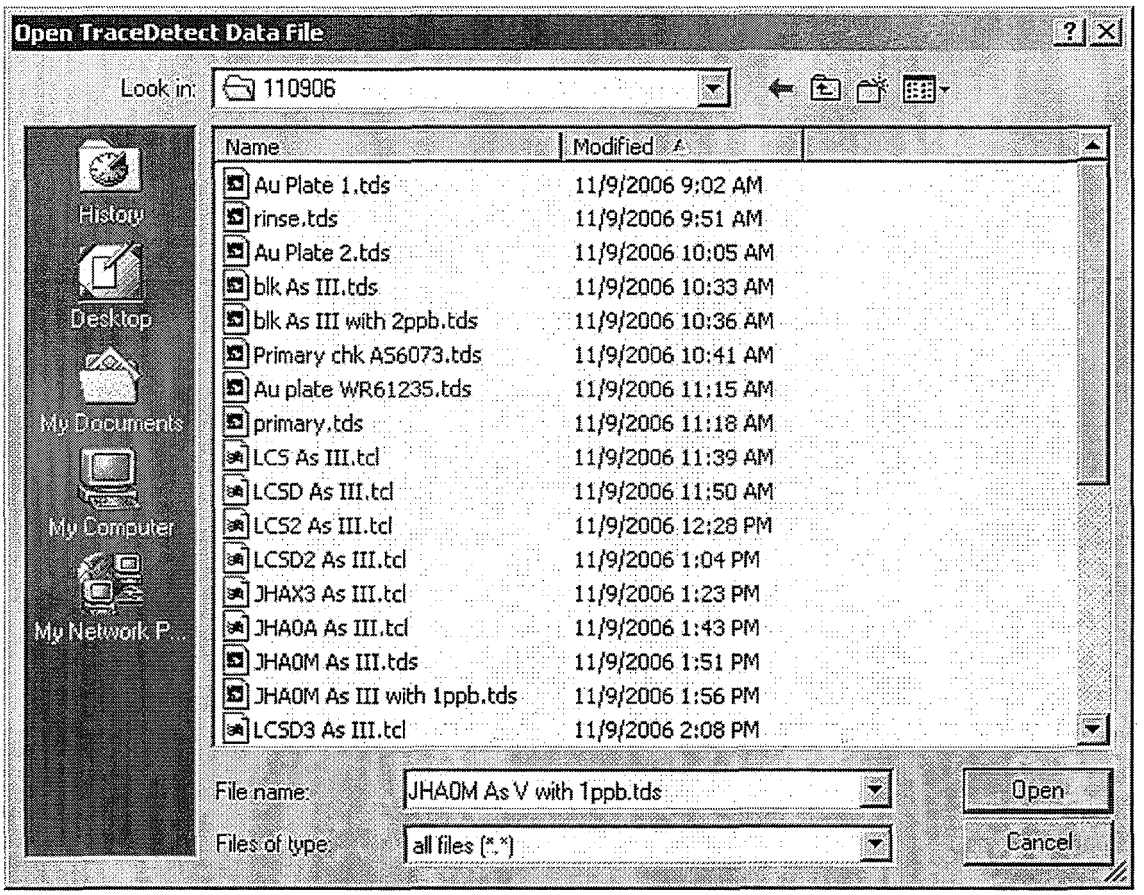
2nd Level Reviewer : [signature] **Date:** 11/9/06

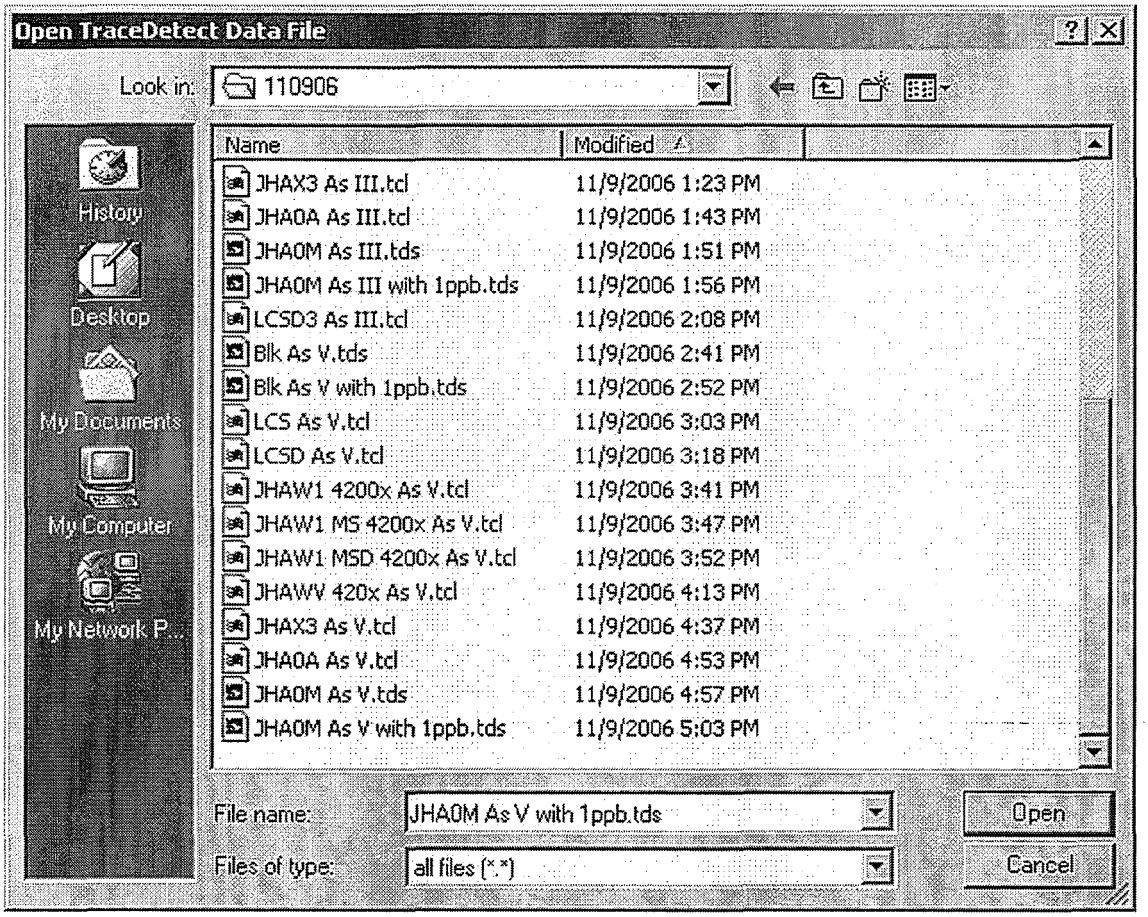
Standard, Reagent and Supply Numbers

MSA Working Std AS6073 **MSA Verification Std** AS6072 **MS As(V) Std** ✓

Au plate soln WR61235 **conc HCl** WR60283 **Cu Remover** ✓ **C18** ✓

Acid ext ✓ **Basic ext** ✓


Open TraceDetect Data File
Look in: 110906
History
Desktop
My Documents
My Computer
My Network P...
Name
Modified
Au Plate 1.tds 11/9/2006 9:02 AM
rinse.tds 11/9/2006 9:51 AM
Au Plate 2.tds 11/9/2006 10:05 AM
blk As III.tds 11/9/2006 10:33 AM
blk As III with 2ppb.tds 11/9/2006 10:36 AM
Primary chk A56073.tds 11/9/2006 10:41 AM
Au plate WR61235.tds 11/9/2006 11:15 AM
primary.tds 11/9/2006 11:18 AM
LCS As III.tcl 11/9/2006 11:39 AM
LCSD As III.tcl 11/9/2006 11:50 AM
LCS2 As III.tcl 11/9/2006 12:28 PM
LCSD2 As III.tcl 11/9/2006 1:04 PM
JHAX3 As III.tcl 11/9/2006 1:23 PM
JHA0A As III.tcl 11/9/2006 1:43 PM
JHA0M As III.tds 11/9/2006 1:51 PM
JHA0M As III with 1ppb.tds 11/9/2006 1:56 PM
LCSD3 As III.tcl 11/9/2006 2:08 PM
File name: JHA0M As V with 1ppb.tds
Files of type: all files (*.*)
Open
Cancel


Open TraceDetect Data File
Look in:
110906
History
Desktop
My Documents
My Computer
My Network P...
Name
Modified
JHAX3 As III.tcl 11/9/2006 1:23 PM
JHA0A As III.tcl 11/9/2006 1:43 PM
JHA0M As III.tds 11/9/2006 1:51 PM
JHA0M As III with 1ppb.tds 11/9/2006 1:56 PM
LCSD3 As III.tcl 11/9/2006 2:08 PM
Blk As V.tds 11/9/2006 2:41 PM
Blk As V with 1ppb.tds 11/9/2006 2:52 PM
LCS As V.tcl 11/9/2006 3:03 PM
LCSD As V.tcl 11/9/2006 3:18 PM
JHAW1 4200x As V.tcl 11/9/2006 3:41 PM
JHAW1 MS 4200x As V.tcl 11/9/2006 3:47 PM
JHAW1 MSD 4200x As V.tcl 11/9/2006 3:52 PM
JHAWV 420x As V.tcl 11/9/2006 4:13 PM
JHAX3 As V.tcl 11/9/2006 4:37 PM
JHA0A As V.tcl 11/9/2006 4:53 PM
JHA0M As V.tds 11/9/2006 4:57 PM
JHA0M As V with 1ppb.tds 11/9/2006 5:03 PM
File name:
JHA0M As V with 1ppb.tds
Files of type:
all files (*.*)
Open
Cancel

TraceDetect Nano-Band Explorer

Sample ID: JHAX3 As III

Trace Metals:

As(III): 73.8 ppb

23.9 ppb

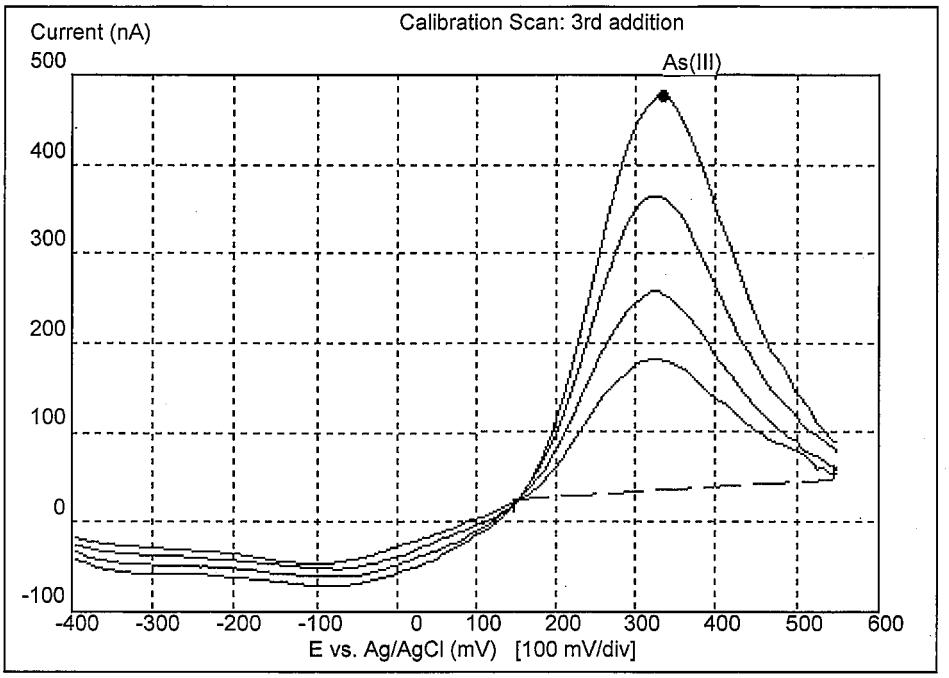
4x for plate

Temperature:

Input 1:

Input 2:

09/Nov/06 13:20:07



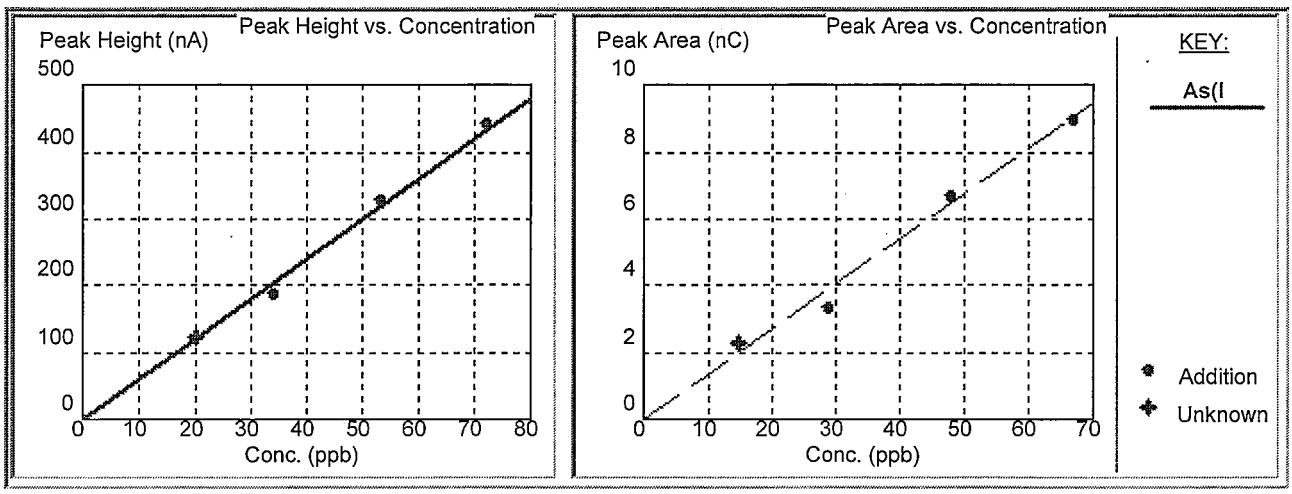
Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Calibration Summary:

Calibration Date: 09/Nov/06 at 13:23:31



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As[III]	**Height**	0.996	0.166 ppb/nA	0 ppt	20 ppb	24 ppb
	Area	0.986	7.40 ppb/nC	0 ppt	15 ppb	17 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	20.1 ppb	23.9 ppb	700 uL (13.8 ppb)	1.00 mL (19.3 ppb)	1.00 mL (19.0 ppb)	52.1 ppb

---

Starting Volume: 50.000 **mL**

Final Volume: 52.700 **mL**

TraceDetect Nano-Band Explorer

Sample ID: JHA0A As III

Trace Metals:

As(III): 76.9 ppb

23.5 ppb

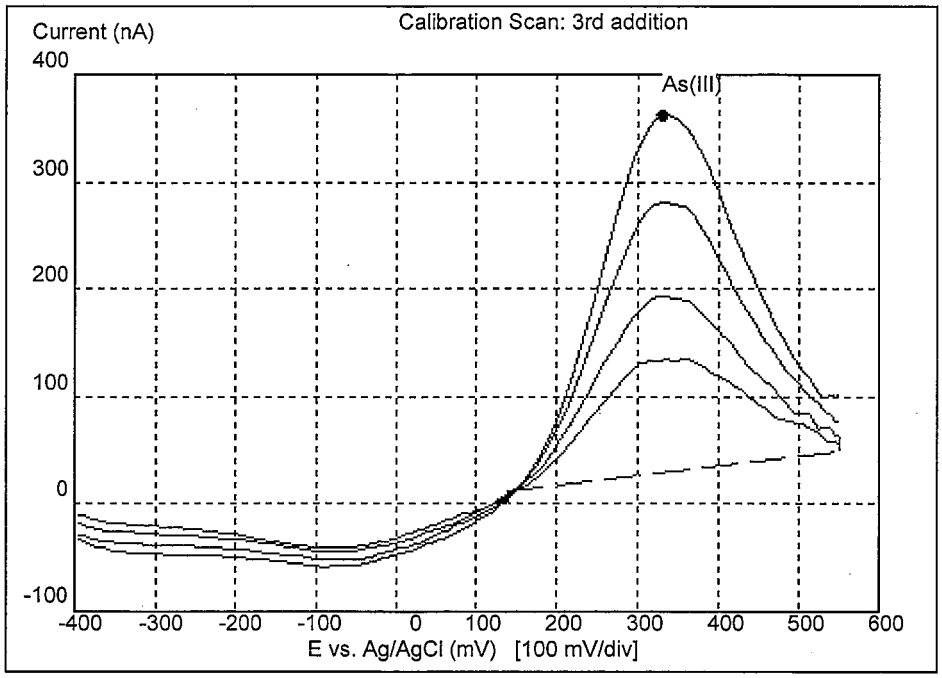
4x for plate

Temperature:

Input 1:

Input 2:

09/Nov/06 13:40:27



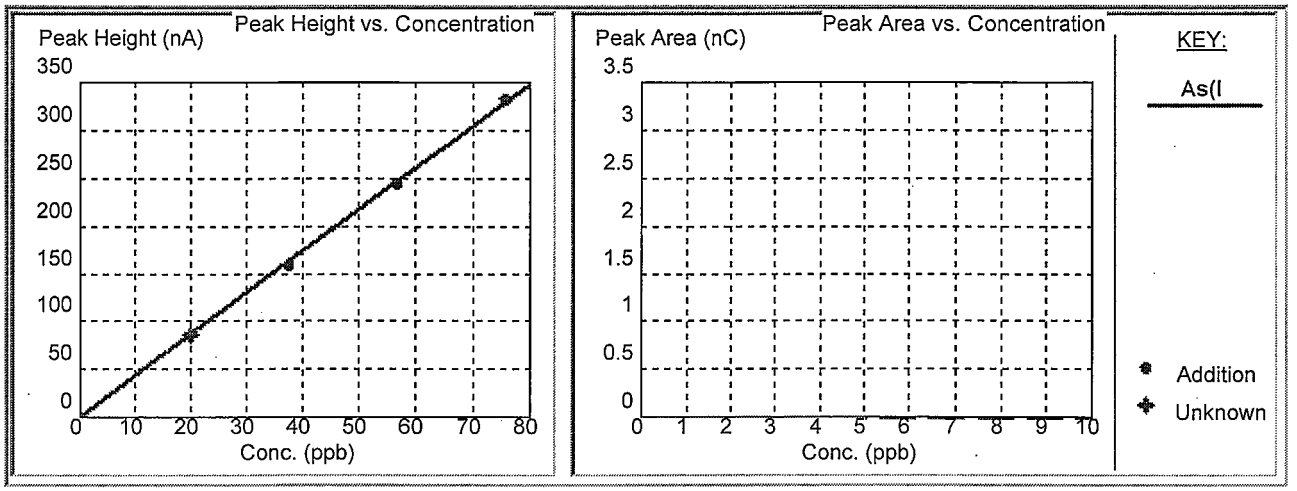
Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Calibration Summary:

Calibration Date: 09/Nov/06 at 13:43:40



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As[III]	**Height**	0.999	0.230 ppb/nA	0 ppt	20 ppb	24 ppb
	Area	0.075	-424 ppb/nC	0 ppt	-150 ppb	-180 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	19.8 ppb	23.5 ppb	900 uL (17.7 ppb)	1.00 mL (19.3 ppb)	1.00 mL (18.9 ppb)	55.9 ppb

---

Starting Volume: 50.000 mL

Final Volume: 52.900 mL

TraceDetect Nano-Band Explorer - C:\Program Files\Common Files\AS Temp\110906\JHA0M As III with 1ppb.tds

Sample ID: JHA0M As III with 1ppb

Trace Metals:

As(III): 1.50 ppb

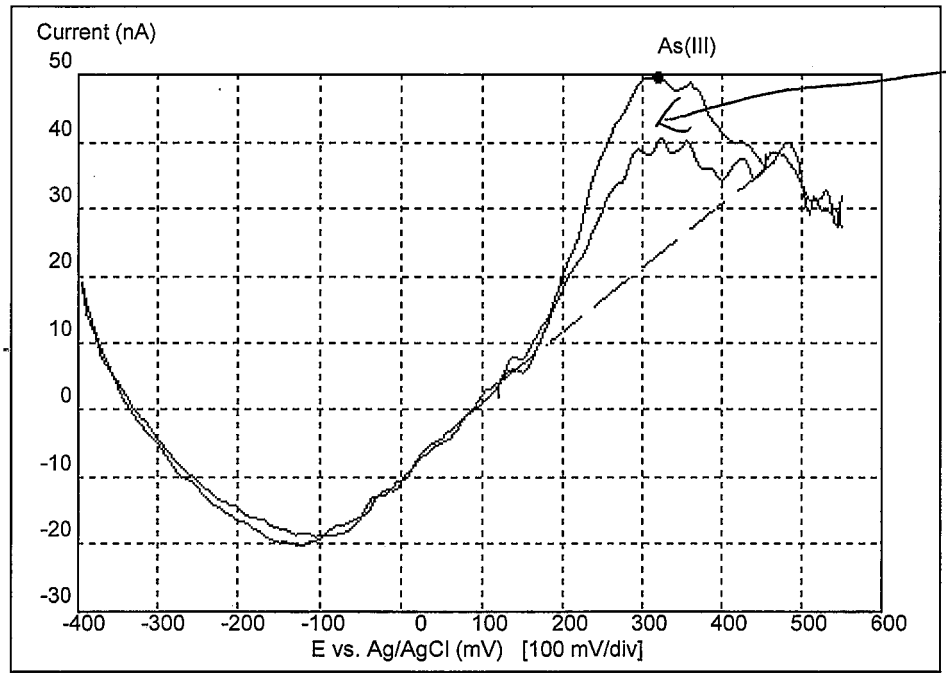
ND

Temperature:

Input 1:

Input 2:

09/Nov/06 13:51:47



1ppb

Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	160	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Sample ID: blk As III with 2ppb

Trace Metals:

As(III): 35.2 nA

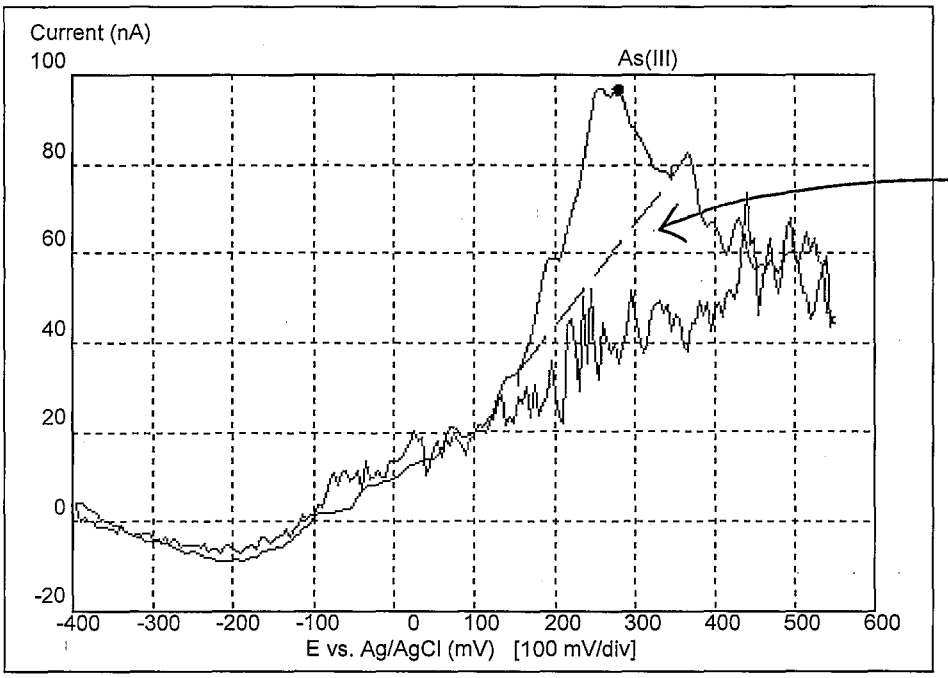
ND

Temperature:

Input 1:

Input 2:

09/Nov/06 10:33:49



2ppb

Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	160	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

TraceDetect Nano-Band Explorer

Sample ID: LCS2 As III

Trace Metals:

As(III): 64.7 ppb

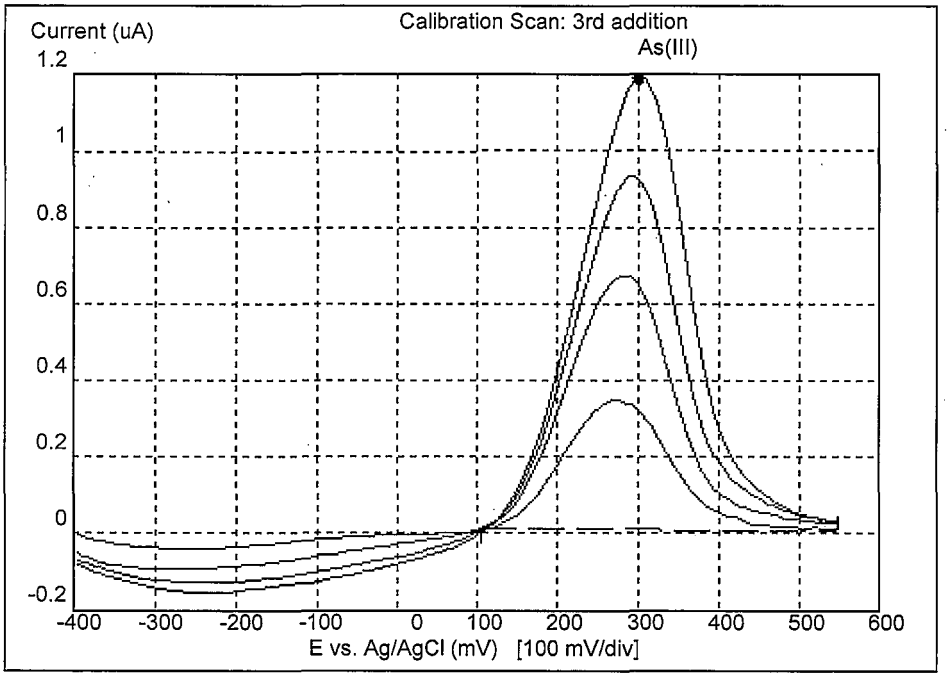
22.2 ppb

Temperature:

Input 1:

Input 2:

09/Nov/06 12:25:23



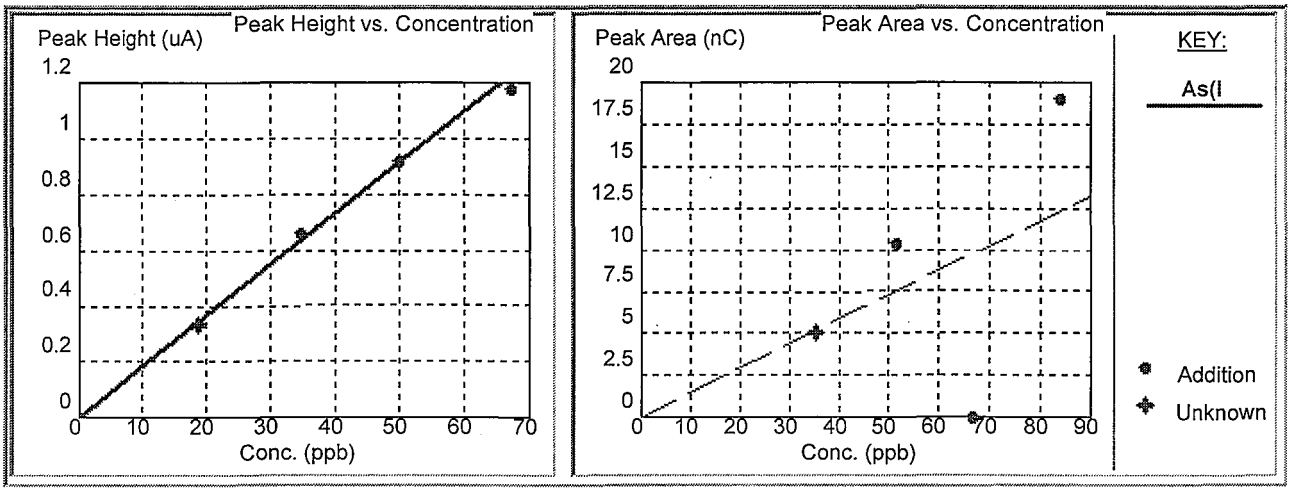
Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Calibration Summary:

Calibration Date: 09/Nov/06 at 12:28:33



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III)	**Height**	0.994	0.055 ppb/nA	0 ppt	19 ppb	22 ppb
	Area	0.267	6.82 ppb/nC	0 ppt	35 ppb	42 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	18.7 ppb	22.2 ppb	800 uL (15.7 ppb)	800 uL (15.5 ppb)	900 uL (17.1 ppb)	48.4 ppb

---

Starting Volume: 50.000 **mL**

Final Volume: 52.500 **mL**

TraceDetect Nano-Band Explorer

Sample ID: LCSD3 As III

Trace Metals:

As(III): 53.7 ppb

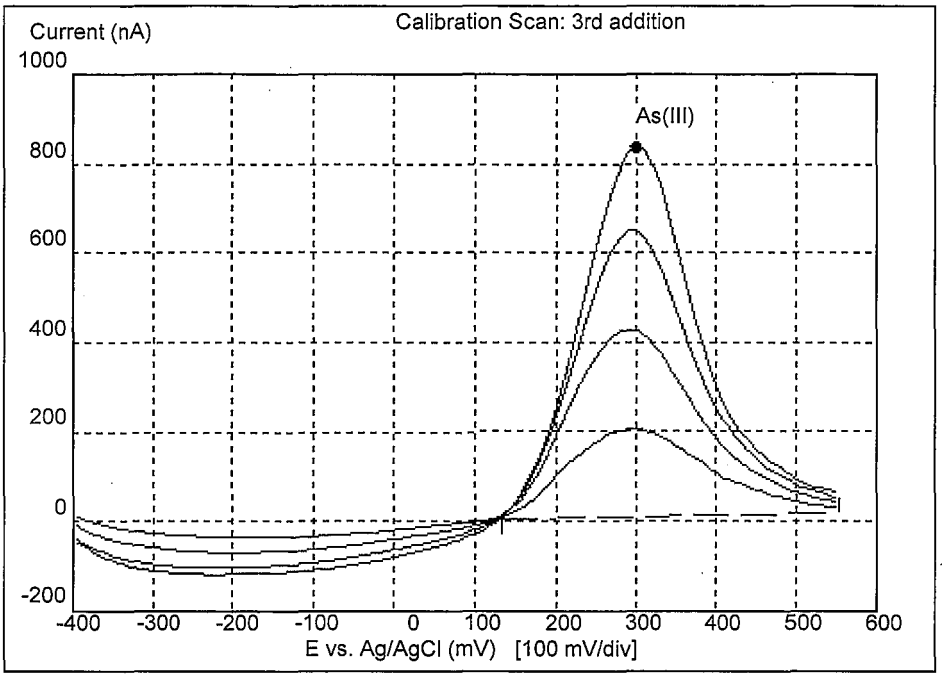
14.0 ppb

Temperature:

Input 1:

Input 2:

09/Nov/06 14:05:35



Settings:

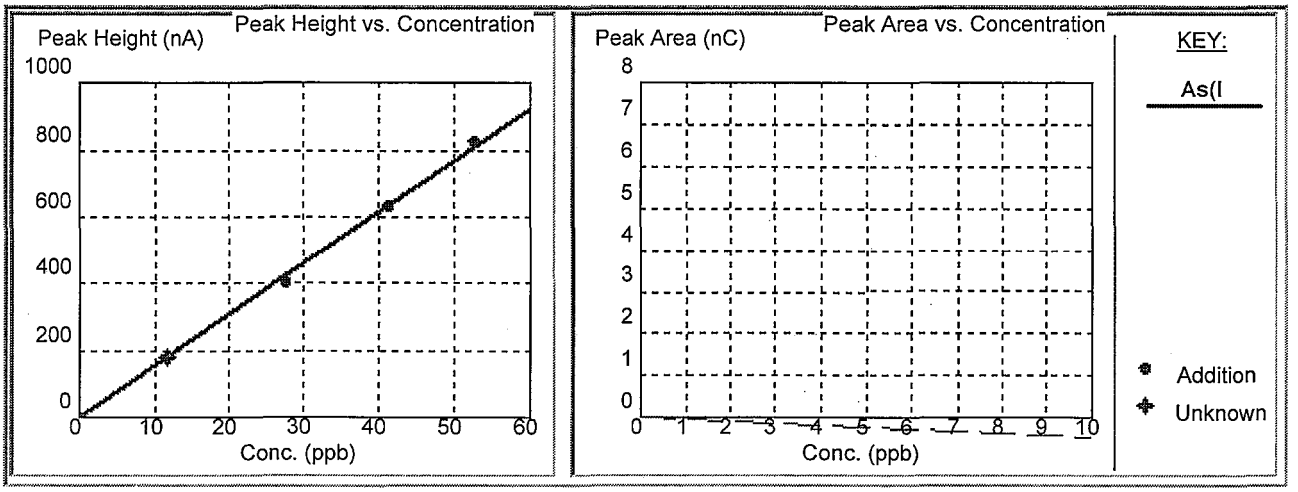
Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Calibration Summary:

LCSD As(III)

Calibration Date: 09/Nov/06 at 14:07:56



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III)	**Height**	0.999	0.065 ppb/nA	0 ppt	12 ppb	14 ppb
	Area	0.375	-21 ppb/nC	0 ppt	-90 ppb	-110 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III)	11.7 ppb	14.0 ppb	800 uL (15.7 ppb)	700 uL (13.6 ppb)	600 uL (11.5 ppb)	40.9 ppb

LCSD
AS III

Starting Volume: 50.000 **mL**

Final Volume: 52.100 **mL**

TraceDetect Nano-Band Explorer

Sample ID: secondary

09/Nov/06 11:19:22

Trace Metals:

As(III): 505 nA

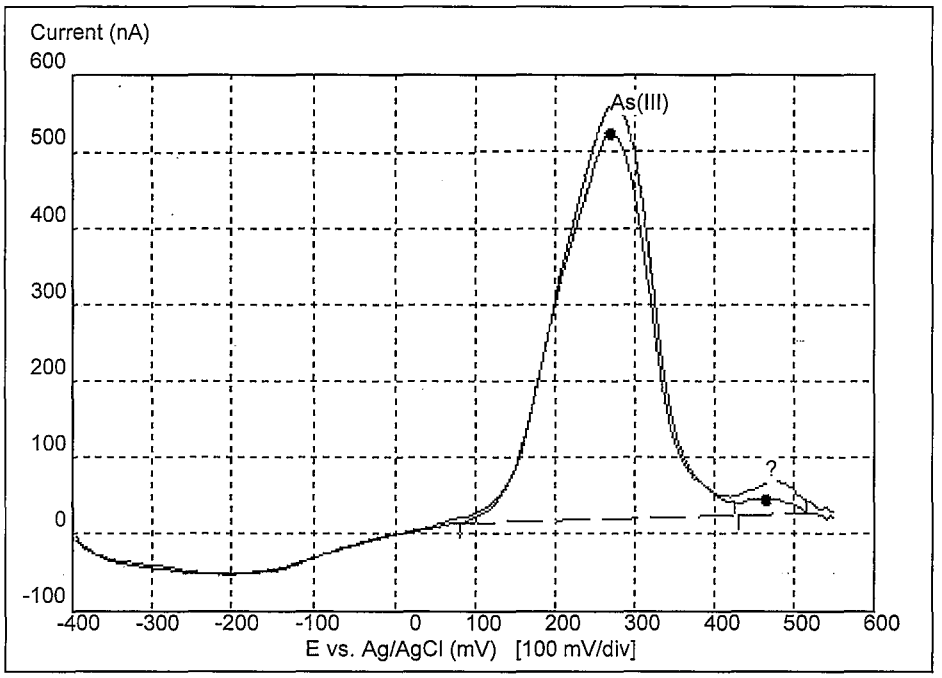
537/505

106%

Temperature:

Input 1:

Input 2:



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Sample ID: primary

Trace Metals:

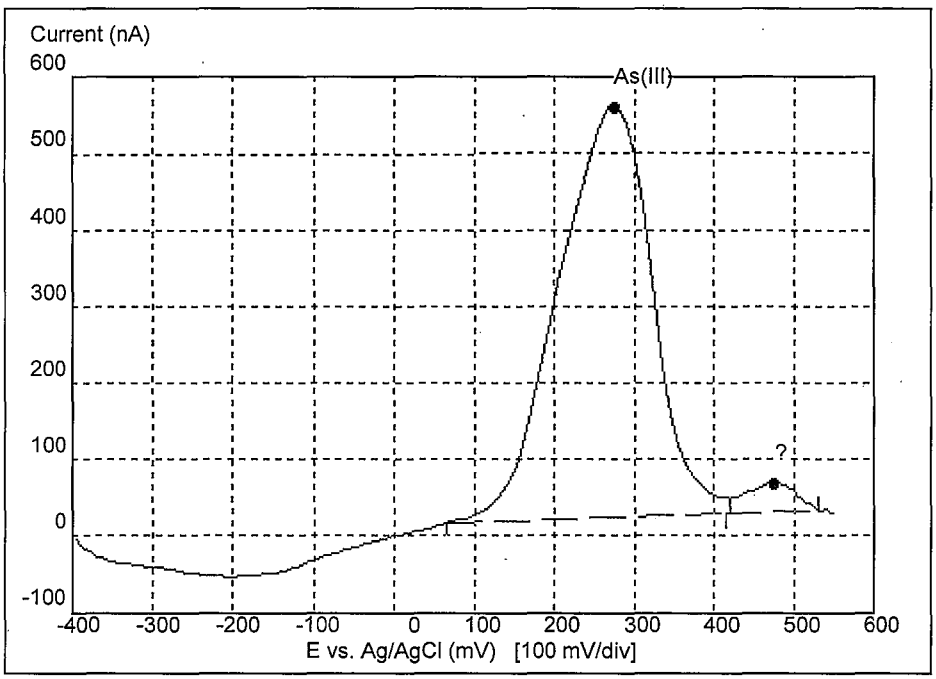
As(III): 537 nA

Temperature:

Input 1:

Input 2:

09/Nov/06 11:17:36



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

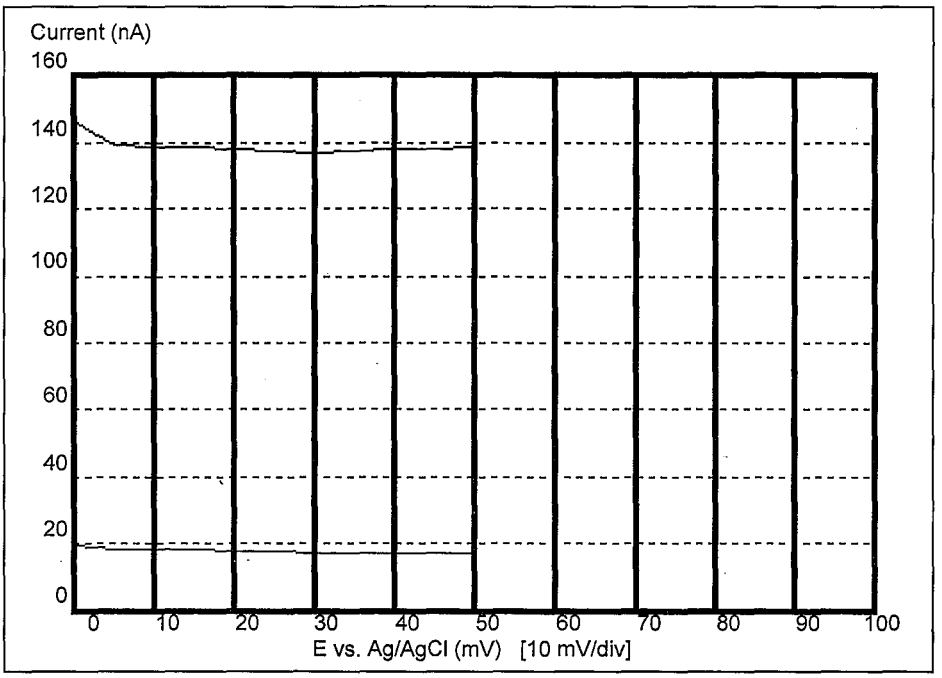
TraceDetect Nano-Band Explorer - C:\Program Files\Common Files\AS Temp\110906\Au plate WR61235.tds

Sample ID: Au plate WR61235

Trace Metals:

As(III): 92.7 nA

09/Nov/06 11:13:33



Temperature:

Input 1:

Input 2:

Settings:

Type:	ASV	Clean Time (S)	0	Signal Avg.	16
Waveform:	Sq. Wave	Clean Voltage (mV):	100	Frequency (Hz):	1000
Cell	Three Electrode	Plate Time (S)	55	Start Voltage (mV):	-50
		Plate Voltage (mV)	-50	Stop Voltage (mV):	5
		Range (uA):	1.25	Step Voltage (mV):	5

☐ Background subtraction

STL North Canton Arsenic (III) Data Review Checklist

Run/Project Information

Run Date: 11/9/06 **Analyst:** MFH **Instrument:**_____
Prep Batches Run: 6313459

Methods used: **7063 mod :** NC-WC-000X Rev 1

Review Items

A. Instrument Setup	Yes	No	N/A	2ndLevel
1. Electrode sensitivity check?	X			
2. MSA working standard and verification standard within control limits?	X			
3. Cleanliness check (ICB) within +/- RL?	X			
B. Sample Results				
1. Were non-detect samples verified with single point MSA?	X			
2. All samples with As(III) quantified with 3-4 point MSA?	X			
3. Sample analyses done within holding time?	X			
C. Preparation/Matrix QC				
1. Samples preserved in the field?	X			
2. LCS done per prep batch and within QC limits?	X			
3. Method blank done per prep batch and < RL?	X			
4. MS run at required frequency (1 per 20 samples) and within limits?	X			
5. MSD or DU run at required frequency (1 per 20 samples) and RPD within limits?	X			
D. Other				
1. Are all nonconformances documented appropriately?			X	
2. Current MDL data on file?	X			
3. Calculations and Transcriptions checked for error?	X			
4. All client/ project specific requirements met?	X			
5. Date of analysis verified as correct?	X			

Analyst: Melissa A. Fuller Gustavel **Date:** 11/9/06
Comments:

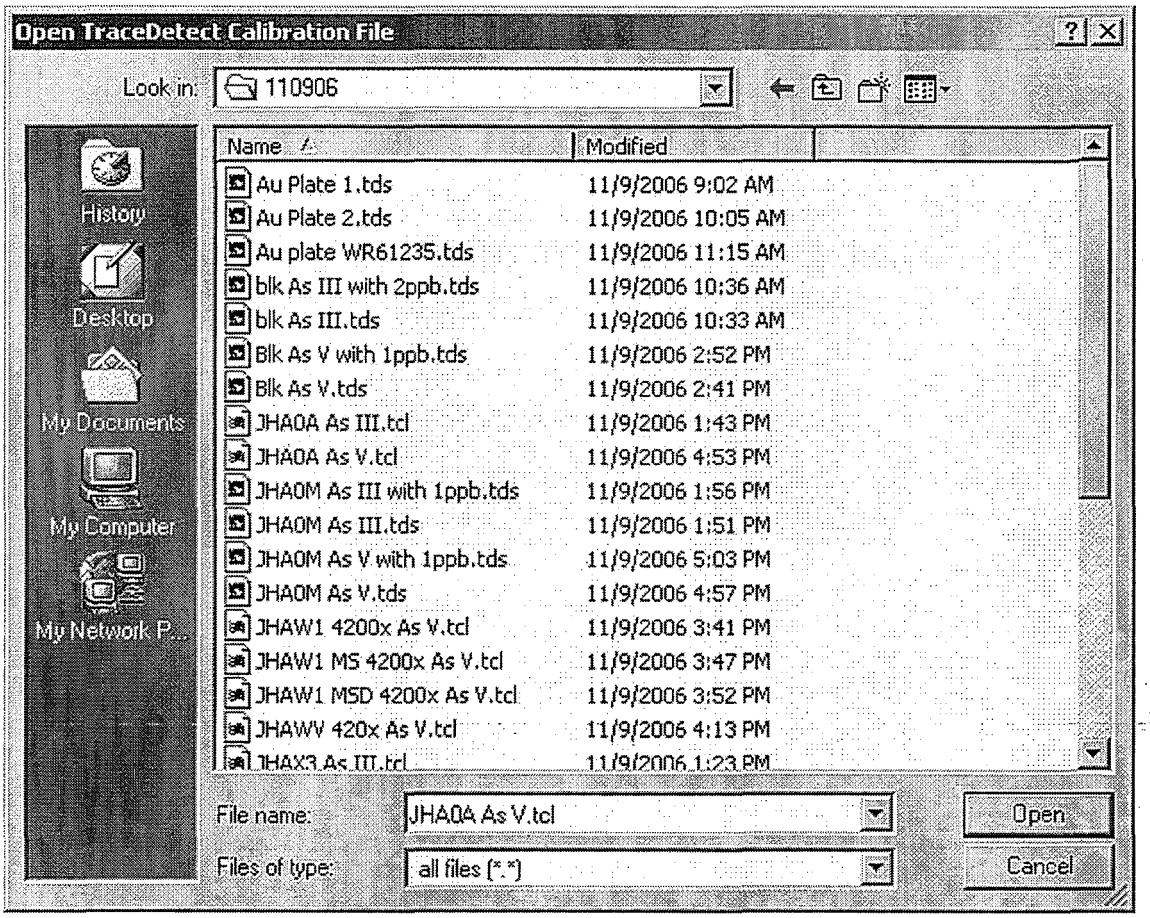
2nd Level Reviewer : Lori Hydrand **Date:** 11/9/06

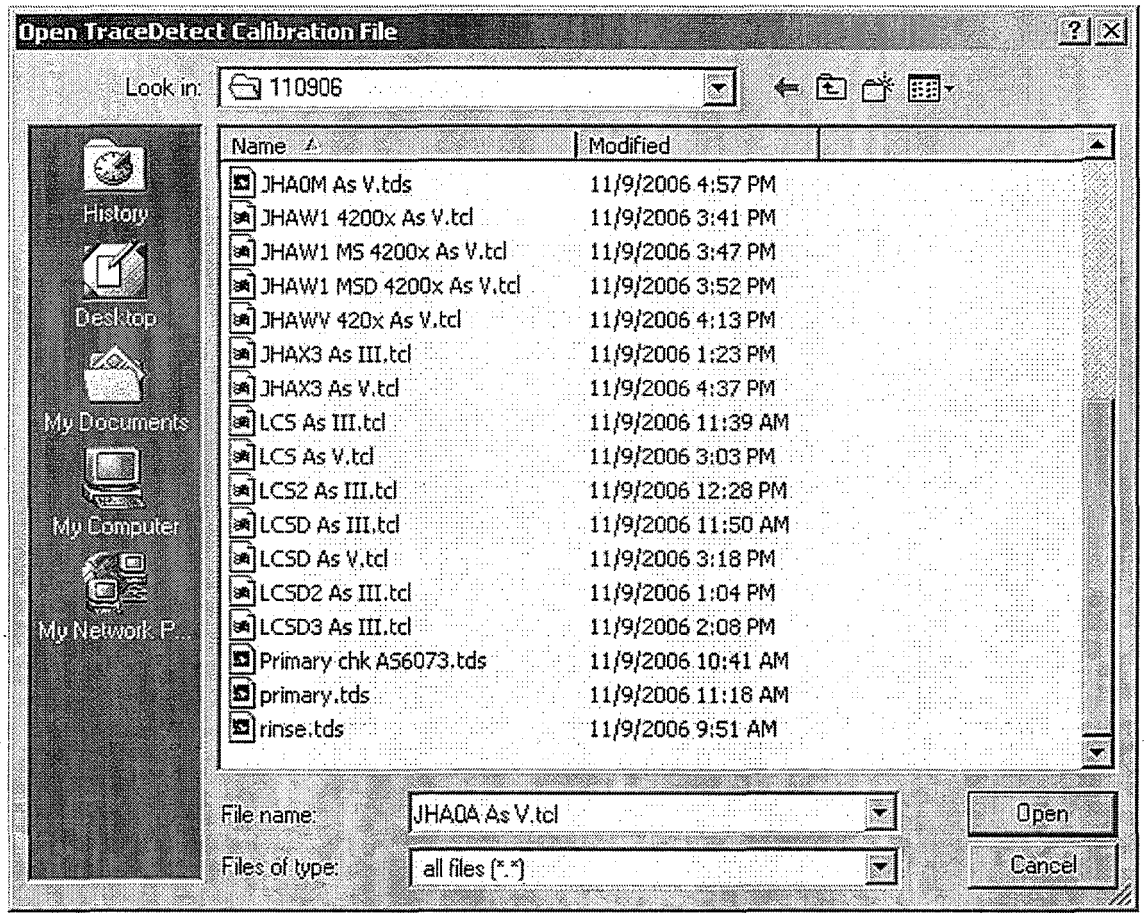
Standard, Reagent and Supply Numbers

MSA Working Std AS6072 **MSA Verification Std** AS6073 **MS As(V) Std** AS6074

Au plate soln WR61235 **conc HCl** WR60283 **Cu Remover** ✓ **C18** ✓

Acid ext ✓ **Basic ext** ✓


Open TraceDetect Calibration File
Look in: 110906
History
Desktop
My Documents
My Computer
My Network P...
Name
Modified
Au Plate 1.tds 11/9/2006 9:02 AM
Au Plate 2.tds 11/9/2006 10:05 AM
Au plate WR61235.tds 11/9/2006 11:15 AM
blk As III with 2ppb.tds 11/9/2006 10:36 AM
blk As III.tds 11/9/2006 10:33 AM
Blk As V with 1ppb.tds 11/9/2006 2:52 PM
Blk As V.tds 11/9/2006 2:41 PM
JHA0A As III.tcl 11/9/2006 1:43 PM
JHA0A As V.tcl 11/9/2006 4:53 PM
JHA0M As III with 1ppb.tds 11/9/2006 1:56 PM
JHA0M As III.tds 11/9/2006 1:51 PM
JHA0M As V with 1ppb.tds 11/9/2006 5:03 PM
JHA0M As V.tds 11/9/2006 4:57 PM
JHAW1 4200x As V.tcl 11/9/2006 3:41 PM
JHAW1 MS 4200x As V.tcl 11/9/2006 3:47 PM
JHAW1 MSD 4200x As V.tcl 11/9/2006 3:52 PM
JHAWV 420x As V.tcl 11/9/2006 4:13 PM
JHAX3 As III.tcl 11/9/2006 1:23 PM
File name: JHA0A As V.tcl
Files of type: all files (*.*)
Open
Cancel


Open TraceDetect Calibration File
Look in: 110906
History
Desktop
My Documents
My Computer
My Network P...
Name
Modified
JHA0M As V.tds 11/9/2006 4:57 PM
JHAW1 4200x As V.tcl 11/9/2006 3:41 PM
JHAW1 MS 4200x As V.tcl 11/9/2006 3:47 PM
JHAW1 MSD 4200x As V.tcl 11/9/2006 3:52 PM
JHAWV 420x As V.tcl 11/9/2006 4:13 PM
JHAX3 As III.tcl 11/9/2006 1:23 PM
JHAX3 As V.tcl 11/9/2006 4:37 PM
LCS As III.tcl 11/9/2006 11:39 AM
LCS As V.tcl 11/9/2006 3:03 PM
LCS2 As III.tcl 11/9/2006 12:28 PM
LCSD As III.tcl 11/9/2006 11:50 AM
LCSD As V.tcl 11/9/2006 3:18 PM
LCSD2 As III.tcl 11/9/2006 1:04 PM
LCSD3 As III.tcl 11/9/2006 2:08 PM
Primary chk AS6073.tds 11/9/2006 10:41 AM
primary.tds 11/9/2006 11:18 AM
rinse.tds 11/9/2006 9:51 AM
File name: JHA0A As V.tcl
Files of type: all files (*.*)
Open
Cancel

TraceDetect Nano-Band Explorer

Sample ID: JHAW1 4200x As V

used 0.01 ml sample + 1.42 ml DI

09/Nov/06 15:40:54

Trace Metals:

As(III+V): 1.23 ppm

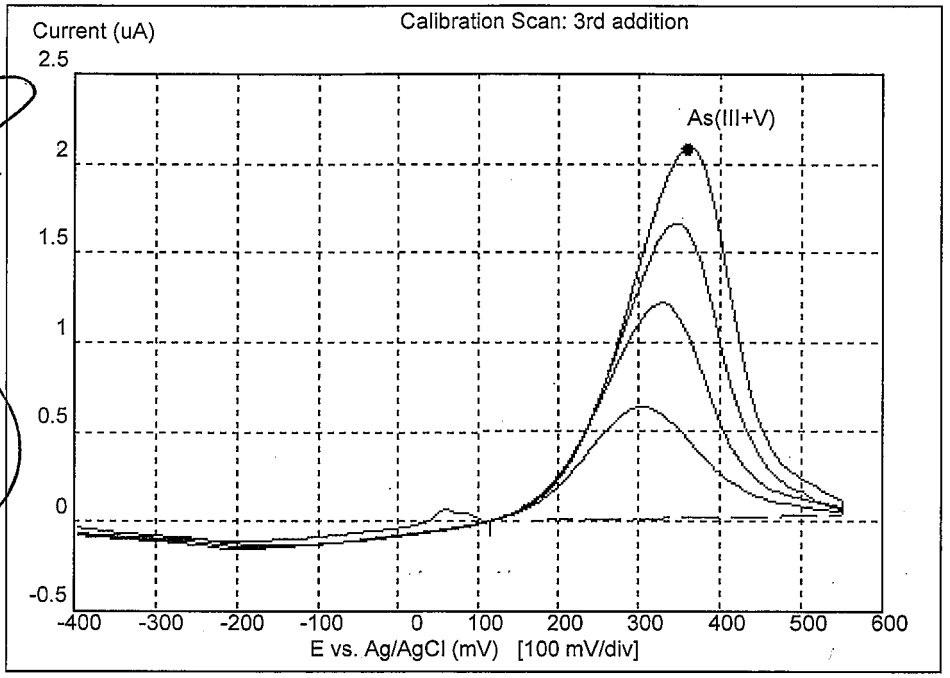
MFer 11/9/06
~~1,839,600~~
12,600 G
~~1,456,900 ppb~~

Temperature:

134,400 X for plate and manual

Input 1:

Input 2:



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	5	Start Voltage (mV):	-400
☑ Background subtraction		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

$As^{III+V} - As^{III} = As^{V}$

MFer 11/9/06

1,839,600 − ~~182,700 = 1,456,900 ppb~~

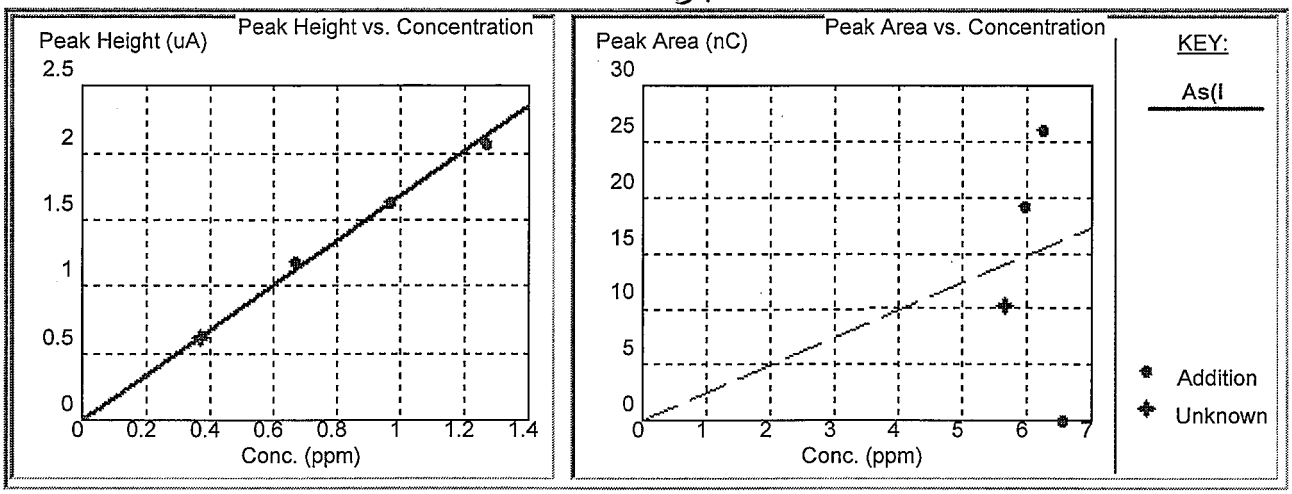
1,827,000 = 12,600 G

4200
x 32
134,400 x dilution

Calibration Summary:

Calibration Date: 09/Nov/06 at 15:41:24

JHAW1 4200X AsV



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III+V)	**Height**	0.995	0.593 ppb/nA	0 ppt	370 ppb	440 ppb
	Area	0.073	404 ppb/nC	0 ppt	5.7 ppm	6.7 ppm

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III+V)	368 ppb	438 ppb	15.0 uL (300 ppb)	15.0 uL (300 ppb)	15.0 uL (300 ppb)	899 ppb

JHAW1 4200X As^{V}

x4200

1,839,600 ppb

Starting Volume:	50.000	mL
Final Volume:	50.045	mL

TraceDetect Nano-Band Explorer

Sample ID: JHAW1 MS 4200x As V

09/Nov/06 15:46:28

Trace Metals:

As(III+V): 2.75 ppm

MFA 11/9/06

~~4,830,000 ppb~~

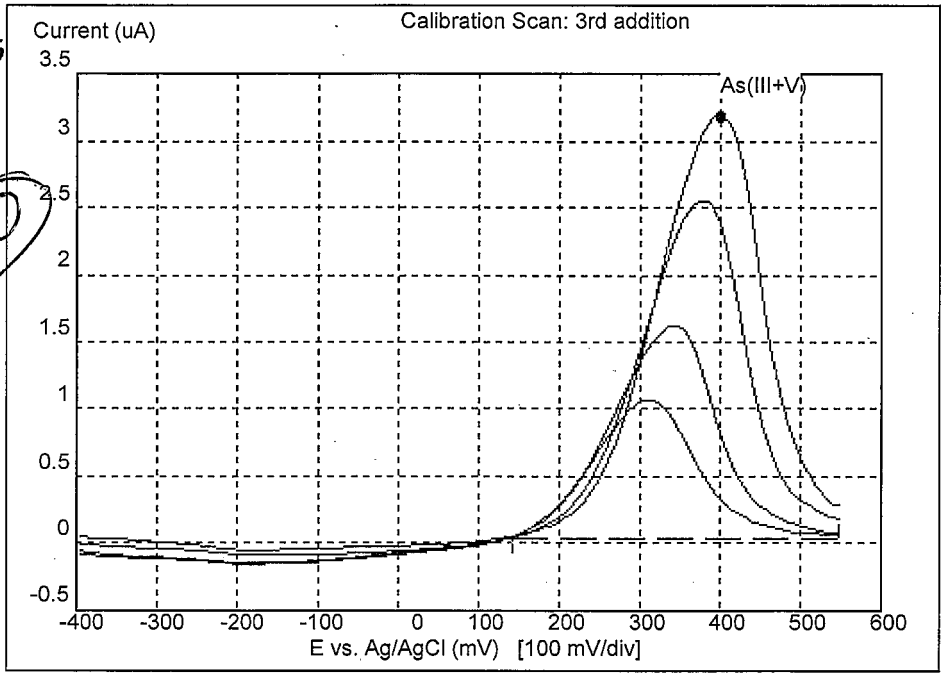
MSB

NC 2587200

Temperature:

Input 1:

Input 2:



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	5	Start Voltage (mV):	-400
☑ Background subtraction		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

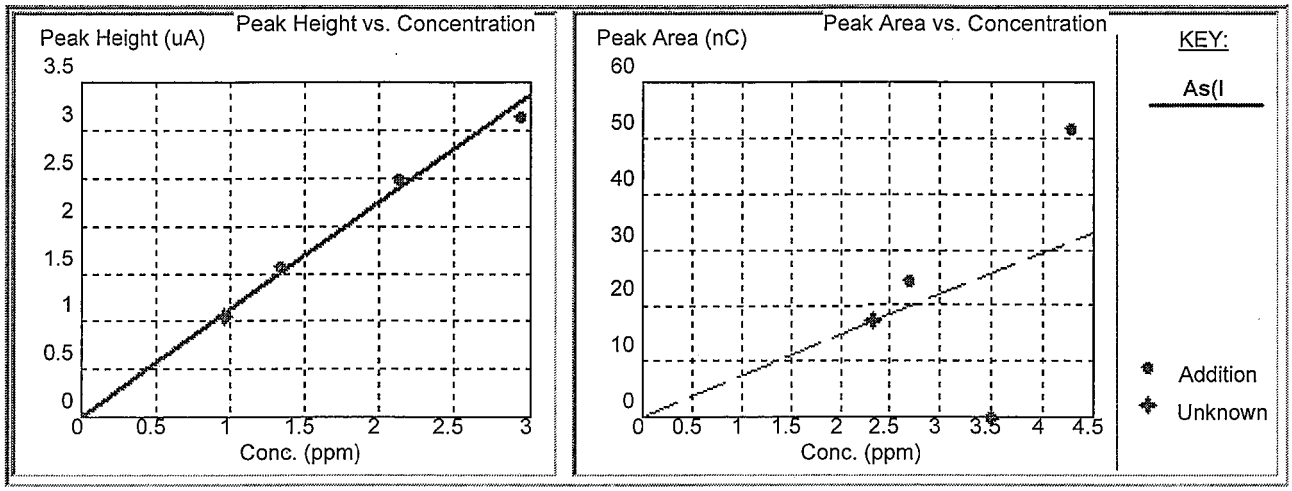
True spike = 84,000 ppb

84,000 x 4 = 336,000 ppb

As^{III+V} 4830000 − As^{III} 2242800 = As^{V} 2,587,200

Calibration Summary:

Calibration Date: 09/Nov/06 at 15:46:57



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III+V)	**Height**	0.988	0.885 ppb/nA	0 ppt	970 ppb	1.2 ppm
	Area	0.262	135 ppb/nC	0 ppt	2.3 ppm	2.8 ppm

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III+V)	969 ppb	1.15 ppm	18.0 uL (360 ppb)	40.0 uL (799 ppb)	40.0 uL (798 ppb)	1.96 ppm

1.15 ppm = 1150 ppb x 4200 = 4,830,000 ppb

MS TV= 84,000

Starting Volume: 50.000 mL

Final Volume: 50.098 mL

TraceDetect Nano-Band Explorer

Sample ID: JHAW1 MSD 4200x As V

Trace Metals

As[III+V]: 1.33 ppm

~~3,007,200 ppb~~

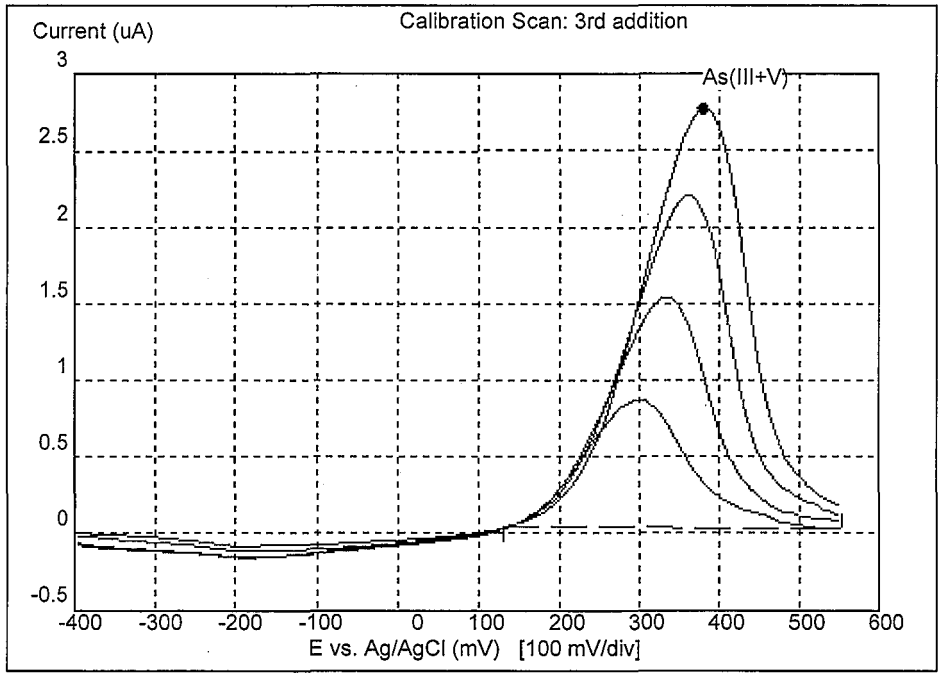
MSB
NC

Temperature: 604800

Input 1:

Input 2:

09/Nov/06 15:51:33



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	5	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

As^{III+V} As^{III}

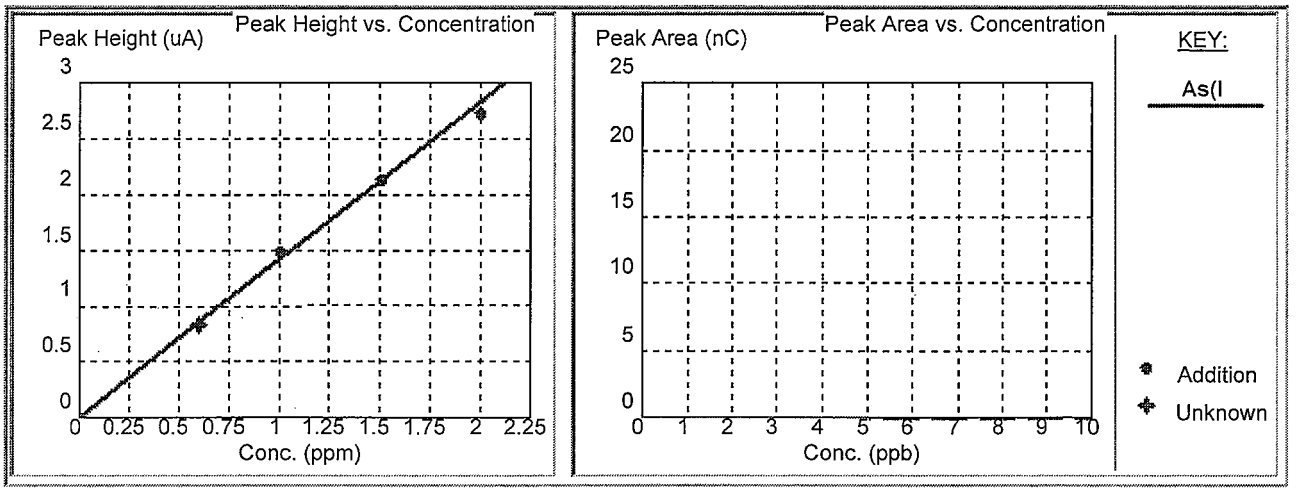
3007200 − 2402400 =

As^{V}

604800

Calibration Summary:

Calibration Date: 09/Nov/06 at 15:52:02



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III+V)	**Height**	0.995	0.706 ppb/nA	0 ppt	600 ppb	720 ppb
	Area	0.549	-120 ppb/nC	0 ppt	-1.8 ppm	-2.1 ppm

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III+V)	602 ppb	716 ppb	20.0 uL (400 ppb)	25.0 uL (500 ppb)	25.0 uL (499 ppb)	1.40 ppm

716 X4200 = 3,007,200 ppb

Starting Volume: 50.000 mL

Final Volume: 50.070 mL

JHAXV

TraceDetect Nano-Band Explorer

Sample ID: ~~JHAWA~~ 420x As V

MEB 11/2/06

Trace Metals:

As(III+V): 206 ppb

ND G

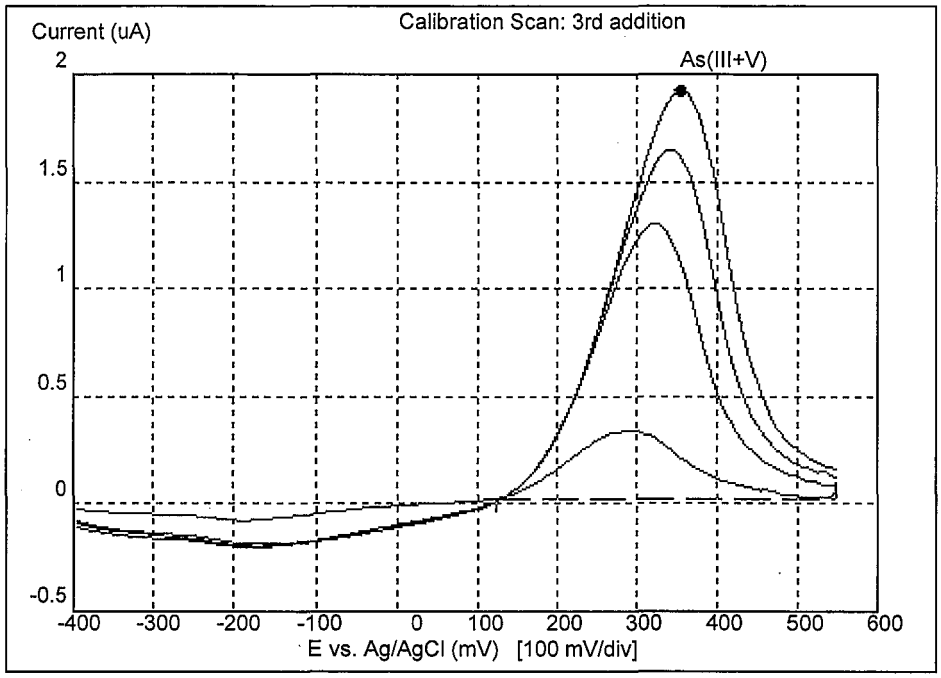
Temperature:

Input 1:

Input 2:

(8400 x dil)

09/Nov/06 16:10:03



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	20	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

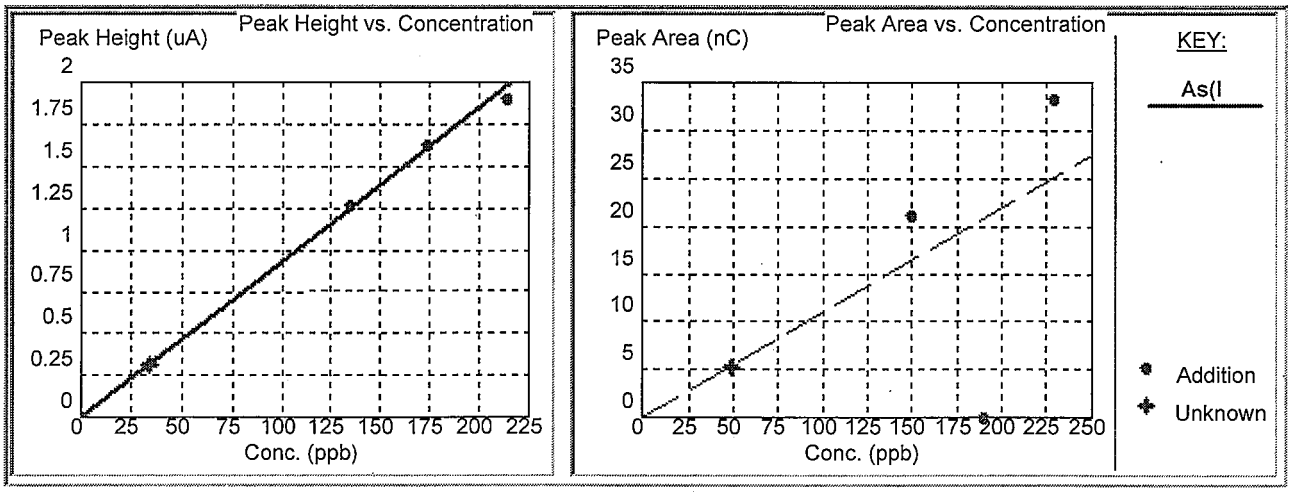
☑ Background subtraction

$As^{III+V} - As^{III} = As^{V}$

16,968 − 24,300 = ND G

Calibration Summary:

Calibration Date: 09/Nov/06 at 16:13:01



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III+V)	**Height**	0.996	0.108 ppb/nA	0 ppt	34 ppb	40 ppb
	Area	0.271	9.10 ppb/nC	0 ppt	49 ppb	58 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III+V)	34.0 ppb	40.4 ppb	5.00 uL (100 ppb)	2.00 uL (40.0 ppb)	2.00 uL (40.0 ppb)	180 ppb

x 420

116,968

Starting Volume: 50.000 **mL**

Final Volume: 50.009 **mL**

TraceDetect Nano-Band Explorer

Sample ID: JHAX3 As V

Trace Metals:

As(III+V): 67.0 ppb

ND G2

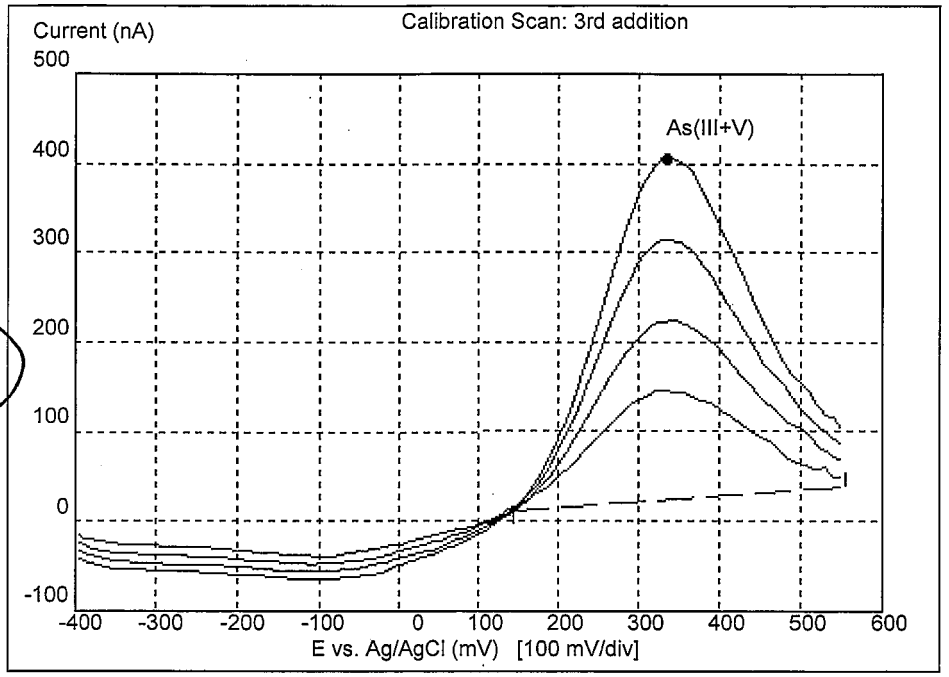
Temperature:

4x for Plate

Input 1:

Input 2:

09/Nov/06 16:34:25



Settings:

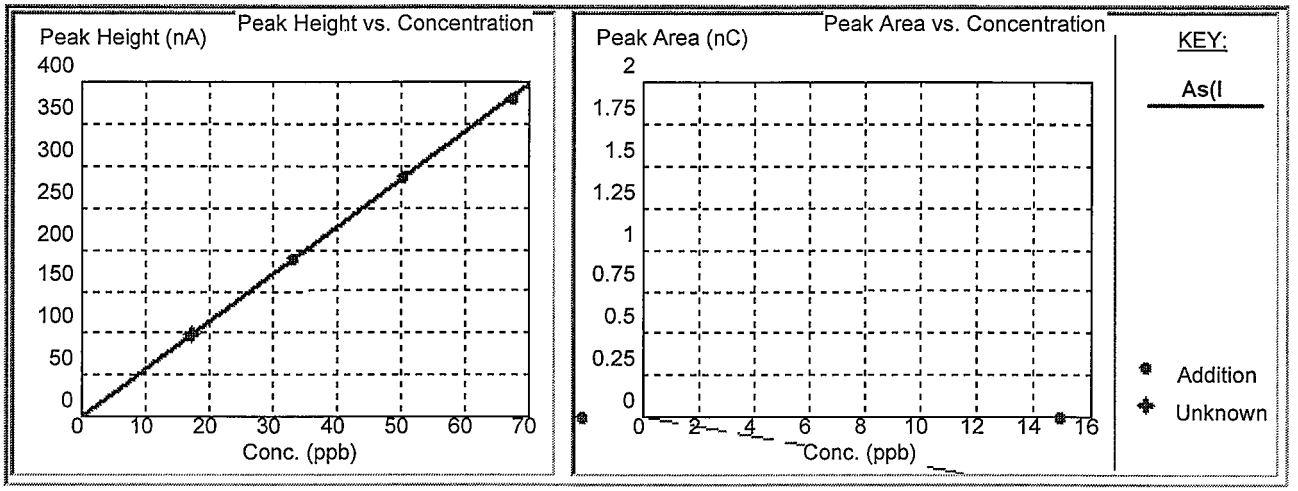
Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
☑ Background subtraction		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

$As^{III+V} - As^{III} = As^{V}$

20.5 − 23.9 = ND G2

Calibration Summary:

Calibration Date: 09/Nov/06 at 16:37:07



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As[III+V]	**Height**	1.000	0.175 ppb/nA	0 ppt	17 ppb	20 ppb
	Area	0.579	-34 ppb/nC	0 ppt	-35 ppb	-42 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III+V)	17.2 ppb	20.5 ppb	800 uL (15.7 ppb)	900 uL (17.4 ppb)	900 uL (17.1 ppb)	50.3 ppb

---

Starting Volume: 50.000 **mL**

Final Volume: 52.600 **mL**

TraceDetect Nano-Band Explorer

Sample ID: JHAQA As V

Trace Metals:

As(III+V): 87.8 ppb

0.4 G

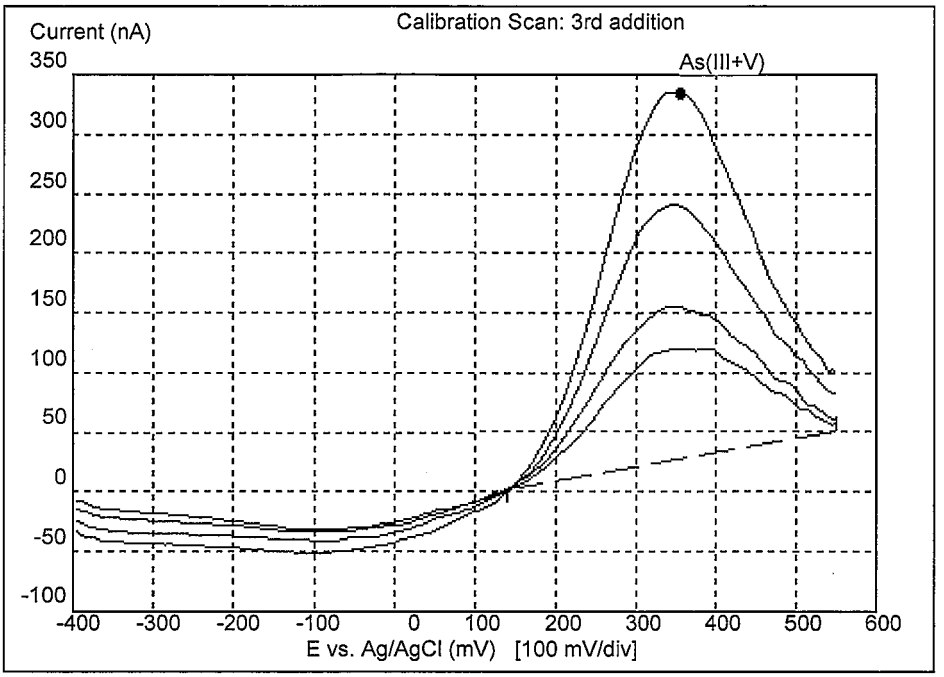
Temperature:

4x for plate

Input 1:

Input 2:

09/Nov/06 16:51:29



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

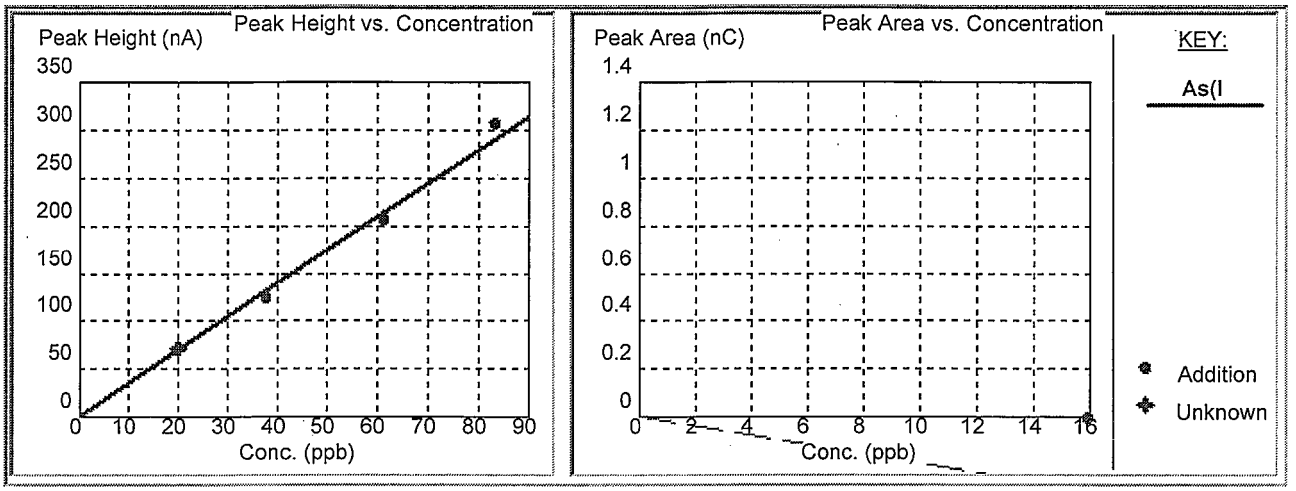
☑ Background subtraction

$As^{V+III} - As^{III} = As^{V}$

$23.9 - 23.5 = 0.4\ G$

Calibration Summary:

Calibration Date: 09/Nov/06 at 16:53:40



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III+V)	**Height**	0.994	0.285 ppb/nA	0 ppt	20 ppb	24 ppb
	Area	0.543	-51 ppb/nC	0 ppt	-47 ppb	-56 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III+V)	20.1 ppb	23.9 ppb	900 uL (17.7 ppb)	1.20 mL (23.0 ppb)	1.20 mL (22.5 ppb)	63.2 ppb

---

Starting Volume: 50.000 mL

Final Volume: 53.300 mL

TraceDetect Nano-Band Explorer

Sample ID: JHA0M As V with 1ppb

Trace Metals:

As(III+V): 2.28 ppb

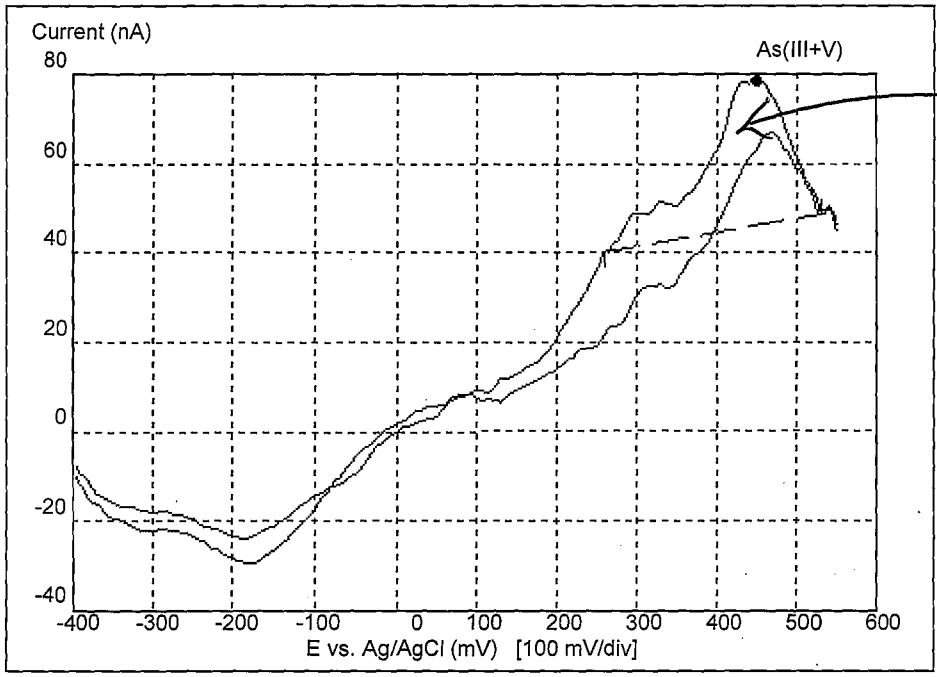
ND

Temperature:

Input 1:

Input 2:

09/Nov/06 16:58:27



1ppb

Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	160	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

TraceDetect Nano-Band Explorer - C:\Program Files\Common Files\AS Temp\110906\Blk As V with 1ppb.tds

Sample ID: Blk As V with 1ppb

Trace Metals:

As(III+V): 976 ppt

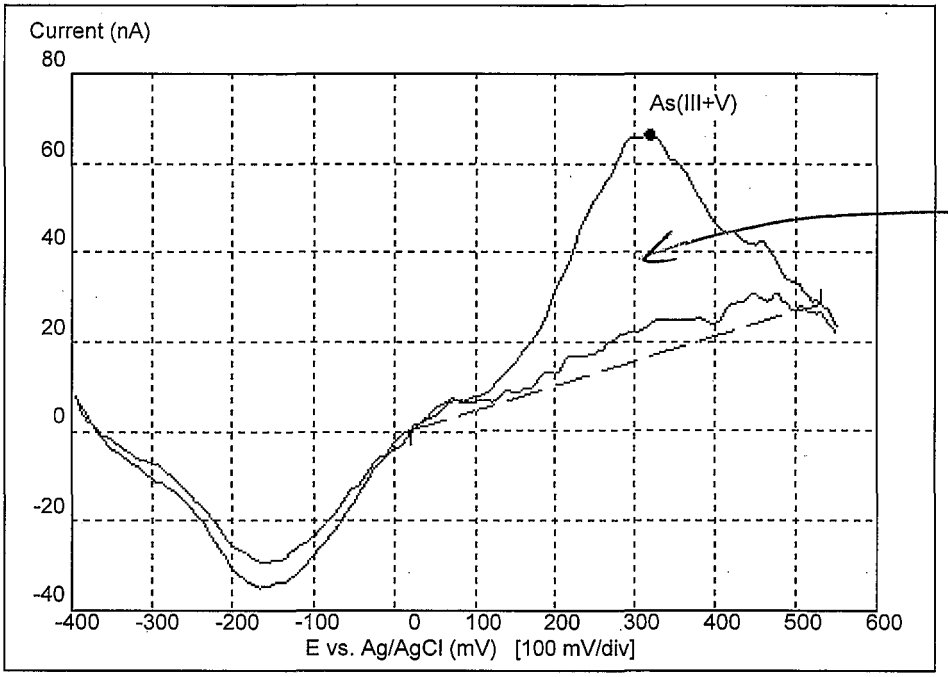
ND

Temperature:

Input 1:

Input 2:

09/Nov/06 14:42:01



1ppb

Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	160	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

TraceDetect Nano-Band Explorer

Sample ID: LCSD As V

Trace Metals:

As[III+V]: 54.0 ppb

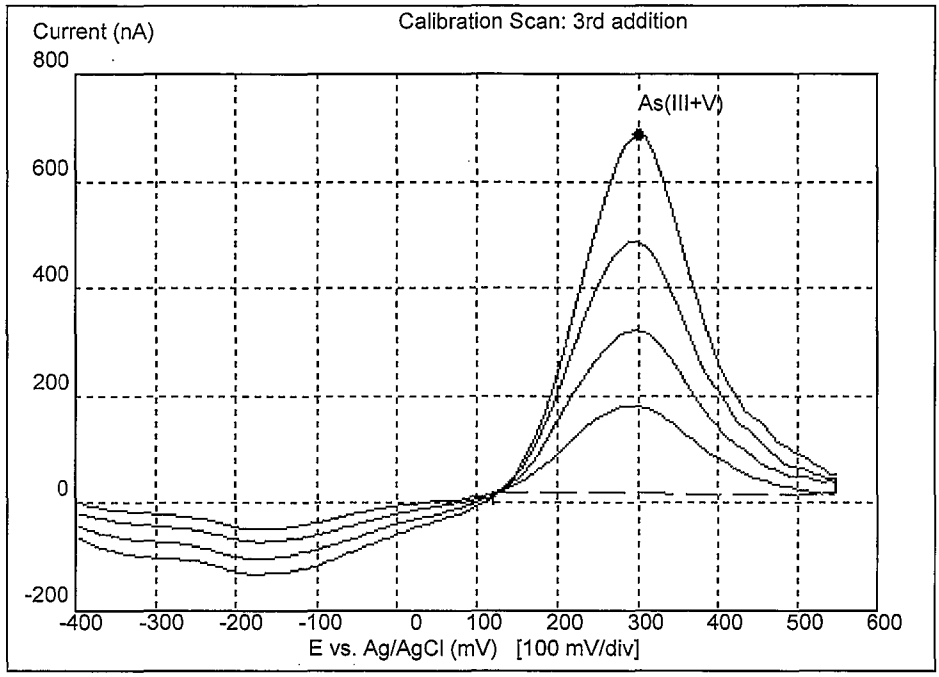
13.2 ppb

Temperature:

Input 1:

Input 2:

09/Nov/06 15:13:08



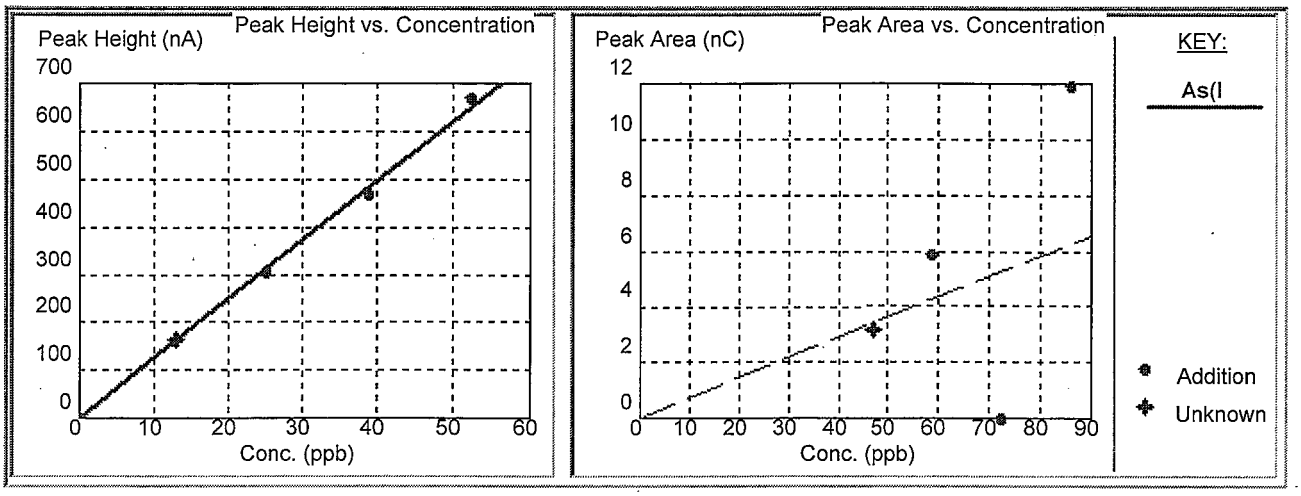
Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Calibration Summary:

Calibration Date: 09/Nov/06 at 15:18:30



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III+V)	**Height**	0.996	0.081 ppb/nA	0 ppt	13 ppb	16 ppb
	Area	0.278	13.7 ppb/nC	0 ppt	47 ppb	56 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III+V)	13.2 ppb	15.7 ppb	600 uL (11.9 ppb)	700 uL (13.6 ppb)	700 uL (13.5 ppb)	39.0 ppb

---

Starting Volume: 50.000 **mL**

Final Volume: 52.000 **mL**

TraceDetect Nano-Band Explorer

Sample ID: LCS As V

Trace Metals:

As(III+V): 46.9 ppb

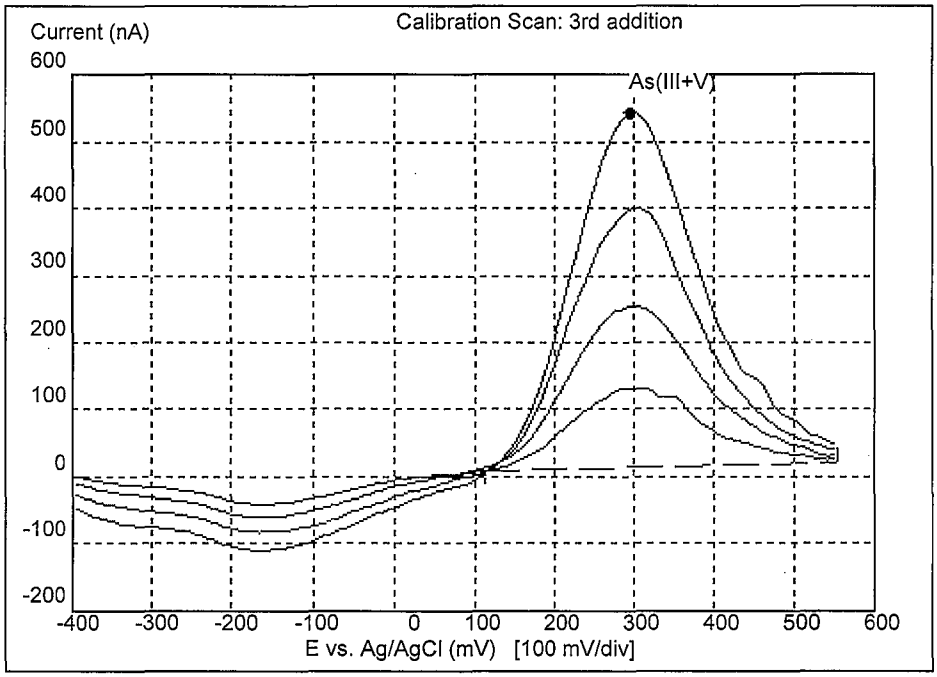
12.3 ppb

Temperature:

Input 1:

Input 2:

09/Nov/06 15:00:11



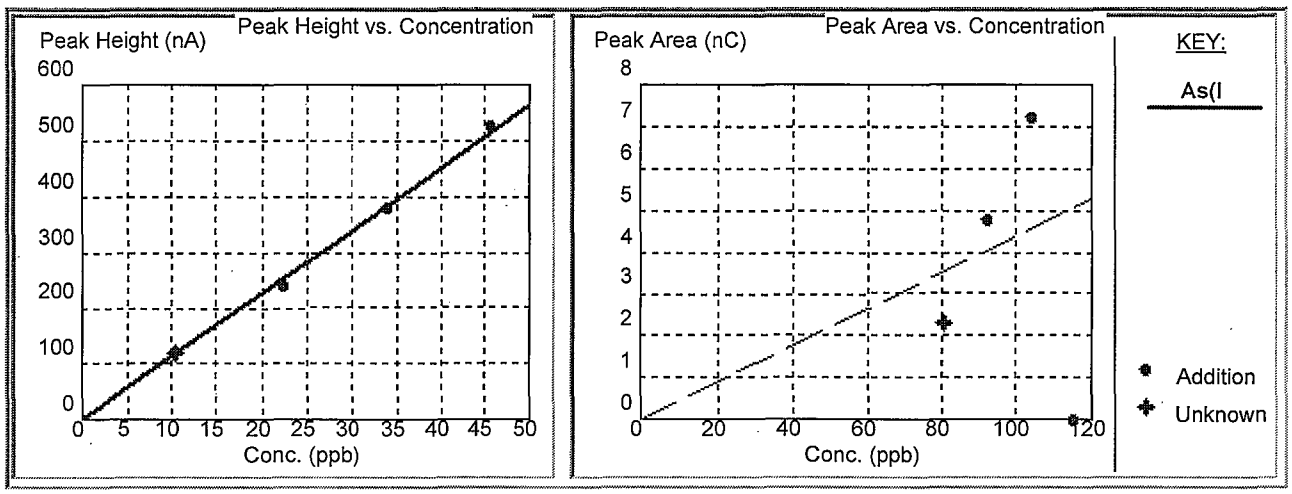
Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Calibration Summary:

Calibration Date: 09/Nov/06 at 15:02:55



Calibration Parameters

Metal	Calib. Mode	Fit Factor	Slope	Zero Offset	Starting Concentration	Concentration in Original Sample
As(III+V)	**Height**	0.998	0.089 ppb/nA	0 ppt	10 ppb	12 ppb
	Area	0.032	22.7 ppb/nC	0 ppt	80 ppb	95 ppb

Selected Calibration M

Addition Data for Method of Standard Additions

Metal	Unknown Concentration	Concentration in original aliquot	1st Addition	2nd Addition	3rd Addition	Total added concentration
As(III+V)	10.3 ppb	12.3 ppb	600 uL (11.9 ppb)	600 uL (11.7 ppb)	600 uL (11.6 ppb)	35.2 ppb

---

Starting Volume: 50.000 **mL**

Final Volume: 51.800 **mL**

Sample ID: secondary

Trace Metals:

As(III): 505 nA

537/505

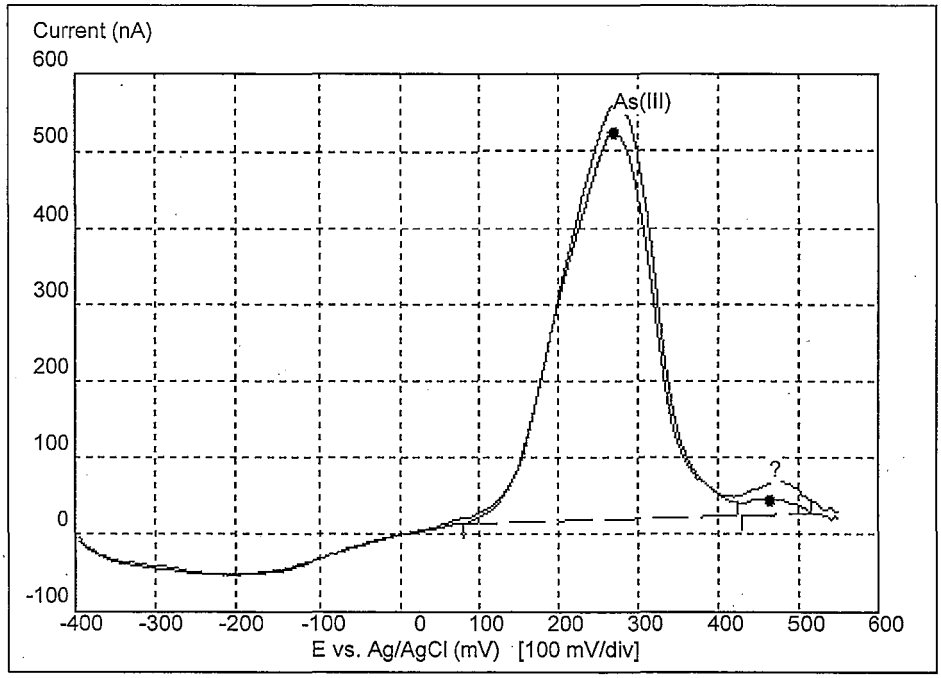
106%

Temperature:

Input 1:

Input 2:

09/Nov/06 11:19:22



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

☑ Background subtraction

Sample ID: primary

Trace Metals:

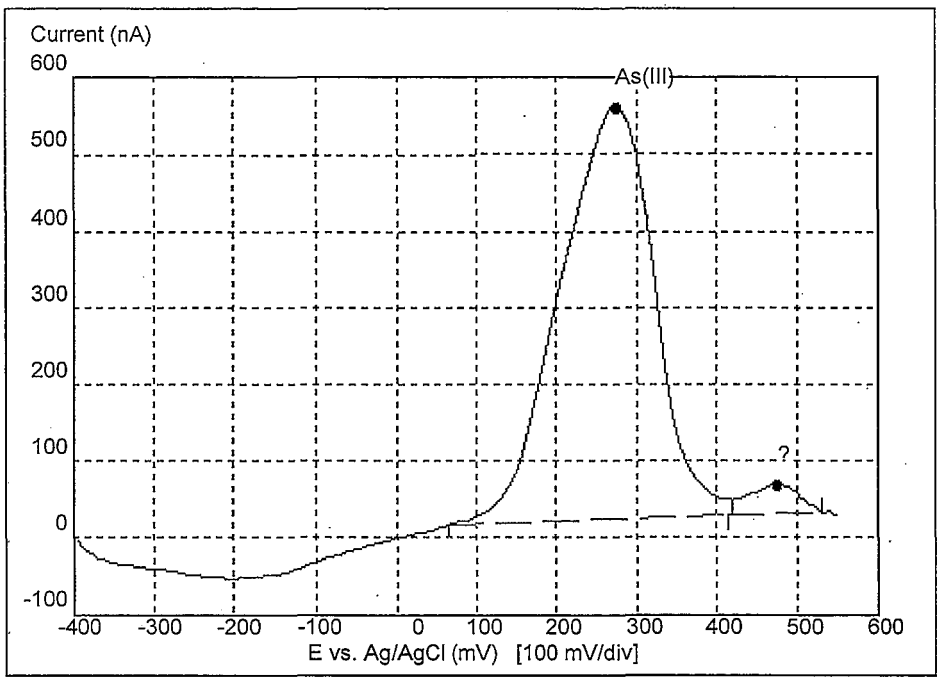
As(III): 537 nA

Temperature:

Input 1:

Input 2:

09/Nov/06 11:17:36



Settings:

Type:	ASV	Clean Time (S)	0.1	Signal Avg.	8
Waveform:	Staircase	Clean Voltage (mV):	600	Frequency (Hz):	2000
Cell	Three Electrode	Plate Time (S)	40	Start Voltage (mV):	-400
		Plate Voltage (mV)	-400	Stop Voltage (mV):	550
		Range (uA):	12.5	Step Voltage (mV):	5

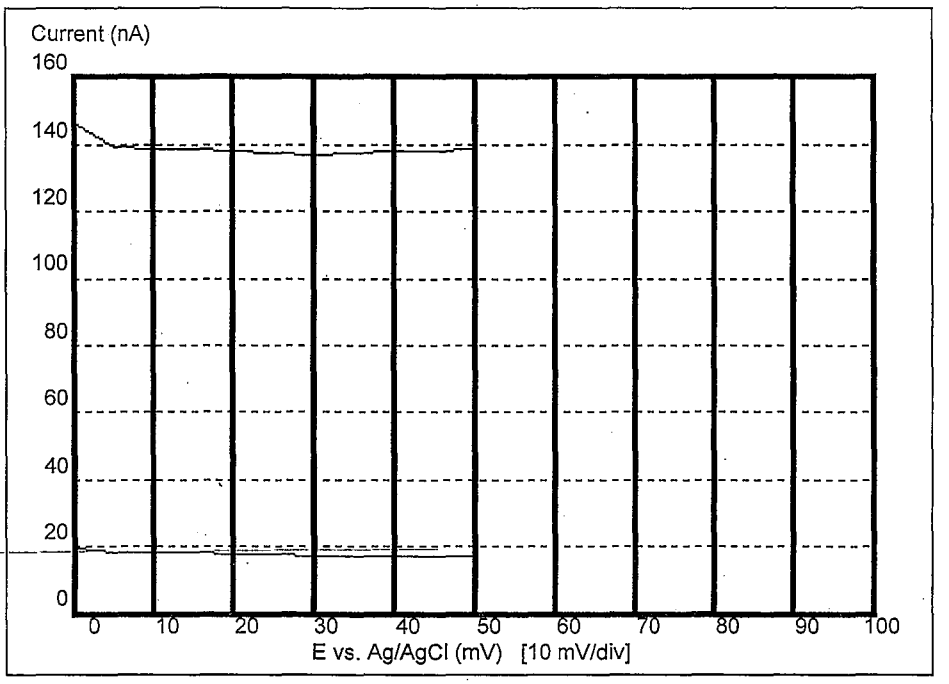
☑ Background subtraction

Sample ID: Au plate WR61235

Trace Metals:

As(III): 92.7 nA

09/Nov/06 11:13:33



Temperature:

Input 1:

Input 2:

Settings:

Type:	ASV	Clean Time (S)	0	Signal Avg.	16
Waveform:	Sq. Wave	Clean Voltage (mV):	100	Frequency (Hz):	1000
Cell	Three Electrode	Plate Time (S)	55	Start Voltage (mV):	-50
		Plate Voltage (mV)	-50	Stop Voltage (mV):	5
		Range (uA):	1.25	Step Voltage (mV):	5

☐ Background subtraction

STL North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A6J260219	1		JHAW11AA	Arsenic (III) Speciation by ASV	11/08/06	Melissa Fuller-Gustavel	11/08/06	Melissa Fuller-Gustavel
A6J260219	1		JHAW11AE	Arsenic (V) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	1	S	JHAW11AC	Arsenic (III) Speciation by ASV	11/08/06	Melissa Fuller-Gustavel	11/08/06	Melissa Fuller-Gustavel
A6J260219	1	S	JHAW11AF	Arsenic (V) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	1	D	JHAW11AD	Arsenic (III) Speciation by ASV	11/08/06	Melissa Fuller-Gustavel	11/08/06	Melissa Fuller-Gustavel
A6J260219	1	D	JHAW11AG	Arsenic (V) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	2		JHAXV1AA	Arsenic (III) Speciation by ASV	11/08/06	Melissa Fuller-Gustavel	11/08/06	Melissa Fuller-Gustavel
A6J260219	2		JHAXV1AC	Arsenic (V) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	3		JHAX31AA	Arsenic (III) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	3		JHAX31AC	Arsenic (V) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	4		JHA0A1AA	Arsenic (III) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	4		JHA0A1AC	Arsenic (V) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	5		JHA0M1AA	Arsenic (III) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel
A6J260219	5		JHA0M1AC	Arsenic (V) Speciation by ASV	11/09/06	Melissa Fuller-Gustavel	11/09/06	Melissa Fuller-Gustavel

SEVERN TRENT STL

END OF REPORT

Arsenic Speciation Results for CH2M HILL
Project Number: 332898.QT.30.32
SDG: C070328
Contact: Amy Klopper

Date: April 12, 2007
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 3/27/2007 Date Received: 3/28/2007

Field Sample ID
SS-1 ASC-B-371

Laboratory Sample ID
SS-1 ASC-B-371

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
As(III)	EPA6800	4/11/2007	25	0.26	1.3	7.5
As(V)	EPA6800	4/11/2007	25	0.32	1.3	3.0

All results are reported in μg/L and reflect the applied dilution unless otherwise specified

Arsenic Speciation Results for CH2M HILL
Project Number: 332898.QT.30.32
SDG: C070328
Contact: Amy Klopper

Date: April 12, 2007
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 3/27/2007 Date Received: 3/28/2007

Field Sample ID
SS-2 ASC-B-317

Laboratory Sample ID
SS-2 ASC-B-317

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
As(III)	EPA6800	4/11/2007	25	0.26	1.3	110
As(V)	EPA6800	4/11/2007	25	0.32	1.3	15.9

All results are reported in μg/L and reflect the applied dilution unless otherwise specified

Arsenic Speciation Results for CH2M HILL
Project Number: 332898.QT.30.32
SDG: C070328
Contact: Amy Klopper

Date: April 12, 2007
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 3/27/2007 Date Received: 3/28/2007

Field Sample ID
P-1 ASC-B-958

Laboratory Sample ID
P-1 ASC-B-958

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
As(III)	EPA6800	4/11/2007	10000	100	500	5880
As(V)	EPA6800	4/11/2007	10000	130	500	14900

All results are reported in μg/L and reflect the applied dilution unless otherwise specified

Arsenic Speciation Results for CH2M HILL
Project Number: 332898.QT.30.32
SDG: C070328
Contact: Amy Klopper

Date: April 12, 2007
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*	eMDL 25x*	eMDL 10000x	RL 25x	RL 10000x
As(III)	0.006	0.007	0.007	0.004	0.006	0.001	0.010	0.26	100	1.3	500
As(V)	0.040	0.031	0.020	0.016	0.026	0.011	0.013	0.32	130	1.3	500

eMDL = Estimated Method Detection Limit
*Please see narrative regarding eMDL calculations

Quality Control Summary - Laboratory Control Sample

Analyte (µg/L)	LCS	True Value	Result	Recovery
As(III)	ICV	5.000	4.531	90.6
As(V)	ICV	5.000	5.669	113.4

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Rep 1	Rep 2	Mean	RPD
As(III)	P-1 ASC-B-958	5880	5696	5788	3.2
As(V)	P-1 ASC-B-958	14890	14290	14590	4.1

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
As(III)	P-1 ASC-B-958	20000	24050	91.3	20000	24590	94.0	2.2
As(V)	P-1 ASC-B-958	20000	33480	94.5	20000	33240	93.3	0.7

Arsenic Speciation Results for CH2M HILL
Project Number: 332898.QT.30.32
SDG: C070328
Contact: Amy Klopper

Date: April 12, 2007
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Initial and Continuing Calibration Verification Standards

Analyte (µg/L)	ICV	True Value	Recovery	CCV1	True Value	Recovery	CCV2	True Value	Recovery
As(III)	4.53	5.00	90.6	1.865	2.000	93.3	1.844	2.000	92.2
As(V)	5.67	5.00	113.4	2.040	2.000	102.0	1.974	2.000	98.7

Quality Control Summary - Initial and Continuing Calibration Blanks

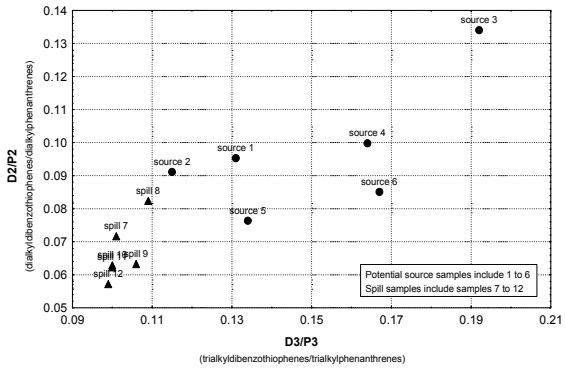
Analyte (µg/L)	ICB	CCB1	CCB2
As(III)	0.033	0.014	0.014
As(V)	0.216	0.085	0.056

Environmental Forensic Report

Quanta Resources (Edgewater)

SDG: CH070223

Figure 1. Double Ratio Plot



Report To:

CH2M Hill
3011 S.W. Williston Rd.
Gainesville, FL 32608-3928

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

March 19, 2007

Identifying and allocating sources of pollutants in complex environments.

META Environmental, Inc.
ENGINEERING & CHEMISTRY

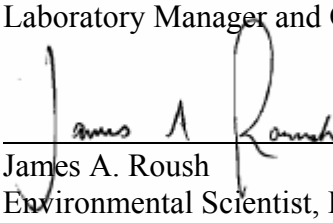
Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

Phone: 617-923-4662
Fax: 617-923-4610
E-Mail meta@metaenv.com

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. The results included in this data report relate only to the samples as received and analyzed by the laboratory. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.



James A. Roush
Environmental Scientist, Laboratory Manager

March 20, 2007
Date

David M. Mauro
Senior Scientist, Quality Assurance Officer

March 20, 2007
Date

Sample Delivery Group Narrative

Project:	Quanta Resources (Edgewater)
	CH2M Hill 3011 S.W. Williston Rd. Gainesville, FL 32608-3928
Report Contact:	Amy Klopper
Dates of Receipt:	February 23, 2007
Sample Summary:	The samples received for this project are summarized in the attached sample login forms.
META Project Number:	C01007
SDG No.:	CH070223
Total Pages in Report:	86

Chain of Custody

The samples were received in good condition. The internal temperature of the shipment container was as follows:

Samples received: 3.9°C

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

Methods

The soil samples were prepared by solvent extraction (EPA 3570) using dichloromethane (DCM). The extracts were spiked with internal standard and analyzed as outlined in the proposal dated February 21, 2007 for the following parameters; by GC/FID (EPA 8100M) for fingerprinting; by GC/MS (EPA 8270M) for EPA 8270 TCL compounds, polycyclic aromatic hydrocarbons (PAHs), alkyl PAH homologues and other selected compounds; and by GC/MS/SIM (EPA 8270M) for petroleum biomarkers.

Results

Sample results are presented in summary forms (CLP Form 1 equivalent) in Appendix C and Appendix D, which follow this narrative.

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

The soil samples were extracted within holding times. The samples and extracts were stored at 4°C ± 2°C prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

Surrogate Spikes

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion with the following exceptions; 2-fluorophenol, phenol-d5 and 2,4,6-tribromophenol were diluted outside of the working range of the calibration in sample *PP-P1 (4.5-5.5) PP-P1-5.0-022207* and the duplicate of that sample. Three surrogate compounds were recovered at acceptable levels in both extracts, suggesting the

extraction efficiency was acceptable. {What about the surrogates in the biomarkers analysis?}.

Blanks
No compounds were detected in either of the soil blanks.

Blank Spikes
A blank spike was extracted with the SVOC soil batch. All spiked compounds were recovered within acceptable laboratory criteria.

Matrix Spikes
A matrix spike and matrix spike duplicate were performed on sample *PP-P2 (2.5-3.5) PP-P2-3.0-022207*. Percent recoveries are reported with the concentration data in Appendix C.

Duplicates
Sample *PP-P2 (4.5-5.5) PP-P1-5.0-022207* was extracted and analyzed in duplicate. Relative percent differences (RPDs) are reported with the concentration data in Appendix C.

Internal Standards
Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

Interpretation

PP-P1 (4.5-5.5) PP-P1-5.0-022207

Sample *PP-P1 (4.5-5.5) PP-P1-5.0-022207* contained a mixture of pyrogenic and petrogenic materials (see definitions). The pyrogenic material was indicated by a wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs) with the 2, 3 and 4 ring PAHs dominant (Appendix B). The lower abundance of naphthalene relative to the heavier PAHs suggests that this material has experienced moderate weathering or is a coal tar distillation product such as creosote or middle coal tar distillate.

The ratio of fluoranthene to pyrene (F/P – Table 1) as well as the double ratio plots of dibenzofuran/fluorene (D/F) to F/P (Figure 1) and benzofluorenes/methylpyrenes (BF/MP) to F/P (Figure 2) shows that this sample is similar to coal carbonization tars, including some coke oven tars and creosote. The specific coal tar product could not be identified with the available data.

The petrogenic material was of a much lower concentration relative to the pyrogenic component, and was indicated by an unresolved complex mixture (UCM) that eluted from about 15 minutes

(C10 – decane) to the end of the GC/MS/SIM extracted ion chromatogram (Appendix E – Ion 85) with a maximum at about 40 minutes (C26 – hexacosane). The presence of multiple petroleum biomarker classes indicates that this material was produced from petroleum. The lack of normal alkanes indicates that this material has also been subject to extensive weathering.

While the sesqueterpane class of biomarkers (Appendix E - Ion 123) are commonly found in diesel fuel, the tri(terpane) and sterane classes are not. About 27 parts per million of total combined triterpanes and steranes were detected in this sample suggesting that a higher molecular weight oil is present.

Due to the relatively low level of material present, and the highly weathered state, it is not possible to definitively identify this material, but it appears to be a highly weathered blended oil such as a #4 fuel oil. Some #6 residual fuel oil formulations have similar characteristics as well. Also possible is that more than one petrogenic material is present creating an artificially blended petroleum pattern.

PP-P2 (2.5-3.5) PP-P2-3.0-022207

Sample *PP-P2 (2.5-3.5) PP-P2-3.0-022207* contained a mixture of pyrogenic and petrogenic materials similar to those in sample *PP-P1 (4.5-5.5) PP-P1-5.0-022207*, with differences in weathering levels. Naphthalene and phenanthrene are present at much higher levels relative to the heavier PAHs suggesting that the pyrogenic material is not substantially weathered. Similarly, there is a Gaussian distribution of normal alkanes in Appendix E with an estimated C17/pristane ratio of ~2, indicating the petrogenic material is also relatively unweathered.

Of note it the much lower level (~4 ppm) of detectable terpanes and steranes, suggesting the petrogenic material is composed mostly of middle distillate, with very little residual oil present. This evidence supports the idea that more than one petroleum product forms the petrogenic component found in sample *PP-P1 (4.5-5.5) PP-P1-5.0-022207.*

PP-P3 (3.5-4.5) PP-P3-4.0-022207

Sample *PP-P3 (3.5-4.5) PP-P3-4.0-022207* is very similar to sample *PP-P2 (2.5-3.5) PP-P2-3.0-022207* in composition, but appears to be more weathered as can be seen by the relative height of naphthalene to phenanthrene.

Terpane and sterane levels are about 20 ppm in this sample indicating a greater contribution of residual oil to the overall petrogenic signature.

Discussion

All three samples show similar pyrogenic characteristics in both the GC/FID fingerprints (Appendix B) and the diagnostic ratios (Table 1). For example, the average of the fluoranthene/pyrene source

indicating ratios was 1.27 with a tight percent relative standard deviation (RSD) of 2.8%. The grouping of these samples in Figure 1 and 2 are also relatively tight. The pyrogenic material in these samples appears to come from the same source. Variations in the dibenzofuran/fluorene and benzofluorenes/methylpyrenes ratios are likely due to differences in the degree of weathering, batch to batch differences in the pyrogenic material, and/or the presence of petroleum which can skew these supporting source ratios.

The petrogenic component(s) of these samples show less similarity in some source ratios; the C2-dibenzothiophenes/C2-phenanthrenes/anthracenes for example which have an RSD of 55.9 due to the elevated ratio of sample *PP-P3 (3.5-4.5) PP-P3-4.0-022207*. This high RSD may be due the high level of pyrogenic PAHs influencing the ratios as well as the varying amount of residual oil contribution each sample was exposed to. The lower molecular weight petroleum distillate in these samples, of which sample *PP-P1 (4.5-5.5) PP-P1-5.0-022207* contains the least, appears similar and is likely from the same source. The higher molecular weight residual oil may be a separate point source, but could also be a contribution of urban runoff; it is not possible to determine with the current data set.

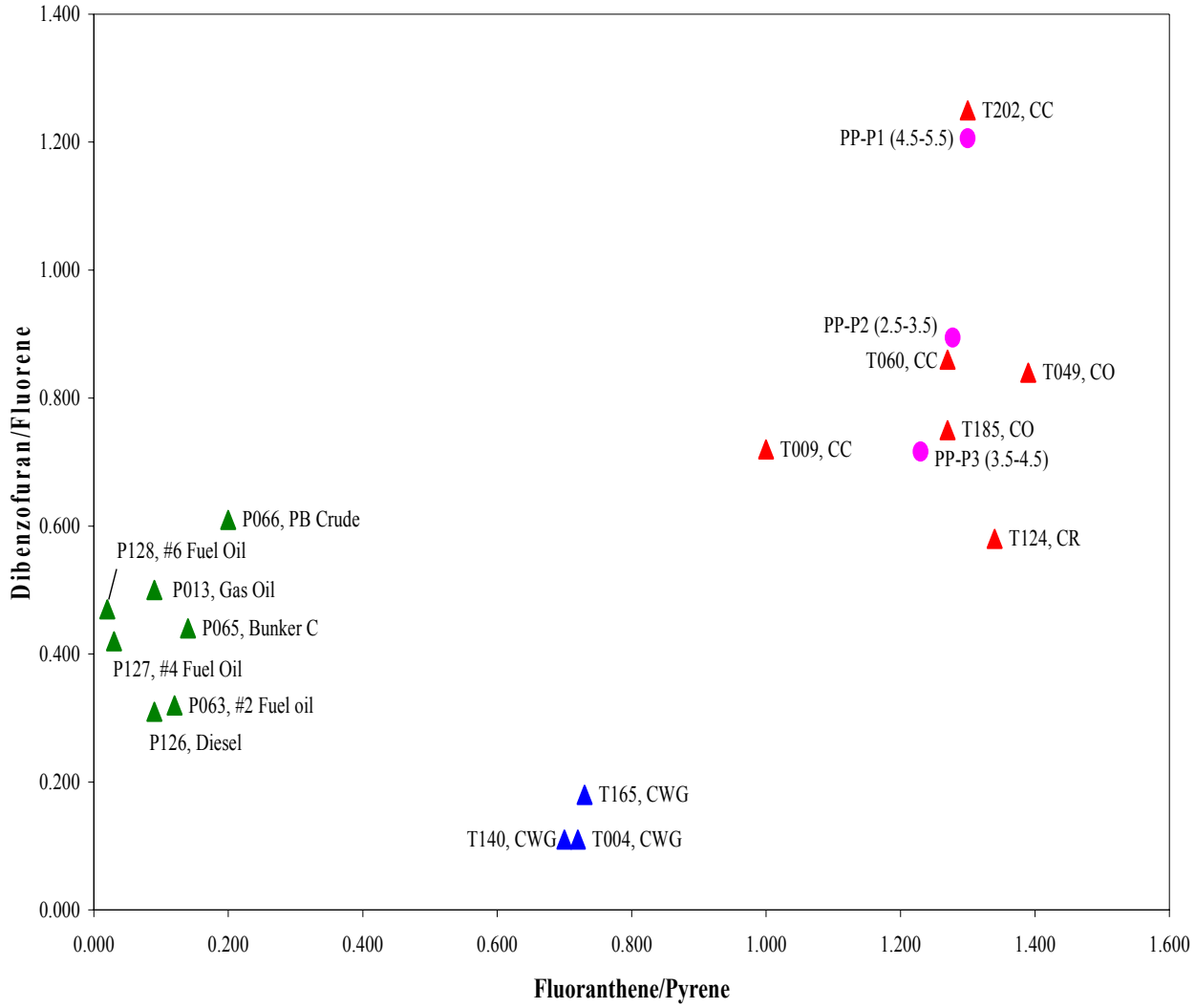
Table 1. Selected Source and Weathering Ratios

	Fl/Py	D/F	C3D/C3PA	C2D/C2PA	BF/MP
PP-P1 (4.5-5.5)	1.300	1.206	NC	0.185	0.911
PP-P2 (2.5-3.5)	1.278	0.895	0.279	0.171	0.703
PP-P3 (3.5-4.5)	1.230	0.716	0.599	0.432	0.649

Ratios:

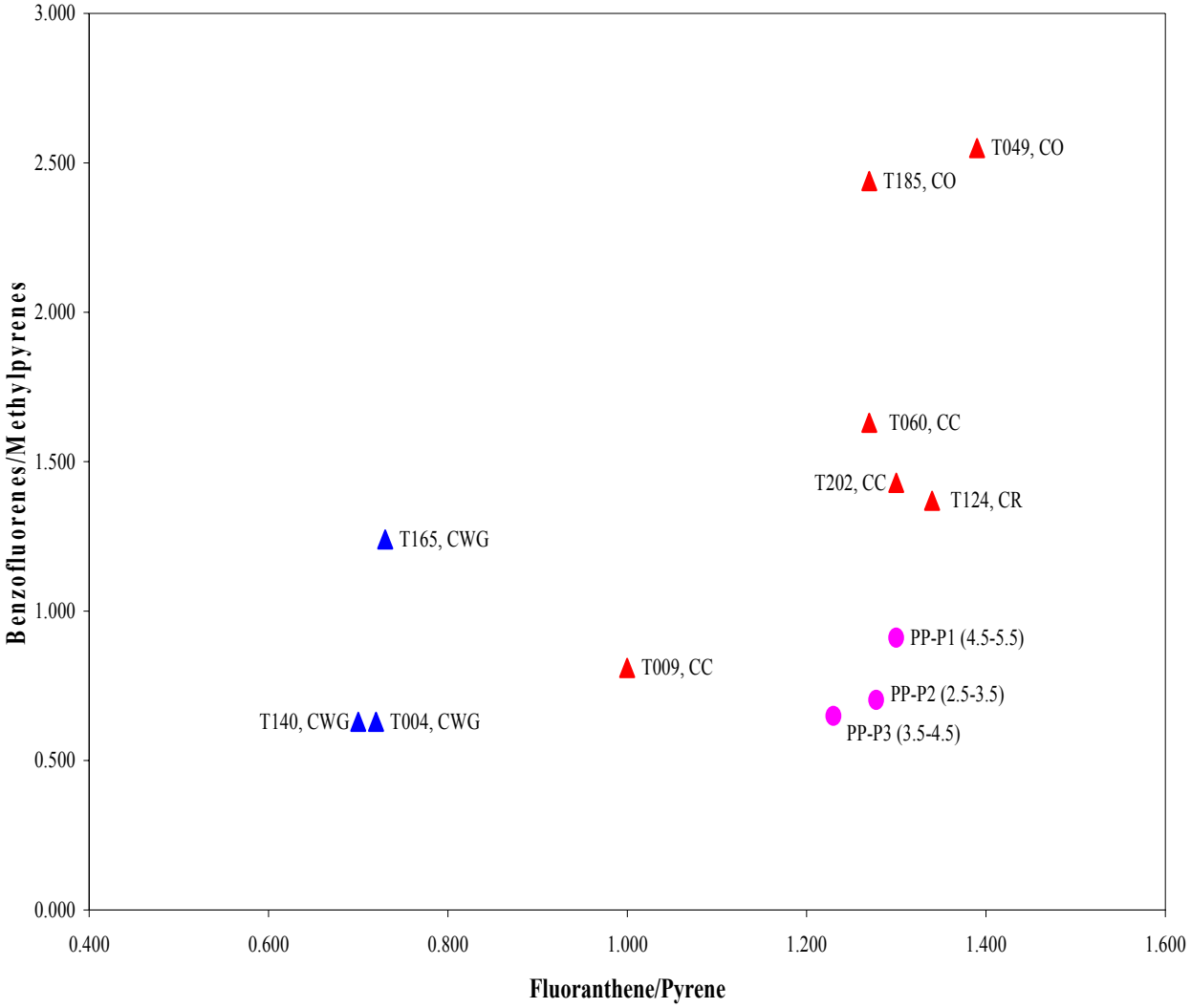
Fl/Py	fluoranthene/pyrene
D/F	dibenzofuran/fluorene
C17/Pris	heptadecane/pristane
C18/Phy	octadecane/phytane
Pris/Phy	pristane/phytane
C3D/C3PA	trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes
C2D/C2PA	dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes
BF/MP	benzofluorenes/methylpyrenes
NC	Not calculable

Figure 1. Selected Diagnostic Ratios – Fl/Py v. D/F



TXXX	Tar Sample from META's in house source library
CC	Coal Carbonization Tar
CO	Coke Oven Tar
CWG	Carbureted Water Gas Tar
●	Field Samples

Figure 2. Selected Diagnostic Ratios – Fl/Py v. BF/MP



TXXX	Tar Sample from META's in house source library
CC	Coal Carbonization Tar
CO	Coke Oven Tar
CWG	Carbureted Water Gas Tar
●	Field Samples

Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

References

1) Christensen, L.B. and T.H. Larsen. "Method for determining the age of diesel oil spills in the soil." Ground Water Monitoring and Remediation, 13(4): 142-149, 1993.
2) Kaplan, I.R., Y. Galperin, H. Alimi, R. Lee, and S. Lu. "Patterns of chemical changes during environmental alteration of hydrocarbon fuels." Ground Water Monitoring and Remediation, 16(4): 113-125, 1996.
3) Schmidt, G.W. "Forensic petroleum hydrocarbon fingerprinting and age of release developments." Hydrocarbon Pattern Recognition and Dating Conference, University of Wisconsin-Madison, Nov. 1997.
4) McNicoll, D., Tousignant, L.P., Augustine, P. "Facts and Fallacies: Petroleum Degradation in a Subsurface Environment." Contaminated Soil Sediment and Water, 17-21, June,July 2001
5) "Chemical Fingerprinting of Hydrocarbons," in: Introduction to Environmental Forensics. B.L. Murphy and R.D. Morrison editors, Academic Press, San Diego, CA 2002.
6) Hurst, Richard W. and Schmidt, Gene W. "Age Significance of nC17/Pr Ratios in Forensic Investigations of Refined Product and Crude Oil Releases," Environmental Geosciences, 12(3): 177-192, 2005.
7) Mauro, D.M., "Chemical Source Attribution at former MGP Sites," EPRI Report 1000728, December 2000.

Appendix A
Chains of Custody

META Environmental, Inc
49 Clarendon Street
Watertown, MA 2472

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39134.44036
COC#	30916-022207-SOIL
Lab Proj # (SDG):	
Lab ID	META
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell
Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Quanta Resources (Edgewater)
Phase:
Location of Site: Edgewater, NJ
Sampling Program: Quanta 2006 OU1 SI

Sampling Co.: CH2M HILL
EDD To: amy.klopper@ch2m.com, john.mitchell@ch2m.com
Client Contact: (name, co., address)
Jennifer Simms
1717 Arch Street, Suite 4400
Philadelphia, PA 19103
Sampler: Stokes/Simms
PO #
Analysis Turnaround Time (TAT): 10
Consultant: CH2M
Full Report TAT:
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road,
Invoice To: jennifer.simms@ch2m.com

Preservative: 1

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strictly prohibited.

	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	PAH Fingerprinting	Sampling Method (code)	Lab Sample Numbers
											Units				
1	PP-P1	4.5	5.5	PP-P1-5.0-022207	02/22/07	1300	SS	SOIL	REG	1	G	N	X	CH070223	-01
2	PP-P2	2.5	3.5	PP-P2-3.0-022207	02/22/07	1345	SS	SOIL	REG	1	G	N	X	↓	-02
3	PP-P3	3.5	4.5	PP-P3-4.0-022207	02/22/07	1500	SS	SOIL	REG	1	G	N	X	↓	-03
4															
5															
6															
7															
8															
9															
10															
11															
12															

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
Jen Simms	CH2M HILL	02/22/07 1600	Laurie A Tarakin		2/23/07 300pm		3.9°C	
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact

Preservatives: (Other; Specify): 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

Samples recvd in good condition w/ ice present

META Environmental, Inc.

Sample Receipt Log

Lab ID	Field ID	Matrix	Prep Method	Cleanup Method	Analysis Method	Date Sampled	Date Received	Project #	Container	Comments	Client Name	Project Name
CH070223-01	PP-P1 (4.5-5.5) PP-P1-5.0-022207	Soil	2508		4007/4008	2/22/2007	2/23/2007	C01007-60	1 x 16 oz jar		CH2M Hill	Quanta
CH070223-02	PP-P2 (2.5-3.5) PP-P2-3.0-022207	Soil	2508		4007/4008	2/22/2007	2/23/2007	C01007-60	1 x 16 oz jar		CH2M Hill	Quanta
CH070223-03	PP-P3 (3.5-4.5) PP-P3-4.0-022207	Soil	2508		4007/4008	2/22/2007	2/23/2007	C01007-60	1 x 16 oz jar		CH2M Hill	Quanta

Logged By: [signature]

Date: 2/27/07

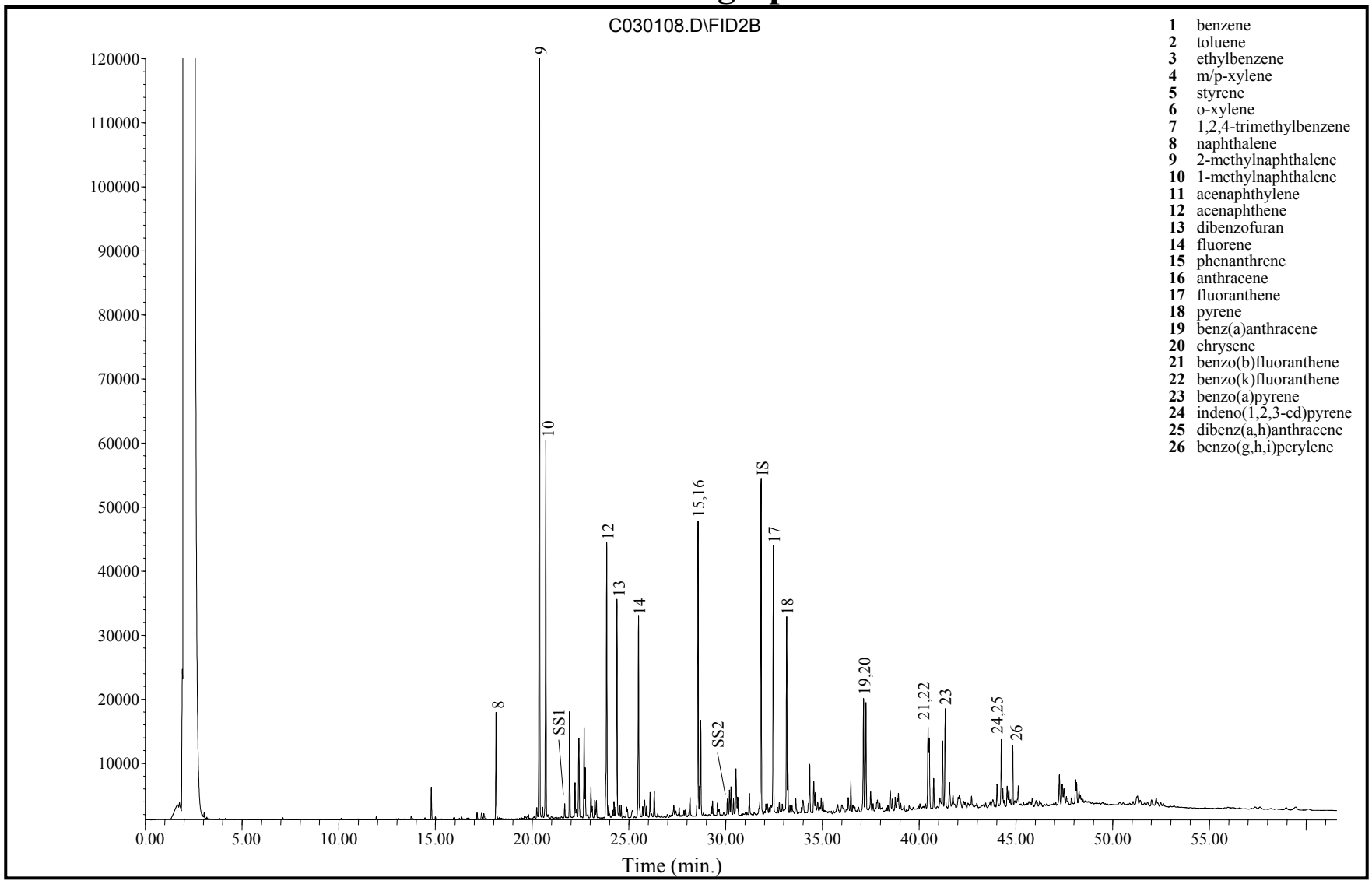
Reviewed By: [signature]

Date: 2/26/07

Appendix B

GC/FID Fingerprints

GC/FID Fingerprint



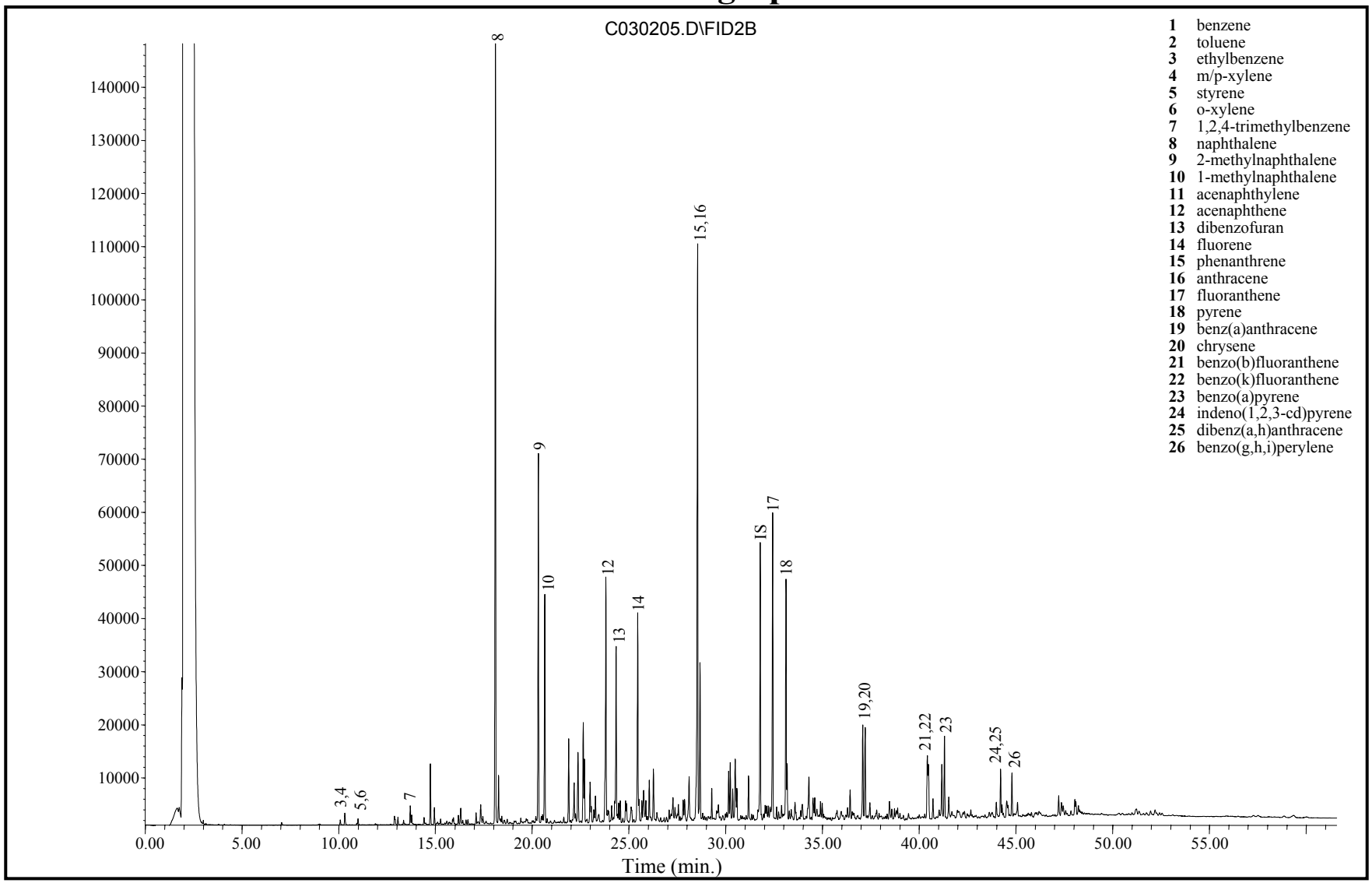
Extraction Date: 02/27/2007
Analysis Date: 03/01/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **PP-P1 (4.5-5.5) PP-P1-5.0-022207**
Laboratory ID: CH070223-01-D
Method: EPA 8100M

META

GC/FID Fingerprint



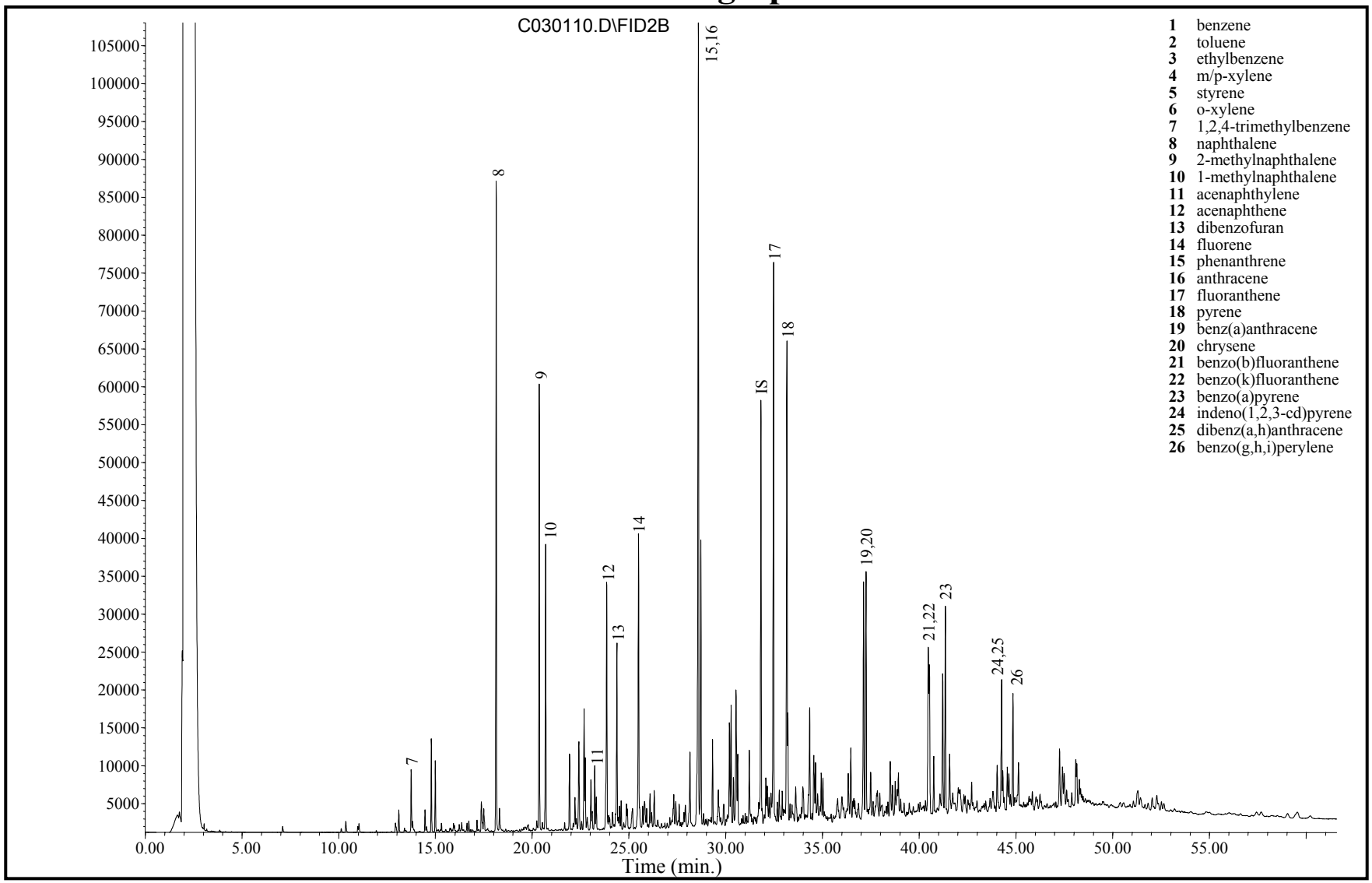
Extraction Date: 02/27/2007
Analysis Date: 03/02/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **PP-P2 (2.5-3.5) PP-P2-3.0-022207**
Laboratory ID: CH070223-02-D2
Method: EPA 8100M

META

GC/FID Fingerprint



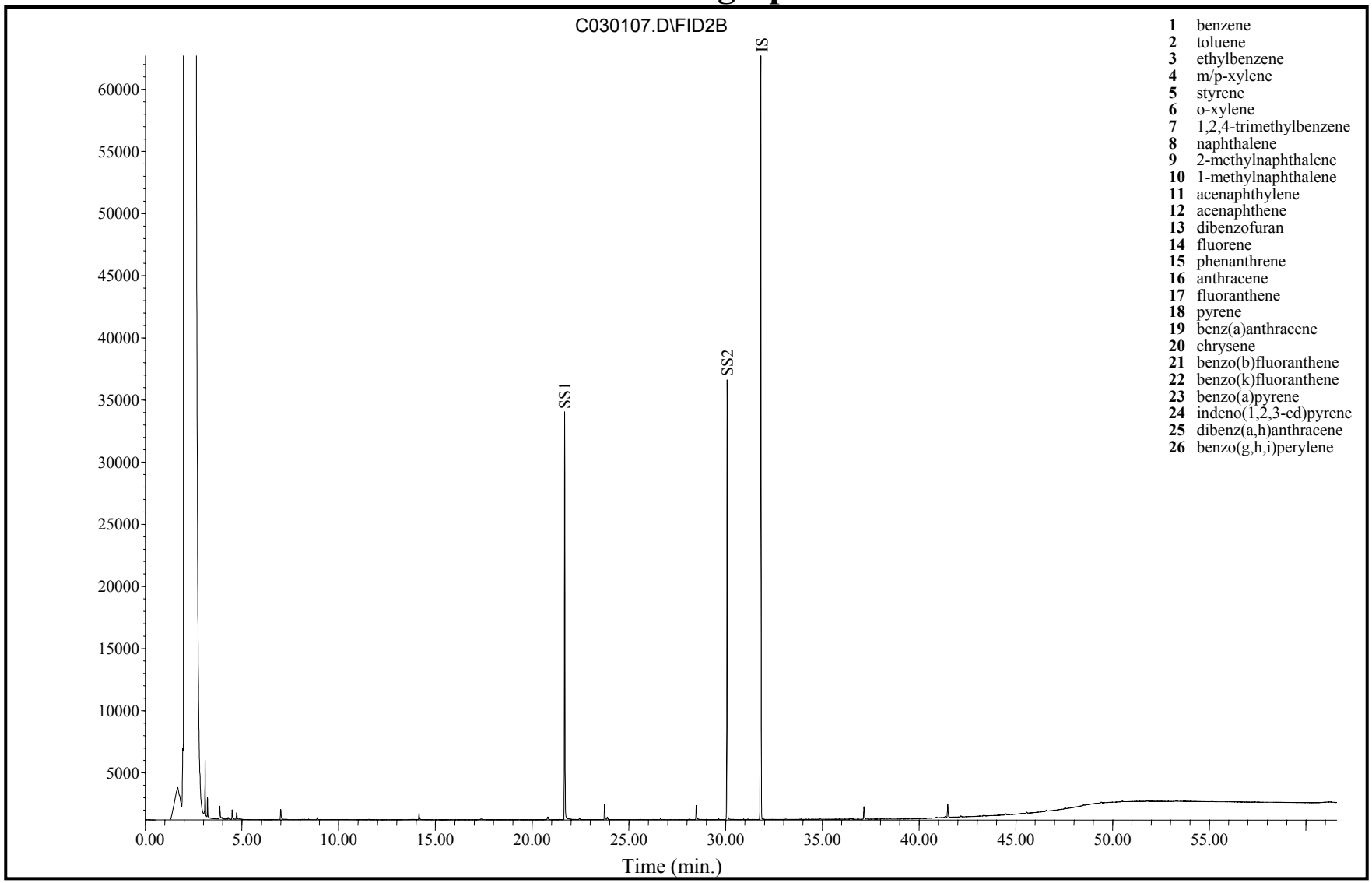
Extraction Date: 02/27/2007
Analysis Date: 03/01/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **PP-P3 (3.5-4.5) PP-P3-4.0-022207**
Laboratory ID: CH070223-03-D
Method: EPA 8100M

META

GC/FID Fingerprint



Extraction Date: 02/27/2007
Analysis Date: 03/01/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **Soil Blank**
Laboratory ID: CH070227-SB
Method: EPA 8100M

META

Appendix C

SVOC Concentrations

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02-D2		
File ID:	D030608.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.09
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
SVOC COMPOUNDS:					
Pyridine		U	11.9	5.95	
N-nitrosodimethylamine		U	11.9	5.95	
Phenol	14.1		11.9	5.95	
bis(2-Chloroethyl)ether		U	11.9	5.95	
Aniline		U	11.9	5.95	
2-Chlorophenol		U	11.9	5.95	
1,3-Dichlorobenzene		U	11.9	5.95	
1,4-Dichlorobenzene		U	11.9	5.95	
Benzyl Alcohol		U	11.9	5.95	
2-Methylphenol (m-cresol)	9.81	J	11.9	5.95	
1,2-Dichlorobenzene		U	11.9	5.95	
3,4-Methylphenol (o,p-cresol)	21.9		11.9	5.95	
bis(2-chloroisopropyl)ether		U	11.9	5.95	
N-nitroso-di-n-propylamine		U	11.9	5.95	
Hexachloroethane		U	11.9	5.95	
Nitrobenzene		U	11.9	5.95	
Isophorone		U	11.9	5.95	
2-Nitrophenol		U	11.9	5.95	
2,4-Dimethylphenol	18.1		11.9	5.95	
bis(2-Chloroethoxy)methane		U	11.9	5.95	
1,2,4-Trichlorobenzene		U	11.9	5.95	
Naphthalene	3,380	D	11.9	5.95	
C1-Naphthalene	1,290		11.9	5.95	
C2-Naphthalene	800		11.9	5.95	
C3-Naphthalene	374		11.9	5.95	
C4-Naphthalene	95.8		11.9	5.95	
2,4-Dichlorophenol		U	11.9	5.95	
4-Chloroaniline		U	11.9	5.95	
Hexachlorobutadiene		U	11.9	5.95	
1,2,3-Trichlorobenzene		U	11.9	5.95	
4-Chloro-3-methylphenol		U	11.9	5.95	
2-Methylnaphthalene	1,770	D	11.9	5.95	
1-Methylnaphthalene	1,010	D	11.9	5.95	
Hexachlorocyclopentadiene		U	11.9	5.95	
2,4,6-Trichlorophenol		U	11.9	5.95	
2,4,5-Trichlorophenol		U	11.9	5.95	
Diphenylamine		U	11.9	5.95	
Azobenzene		U	11.9	5.95	
2-Chloronaphthalene		U	11.9	5.95	
2-Nitroaniline		U	11.9	5.95	
1,4-Dinitrobenzene		U	11.9	5.95	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02-D2		
File ID:	D030608.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.09
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
Dimethylphthalate		U	11.9	5.95	
1,3-Dinitrobenzene		U	11.9	5.95	
Acenaphthylene	68.1		11.9	5.95	
2,6-dinitrotoluene		U	11.9	5.95	
1,2-Dinitrobenzene		U	11.9	5.95	
3-Nitroaniline		U	11.9	5.95	
Acenaphthene	1,080	D	11.9	5.95	
2,4-Dinitrophenol		U	11.9	5.95	
4-Nitrophenol		U	11.9	5.95	
Dibenzofuran	925	D	11.9	5.95	
2,4-dinitrotoluene		U	11.9	5.95	
2,3,4,6-Tetrachlorophenol		U	11.9	5.95	
2,3,5,6-Tetrachlorophenol		U	11.9	5.95	
Diethylphthalate		U	11.9	5.95	
4-Chlorophenyl-phenylether		U	11.9	5.95	
Fluorene	1,030	D	11.9	5.95	
C1-Fluorene	196		11.9	5.95	
C2-Fluorene	90.7		11.9	5.95	
C3-Fluorene	78.8		11.9	5.95	
4-Nitroaniline		U	11.9	5.95	
4,6-Dinitro-2-methylphenol		U	11.9	5.95	
n-Nitrosodiphenylamine		U	11.9	5.95	
4-Bromophenyl phenyl ether		U	11.9	5.95	
Hexachlorobenzene		U	11.9	5.95	
Pentachlorophenol		U	11.9	5.95	
Phenanthrene	2,490	D	11.9	5.95	
Anthracene	496		11.9	5.95	
C1-Phenanthrene/Anthracene	590		11.9	5.95	
C2-Phenanthrene/Anthracene	238		11.9	5.95	
C3-Phenanthrene/Anthracene	90.6		11.9	5.95	
C4-Phenanthrene/Anthracene	31.1		11.9	5.95	
Retene		U	11.9	5.95	
Dibenzothiophene	171		11.9	5.95	
C1-Dibenzothiophene	71.6		11.9	5.95	
C2-Dibenzothiophene	40.7		11.9	5.95	
C3-Dibenzothiophene	25.3		11.9	5.95	
C4-Dibenzothiophene	7.12	J	11.9	5.95	
Carbazole	169		11.9	5.95	
Di-n-butylphthalate		U	11.9	5.95	
Bis(2-ethylhexyl) adipate		U	11.9	5.95	
Fluoranthene	1,570	D	11.9	5.95	
Pyrene	1,240	D	11.9	5.95	
C1-Fluoranthene/Pyrene	546		11.9	5.95	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02-D2		
File ID:	D030608.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.09
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C2-Fluoranthene/Pyrene	262		11.9	5.95	
C3-Fluoranthene/Pyrene	95.6		11.9	5.95	
Benzo(b,c)fluorenes	110		11.9	5.95	
2-Methylpyrene	59.8		11.9	5.95	
4-Methylpyrene	49.5		11.9	5.95	
1-Methylpyrene	47.2		11.9	5.95	
Butylbenzylphthalate		U	11.9	5.95	
Benz[a]anthracene	394		11.9	5.95	
Chrysene*	394		11.9	5.95	
C1-Benz(a)anthracene/Chrysene	231		11.9	5.95	
C2-Benz(a)anthracene/Chrysene	75.1		11.9	5.95	
C3-Benz(a)anthracene/Chrysene	21.2		11.9	5.95	
C4-Benz(a)anthracene/Chrysene	8.14	J	11.9	5.95	
bis(2-Ethylhexyl)phthalate		U	11.9	5.95	
Di-n-octylphthalate		U	11.9	5.95	
Benzo[b]fluoranthene	365		11.9	5.95	
Benzo[k]fluoranthene	270		11.9	5.95	
Benzo[a]pyrene	383		11.9	5.95	
Benzo[e]pyrene	235		11.9	5.95	
Perylene	98.9		11.9	5.95	
Indeno[1,2,3-cd]pyrene	213		11.9	5.95	
Dibenz[a,h]anthracene	56.6		11.9	5.95	
Benzo[g,h,i]perylene	201		11.9	5.95	

Extraction Surrogate Recoveries (%)		Limits
2-Fluorophenol	78	50 - 120
Phenol-d5	83	50 - 120
Nitrobenzene-d5	99	50 - 120
2-Fluorobiphenyl	108	50 - 120
2,4,6-Tribromophenol	90	50 - 120
p-Terphenyl-d14	110	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
DL - Diluted out
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01-D2		
File ID:	D030606.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.11
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
SVOC COMPOUNDS:					
Pyridine		U	12.7	6.35	
N-nitrosodimethylamine		U	12.7	6.35	
Phenol		U	12.7	6.35	
bis(2-Chloroethyl)ether		U	12.7	6.35	
Aniline		U	12.7	6.35	
2-Chlorophenol		U	12.7	6.35	
1,3-Dichlorobenzene		U	12.7	6.35	
1,4-Dichlorobenzene		U	12.7	6.35	
Benzyl Alcohol		U	12.7	6.35	
2-Methylphenol (m-cresol)		U	12.7	6.35	
1,2-Dichlorobenzene		U	12.7	6.35	
3,4-Methylphenol (o,p-cresol)		U	12.7	6.35	
bis(2-chloroisopropyl)ether		U	12.7	6.35	
N-nitroso-di-n-propylamine		U	12.7	6.35	
Hexachloroethane		U	12.7	6.35	
Nitrobenzene		U	12.7	6.35	
Isophorone		U	12.7	6.35	
2-Nitrophenol		U	12.7	6.35	
2,4-Dimethylphenol		U	12.7	6.35	
bis(2-Chloroethoxy)methane		U	12.7	6.35	
1,2,4-Trichlorobenzene		U	12.7	6.35	
Naphthalene	172		12.7	6.35	
C1-Naphthalene	913		12.7	6.35	
C2-Naphthalene	276		12.7	6.35	
C3-Naphthalene	63.1		12.7	6.35	
C4-Naphthalene	7.98	J	12.7	6.35	
2,4-Dichlorophenol		U	12.7	6.35	
4-Chloroaniline		U	12.7	6.35	
Hexachlorobutadiene		U	12.7	6.35	
1,2,3-Trichlorobenzene		U	12.7	6.35	
4-Chloro-3-methylphenol		U	12.7	6.35	
2-Methylnaphthalene	1,220	D	12.7	6.35	
1-Methylnaphthalene	473		12.7	6.35	
Hexachlorocyclopentadiene		U	12.7	6.35	
2,4,6-Trichlorophenol		U	12.7	6.35	
2,4,5-Trichlorophenol		U	12.7	6.35	
Diphenylamine		U	12.7	6.35	
Azobenzene		U	12.7	6.35	
2-Chloronaphthalene		U	12.7	6.35	
2-Nitroaniline		U	12.7	6.35	
1,4-Dinitrobenzene		U	12.7	6.35	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01-D2		
File ID:	D030606.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.11
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
Dimethylphthalate		U	12.7	6.35	
1,3-Dinitrobenzene		U	12.7	6.35	
Acenaphthylene	22.5		12.7	6.35	
2,6-dinitrotoluene		U	12.7	6.35	
1,2-Dinitrobenzene		U	12.7	6.35	
3-Nitroaniline		U	12.7	6.35	
Acenaphthene	352		12.7	6.35	
2,4-Dinitrophenol		U	12.7	6.35	
4-Nitrophenol		U	12.7	6.35	
Dibenzofuran	351		12.7	6.35	
2,4-dinitrotoluene		U	12.7	6.35	
2,3,4,6-Tetrachlorophenol		U	12.7	6.35	
2,3,5,6-Tetrachlorophenol		U	12.7	6.35	
Diethylphthalate		U	12.7	6.35	
4-Chlorophenyl-phenylether		U	12.7	6.35	
Fluorene	291		12.7	6.35	
C1-Fluorene	27.3		12.7	6.35	
C2-Fluorene	12.8		12.7	6.35	
C3-Fluorene	14.3		12.7	6.35	
4-Nitroaniline		U	12.7	6.35	
4,6-Dinitro-2-methylphenol		U	12.7	6.35	
n-Nitrosodiphenylamine		U	12.7	6.35	
4-Bromophenyl phenyl ether		U	12.7	6.35	
Hexachlorobenzene		U	12.7	6.35	
Pentachlorophenol		U	12.7	6.35	
Phenanthrene	404		12.7	6.35	
Anthracene	172		12.7	6.35	
C1-Phenanthrene/Anthracene	129		12.7	6.35	
C2-Phenanthrene/Anthracene	60.1		12.7	6.35	
C3-Phenanthrene/Anthracene	25.2		12.7	6.35	
C4-Phenanthrene/Anthracene		U	12.7	6.35	
Retene		U	12.7	6.35	
Dibenzothiophene	33.2		12.7	6.35	
C1-Dibenzothiophene	14.9		12.7	6.35	
C2-Dibenzothiophene	11.1	J	12.7	6.35	
C3-Dibenzothiophene		U	12.7	6.35	
C4-Dibenzothiophene		U	12.7	6.35	
Carbazole	43.2		12.7	6.35	
Di-n-butylphthalate		U	12.7	6.35	
Bis(2-ethylhexyl) adipate		U	12.7	6.35	
Fluoranthene	455		12.7	6.35	
Pyrene	350		12.7	6.35	
C1-Fluoranthene/Pyrene	206		12.7	6.35	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01-D2		
File ID:	D030606.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.11
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C2-Fluoranthene/Pyrene	104		12.7	6.35	
C3-Fluoranthene/Pyrene	44.7		12.7	6.35	
Benzo(b,c)fluorenes	47.9		12.7	6.35	
2-Methylpyrene	22.1		12.7	6.35	
4-Methylpyrene	16.3		12.7	6.35	
1-Methylpyrene	14.2		12.7	6.35	
Butylbenzylphthalate		U	12.7	6.35	
Benz[a]anthracene	197		12.7	6.35	
Chrysene*	200		12.7	6.35	
C1-Benz(a)anthracene/Chrysene	98.6		12.7	6.35	
C2-Benz(a)anthracene/Chrysene	35.0		12.7	6.35	
C3-Benz(a)anthracene/Chrysene	27.4		12.7	6.35	
C4-Benz(a)anthracene/Chrysene		U	12.7	6.35	
bis(2-Ethylhexyl)phthalate	8.6	J	12.7	6.35	
Di-n-octylphthalate		U	12.7	6.35	
Benzo[b]fluoranthene	162		12.7	6.35	
Benzo[k]fluoranthene	140		12.7	6.35	
Benzo[a]pyrene	190		12.7	6.35	
Benzo[e]pyrene	126		12.7	6.35	
Perylene	53.6		12.7	6.35	
Indeno[1,2,3-cd]pyrene	125		12.7	6.35	
Dibenz[a,h]anthracene	30.0		12.7	6.35	
Benzo[g,h,i]perylene	122		12.7	6.35	

Extraction Surrogate Recoveries (%)		Limits
2-Fluorophenol	DL	50 - 120
Phenol-d5	DL	50 - 120
Nitrobenzene-d5	91	50 - 120
2-Fluorobiphenyl	105	50 - 120
2,4,6-Tribromophenol	DL	50 - 120
p-Terphenyl-d14	114	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
DL - Diluted out
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P3 (3.5-4.5) PP-P3-4.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-03-D2		
File ID:	D030611.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.07
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
SVOC COMPOUNDS:					
Pyridine		U	12.1	6.05	
N-nitrosodimethylamine		U	12.1	6.05	
Phenol		U	12.1	6.05	
bis(2-Chloroethyl)ether		U	12.1	6.05	
Aniline		U	12.1	6.05	
2-Chlorophenol		U	12.1	6.05	
1,3-Dichlorobenzene		U	12.1	6.05	
1,4-Dichlorobenzene		U	12.1	6.05	
Benzyl Alcohol		U	12.1	6.05	
2-Methylphenol (m-cresol)		U	12.1	6.05	
1,2-Dichlorobenzene		U	12.1	6.05	
3,4-Methylphenol (o,p-cresol)		U	12.1	6.05	
bis(2-chloroisopropyl)ether		U	12.1	6.05	
N-nitroso-di-n-propylamine		U	12.1	6.05	
Hexachloroethane		U	12.1	6.05	
Nitrobenzene		U	12.1	6.05	
Isophorone		U	12.1	6.05	
2-Nitrophenol		U	12.1	6.05	
2,4-Dimethylphenol	6.39	J	12.1	6.05	
bis(2-Chloroethoxy)methane		U	12.1	6.05	
1,2,4-Trichlorobenzene		U	12.1	6.05	
Naphthalene	1,220	D	12.1	6.05	
C1-Naphthalene	746		12.1	6.05	
C2-Naphthalene	478		12.1	6.05	
C3-Naphthalene	207		12.1	6.05	
C4-Naphthalene	63.9		12.1	6.05	
2,4-Dichlorophenol		U	12.1	6.05	
4-Chloroaniline		U	12.1	6.05	
Hexachlorobutadiene		U	12.1	6.05	
1,2,3-Trichlorobenzene		U	12.1	6.05	
4-Chloro-3-methylphenol		U	12.1	6.05	
2-Methylnaphthalene	884	D	12.1	6.05	
1-Methylnaphthalene	467		12.1	6.05	
Hexachlorocyclopentadiene		U	12.1	6.05	
2,4,6-Trichlorophenol		U	12.1	6.05	
2,4,5-Trichlorophenol		U	12.1	6.05	
Diphenylamine		U	12.1	6.05	
Azobenzene		U	12.1	6.05	
2-Chloronaphthalene		U	12.1	6.05	
2-Nitroaniline		U	12.1	6.05	
1,4-Dinitrobenzene		U	12.1	6.05	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P3 (3.5-4.5) PP-P3-4.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-03-D2		
File ID:	D030611.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.07
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
Dimethylphthalate		U	12.1	6.05	
1,3-Dinitrobenzene		U	12.1	6.05	
Acenaphthylene	156		12.1	6.05	
2,6-dinitrotoluene		U	12.1	6.05	
1,2-Dinitrobenzene		U	12.1	6.05	
3-Nitroaniline		U	12.1	6.05	
Acenaphthene	443		12.1	6.05	
2,4-Dinitrophenol		U	12.1	6.05	
4-Nitrophenol		U	12.1	6.05	
Dibenzofuran	404		12.1	6.05	
2,4-dinitrotoluene		U	12.1	6.05	
2,3,4,6-Tetrachlorophenol		U	12.1	6.05	
2,3,5,6-Tetrachlorophenol		U	12.1	6.05	
Diethylphthalate		U	12.1	6.05	
4-Chlorophenyl-phenylether		U	12.1	6.05	
Fluorene	564		12.1	6.05	
C1-Fluorene	156		12.1	6.05	
C2-Fluorene	75.4		12.1	6.05	
C3-Fluorene	86.4		12.1	6.05	
4-Nitroaniline		U	12.1	6.05	
4,6-Dinitro-2-methylphenol		U	12.1	6.05	
n-Nitrosodiphenylamine		U	12.1	6.05	
4-Bromophenyl phenyl ether		U	12.1	6.05	
Hexachlorobenzene		U	12.1	6.05	
Pentachlorophenol		U	12.1	6.05	
Phenanthrene	1,960	D	12.1	6.05	
Anthracene	550		12.1	6.05	
C1-Phenanthrene/Anthracene	623		12.1	6.05	
C2-Phenanthrene/Anthracene	308		12.1	6.05	
C3-Phenanthrene/Anthracene	134		12.1	6.05	
C4-Phenanthrene/Anthracene	41.2		12.1	6.05	
Retene		U	12.1	6.05	
Dibenzothiophene	166		12.1	6.05	
C1-Dibenzothiophene	162		12.1	6.05	
C2-Dibenzothiophene	133		12.1	6.05	
C3-Dibenzothiophene	80.2		12.1	6.05	
C4-Dibenzothiophene	38.7		12.1	6.05	
Carbazole	236		12.1	6.05	
Di-n-butylphthalate		U	12.1	6.05	
Bis(2-ethylhexyl) adipate		U	12.1	6.05	
Fluoranthene	1,530	D	12.1	6.05	
Pyrene	1,240	D	12.1	6.05	
C1-Fluoranthene/Pyrene	687		12.1	6.05	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P3 (3.5-4.5) PP-P3-4.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-03-D2		
File ID:	D030611.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.07
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C2-Fluoranthene/Pyrene	417		12.1	6.05	
C3-Fluoranthene/Pyrene	154		12.1	6.05	
Benzo(b,c)fluorenes	140		12.1	6.05	
2-Methylpyrene	79.1		12.1	6.05	
4-Methylpyrene	73.5		12.1	6.05	
1-Methylpyrene	63.1		12.1	6.05	
Butylbenzylphthalate		U	12.1	6.05	
Benz[a]anthracene	548		12.1	6.05	
Chrysene*	549		12.1	6.05	
C1-Benz(a)anthracene/Chrysene	401		12.1	6.05	
C2-Benz(a)anthracene/Chrysene	159		12.1	6.05	
C3-Benz(a)anthracene/Chrysene	57.8		12.1	6.05	
C4-Benz(a)anthracene/Chrysene	31.4		12.1	6.05	
bis(2-Ethylhexyl)phthalate		U	12.1	6.05	
Di-n-octylphthalate		U	12.1	6.05	
Benzo[b]fluoranthene	534		12.1	6.05	
Benzo[k]fluoranthene	262		12.1	6.05	
Benzo[a]pyrene	517		12.1	6.05	
Benzo[e]pyrene	330		12.1	6.05	
Perylene	138		12.1	6.05	
Indeno[1,2,3-cd]pyrene	305		12.1	6.05	
Dibenz[a,h]anthracene	90.8		12.1	6.05	
Benzo[g,h,i]perylene	293		12.1	6.05	

Extraction Surrogate Recoveries (%)		Limits
2-Fluorophenol	72	50 - 120
Phenol-d5	75	50 - 120
Nitrobenzene-d5	90	50 - 120
2-Fluorobiphenyl	102	50 - 120
2,4,6-Tribromophenol	85	50 - 120
p-Terphenyl-d14	109	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
DL - Diluted out
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070305-SB		
File ID:	D030604.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/5/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
SVOC COMPOUNDS:					
Pyridine		U	1.0	0.500	
N-nitrosodimethylamine		U	1.0	0.500	
Phenol		U	1.0	0.500	
bis(2-Chloroethyl)ether		U	1.0	0.500	
Aniline		U	1.0	0.500	
2-Chlorophenol		U	1.0	0.500	
1,3-Dichlorobenzene		U	1.0	0.500	
1,4-Dichlorobenzene		U	1.0	0.500	
Benzyl Alcohol		U	1.0	0.500	
2-Methylphenol (m-cresol)		U	1.0	0.500	
1,2-Dichlorobenzene		U	1.0	0.500	
3,4-Methylphenol (o,p-cresol)		U	1.0	0.500	
bis(2-chloroisopropyl)ether		U	1.0	0.500	
N-nitroso-di-n-propylamine		U	1.0	0.500	
Hexachloroethane		U	1.0	0.500	
Nitrobenzene		U	1.0	0.500	
Isophorone		U	1.0	0.500	
2-Nitrophenol		U	1.0	0.500	
2,4-Dimethylphenol		U	1.0	0.500	
bis(2-Chloroethoxy)methane		U	1.0	0.500	
1,2,4-Trichlorobenzene		U	1.0	0.500	
Naphthalene		U	1.0	0.500	
C1-Naphthalene		U	1.0	0.500	
C2-Naphthalene		U	1.0	0.500	
C3-Naphthalene		U	1.0	0.500	
C4-Naphthalene		U	1.0	0.500	
2,4-Dichlorophenol		U	1.0	0.500	
4-Chloroaniline		U	1.0	0.500	
Hexachlorobutadiene		U	1.0	0.500	
1,2,3-Trichlorobenzene		U	1.0	0.500	
4-Chloro-3-methylphenol		U	1.0	0.500	
2-Methylnaphthalene		U	1.0	0.500	
1-Methylnaphthalene		U	1.0	0.500	
Hexachlorocyclopentadiene		U	1.0	0.500	
2,4,6-Trichlorophenol		U	1.0	0.500	
2,4,5-Trichlorophenol		U	1.0	0.500	
Diphenylamine		U	1.0	0.500	
Azobenzene		U	1.0	0.500	
2-Chloronaphthalene		U	1.0	0.500	
2-Nitroaniline		U	1.0	0.500	
1,4-Dinitrobenzene		U	1.0	0.500	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070305-SB		
File ID:	D030604.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/5/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Dimethylphthalate	U	1.0	0.500	
1,3-Dinitrobenzene	U	1.0	0.500	
Acenaphthylene	U	1.0	0.500	
2,6-dinitrotoluene	U	1.0	0.500	
1,2-Dinitrobenzene	U	1.0	0.500	
3-Nitroaniline	U	1.0	0.500	
Acenaphthene	U	1.0	0.500	
2,4-Dinitrophenol	U	1.0	0.500	
4-Nitrophenol	U	1.0	0.500	
Dibenzofuran	U	1.0	0.500	
2,4-dinitrotoluene	U	1.0	0.500	
2,3,4,6-Tetrachlorophenol	U	1.0	0.500	
2,3,5,6-Tetrachlorophenol	U	1.0	0.500	
Diethylphthalate	U	1.0	0.500	
4-Chlorophenyl-phenylether	U	1.0	0.500	
Fluorene	U	1.0	0.500	
C1-Fluorene	U	1.0	0.500	
C2-Fluorene	U	1.0	0.500	
C3-Fluorene	U	1.0	0.500	
4-Nitroaniline	U	1.0	0.500	
4,6-Dinitro-2-methylphenol	U	1.0	0.500	
n-Nitrosodiphenylamine	U	1.0	0.500	
4-Bromophenyl phenyl ether	U	1.0	0.500	
Hexachlorobenzene	U	1.0	0.500	
Pentachlorophenol	U	1.0	0.500	
Phenanthrene	U	1.0	0.500	
Anthracene	U	1.0	0.500	
C1-Phenanthrene/Anthracene	U	1.0	0.500	
C2-Phenanthrene/Anthracene	U	1.0	0.500	
C3-Phenanthrene/Anthracene	U	1.0	0.500	
C4-Phenanthrene/Anthracene	U	1.0	0.500	
Retene	U	1.0	0.500	
Dibenzothiophene	U	1.0	0.500	
C1-Dibenzothiophene	U	1.0	0.500	
C2-Dibenzothiophene	U	1.0	0.500	
C3-Dibenzothiophene	U	1.0	0.500	
C4-Dibenzothiophene	U	1.0	0.500	
Carbazole	U	1.0	0.500	
Di-n-butylphthalate	U	1.0	0.500	
Bis(2-ethylhexyl) adipate	U	1.0	0.500	
Fluoranthene	U	1.0	0.500	
Pyrene	U	1.0	0.500	
C1-Fluoranthene/Pyrene	U	1.0	0.500	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070305-SB		
File ID:	D030604.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/5/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C2-Fluoranthene/Pyrene		U	1.0	0.500	
C3-Fluoranthene/Pyrene		U	1.0	0.500	
Benzo(b,c)fluorenes		U	1.0	0.500	
2-Methylpyrene		U	1.0	0.500	
4-Methylpyrene		U	1.0	0.500	
1-Methylpyrene		U	1.0	0.500	
Butylbenzylphthalate		U	1.0	0.500	
Benz[a]anthracene		U	1.0	0.500	
Chrysene*		U	1.0	0.500	
C1-Benz(a)anthracene/Chrysene		U	1.0	0.500	
C2-Benz(a)anthracene/Chrysene		U	1.0	0.500	
C3-Benz(a)anthracene/Chrysene		U	1.0	0.500	
C4-Benz(a)anthracene/Chrysene		U	1.0	0.500	
bis(2-Ethylhexyl)phthalate		U	1.0	0.500	
Di-n-octylphthalate		U	1.0	0.500	
Benzo[b]fluoranthene		U	1.0	0.500	
Benzo[k]fluoranthene		U	1.0	0.500	
Benzo[a]pyrene		U	1.0	0.500	
Benzo[e]pyrene		U	1.0	0.500	
Perylene		U	1.0	0.500	
Indeno[1,2,3-cd]pyrene		U	1.0	0.500	
Dibenz[a,h]anthracene		U	1.0	0.500	
Benzo[g,h,i]perylene		U	1.0	0.500	

Extraction Surrogate Recoveries (%)		Limits
2-Fluorophenol	91	50 - 120
Phenol-d5	92	50 - 120
Nitrobenzene-d5	109	50 - 120
2-Fluorobiphenyl	98	50 - 120
2,4,6-Tribromophenol	109	50 - 120
p-Terphenyl-d14	104	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070305-SBS		
File ID:	D030605.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/5/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
SVOC COMPOUNDS:	Spike Amount					% Recovery
Pyridine	25	16.6		1.0	0.500	66
N-nitrosodimethylamine	25	19.5		1.0	0.500	78
Phenol	25	19.9		1.0	0.500	80
bis(2-Chloroethyl)ether	25	20.9		1.0	0.500	84
Aniline	25	20.4		1.0	0.500	82
2-Chlorophenol	25	21.2		1.0	0.500	85
1,3-Dichlorobenzene	50	37.4		1.0	0.500	75
1,4-Dichlorobenzene	50	37.4		1.0	0.500	75
Benzyl Alcohol	25	24.7		1.0	0.500	99
2-Methylphenol (m-cresol)	25	20.8		1.0	0.500	83
1,2-Dichlorobenzene	50	37.3		1.0	0.500	75
3,4-Methylphenol (o,p-cresol)	25	21.8		1.0	0.500	87
bis(2-chloroisopropyl)ether	25	20.2		1.0	0.500	81
N-nitroso-di-n-propylamine	25	19.0		1.0	0.500	76
Hexachloroethane	25	21.1		1.0	0.500	84
Nitrobenzene	25	25.0		1.0	0.500	100
Isophorone	25	24.6		1.0	0.500	98
2-Nitrophenol	25	27.0		1.0	0.500	108
2,4-Dimethylphenol	25	25.8		1.0	0.500	103
bis(2-Chloroethoxy)methane	25	24.5		1.0	0.500	98
1,2,4-Trichlorobenzene	50	46.2		1.0	0.500	92
Naphthalene	50	43.3		1.0	0.500	87
C1-Naphthalene			U	1.0	0.500	
C2-Naphthalene			U	1.0	0.500	
C3-Naphthalene			U	1.0	0.500	
C4-Naphthalene			U	1.0	0.500	
2,4-Dichlorophenol	25	26.3		1.0	0.500	105
4-Chloroaniline	25	26.1		1.0	0.500	104
Hexachlorobutadiene	50	46.5		1.0	0.500	93
1,2,3-Trichlorobenzene	25	21.0		1.0	0.500	84
4-Chloro-3-methylphenol	25	26.9		1.0	0.500	108
2-Methylnaphthalene	25	23.8		1.0	0.500	95
1-Methylnaphthalene	25	24.0		1.0	0.500	96
Hexachlorocyclopentadiene	25	21.4		1.0	0.500	86
2,4,6-Trichlorophenol	25	25.9		1.0	0.500	104
2,4,5-Trichlorophenol	25	26.1		1.0	0.500	104
Diphenylamine	25	24.3		1.0	0.500	97
Azobenzene	25	23.9		1.0	0.500	96
2-Chloronaphthalene	25	24.2		1.0	0.500	97
2-Nitroaniline	25	27.3		1.0	0.500	109
1,4-Dinitrobenzene	25	27.7		1.0	0.500	111

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070305-SBS		
File ID:	D030605.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/5/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
Dimethylphthalate	25	25.7		1.0	0.500	103
1,3-Dinitrobenzene	25	27.2		1.0	0.500	109
Acenaphthylene	25	24.1		1.0	0.500	96
2,6-dinitrotoluene	25	24.8		1.0	0.500	99
1,2-Dinitrobenzene	25	26.6		1.0	0.500	106
3-Nitroaniline	25	25.2		1.0	0.500	101
Acenaphthene	25	24.0		1.0	0.500	96
2,4-Dinitrophenol	25	19.2		1.0	0.500	77
4-Nitrophenol	25	24.7		1.0	0.500	99
Dibenzofuran	25	23.5		1.0	0.500	94
2,4-dinitrotoluene	25	26.6		1.0	0.500	106
2,3,4,6-Tetrachlorophenol	25	27.1		1.0	0.500	108
2,3,5,6-Tetrachlorophenol	25	27.7		1.0	0.500	111
Diethylphthalate	25	25.2		1.0	0.500	101
4-Chlorophenyl-phenylether	25	24.0		1.0	0.500	96
Fluorene	25	23.3		1.0	0.500	93
C1-Fluorene			U	1.0	0.500	
C2-Fluorene			U	1.0	0.500	
C3-Fluorene			U	1.0	0.500	
4-Nitroaniline	25	23.1		1.0	0.500	92
4,6-Dinitro-2-methylphenol	25	21.6		1.0	0.500	86
n-Nitrosodiphenylamine	25	23.6		1.0	0.500	94
4-Bromophenyl phenyl ether	25	25.9		1.0	0.500	104
Hexachlorobenzene	25	25.6		1.0	0.500	102
Pentachlorophenol	25	28.1		1.0	0.500	112
Phenanthrene	25	23.7		1.0	0.500	95
Anthracene	25	24.1		1.0	0.500	96
C1-Phenanthrene/Anthracene			U	1.0	0.500	
C2-Phenanthrene/Anthracene			U	1.0	0.500	
C3-Phenanthrene/Anthracene			U	1.0	0.500	
C4-Phenanthrene/Anthracene			U	1.0	0.500	
Retene			U	1.0	0.500	
Dibenzothiophene			U	1.0	0.500	
C1-Dibenzothiophene			U	1.0	0.500	
C2-Dibenzothiophene			U	1.0	0.500	
C3-Dibenzothiophene			U	1.0	0.500	
C4-Dibenzothiophene			U	1.0	0.500	
Carbazole	25	22.4		1.0	0.500	90
Di-n-butylphthalate	25	25.8		1.0	0.500	103
Bis(2-ethylhexyl) adipate	25	26.4		1.0	0.500	106
Fluoranthene	25	24.8		1.0	0.500	99
Pyrene	25	24.6		1.0	0.500	98
C1-Fluoranthene/Pyrene			U	1.0	0.500	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070305-SBS		
File ID:	D030605.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/5/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
C2-Fluoranthene/Pyrene			U	1.0	0.500	
C3-Fluoranthene/Pyrene			U	1.0	0.500	
Benzo(b,c)fluorenes			U	1.0	0.500	
2-Methylpyrene			U	1.0	0.500	
4-Methylpyrene			U	1.0	0.500	
1-Methylpyrene			U	1.0	0.500	
Butylbenzylphthalate	25	26.1		1.0	0.500	104
Benz[a]anthracene	25	24.1		1.0	0.500	96
Chrysene*	25	23.6		1.0	0.500	94
C1-Benz(a)anthracene/Chrysene			U	1.0	0.500	
C2-Benz(a)anthracene/Chrysene			U	1.0	0.500	
C3-Benz(a)anthracene/Chrysene			U	1.0	0.500	
C4-Benz(a)anthracene/Chrysene			U	1.0	0.500	
bis(2-Ethylhexyl)phthalate	25	25.1		1.0	0.500	100
Di-n-octylphthalate	25	27.2		1.0	0.500	109
Benzo[b]fluoranthene	25	23.7		1.0	0.500	95
Benzo[k]fluoranthene	25	24.4		1.0	0.500	98
Benzo[a]pyrene	25	24.9		1.0	0.500	100
Benzo[e]pyrene			U	1.0	0.500	
Perylene			U	1.0	0.500	
Indeno[1,2,3-cd]pyrene	25	24.3		1.0	0.500	97
Dibenz[a,h]anthracene	25	25.6		1.0	0.500	102
Benzo[g,h,i]perylene	25	24.7		1.0	0.500	99

Extraction Surrogate Recoveries (%)		Limits
2-Fluorophenol	86	50 - 120
Phenol-d5	81	50 - 120
Nitrobenzene-d5	102	50 - 120
2-Fluorobiphenyl	93	50 - 120
2,4,6-Tribromophenol	111	50 - 120
p-Terphenyl-d14	97	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike of PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02 MS-D		
File ID:	D030609.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.06
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
SVOC COMPOUNDS:	Spike Amount					% Recovery
Pyridine	30.3	18.8		12.1	6.05	62
N-nitrosodimethylamine	30.3	19.9		12.1	6.05	66
Phenol	30.3	42.9		12.1	6.05	95
bis(2-Chloroethyl)ether	30.3	26.2		12.1	6.05	87
Aniline	30.3	25.0		12.1	6.05	83
2-Chlorophenol	30.3	25.9		12.1	6.05	86
1,3-Dichlorobenzene	60.5	60.3		12.1	6.05	100
1,4-Dichlorobenzene	60.5	60.8		12.1	6.05	100
Benzyl Alcohol	30.3	23.4		12.1	6.05	77
2-Methylphenol (m-cresol)	30.3	40.2		12.1	6.05	100
1,2-Dichlorobenzene	60.5	53.0		12.1	6.05	88
3,4-Methylphenol (o,p-cresol)	30.3	50.8		12.1	6.05	95
bis(2-chloroisopropyl)ether	30.3	26.6		12.1	6.05	88
N-nitroso-di-n-propylamine	30.3	25.8		12.1	6.05	85
Hexachloroethane	30.3	32.6		12.1	6.05	108
Nitrobenzene	30.3	34.3		12.1	6.05	113
Isophorone	30.3	29.2		12.1	6.05	96
2-Nitrophenol	30.3	25.6		12.1	6.05	85
2,4-Dimethylphenol	30.3	52.7		12.1	6.05	114
bis(2-Chloroethoxy)methane	30.3	28.9		12.1	6.05	95
1,2,4-Trichlorobenzene	60.5	63.9		12.1	6.05	106
Naphthalene	60.5	3,550	D	12.1	6.05	2230
C1-Naphthalene			U	12.1	6.05	
C2-Naphthalene			U	12.1	6.05	
C3-Naphthalene			U	12.1	6.05	
C4-Naphthalene			U	12.1	6.05	
2,4-Dichlorophenol	30.3	29.7		12.1	6.05	98
4-Chloroaniline	30.3	28.9		12.1	6.05	95
Hexachlorobutadiene	60.5	67.9		12.1	6.05	112
1,2,3-Trichlorobenzene	30.3	32.6		12.1	6.05	108
4-Chloro-3-methylphenol	30.3	33.8		12.1	6.05	112
2-Methylnaphthalene	30.3	1,910	D	12.1	6.05	2115
1-Methylnaphthalene	30.3	1,130	D	12.1	6.05	1259
Hexachlorocyclopentadiene	30.3		U	12.1	6.05	DL
2,4,6-Trichlorophenol	30.3	30.8		12.1	6.05	102
2,4,5-Trichlorophenol	30.3	26.4		12.1	6.05	87
Diphenylamine	30.3	11.2	J	12.1	6.05	37
Azobenzene	30.3	30.5		12.1	6.05	101
2-Chloronaphthalene	30.3	27.6		12.1	6.05	91
2-Nitroaniline	30.3	43.3		12.1	6.05	143
1,4-Dinitrobenzene	30.3	68.9		12.1	6.05	228

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike of PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02 MS-D		
File ID:	D030609.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.06
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
Dimethylphthalate	30.3	31.4		12.1	6.05	104
1,3-Dinitrobenzene	30.3	24.8		12.1	6.05	82
Acenaphthylene	30.3	94.7		12.1	6.05	88
2,6-dinitrotoluene	30.3	26.8		12.1	6.05	89
1,2-Dinitrobenzene	30.3	24.8		12.1	6.05	82
3-Nitroaniline	30.3	24.1		12.1	6.05	80
Acenaphthene	30.3	1,130	D	12.1	6.05	1084
2,4-Dinitrophenol	30.3		U	12.1	6.05	DL
4-Nitrophenol	30.3	55.3		12.1	6.05	183
Dibenzofuran	30.3	1,000	D	12.1	6.05	971
2,4-dinitrotoluene	30.3	30.9		12.1	6.05	102
2,3,4,6-Tetrachlorophenol	30.3	24.2		12.1	6.05	80
2,3,5,6-Tetrachlorophenol	30.3	28.0		12.1	6.05	93
Diethylphthalate	30.3	30.9		12.1	6.05	102
4-Chlorophenyl-phenylether	30.3	24.8		12.1	6.05	82
Fluorene	30.3	1,100	D	12.1	6.05	1028
C1-Fluorene			U	12.1	6.05	
C2-Fluorene			U	12.1	6.05	
C3-Fluorene			U	12.1	6.05	
4-Nitroaniline	30.3	35.9		12.1	6.05	119
4,6-Dinitro-2-methylphenol	30.3	25.9		12.1	6.05	86
n-Nitrosodiphenylamine	30.3	7.72	J	12.1	6.05	26
4-Bromophenyl phenyl ether	30.3	28.7		12.1	6.05	95
Hexachlorobenzene	30.3	30.8		12.1	6.05	102
Pentachlorophenol	30.3	13.2		12.1	6.05	44
Phenanthrene	30.3	2,530	D	12.1	6.05	2544
Anthracene	30.3	597		12.1	6.05	334
C1-Phenanthrene/Anthracene			U	12.1	6.05	
C2-Phenanthrene/Anthracene			U	12.1	6.05	
C3-Phenanthrene/Anthracene			U	12.1	6.05	
C4-Phenanthrene/Anthracene			U	12.1	6.05	
Retene			U	12.1	6.05	
Dibenzothiophene			U	12.1	6.05	
C1-Dibenzothiophene			U	12.1	6.05	
C2-Dibenzothiophene			U	12.1	6.05	
C3-Dibenzothiophene			U	12.1	6.05	
C4-Dibenzothiophene			U	12.1	6.05	
Carbazole	30.3	206		12.1	6.05	122
Di-n-butylphthalate	30.3	31.5		12.1	6.05	104
Bis(2-ethylhexyl) adipate	30.3	33.2		12.1	6.05	110
Fluoranthene	30.3	1,430	D	12.1	6.05	925
Pyrene	30.3	1,130	D	12.1	6.05	760
C1-Fluoranthene/Pyrene			U	12.1	6.05	

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike of PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02 MS-D		
File ID:	D030609.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.06
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
C2-Fluoranthene/Pyrene			U	12.1	6.05	
C3-Fluoranthene/Pyrene			U	12.1	6.05	
Benzo(b,c)fluorenes			U	12.1	6.05	
2-Methylpyrene			U	12.1	6.05	
4-Methylpyrene			U	12.1	6.05	
1-Methylpyrene			U	12.1	6.05	
Butylbenzylphthalate	30.3	32.4		12.1	6.05	107
Benz[a]anthracene	30.3	366		12.1	6.05	-93
Chrysene*	30.3	366		12.1	6.05	-93
C1-Benz(a)anthracene/Chrysene			U	12.1	6.05	
C2-Benz(a)anthracene/Chrysene			U	12.1	6.05	
C3-Benz(a)anthracene/Chrysene			U	12.1	6.05	
C4-Benz(a)anthracene/Chrysene			U	12.1	6.05	
bis(2-Ethylhexyl)phthalate	30.3	35.0		12.1	6.05	116
Di-n-octylphthalate	30.3	33.6		12.1	6.05	111
Benzo[b]fluoranthene	30.3	320		12.1	6.05	-149
Benzo[k]fluoranthene	30.3	231		12.1	6.05	-129
Benzo[a]pyrene	30.3	339		12.1	6.05	-145
Benzo[e]pyrene			U	12.1	6.05	
Perylene			U	12.1	6.05	
Indeno[1,2,3-cd]pyrene	30.3	200		12.1	6.05	-43
Dibenz[a,h]anthracene	30.3	71.8		12.1	6.05	50
Benzo[g,h,i]perylene	30.3	190		12.1	6.05	-36

Extraction Surrogate Recoveries (%)		Limits
2-Fluorophenol	81	50 - 120
Phenol-d5	83	50 - 120
Nitrobenzene-d5	98	50 - 120
2-Fluorobiphenyl	100	50 - 120
2,4,6-Tribromophenol	92	50 - 120
p-Terphenyl-d14	106	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
DL - Diluted out
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike Duplicate of PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02 MSD-D		
File ID:	D030610.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.19
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments	
SVOC COMPOUNDS:	Spike Amount					% Recovery	RPD
Pyridine	28.5	11.6		11.4	5.70	41	47.4
N-nitrosodimethylamine	28.5	11.3	J	11.4	5.70	40	55.1
Phenol	28.5	29.5		11.4	5.70	54	37
bis(2-Chloroethyl)ether	28.5	26.2		11.4	5.70	92	0
Aniline	28.5	22.0		11.4	5.70	77	12.8
2-Chlorophenol	28.5	22.7		11.4	5.70	80	13.2
1,3-Dichlorobenzene	57.0	57.9		11.4	5.70	102	4.1
1,4-Dichlorobenzene	57.0	59.4		11.4	5.70	104	2.3
Benzyl Alcohol	28.5	17.1		11.4	5.70	60	31.1
2-Methylphenol (m-cresol)	28.5	37.7		11.4	5.70	98	6.4
1,2-Dichlorobenzene	57.0	51.4		11.4	5.70	90	3.1
3,4-Methylphenol (o,p-cresol)	28.5	43.8		11.4	5.70	77	14.8
bis(2-chloroisopropyl)ether	28.5	25.2		11.4	5.70	88	5.4
N-nitroso-di-n-propylamine	28.5	25.1		11.4	5.70	88	2.8
Hexachloroethane	28.5	35.0		11.4	5.70	123	7.1
Nitrobenzene	28.5	30.9		11.4	5.70	108	10.4
Isophorone	28.5	29.4		11.4	5.70	103	0.7
2-Nitrophenol	28.5	22.4		11.4	5.70	79	13.3
2,4-Dimethylphenol	28.5	53.4		11.4	5.70	124	1.3
bis(2-Chloroethoxy)methane	28.5	26.8		11.4	5.70	94	7.5
1,2,4-Trichlorobenzene	57.0	62.8		11.4	5.70	110	1.7
Naphthalene	57.0	3,750	D	11.4	5.70	2720	5.5
C1-Naphthalene			U	11.4	5.70		
C2-Naphthalene			U	11.4	5.70		
C3-Naphthalene			U	11.4	5.70		
C4-Naphthalene			U	11.4	5.70		
2,4-Dichlorophenol	28.5	21.1		11.4	5.70	74	33.9
4-Chloroaniline	28.5	30.0		11.4	5.70	105	3.7
Hexachlorobutadiene	57.0	71.0		11.4	5.70	125	4.5
1,2,3-Trichlorobenzene	28.5	30.9		11.4	5.70	108	5.4
4-Chloro-3-methylphenol	28.5	25.0		11.4	5.70	88	29.9
2-Methylnaphthalene	28.5	1,970	D	11.4	5.70	2457	3.1
1-Methylnaphthalene	28.5	1,130	D	11.4	5.70	1337	0
Hexachlorocyclopentadiene	28.5		U	11.4	5.70	DL	DL
2,4,6-Trichlorophenol	28.5	24.4		11.4	5.70	86	23.2
2,4,5-Trichlorophenol	28.5	23.0		11.4	5.70	81	13.8
Diphenylamine	28.5	11.6		11.4	5.70	41	3.5
Azobenzene	28.5	33.2		11.4	5.70	117	8.5
2-Chloronaphthalene	28.5	28.0		11.4	5.70	98	1.4
2-Nitroaniline	28.5	41.0		11.4	5.70	144	5.5
1,4-Dinitrobenzene	28.5	74.2		11.4	5.70	260	7.4

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike Duplicate of PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02 MSD-D		
File ID:	D030610.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.19
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments	
Dimethylphthalate	28.5	31.2		11.4	5.70	109	0.6
1,3-Dinitrobenzene	28.5	23.8		11.4	5.70	84	4.1
Acenaphthylene	28.5	91.8		11.4	5.70	83	3.1
2,6-dinitrotoluene	28.5	25.9		11.4	5.70	91	3.4
1,2-Dinitrobenzene	28.5	25.2		11.4	5.70	88	1.6
3-Nitroaniline	28.5	22.7		11.4	5.70	80	6
Acenaphthene	28.5	1,180	D	11.4	5.70	1327	4.3
2,4-Dinitrophenol	28.5		U	11.4	5.70	DL	NA
4-Nitrophenol	28.5	54.2		11.4	5.70	190	2
Dibenzofuran	28.5	1,030	D	11.4	5.70	1137	3
2,4-dinitrotoluene	28.5	30.4		11.4	5.70	107	1.6
2,3,4,6-Tetrachlorophenol	28.5	9.24	J	11.4	5.70	32	89.5
2,3,5,6-Tetrachlorophenol	28.5	13.3		11.4	5.70	47	71.2
Diethylphthalate	28.5	30.4		11.4	5.70	107	1.6
4-Chlorophenyl-phenylether	28.5	21.9		11.4	5.70	77	12.4
Fluorene	28.5	1,130	D	11.4	5.70	1197	2.7
C1-Fluorene			U	11.4	5.70		
C2-Fluorene			U	11.4	5.70		
C3-Fluorene			U	11.4	5.70		
4-Nitroaniline	28.5	24.1		11.4	5.70	85	39.3
4,6-Dinitro-2-methylphenol	28.5		U	11.4	5.70	DL	NA
n-Nitrosodiphenylamine	28.5	8.61	J	11.4	5.70	30	10.9
4-Bromophenyl phenyl ether	28.5	29.8		11.4	5.70	105	3.8
Hexachlorobenzene	28.5	28.6		11.4	5.70	100	7.4
Pentachlorophenol	28.5		U	11.4	5.70	DL	NA
Phenanthrene	28.5	2,660	D	11.4	5.70	3159	5
Anthracene	28.5	585		11.4	5.70	312	2
C1-Phenanthrene/Anthracene			U	11.4	5.70		
C2-Phenanthrene/Anthracene			U	11.4	5.70		
C3-Phenanthrene/Anthracene			U	11.4	5.70		
C4-Phenanthrene/Anthracene			U	11.4	5.70		
Retene			U	11.4	5.70		
Dibenzothiophene			U	11.4	5.70		
C1-Dibenzothiophene			U	11.4	5.70		
C2-Dibenzothiophene			U	11.4	5.70		
C3-Dibenzothiophene			U	11.4	5.70		
C4-Dibenzothiophene			U	11.4	5.70		
Carbazole	28.5	199		11.4	5.70	105	3.5
Di-n-butylphthalate	28.5	31.8		11.4	5.70	112	0.9
Bis(2-ethylhexyl) adipate	28.5	34.0		11.4	5.70	119	2.4
Fluoranthene	28.5	1,490	D	11.4	5.70	1193	4.1
Pyrene	28.5	1,180	D	11.4	5.70	983	4.3
C1-Fluoranthene/Pyrene			U	11.4	5.70		

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike Duplicate of PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02 MSD-D		
File ID:	D030610.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.19
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments	
C2-Fluoranthene/Pyrene			U	11.4	5.70		
C3-Fluoranthene/Pyrene			U	11.4	5.70		
Benzo(b,c)fluorenes			U	11.4	5.70		
2-Methylpyrene			U	11.4	5.70		
4-Methylpyrene			U	11.4	5.70		
1-Methylpyrene			U	11.4	5.70		
Butylbenzylphthalate	28.5	33.2		11.4	5.70	117	2.4
Benz[a]anthracene	28.5	375		11.4	5.70	-67	2.4
Chrysene*	28.5	365		11.4	5.70	-102	0.3
C1-Benz(a)anthracene/Chrysene			U	11.4	5.70		
C2-Benz(a)anthracene/Chrysene			U	11.4	5.70		
C3-Benz(a)anthracene/Chrysene			U	11.4	5.70		
C4-Benz(a)anthracene/Chrysene			U	11.4	5.70		
bis(2-Ethylhexyl)phthalate	28.5	34.4		11.4	5.70	121	1.7
Di-n-octylphthalate	28.5	35.1		11.4	5.70	123	4.4
Benzo[b]fluoranthene	28.5	313		11.4	5.70	-182	2.2
Benzo[k]fluoranthene	28.5	214		11.4	5.70	-197	7.6
Benzo[a]pyrene	28.5	341		11.4	5.70	-147	0.6
Benzo[e]pyrene			U	11.4	5.70		
Perylene			U	11.4	5.70		
Indeno[1,2,3-cd]pyrene	28.5	202		11.4	5.70	-39	1
Dibenz[a,h]anthracene	28.5	74.0		11.4	5.70	61	3
Benzo[g,h,i]perylene	28.5	190		11.4	5.70	-39	0

Extraction Surrogate Recoveries (%)		Limits
2-Fluorophenol	55	50 - 120
Phenol-d5	60	50 - 120
Nitrobenzene-d5	102	50 - 120
2-Fluorobiphenyl	104	51 - 120
2,4,6-Tribromophenol	88	52 - 120
p-Terphenyl-d14	114	53 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
DL - Diluted out
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01Dup-D		
File ID:	D030607.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.22
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
SVOC COMPOUNDS:					RPD
Pyridine		U	12.1	6.05	NA
N-nitrosodimethylamine		U	12.1	6.05	NA
Phenol		U	12.1	6.05	NA
bis(2-Chloroethyl)ether		U	12.1	6.05	NA
Aniline		U	12.1	6.05	NA
2-Chlorophenol		U	12.1	6.05	NA
1,3-Dichlorobenzene		U	12.1	6.05	NA
1,4-Dichlorobenzene		U	12.1	6.05	NA
Benzyl Alcohol		U	12.1	6.05	NA
2-Methylphenol (m-cresol)		U	12.1	6.05	NA
1,2-Dichlorobenzene		U	12.1	6.05	NA
3,4-Methylphenol (o,p-cresol)		U	12.1	6.05	NA
bis(2-chloroisopropyl)ether		U	12.1	6.05	NA
N-nitroso-di-n-propylamine		U	12.1	6.05	NA
Hexachloroethane		U	12.1	6.05	NA
Nitrobenzene		U	12.1	6.05	NA
Isophorone		U	12.1	6.05	NA
2-Nitrophenol		U	12.1	6.05	NA
2,4-Dimethylphenol		U	12.1	6.05	NA
bis(2-Chloroethoxy)methane		U	12.1	6.05	NA
1,2,4-Trichlorobenzene		U	12.1	6.05	NA
Naphthalene	142		12.1	6.05	19.1
C1-Naphthalene	799		12.1	6.05	13.3
C2-Naphthalene	240		12.1	6.05	14
C3-Naphthalene	55.0		12.1	6.05	13.7
C4-Naphthalene	7.91	J	12.1	6.05	0.9
2,4-Dichlorophenol		U	12.1	6.05	NA
4-Chloroaniline		U	12.1	6.05	NA
Hexachlorobutadiene		U	12.1	6.05	NA
1,2,3-Trichlorobenzene		U	12.1	6.05	NA
4-Chloro-3-methylphenol		U	12.1	6.05	NA
2-Methylnaphthalene	1,120	D	12.1	6.05	16
1-Methylnaphthalene	421		12.1	6.05	11.6
Hexachlorocyclopentadiene		U	12.1	6.05	NA
2,4,6-Trichlorophenol		U	12.1	6.05	NA
2,4,5-Trichlorophenol		U	12.1	6.05	NA
Diphenylamine		U	12.1	6.05	NA
Azobenzene		U	12.1	6.05	NA
2-Chloronaphthalene		U	12.1	6.05	NA
2-Nitroaniline	6.88	J	12.1	6.05	NA
1,4-Dinitrobenzene		U	12.1	6.05	NA

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01Dup-D		
File ID:	D030607.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.22
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
Dimethylphthalate		U	12.1	6.05	NA
1,3-Dinitrobenzene		U	12.1	6.05	NA
Acenaphthylene	20.5		12.1	6.05	9.3
2,6-dinitrotoluene		U	12.1	6.05	NA
1,2-Dinitrobenzene		U	12.1	6.05	NA
3-Nitroaniline		U	12.1	6.05	NA
Acenaphthene	300		12.1	6.05	16
2,4-Dinitrophenol		U	12.1	6.05	NA
4-Nitrophenol		U	12.1	6.05	NA
Dibenzofuran	298		12.1	6.05	16.3
2,4-dinitrotoluene		U	12.1	6.05	NA
2,3,4,6-Tetrachlorophenol		U	12.1	6.05	NA
2,3,5,6-Tetrachlorophenol		U	12.1	6.05	NA
Diethylphthalate		U	12.1	6.05	NA
4-Chlorophenyl-phenylether		U	12.1	6.05	NA
Fluorene	250		12.1	6.05	15.2
C1-Fluorene	24.0		12.1	6.05	12.9
C2-Fluorene	17.0		12.1	6.05	28.2
C3-Fluorene	10.9	J	12.1	6.05	27
4-Nitroaniline		U	12.1	6.05	NA
4,6-Dinitro-2-methylphenol		U	12.1	6.05	NA
n-Nitrosodiphenylamine		U	12.1	6.05	NA
4-Bromophenyl phenyl ether		U	12.1	6.05	NA
Hexachlorobenzene		U	12.1	6.05	NA
Pentachlorophenol		U	12.1	6.05	NA
Phenanthrene	308		12.1	6.05	27
Anthracene	123		12.1	6.05	33.2
C1-Phenanthrene/Anthracene	101		12.1	6.05	24.3
C2-Phenanthrene/Anthracene	49.6		12.1	6.05	19.1
C3-Phenanthrene/Anthracene	22.2		12.1	6.05	12.7
C4-Phenanthrene/Anthracene		U	12.1	6.05	NA
Retene		U	12.1	6.05	NA
Dibenzothiophene	25.6		12.1	6.05	25.9
C1-Dibenzothiophene	13.0		12.1	6.05	13.6
C2-Dibenzothiophene	11.9	J	12.1	6.05	7
C3-Dibenzothiophene	6.41	J	12.1	6.05	NA
C4-Dibenzothiophene		U	12.1	6.05	NA
Carbazole	29.1		12.1	6.05	39
Di-n-butylphthalate		U	12.1	6.05	NA
Bis(2-ethylhexyl) adipate		U	12.1	6.05	NA
Fluoranthene	332		12.1	6.05	31.3
Pyrene	257		12.1	6.05	30.6
C1-Fluoranthene/Pyrene	158		12.1	6.05	26.4

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01Dup-D		
File ID:	D030607.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	2/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	3/5/2007	Sample Size (g):	2.22
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/6/2007	Extract Volume (µl):	2000
Instrument:	Duster	Prep DF:	1.00
Operator:	KC	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070305-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C2-Fluoranthene/Pyrene	82.0		12.1	6.05	23.7
C3-Fluoranthene/Pyrene	34.9		12.1	6.05	24.6
Benzo(b,c)fluorenes	34.2		12.1	6.05	33.4
2-Methylpyrene	18.3		12.1	6.05	18.8
4-Methylpyrene	14.7		12.1	6.05	10.3
1-Methylpyrene	12.2		12.1	6.05	15.2
Butylbenzylphthalate		U	12.1	6.05	NA
Benz[a]anthracene	142		12.1	6.05	32.4
Chrysene*	141		12.1	6.05	34.6
C1-Benz(a)anthracene/Chrysene	75.2		12.1	6.05	26.9
C2-Benz(a)anthracene/Chrysene	26.3		12.1	6.05	28.4
C3-Benz(a)anthracene/Chrysene	12.0	J	12.1	6.05	78.2
C4-Benz(a)anthracene/Chrysene		U	12.1	6.05	NA
bis(2-Ethylhexyl)phthalate	7.28	J	12.1	6.05	16.6
Di-n-octylphthalate		U	12.1	6.05	NA
Benzo[b]fluoranthene	111		12.1	6.05	37.4
Benzo[k]fluoranthene	106		12.1	6.05	27.6
Benzo[a]pyrene	136		12.1	6.05	33.1
Benzo[e]pyrene	91.4		12.1	6.05	31.8
Perylene	35.8		12.1	6.05	39.8
Indeno[1,2,3-cd]pyrene	91.5		12.1	6.05	30.9
Dibenz[a,h]anthracene	22.5		12.1	6.05	28.6
Benzo[g,h,i]perylene	88.8		12.1	6.05	31.5

Extraction Surrogate Recoveries (%)		Limits
2-Fluorophenol	DL	50 - 120
Phenol-d5	DL	50 - 120
Nitrobenzene-d5	88	50 - 120
2-Fluorobiphenyl	109	50 - 120
2,4,6-Tribromophenol	DL	50 - 120
p-Terphenyl-d14	112	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
DL - Surrogate diluted out
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Appendix D

Petroleum Biomarker Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01-D2		
File ID:	E030721.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.40
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
Terpanes					
C19 Tricyclic terpane	0.842		0.112	0.056	
C20 Tricyclic terpane		U	0.112	0.056	
C21 Tricyclic terpane		U	0.112	0.056	
C22 Tricyclic terpane	0.271		0.112	0.056	
C23 Tricyclic terpane	0.236		0.112	0.056	
C24 Tricyclic terpane	0.182		0.112	0.056	
C25 Tricyclic terpane-22S	0.087	J	0.112	0.056	
C25 Tricyclic terpane-22R	0.106	J	0.112	0.056	
C26 Tricyclic terpane-22S	0.510		0.112	0.056	
C26 Tricyclic terpane-22R	0.085	J	0.112	0.056	
C24 Tetracyclic terpane	0.203		0.112	0.056	
C28 Tricyclic terpane-22S	0.111	J	0.112	0.056	
C28 Tricyclic terpane-22R	0.177		0.112	0.056	
C29 Tricyclic terpane-22S	0.261		0.112	0.056	
C29 Tricyclic terpane-22R	0.144		0.112	0.056	
18a(H)-22,29,30-Trisnorneohopane - Ts	0.415		0.112	0.056	
C30 Tricyclic terpane-22S	0.157		0.112	0.056	
C30 Tricyclic terpane-22R	0.107	J	0.112	0.056	
17a(H)-22,29,30-Trisnorhopane - Tm	0.593		0.112	0.056	
17b(H)-22,29,30-Trisnorhopane		U	0.112	0.056	
17a(H)-29,30-Bisnorhopane		U	0.112	0.056	
17b(H),21b(H)-28,30-Bisnorhopane	0.140		0.112	0.056	
17b(H),21a(H)-28,30-Bisnorhopane		U	0.112	0.056	
17a(H),21b(H)-28,30-Bisnorhopane		U	0.112	0.056	
17a(H),21b(H)-25-Norhopane		U	0.112	0.056	
30-Norhopane	1.56		0.112	0.056	
18a(H)-30-Norneohopane - C29Ts	0.501		0.112	0.056	
15a-methyl-17a(H)-27-Norhopane	0.239		0.112	0.056	
30-Normortane	0.336		0.112	0.056	
Oleananes	0.227		0.112	0.056	
Hopane	2.82		0.112	0.056	
Moretane	0.560		0.112	0.056	
17a(H),21b(H)-30-Homohopane-22S	0.878		0.112	0.056	
17a(H),21b(H)-30-Homohopane-22R	0.824		0.112	0.056	
Gammacerane		U	0.112	0.056	
17b(H),21b(H)-Hopane	0.392		0.112	0.056	
30-Homomoretane-22R	0.242		0.112	0.056	
Hop-22(29)-ene		U	0.112	0.056	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01-D2		
File ID:	E030721.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.40
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
30,31-Bishomohopane-22S	0.517		0.112	0.056	
30,31-Bishomohopane-22R	0.557		0.112	0.056	
30,31-Bishomomoretane-22R		U	0.112	0.056	
17b(H),21b(H)-Homohopane-22R		U	0.112	0.056	
30,31,32-Trishomohopane-22S	0.372		0.112	0.056	
30,31,32-Trishomohopane-22R	0.252		0.112	0.056	
30,31,32,33-Tetrakishomohopane-22S	0.307		0.112	0.056	
30,31,32,33-Tetrakishomohopane-22R		U	0.112	0.056	
30,31,32,33,34-Pentakishomohopane-22S		U	0.112	0.056	
30,31,32,33,34-Pentakishomohopane-22R		U	0.112	0.056	
Steranes					
C20 14a(H),17a(H)-Sterane		U	0.112	0.056	
C21 14b(H),17b(H)-Sterane		U	0.112	0.056	
C22 14b(H),17b(H)-Sterane		U	0.112	0.056	
C27 13b(H),17a(H)-20S-Diasterane	0.323		0.112	0.056	
C27 13b(H),17a(H)-20R-Diasterane	0.242		0.112	0.056	
C27 13a(H),17b(H)-20S-Diasterane		U	0.112	0.056	
C27 13a(H),17b(H)-20R-Diasterane		U	0.112	0.056	
C28 13b(H),17a(H)-20S-Diasterane		U	0.112	0.056	
C28 13a(H),17b(H)-20S-Diasterane		U	0.112	0.056	
C28 13a(H),17b(H)-20R-Diasterane		U	0.112	0.056	
C27 14a(H),17a(H)-20S-Cholestane	0.276		0.112	0.056	
C27 14b(H),17b(H)-20R-Cholestane	0.205		0.112	0.056	
C27 14b(H),17b(H)-20S-Cholestane	0.317		0.112	0.056	
C27 14a(H),17a(H)-20R-Cholestane	0.536		0.112	0.056	
C29 13b(H),17a(H)-20S-Diasterane		U	0.112	0.056	
C29 13b(H),17a(H)-20R-Diasterane		U	0.112	0.056	
C28 14a(H),17a(H)-20S-Methylcholestane		U	0.112	0.056	
C28 14b(H),17b(H)-20R-Methylcholestane	0.331		0.112	0.056	
C28 14b(H),17b(H)-20S-Methylcholestane	0.317		0.112	0.056	
C28 14a(H),17a(H)-20R-Methylcholestane	0.273		0.112	0.056	
C29 14a(H),17a(H)-20S-Ethylcholestane	0.461		0.112	0.056	
C29 14b(H),17b(H)-20R-Ethylcholestane	0.638		0.112	0.056	
C29 14b(H),17b(H)-20S-Ethylcholestane	0.507		0.112	0.056	
C29 14a(H),17a(H)-20R-Ethylcholestane	0.589		0.112	0.056	
Total Terpanes	15.2		0.112	0.056	
Total Steranes	12.3		0.112	0.056	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01-D2		
File ID:	E030721.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.40
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Extraction Surrogate Recoveries (%)		Limits		
Phenanthrene-d10	97	50 - 120		
Perylene-d12	219	50 - 120		

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02-D3		
File ID:	E030723.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.42
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
Terpanes					
C19 Tricyclic terpane		U	0.103	0.052	
C20 Tricyclic terpane		U	0.103	0.052	
C21 Tricyclic terpane		U	0.103	0.052	
C22 Tricyclic terpane		U	0.103	0.052	
C23 Tricyclic terpane		U	0.103	0.052	
C24 Tricyclic terpane		U	0.103	0.052	
C25 Tricyclic terpane-22S		U	0.103	0.052	
C25 Tricyclic terpane-22R	0.211		0.103	0.052	
C26 Tricyclic terpane-22S	0.929		0.103	0.052	
C26 Tricyclic terpane-22R	0.124		0.103	0.052	
C24 Tetracyclic terpane	0.105		0.103	0.052	
C28 Tricyclic terpane-22S		U	0.103	0.052	
C28 Tricyclic terpane-22R	0.217		0.103	0.052	
C29 Tricyclic terpane-22S	0.202		0.103	0.052	
C29 Tricyclic terpane-22R		U	0.103	0.052	
18a(H)-22,29,30-Trisnorneohopane - Ts		U	0.103	0.052	
C30 Tricyclic terpane-22S		U	0.103	0.052	
C30 Tricyclic terpane-22R		U	0.103	0.052	
17a(H)-22,29,30-Trisnorhopane - Tm	0.286		0.103	0.052	
17b(H)-22,29,30-Trisnorhopane		U	0.103	0.052	
17a(H)-29,30-Bisnorhopane		U	0.103	0.052	
17b(H),21b(H)-28,30-Bisnorhopane		U	0.103	0.052	
17b(H),21a(H)-28,30-Bisnorhopane		U	0.103	0.052	
17a(H),21b(H)-28,30-Bisnorhopane		U	0.103	0.052	
17a(H),21b(H)-25-Norhopane		U	0.103	0.052	
30-Norhopane	0.349		0.103	0.052	
18a(H)-30-Norneohopane - C29Ts		U	0.103	0.052	
15a-methyl-17a(H)-27-Norhopane		U	0.103	0.052	
30-Normortane		U	0.103	0.052	
Oleananes		U	0.103	0.052	
Hopane	0.381		0.103	0.052	
Moretane	0.119		0.103	0.052	
17a(H),21b(H)-30-Homohopane-22S	0.126		0.103	0.052	
17a(H),21b(H)-30-Homohopane-22R		U	0.103	0.052	
Gammacerane		U	0.103	0.052	
17b(H),21b(H)-Hopane		U	0.103	0.052	
30-Homomoretane-22R		U	0.103	0.052	
Hop-22(29)-ene		U	0.103	0.052	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02-D3		
File ID:	E030723.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.42
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
30,31-Bishomohopane-22S	U	0.103	0.052	
30,31-Bishomohopane-22R	U	0.103	0.052	
30,31-Bishomomoretane-22R	U	0.103	0.052	
17b(H),21b(H)-Homohopane-22R	U	0.103	0.052	
30,31,32-Trishomohopane-22S	U	0.103	0.052	
30,31,32-Trishomohopane-22R	U	0.103	0.052	
30,31,32,33-Tetrakishomohopane-22S	U	0.103	0.052	
30,31,32,33-Tetrakishomohopane-22R	U	0.103	0.052	
30,31,32,33,34-Pentakishomohopane-22S	U	0.103	0.052	
30,31,32,33,34-Pentakishomohopane-22R	U	0.103	0.052	
Steranes				
C20 14a(H),17a(H)-Sterane	U	0.103	0.052	
C21 14b(H),17b(H)-Sterane	U	0.103	0.052	
C22 14b(H),17b(H)-Sterane	U	0.103	0.052	
C27 13b(H),17a(H)-20S-Diasterane	U	0.103	0.052	
C27 13b(H),17a(H)-20R-Diasterane	U	0.103	0.052	
C27 13a(H),17b(H)-20S-Diasterane	U	0.103	0.052	
C27 13a(H),17b(H)-20R-Diasterane	U	0.103	0.052	
C28 13b(H),17a(H)-20S-Diasterane	U	0.103	0.052	
C28 13a(H),17b(H)-20S-Diasterane	U	0.103	0.052	
C28 13a(H),17b(H)-20R-Diasterane	U	0.103	0.052	
C27 14a(H),17a(H)-20S-Cholestane	U	0.103	0.052	
C27 14b(H),17b(H)-20R-Cholestane	U	0.103	0.052	
C27 14b(H),17b(H)-20S-Cholestane	U	0.103	0.052	
C27 14a(H),17a(H)-20R-Cholestane	U	0.103	0.052	
C29 13b(H),17a(H)-20S-Diasterane	U	0.103	0.052	
C29 13b(H),17a(H)-20R-Diasterane	U	0.103	0.052	
C28 14a(H),17a(H)-20S-Methylcholestane	U	0.103	0.052	
C28 14b(H),17b(H)-20R-Methylcholestane	U	0.103	0.052	
C28 14b(H),17b(H)-20S-Methylcholestane	U	0.103	0.052	
C28 14a(H),17a(H)-20R-Methylcholestane	U	0.103	0.052	
C29 14a(H),17a(H)-20S-Ethylcholestane	U	0.103	0.052	
C29 14b(H),17b(H)-20R-Ethylcholestane	U	0.103	0.052	
C29 14b(H),17b(H)-20S-Ethylcholestane	U	0.103	0.052	
C29 14a(H),17a(H)-20R-Ethylcholestane	U	0.103	0.052	
Total Terpanes	3.05	0.103	0.052	
Total Steranes	0.975	0.103	0.052	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P2 (2.5-3.5) PP-P2-3.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-02-D3		
File ID:	E030723.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.42
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Extraction Surrogate Recoveries (%)		Limits		
Phenanthrene-d10	100	50 - 120		
Perylene-d12	288	50 - 120		

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P3 (3.5-4.5) PP-P3-4.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-03-D2		
File ID:	E030725.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.26
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Terpanes				
C19 Tricyclic terpane	U	0.110	0.055	
C20 Tricyclic terpane	U	0.110	0.055	
C21 Tricyclic terpane	U	0.110	0.055	
C22 Tricyclic terpane	U	0.110	0.055	
C23 Tricyclic terpane	0.362	0.110	0.055	
C24 Tricyclic terpane	0.249	0.110	0.055	
C25 Tricyclic terpane-22S	0.111	0.110	0.055	
C25 Tricyclic terpane-22R	0.200	0.110	0.055	
C26 Tricyclic terpane-22S	1.2	0.110	0.055	
C26 Tricyclic terpane-22R	0.124	0.110	0.055	
C24 Tetracyclic terpane	0.142	0.110	0.055	
C28 Tricyclic terpane-22S	U	0.110	0.055	
C28 Tricyclic terpane-22R	0.412	0.110	0.055	
C29 Tricyclic terpane-22S	0.254	0.110	0.055	
C29 Tricyclic terpane-22R	0.156	0.110	0.055	
18a(H)-22,29,30-Trisnorneohopane - Ts	0.282	0.110	0.055	
C30 Tricyclic terpane-22S	0.148	0.110	0.055	
C30 Tricyclic terpane-22R	0.192	0.110	0.055	
17a(H)-22,29,30-Trisnorhopane - Tm	0.492	0.110	0.055	
17b(H)-22,29,30-Trisnorhopane	U	0.110	0.055	
17a(H)-29,30-Bisnorhopane	U	0.110	0.055	
17b(H),21b(H)-28,30-Bisnorhopane	U	0.110	0.055	
17b(H),21a(H)-28,30-Bisnorhopane	U	0.110	0.055	
17a(H),21b(H)-28,30-Bisnorhopane	U	0.110	0.055	
17a(H),21b(H)-25-Norhopane	U	0.110	0.055	
30-Norhopane	1.17	0.110	0.055	
18a(H)-30-Norneohopane - C29Ts	0.213	0.110	0.055	
15a-methyl-17a(H)-27-Norhopane	0.217	0.110	0.055	
30-Normortane	0.127	0.110	0.055	
Oleananes	0.161	0.110	0.055	
Hopane	1.55	0.110	0.055	
Moretane	0.231	0.110	0.055	
17a(H),21b(H)-30-Homohopane-22S	0.754	0.110	0.055	
17a(H),21b(H)-30-Homohopane-22R	0.519	0.110	0.055	
Gammacerane	U	0.110	0.055	
17b(H),21b(H)-Hopane	0.207	0.110	0.055	
30-Homomoretane-22R	U	0.110	0.055	
Hop-22(29)-ene	U	0.110	0.055	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P3 (3.5-4.5) PP-P3-4.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-03-D2		
File ID:	E030725.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.26
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
30,31-Bishomohopane-22S	0.524		0.110	0.055	
30,31-Bishomohopane-22R	0.274		0.110	0.055	
30,31-Bishomomoretane-22R		U	0.110	0.055	
17b(H),21b(H)-Homohopane-22R		U	0.110	0.055	
30,31,32-Trishomohopane-22S	0.366		0.110	0.055	
30,31,32-Trishomohopane-22R	0.240		0.110	0.055	
30,31,32,33-Tetrakishomohopane-22S	0.352		0.110	0.055	
30,31,32,33-Tetrakishomohopane-22R		U	0.110	0.055	
30,31,32,33,34-Pentakishomohopane-22S		U	0.110	0.055	
30,31,32,33,34-Pentakishomohopane-22R		U	0.110	0.055	
Steranes					
C20 14a(H),17a(H)-Sterane		U	0.110	0.055	
C21 14b(H),17b(H)-Sterane		U	0.110	0.055	
C22 14b(H),17b(H)-Sterane		U	0.110	0.055	
C27 13b(H),17a(H)-20S-Diasterane	0.711		0.110	0.055	
C27 13b(H),17a(H)-20R-Diasterane		U	0.110	0.055	
C27 13a(H),17b(H)-20S-Diasterane		U	0.110	0.055	
C27 13a(H),17b(H)-20R-Diasterane		U	0.110	0.055	
C28 13b(H),17a(H)-20S-Diasterane		U	0.110	0.055	
C28 13a(H),17b(H)-20S-Diasterane		U	0.110	0.055	
C28 13a(H),17b(H)-20R-Diasterane		U	0.110	0.055	
C27 14a(H),17a(H)-20S-Cholestane		U	0.110	0.055	
C27 14b(H),17b(H)-20R-Cholestane	0.306		0.110	0.055	
C27 14b(H),17b(H)-20S-Cholestane	0.330		0.110	0.055	
C27 14a(H),17a(H)-20R-Cholestane	0.336		0.110	0.055	
C29 13b(H),17a(H)-20S-Diasterane		U	0.110	0.055	
C29 13b(H),17a(H)-20R-Diasterane		U	0.110	0.055	
C28 14a(H),17a(H)-20S-Methylcholestane		U	0.110	0.055	
C28 14b(H),17b(H)-20R-Methylcholestane	0.311		0.110	0.055	
C28 14b(H),17b(H)-20S-Methylcholestane	0.345		0.110	0.055	
C28 14a(H),17a(H)-20R-Methylcholestane	0.257		0.110	0.055	
C29 14a(H),17a(H)-20S-Ethylcholestane	0.295		0.110	0.055	
C29 14b(H),17b(H)-20R-Ethylcholestane	0.370		0.110	0.055	
C29 14b(H),17b(H)-20S-Ethylcholestane	0.318		0.110	0.055	
C29 14a(H),17a(H)-20R-Ethylcholestane	0.359		0.110	0.055	
Total Terpanes	11.2		0.110	0.055	
Total Steranes	8.46		0.110	0.055	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: PP-P3 (3.5-4.5) PP-P3-4.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-03-D2		
File ID:	E030725.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.26
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Extraction Surrogate Recoveries (%)		Limits		
Phenanthrene-d10	41	50 - 120		
Perylene-d12	194	50 - 120		

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070227-SB		
File ID:	E030719.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	2/27/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Terpanes				
C19 Tricyclic terpane	U	0.010	0.005	
C20 Tricyclic terpane	U	0.010	0.005	
C21 Tricyclic terpane	U	0.010	0.005	
C22 Tricyclic terpane	U	0.010	0.005	
C23 Tricyclic terpane	U	0.010	0.005	
C24 Tricyclic terpane	U	0.010	0.005	
C25 Tricyclic terpane-22S	U	0.010	0.005	
C25 Tricyclic terpane-22R	U	0.010	0.005	
C26 Tricyclic terpane-22S	U	0.010	0.005	
C26 Tricyclic terpane-22R	U	0.010	0.005	
C24 Tetracyclic terpane	U	0.010	0.005	
C28 Tricyclic terpane-22S	U	0.010	0.005	
C28 Tricyclic terpane-22R	U	0.010	0.005	
C29 Tricyclic terpane-22S	U	0.010	0.005	
C29 Tricyclic terpane-22R	U	0.010	0.005	
18a(H)-22,29,30-Trisnorneohopane - Ts	U	0.010	0.005	
C30 Tricyclic terpane-22S	U	0.010	0.005	
C30 Tricyclic terpane-22R	U	0.010	0.005	
17a(H)-22,29,30-Trisnorhopane - Tm	U	0.010	0.005	
17b(H)-22,29,30-Trisnorhopane	U	0.010	0.005	
17a(H)-29,30-Bisnorhopane	U	0.010	0.005	
17b(H),21b(H)-28,30-Bisnorhopane	U	0.010	0.005	
17b(H),21a(H)-28,30-Bisnorhopane	U	0.010	0.005	
17a(H),21b(H)-28,30-Bisnorhopane	U	0.010	0.005	
17a(H),21b(H)-25-Norhopane	U	0.010	0.005	
30-Norhopane	U	0.010	0.005	
18a(H)-30-Norneohopane - C29Ts	U	0.010	0.005	
15a-methyl-17a(H)-27-Norhopane	U	0.010	0.005	
30-Normortane	U	0.010	0.005	
Oleananes	U	0.010	0.005	
Hopane	U	0.010	0.005	
Moretane	U	0.010	0.005	
17a(H),21b(H)-30-Homohopane-22S	U	0.010	0.005	
17a(H),21b(H)-30-Homohopane-22R	U	0.010	0.005	
Gammacerane	U	0.010	0.005	
17b(H),21b(H)-Hopane	U	0.010	0.005	
30-Homomoretane-22R	U	0.010	0.005	
Hop-22(29)-ene	U	0.010	0.005	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070227-SB		
File ID:	E030719.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	2/27/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
30,31-Bishomohopane-22S	U	0.010	0.005	
30,31-Bishomohopane-22R	U	0.010	0.005	
30,31-Bishomomoretane-22R	U	0.010	0.005	
17b(H),21b(H)-Homohopane-22R	U	0.010	0.005	
30,31,32-Trishomohopane-22S	U	0.010	0.005	
30,31,32-Trishomohopane-22R	U	0.010	0.005	
30,31,32,33-Tetrakishomohopane-22S	U	0.010	0.005	
30,31,32,33-Tetrakishomohopane-22R	U	0.010	0.005	
30,31,32,33,34-Pentakishomohopane-22S	U	0.010	0.005	
30,31,32,33,34-Pentakishomohopane-22R	U	0.010	0.005	
Steranes				
C20 14a(H),17a(H)-Sterane	U	0.010	0.005	
C21 14b(H),17b(H)-Sterane	U	0.010	0.005	
C22 14b(H),17b(H)-Sterane	U	0.010	0.005	
C27 13b(H),17a(H)-20S-Diasterane	U	0.010	0.005	
C27 13b(H),17a(H)-20R-Diasterane	U	0.010	0.005	
C27 13a(H),17b(H)-20S-Diasterane	U	0.010	0.005	
C27 13a(H),17b(H)-20R-Diasterane	U	0.010	0.005	
C28 13b(H),17a(H)-20S-Diasterane	U	0.010	0.005	
C28 13a(H),17b(H)-20S-Diasterane	U	0.010	0.005	
C28 13a(H),17b(H)-20R-Diasterane	U	0.010	0.005	
C27 14a(H),17a(H)-20S-Cholestane	U	0.010	0.005	
C27 14b(H),17b(H)-20R-Cholestane	U	0.010	0.005	
C27 14b(H),17b(H)-20S-Cholestane	U	0.010	0.005	
C27 14a(H),17a(H)-20R-Cholestane	U	0.010	0.005	
C29 13b(H),17a(H)-20S-Diasterane	U	0.010	0.005	
C29 13b(H),17a(H)-20R-Diasterane	U	0.010	0.005	
C28 14a(H),17a(H)-20S-Methylcholestane	U	0.010	0.005	
C28 14b(H),17b(H)-20R-Methylcholestane	U	0.010	0.005	
C28 14b(H),17b(H)-20S-Methylcholestane	U	0.010	0.005	
C28 14a(H),17a(H)-20R-Methylcholestane	U	0.010	0.005	
C29 14a(H),17a(H)-20S-Ethylcholestane	U	0.010	0.005	
C29 14b(H),17b(H)-20R-Ethylcholestane	U	0.010	0.005	
C29 14b(H),17b(H)-20S-Ethylcholestane	U	0.010	0.005	
C29 14a(H),17a(H)-20R-Ethylcholestane	U	0.010	0.005	
Total Terpanes	U	0.010	0.005	
Total Steranes	U	0.010	0.005	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070227-SB		
File ID:	E030719.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	2/27/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Extraction Surrogate Recoveries (%)		Limits		
Phenanthrene-d10	104	50 - 120		
Perylene-d12	108	50 - 120		

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01DUP-D		
File ID:	E030722.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.45
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
Terpanes					RPD
C19 Tricyclic terpane		U	0.110	0.055	NA
C20 Tricyclic terpane		U	0.110	0.055	NA
C21 Tricyclic terpane		U	0.110	0.055	NA
C22 Tricyclic terpane		U	0.110	0.055	NA
C23 Tricyclic terpane	0.176		0.110	0.055	29.1
C24 Tricyclic terpane	0.147		0.110	0.055	21.3
C25 Tricyclic terpane-22S	0.098	J	0.110	0.055	11.9
C25 Tricyclic terpane-22R	0.117		0.110	0.055	9.9
C26 Tricyclic terpane-22S	1.01		0.110	0.055	65.8
C26 Tricyclic terpane-22R		U	0.110	0.055	NA
C24 Tetracyclic terpane	0.151		0.110	0.055	29.4
C28 Tricyclic terpane-22S	0.098	J	0.110	0.055	12.4
C28 Tricyclic terpane-22R	0.181		0.110	0.055	2.2
C29 Tricyclic terpane-22S	0.146		0.110	0.055	56.5
C29 Tricyclic terpane-22R	0.158		0.110	0.055	9.3
18a(H)-22,29,30-Trisnorneohopane - Ts	0.344		0.110	0.055	18.7
C30 Tricyclic terpane-22S	0.153		0.110	0.055	2.6
C30 Tricyclic terpane-22R	0.141		0.110	0.055	27.4
17a(H)-22,29,30-Trisnorhopane - Tm	0.407		0.110	0.055	37.2
17b(H)-22,29,30-Trisnorhopane		U	0.110	0.055	NA
17a(H)-29,30-Bisnorhopane		U	0.110	0.055	NA
17b(H),21b(H)-28,30-Bisnorhopane		U	0.110	0.055	NA
17b(H),21a(H)-28,30-Bisnorhopane		U	0.110	0.055	NA
17a(H),21b(H)-28,30-Bisnorhopane		U	0.110	0.055	NA
17a(H),21b(H)-25-Norhopane		U	0.110	0.055	NA
30-Norhopane	1.16		0.110	0.055	29.4
18a(H)-30-Norneohopane - C29Ts	0.390		0.110	0.055	24.9
15a-methyl-17a(H)-27-Norhopane	0.144		0.110	0.055	49.6
30-Normortane	0.293		0.110	0.055	13.7
Oleananes	0.230		0.110	0.055	1.3
Hopane	2.1		0.110	0.055	29.3
Moretane	0.362		0.110	0.055	43
17a(H),21b(H)-30-Homohopane-22S	0.635		0.110	0.055	32.1
17a(H),21b(H)-30-Homohopane-22R	0.508		0.110	0.055	47.4
Gammacerane		U	0.110	0.055	NA
17b(H),21b(H)-Hopane	0.187		0.110	0.055	70.8
30-Homomoretane-22R	0.163		0.110	0.055	39
Hop-22(29)-ene		U	0.110	0.055	NA

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01DUP-D		
File ID:	E030722.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.45
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
30,31-Bishomohopane-22S	0.394		0.110	0.055	27
30,31-Bishomohopane-22R	0.390		0.110	0.055	35.3
30,31-Bishomomoretane-22R		U	0.110	0.055	NA
17b(H),21b(H)-Homohopane-22R		U	0.110	0.055	NA
30,31,32-Trishomohopane-22S	0.250		0.110	0.055	39.2
30,31,32-Trishomohopane-22R	0.215		0.110	0.055	15.8
30,31,32,33-Tetrakishomohopane-22S	0.232		0.110	0.055	27.8
30,31,32,33-Tetrakishomohopane-22R		U	0.110	0.055	NA
30,31,32,33,34-Pentakishomohopane-22S		U	0.110	0.055	NA
30,31,32,33,34-Pentakishomohopane-22R		U	0.110	0.055	NA
Steranes					
C20 14a(H),17a(H)-Sterane		U	0.110	0.055	NA
C21 14b(H),17b(H)-Sterane		U	0.110	0.055	NA
C22 14b(H),17b(H)-Sterane		U	0.110	0.055	NA
C27 13b(H),17a(H)-20S-Diasterane		U	0.110	0.055	NA
C27 13b(H),17a(H)-20R-Diasterane		U	0.110	0.055	NA
C27 13a(H),17b(H)-20S-Diasterane		U	0.110	0.055	NA
C27 13a(H),17b(H)-20R-Diasterane		U	0.110	0.055	NA
C28 13b(H),17a(H)-20S-Diasterane		U	0.110	0.055	NA
C28 13a(H),17b(H)-20S-Diasterane		U	0.110	0.055	NA
C28 13a(H),17b(H)-20R-Diasterane		U	0.110	0.055	NA
C27 14a(H),17a(H)-20S-Cholestane	0.237		0.110	0.055	15.2
C27 14b(H),17b(H)-20R-Cholestane	0.184		0.110	0.055	10.8
C27 14b(H),17b(H)-20S-Cholestane	0.242		0.110	0.055	26.8
C27 14a(H),17a(H)-20R-Cholestane	0.545		0.110	0.055	1.7
C29 13b(H),17a(H)-20S-Diasterane		U	0.110	0.055	NA
C29 13b(H),17a(H)-20R-Diasterane		U	0.110	0.055	NA
C28 14a(H),17a(H)-20S-Methylcholestane		U	0.110	0.055	NA
C28 14b(H),17b(H)-20R-Methylcholestane	0.230		0.110	0.055	36
C28 14b(H),17b(H)-20S-Methylcholestane	0.238		0.110	0.055	28.5
C28 14a(H),17a(H)-20R-Methylcholestane	0.303		0.110	0.055	10.4
C29 14a(H),17a(H)-20S-Ethylcholestane	0.497		0.110	0.055	7.5
C29 14b(H),17b(H)-20R-Ethylcholestane	0.468		0.110	0.055	30.7
C29 14b(H),17b(H)-20S-Ethylcholestane	0.394		0.110	0.055	25.1
C29 14a(H),17a(H)-20R-Ethylcholestane	0.400		0.110	0.055	38.2
Total Terpanes	11.0		0.110	0.055	32.1
Total Steranes	8.57		0.110	0.055	35.7

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of PP-P1 (4.5-5.5) PP-P1-5.0-022207

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	Quanta	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH070223-01DUP-D		
File ID:	E030722.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	3/22/2007	Decanted:	None
Date Received:	2/23/2007		
Date Prepared:	2/27/2007	Sample Size (g):	2.45
Date Cleanup:	NA	Percent Solid:	75%
Date Analyzed:	3/8/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	CH070227-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Extraction Surrogate Recoveries (%)		Limits		
Phenanthrene-d10	92	50 - 120		
Perylene-d12	248	50 - 120		

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

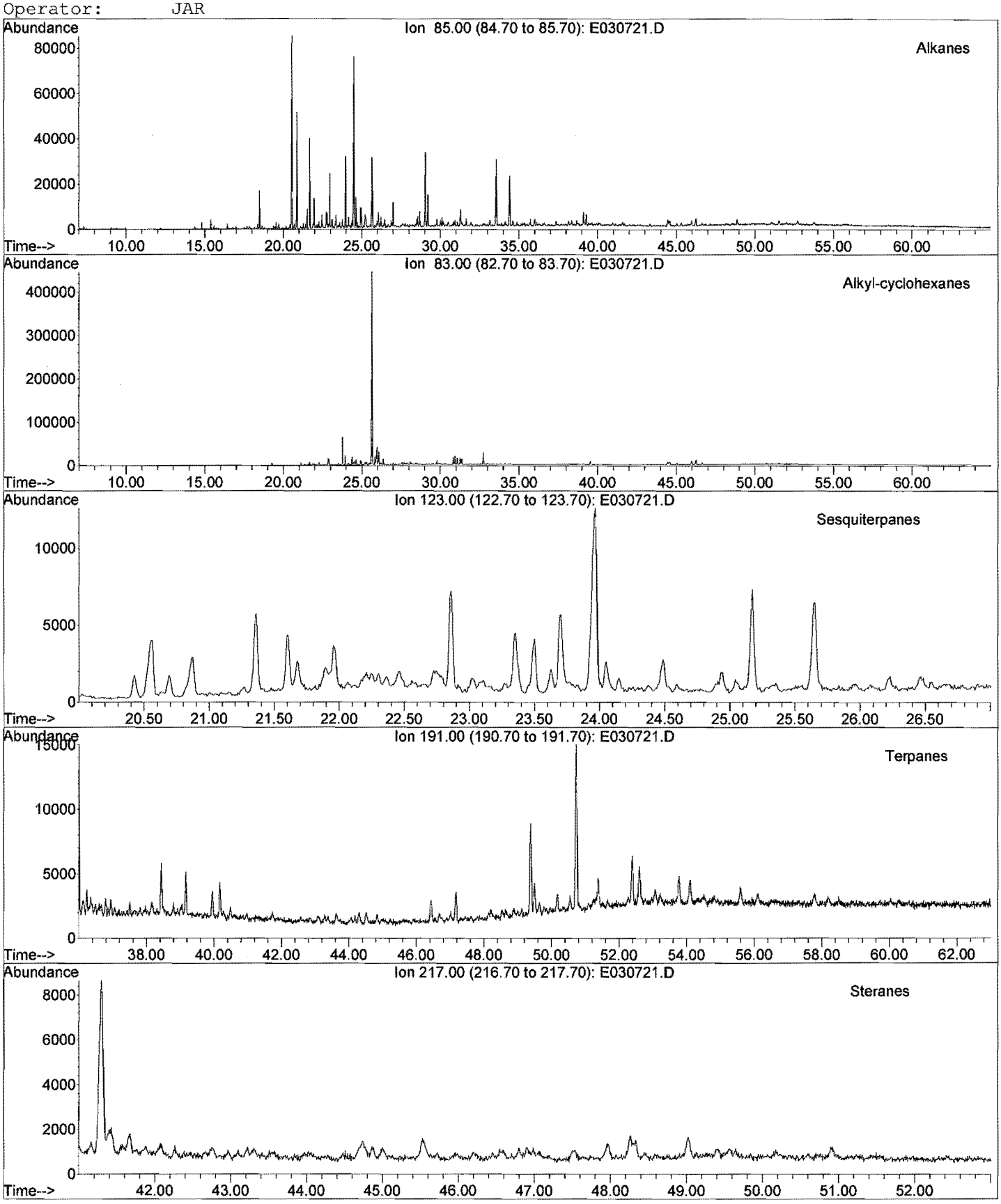
Appendix E

Extracted Ion Current Profiles (EICPs)

META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

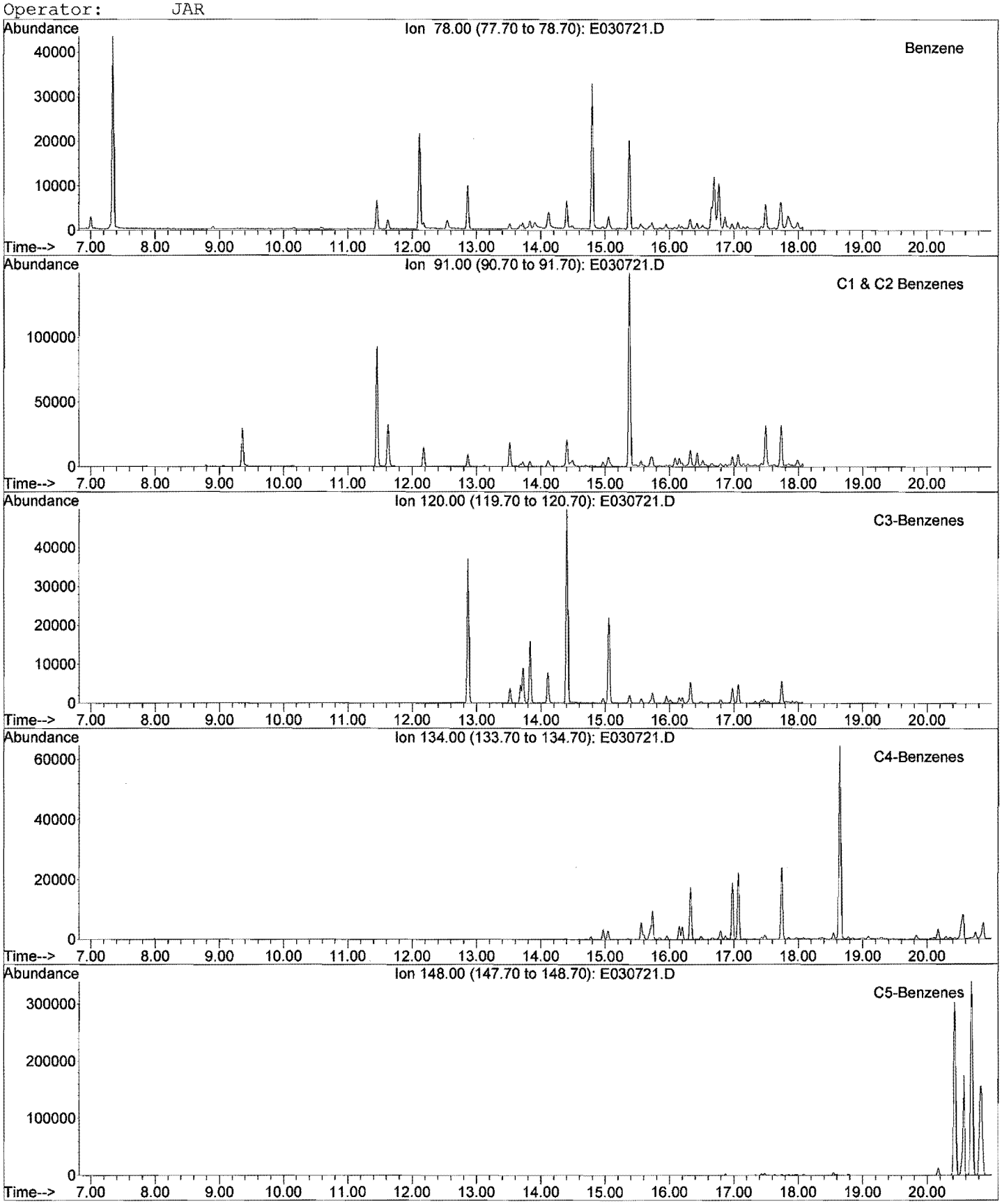
File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

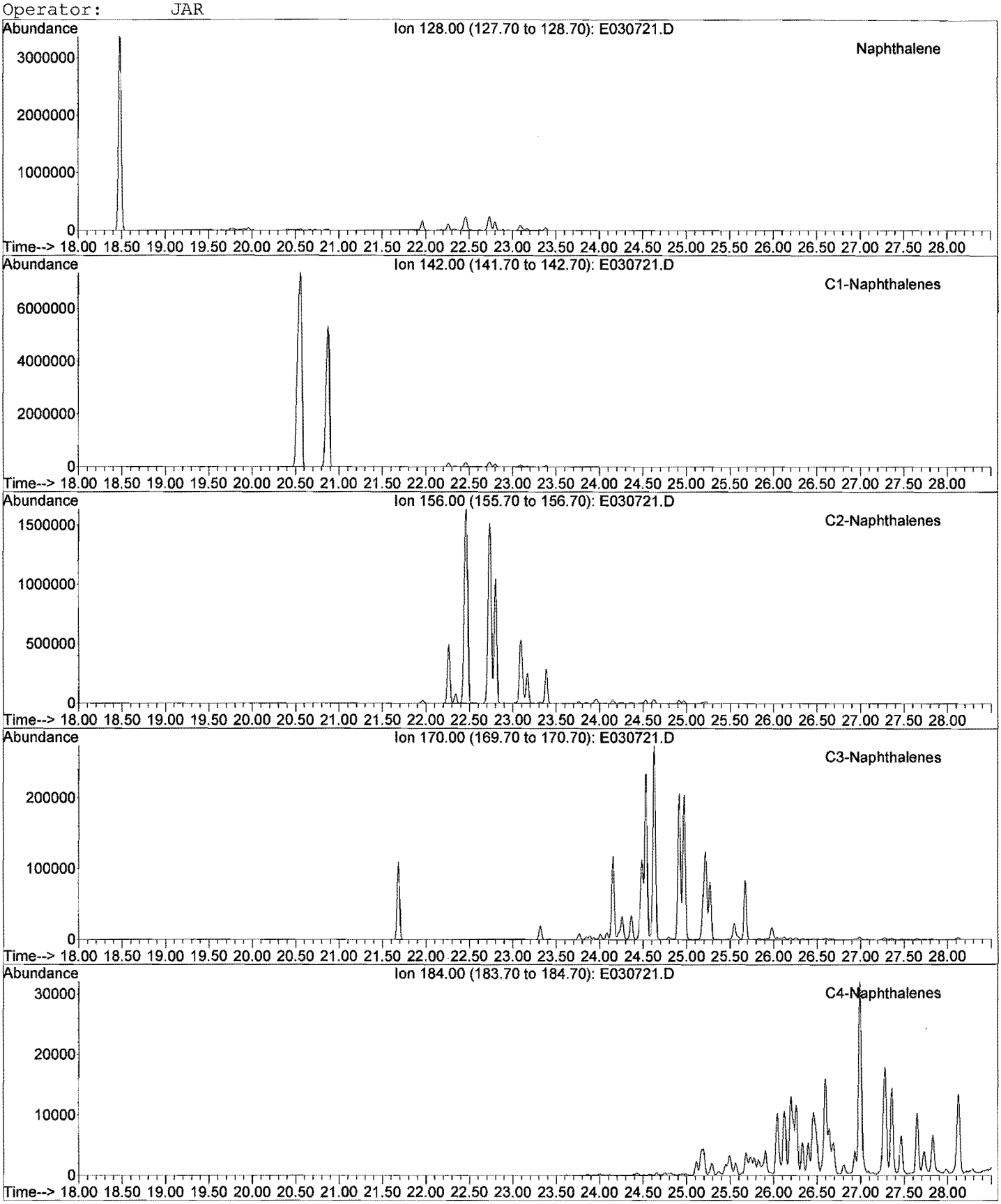
File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

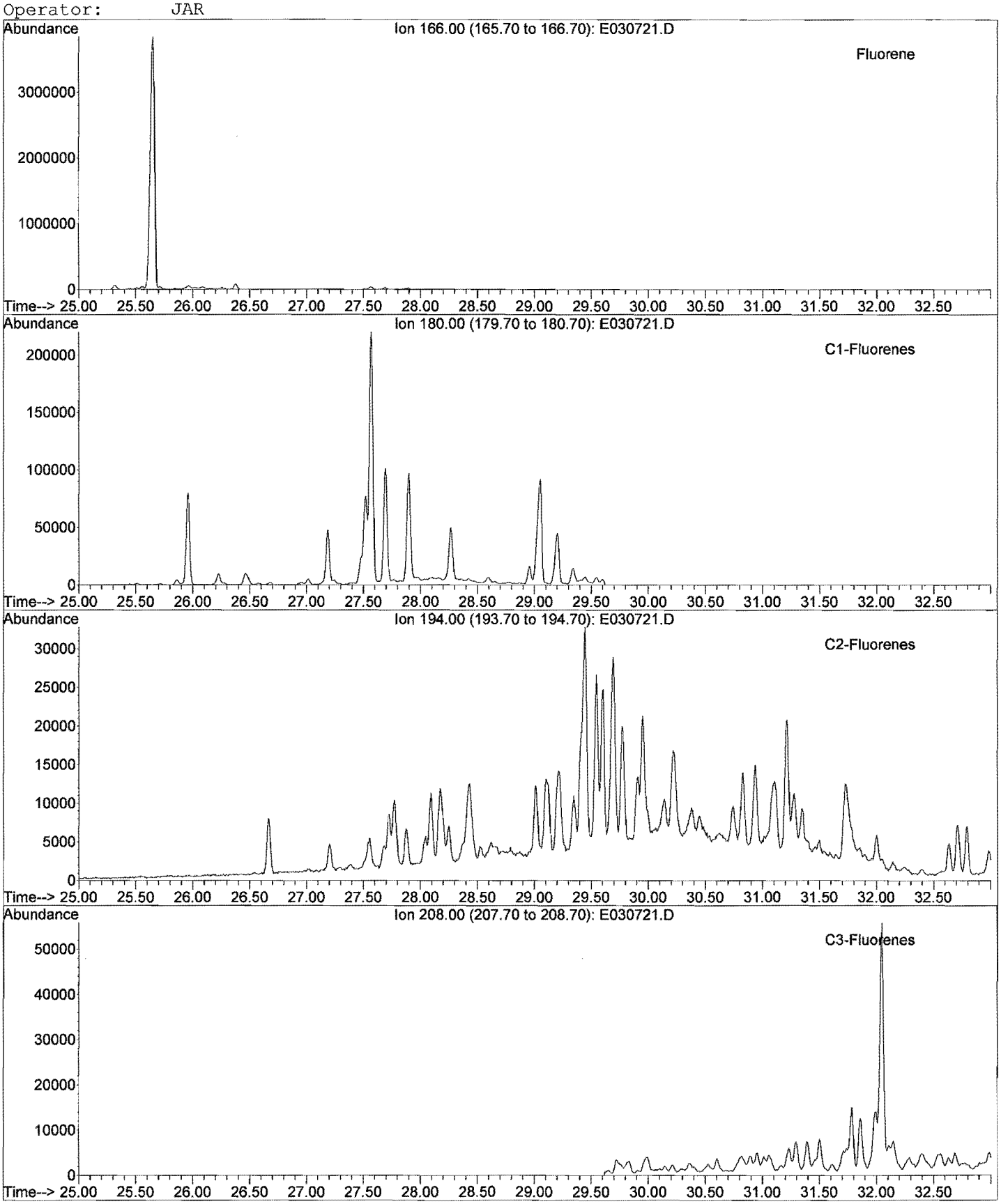
File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

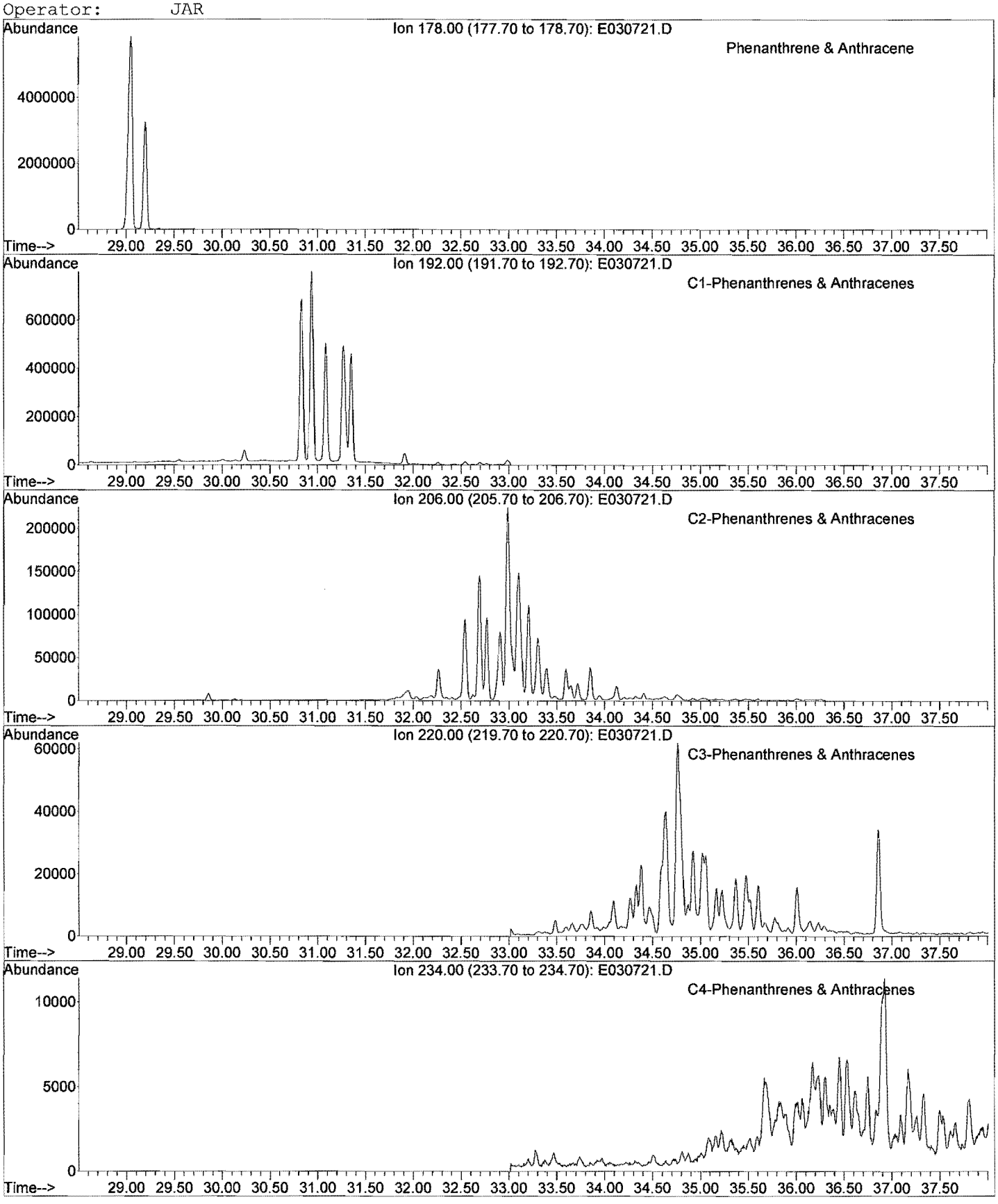
File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

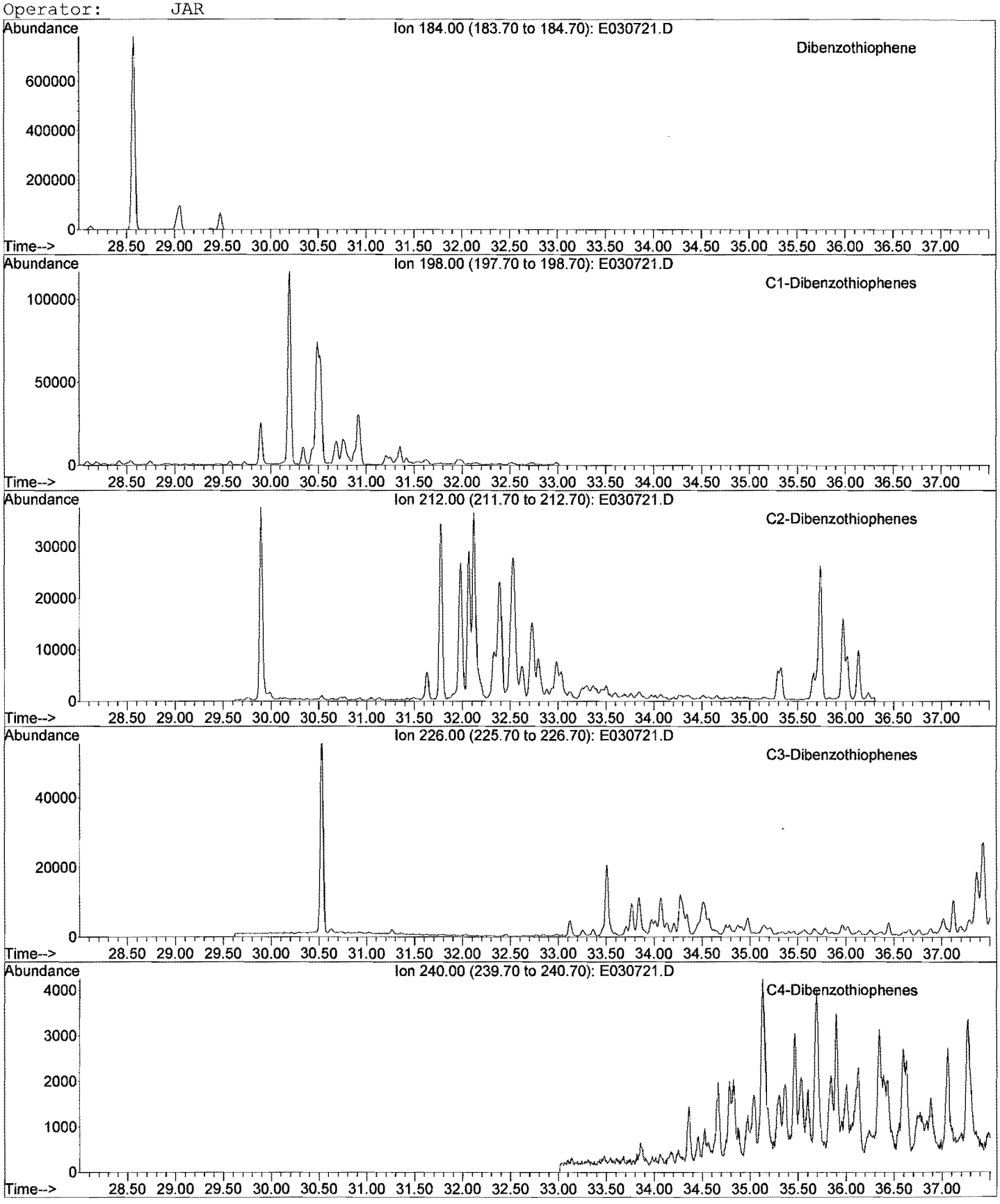
File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

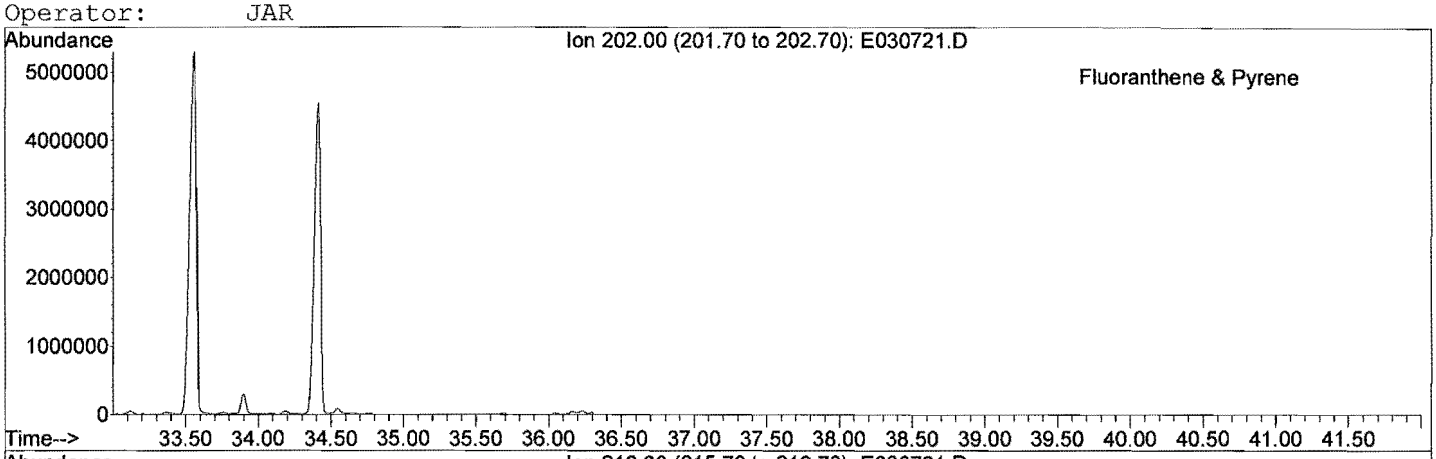
File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR

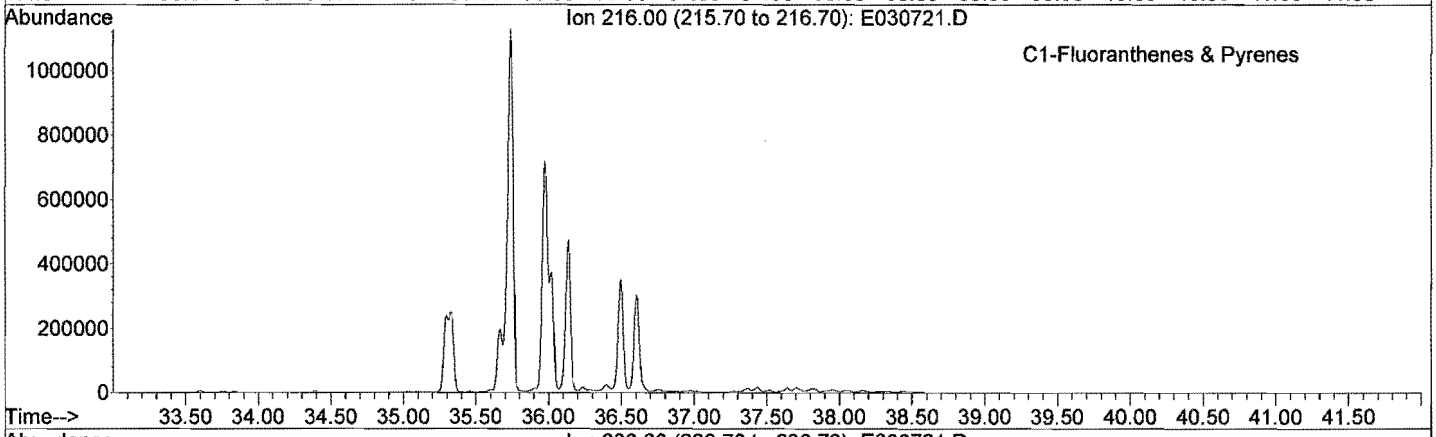


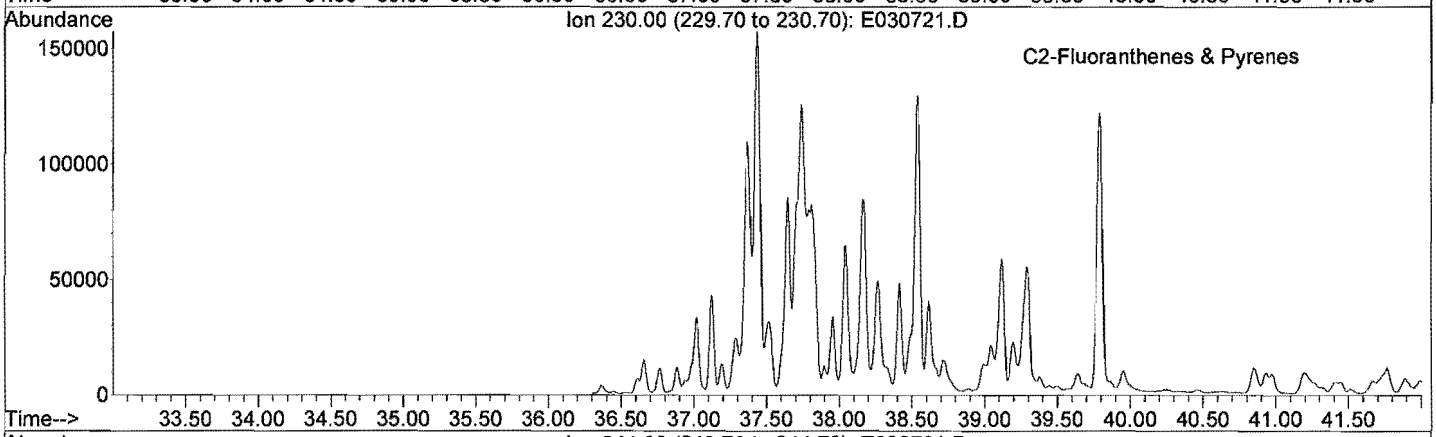
META Environmental, Inc.

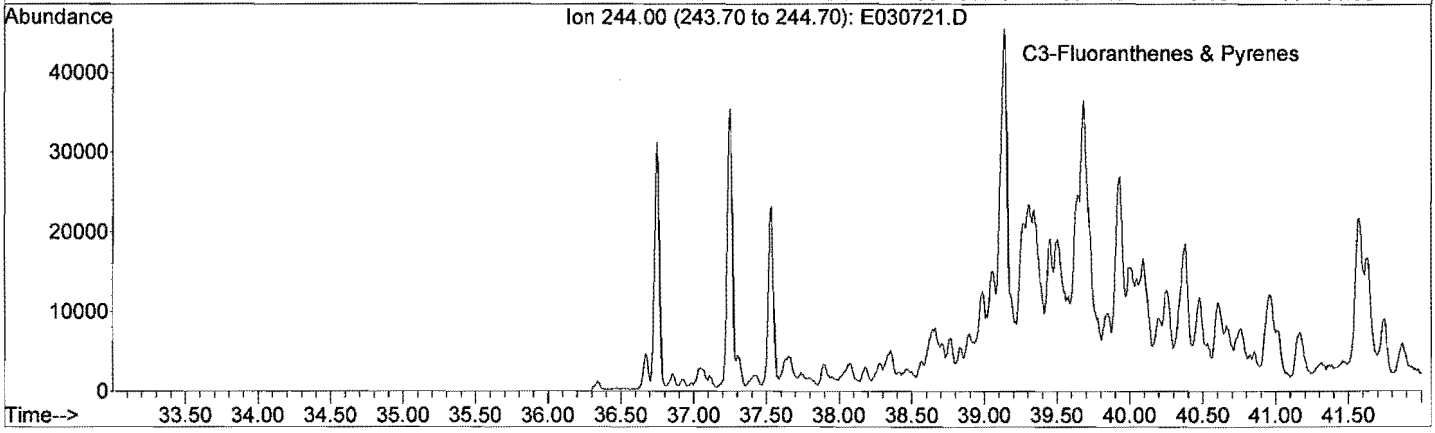
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR





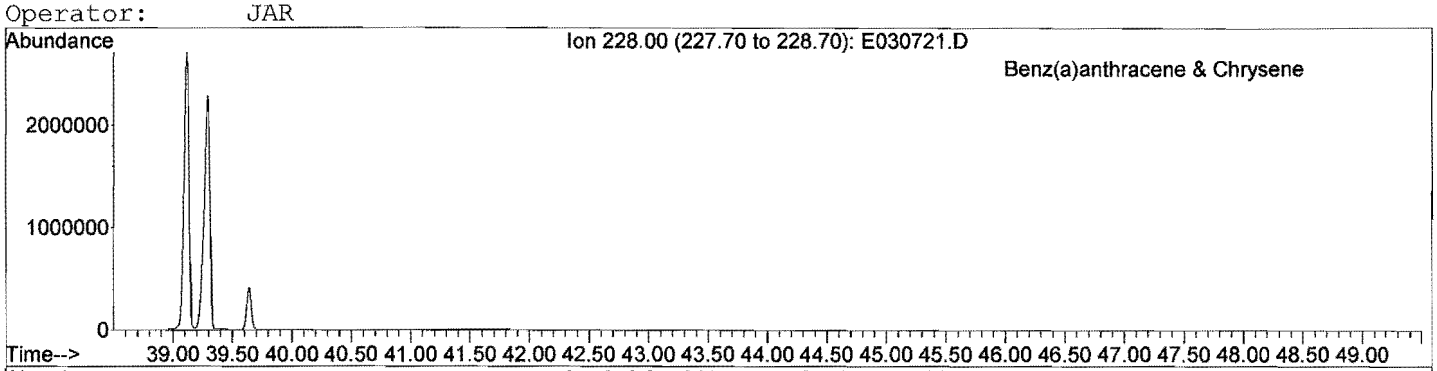


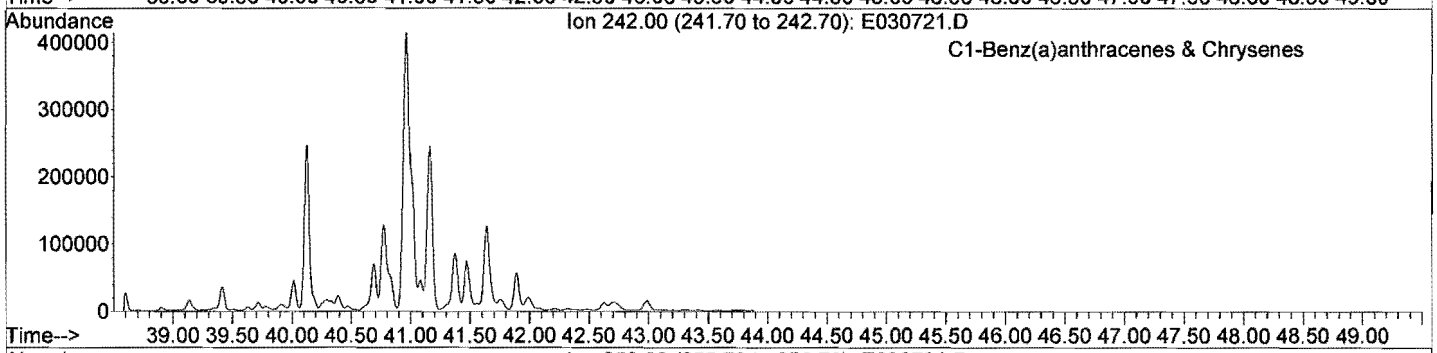


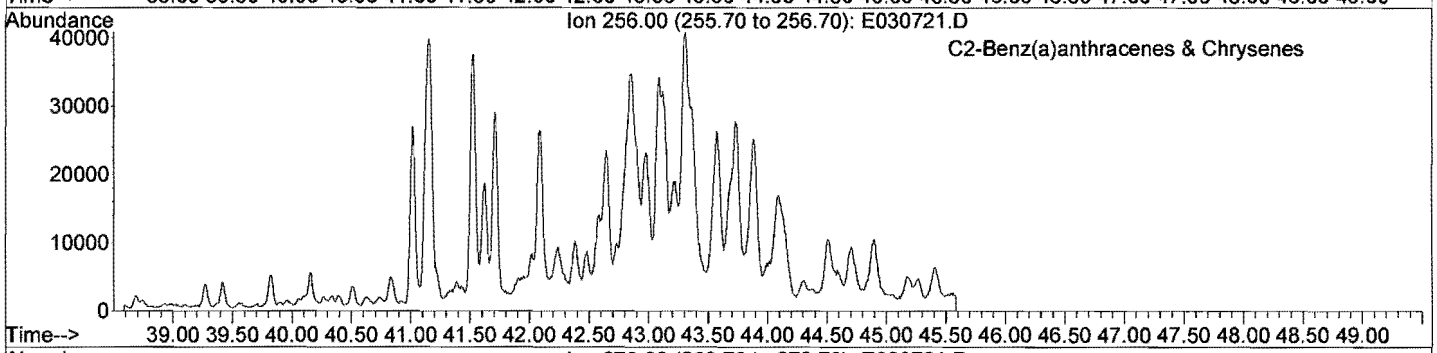
META Environmental, Inc.

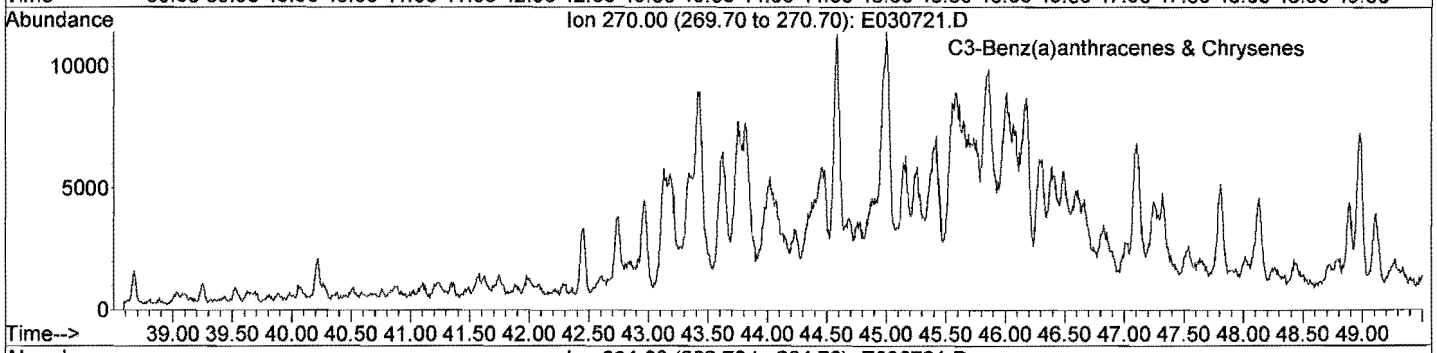
GC/MS EXTRACTED ION CHROMATOGRAM

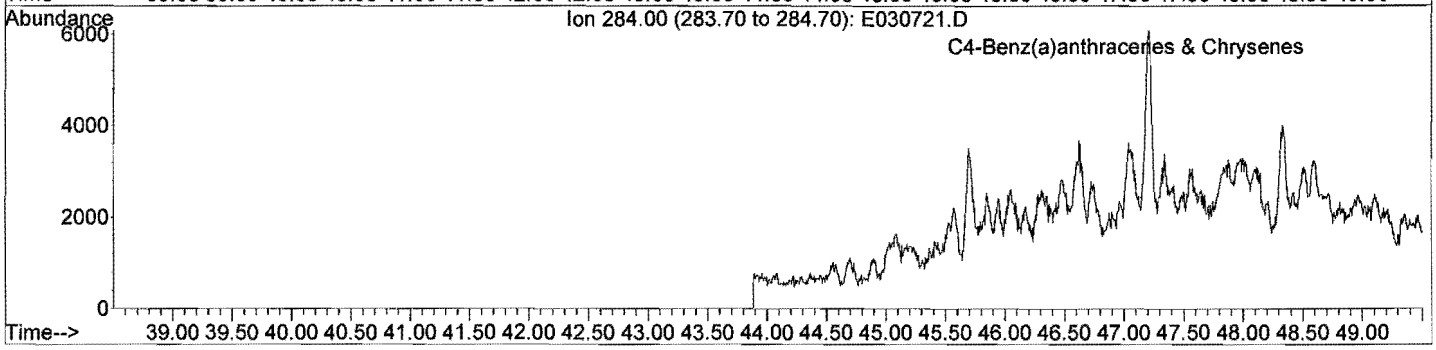
File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR







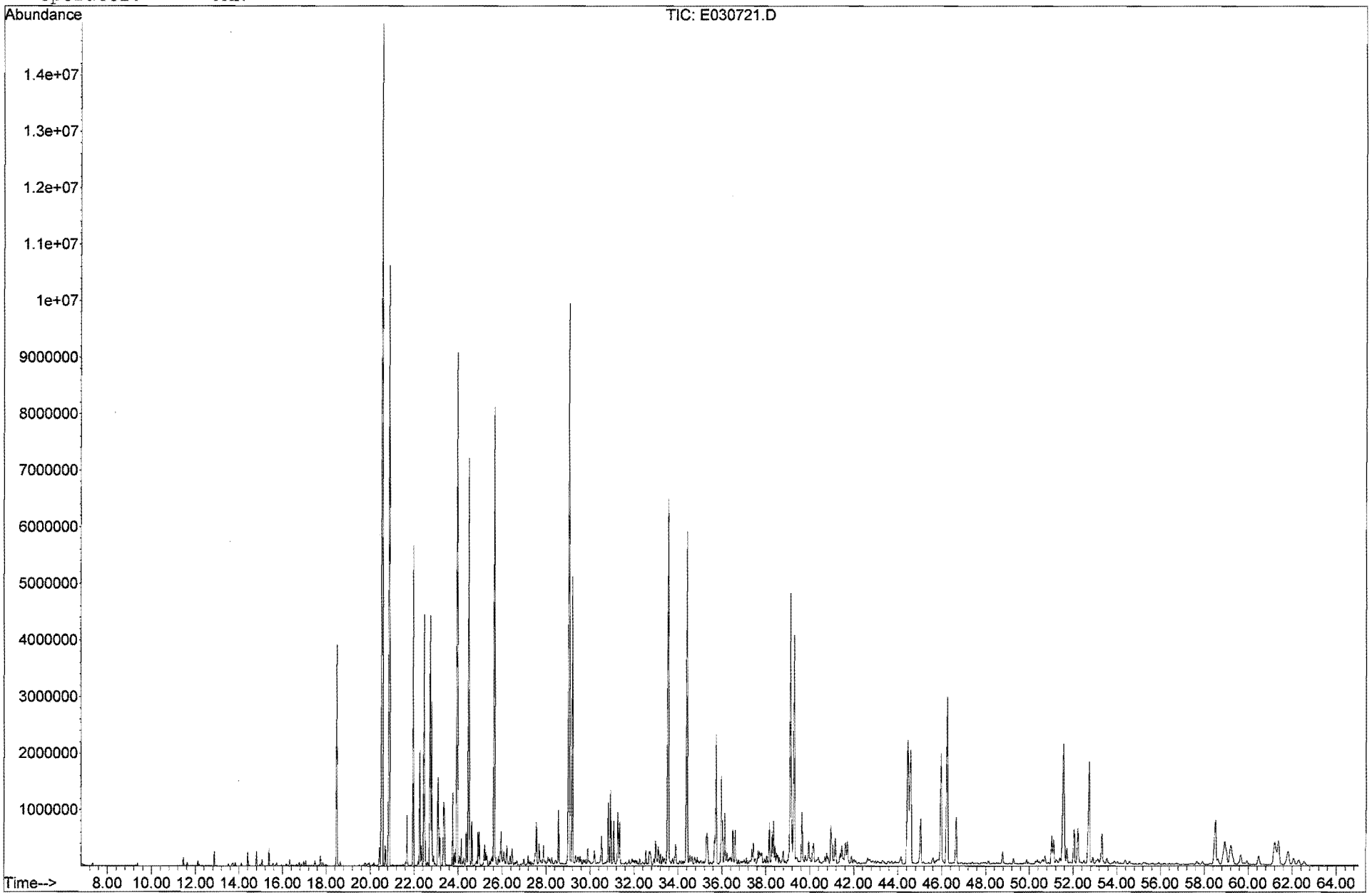




META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

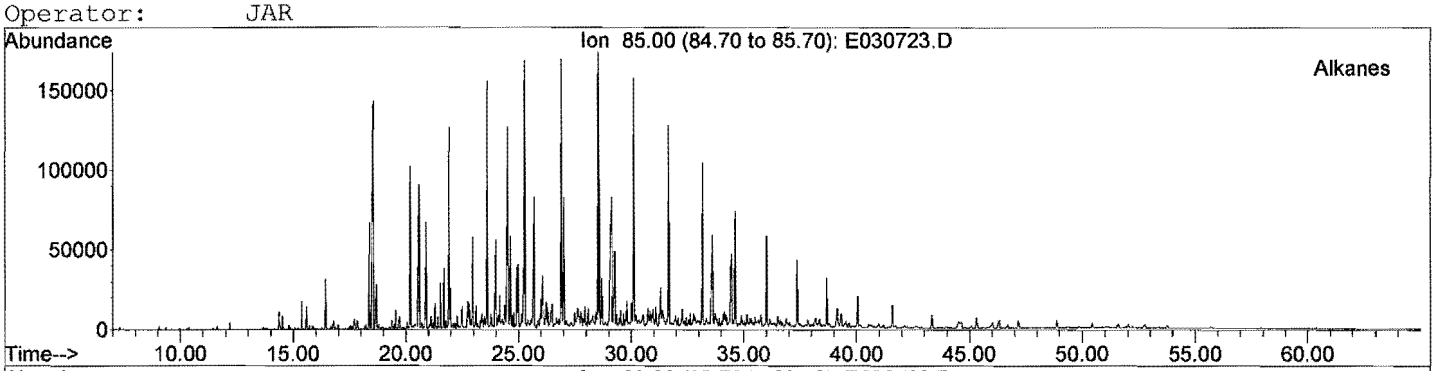
File: J:\1\DATA\E070307\E030721.D
Date Acquired: 8 Mar 2007 12:58 pm
Method File: 4008SIM2.M
Sample Name: CH070223-01-D2
Misc Info: PP-P1 (4.5-5.5) PP-P1-5.0-022207
Operator: JAR

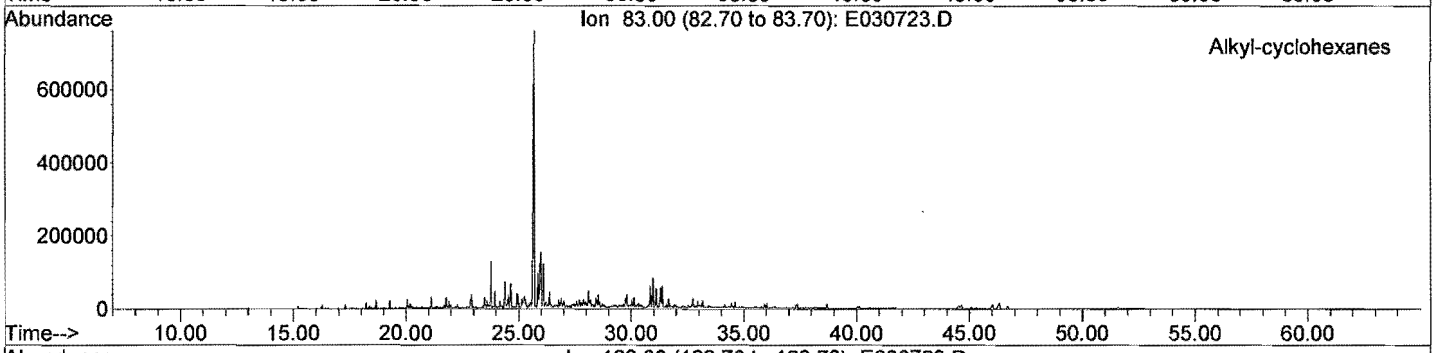


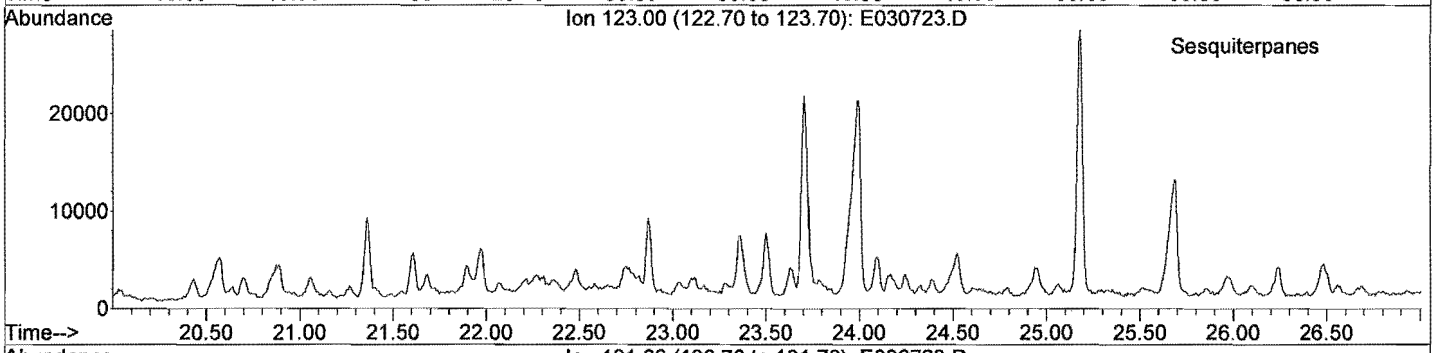
META Environmental, Inc.

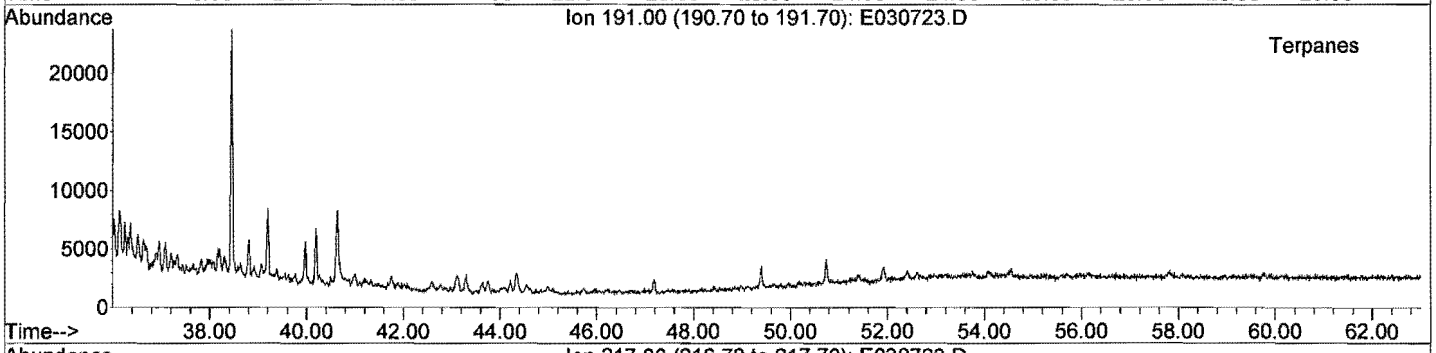
GC/MS EXTRACTED ION CHROMATOGRAM

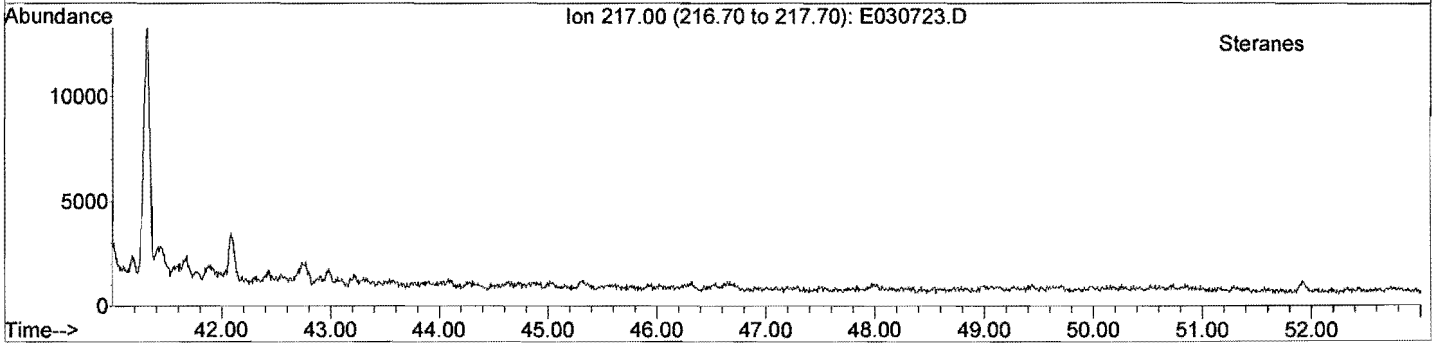
File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR







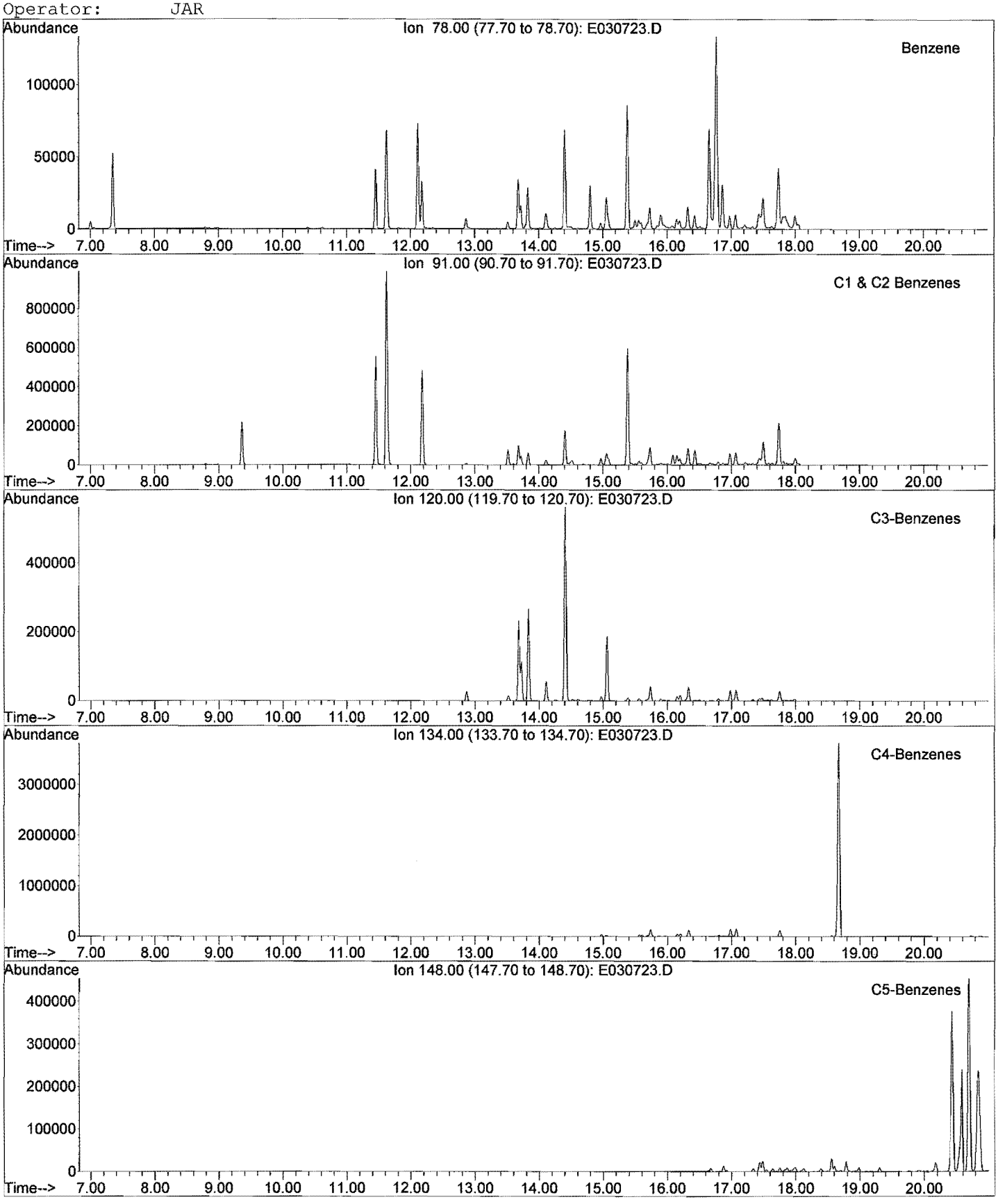




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

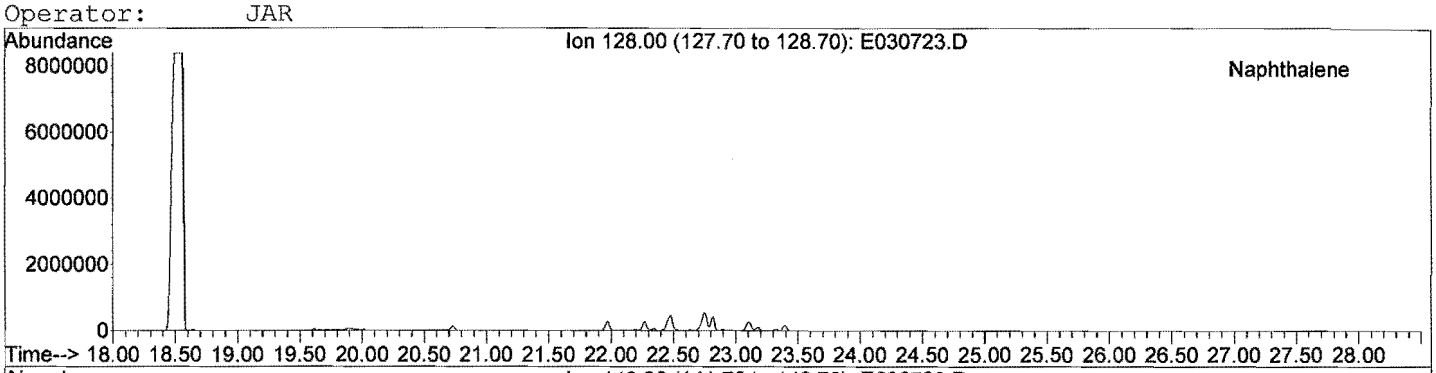
File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR

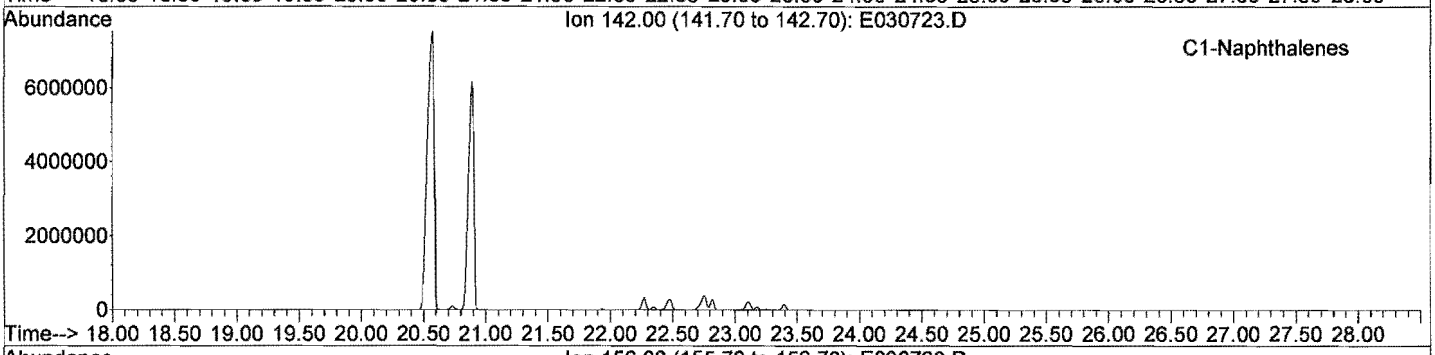


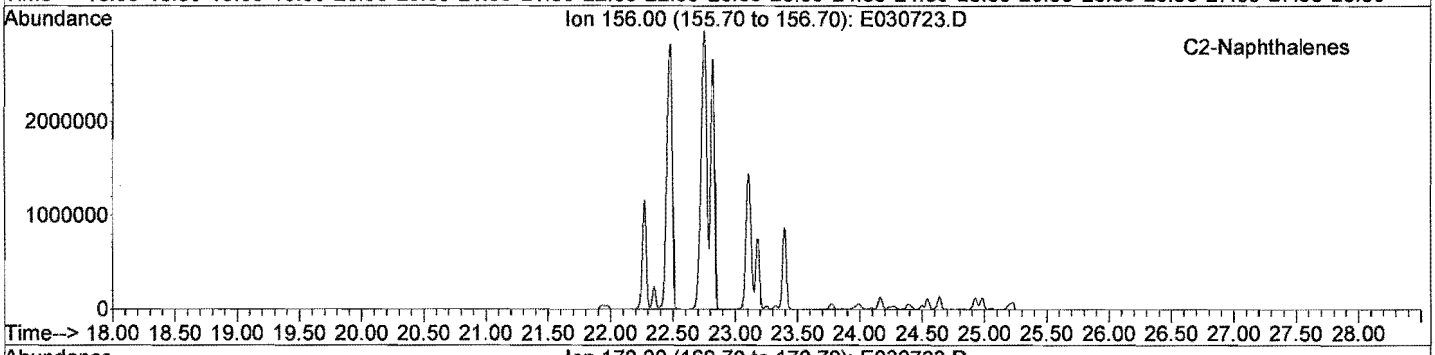
META Environmental, Inc.

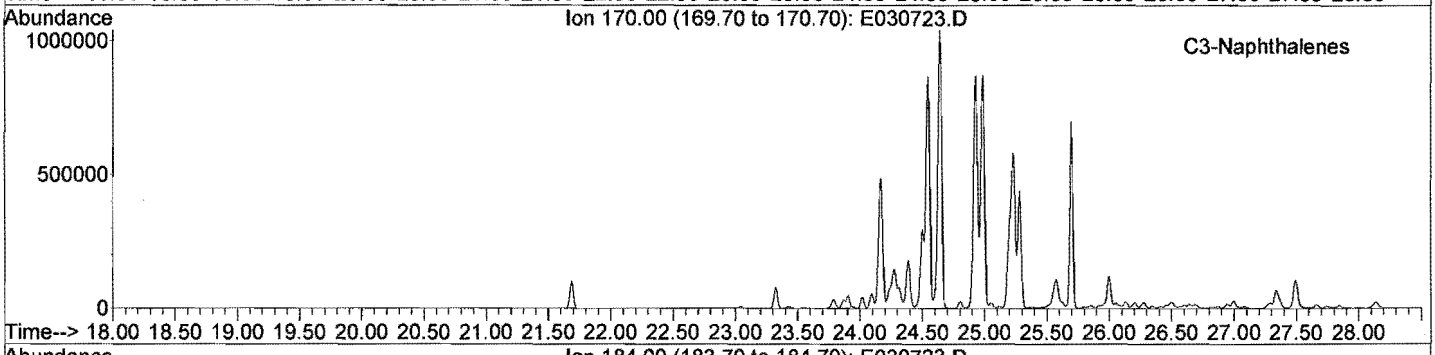
GC/MS EXTRACTED ION CHROMATOGRAM

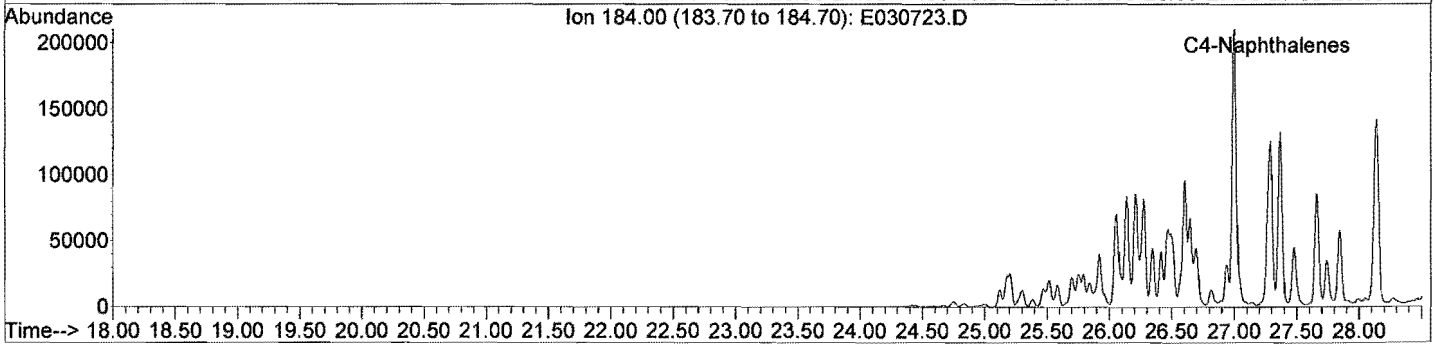
File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR







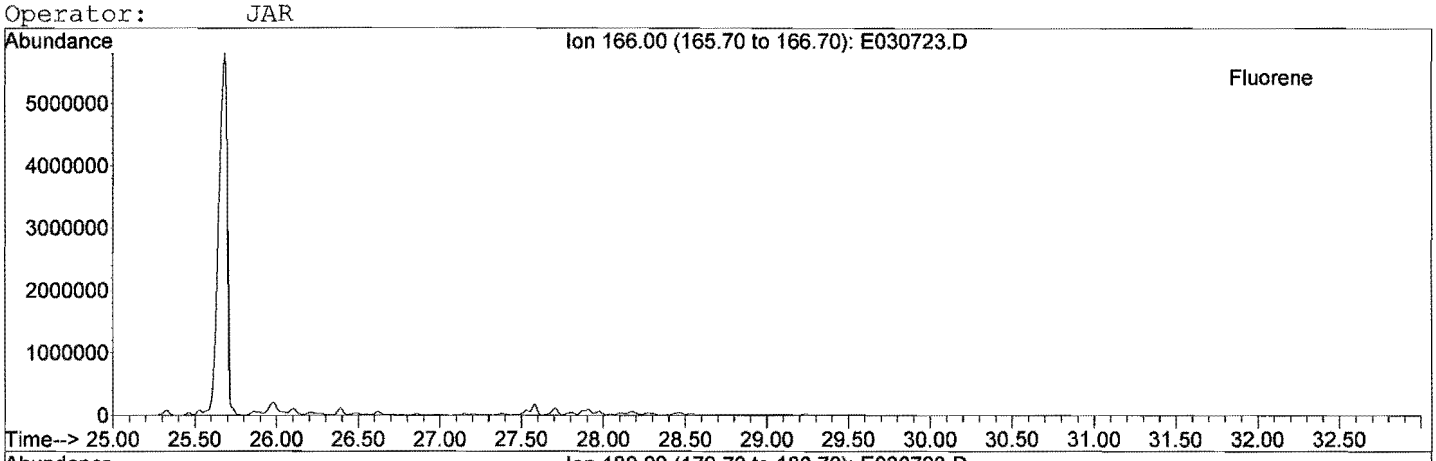


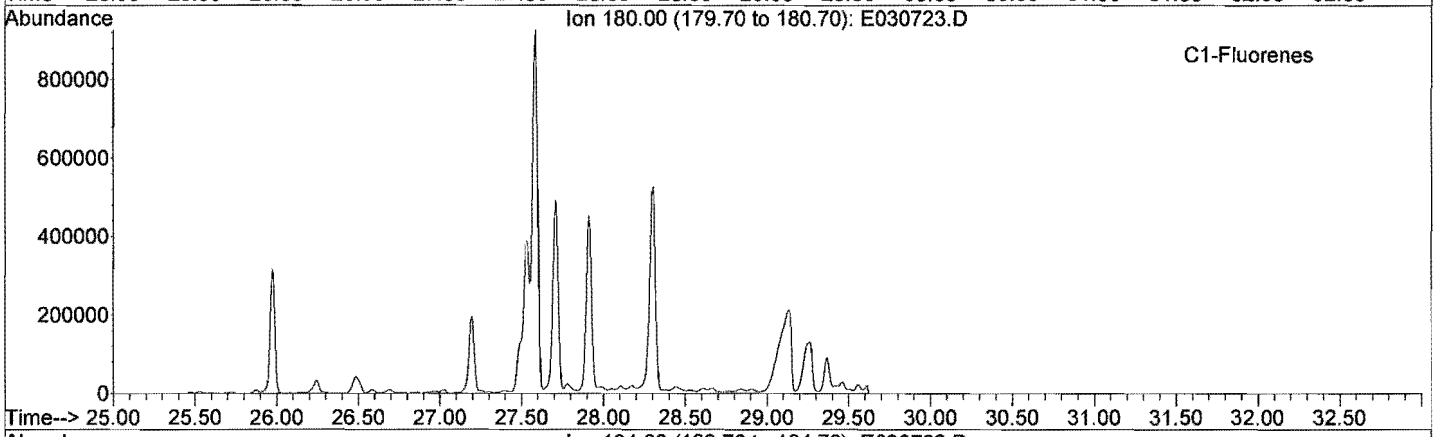


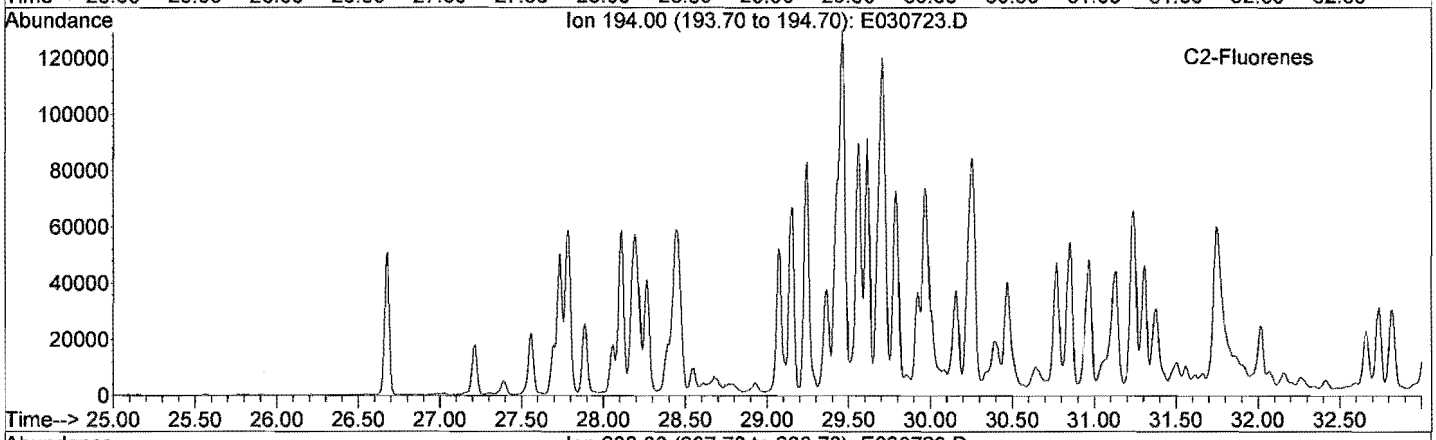
META Environmental, Inc.

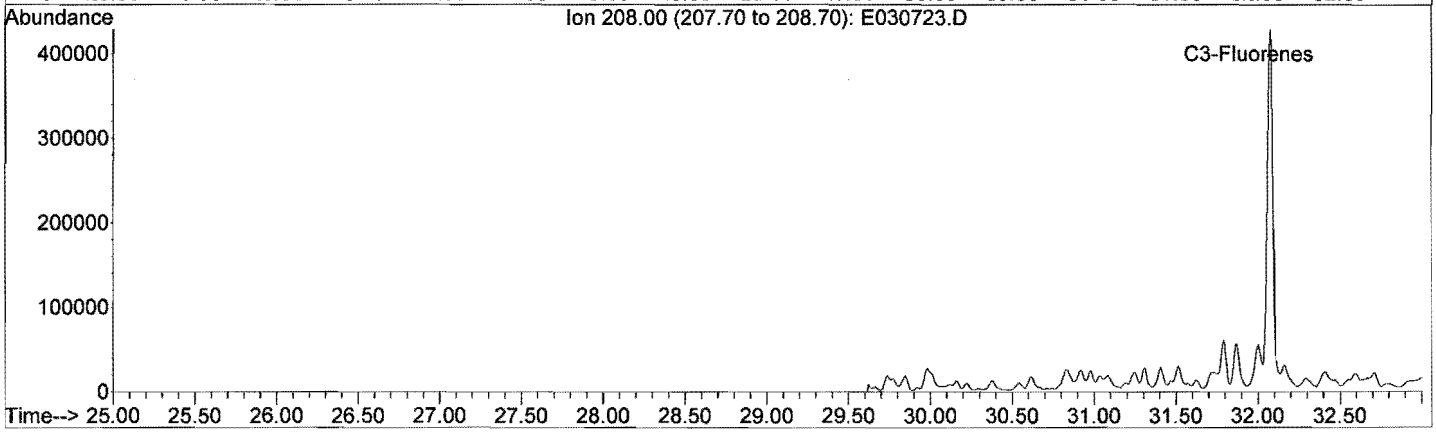
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR





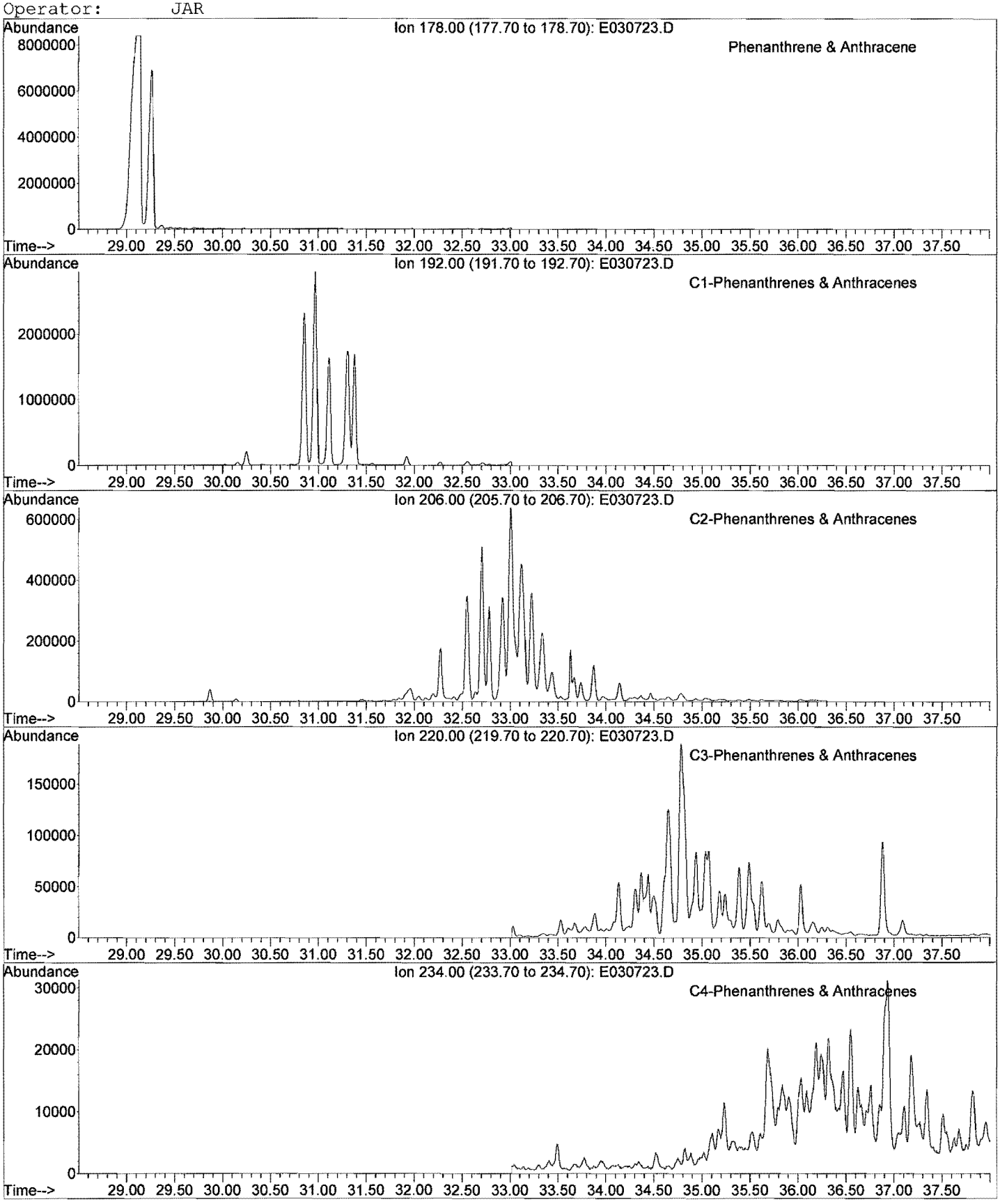




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

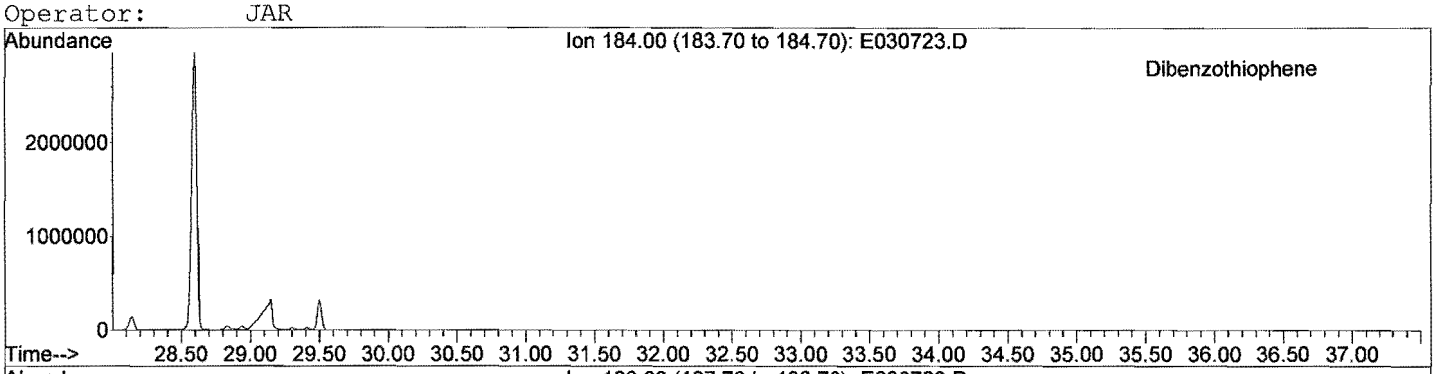
File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR

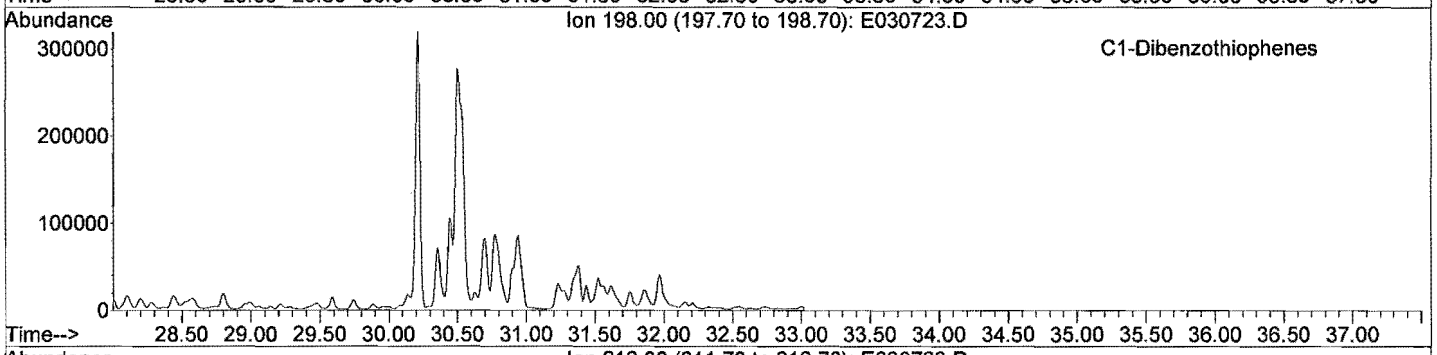


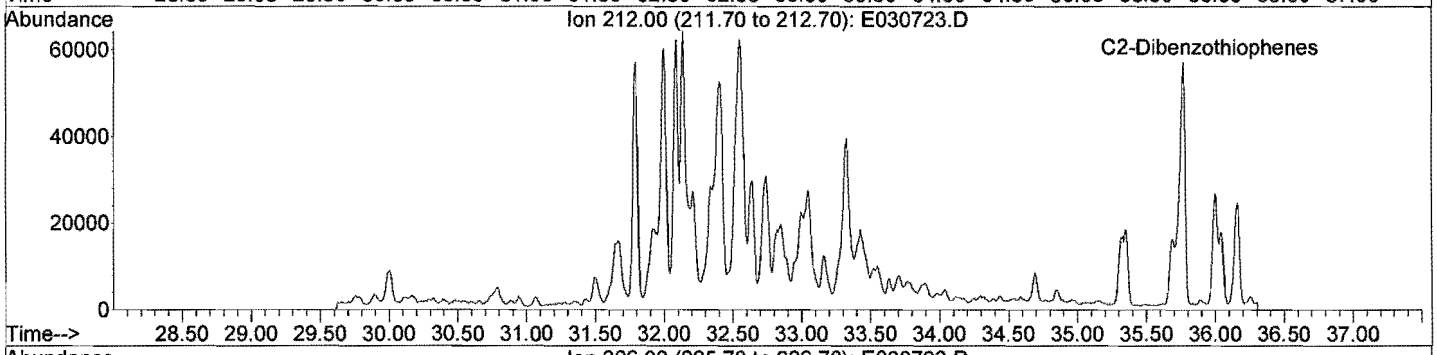
META Environmental, Inc.

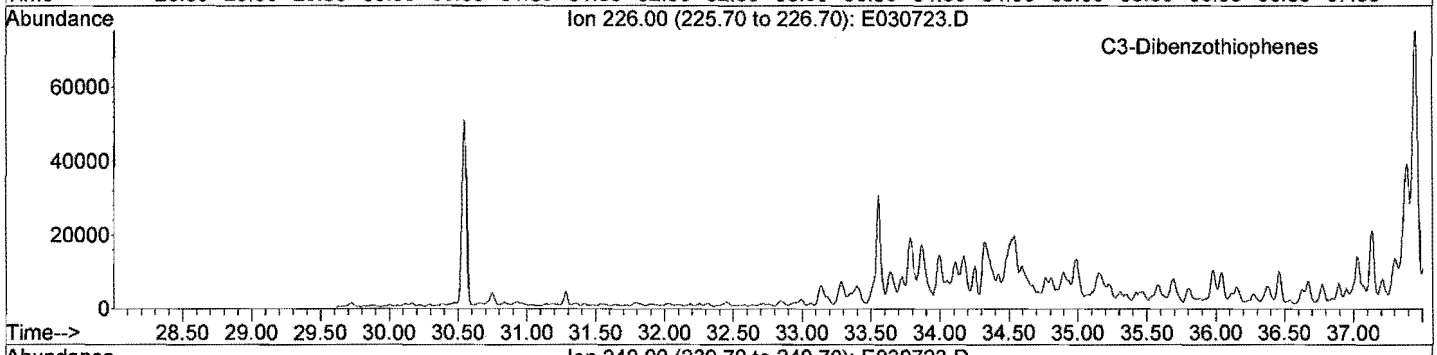
GC/MS EXTRACTED ION CHROMATOGRAM

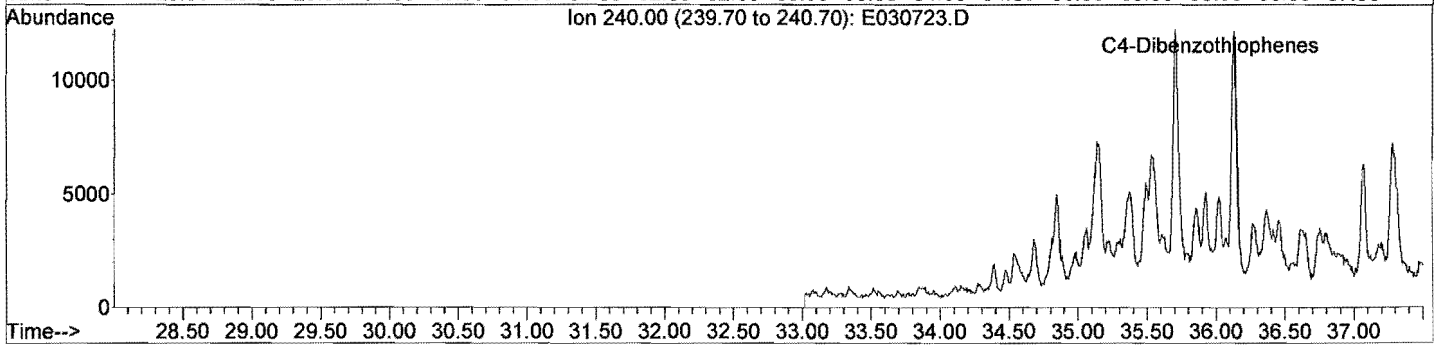
File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR







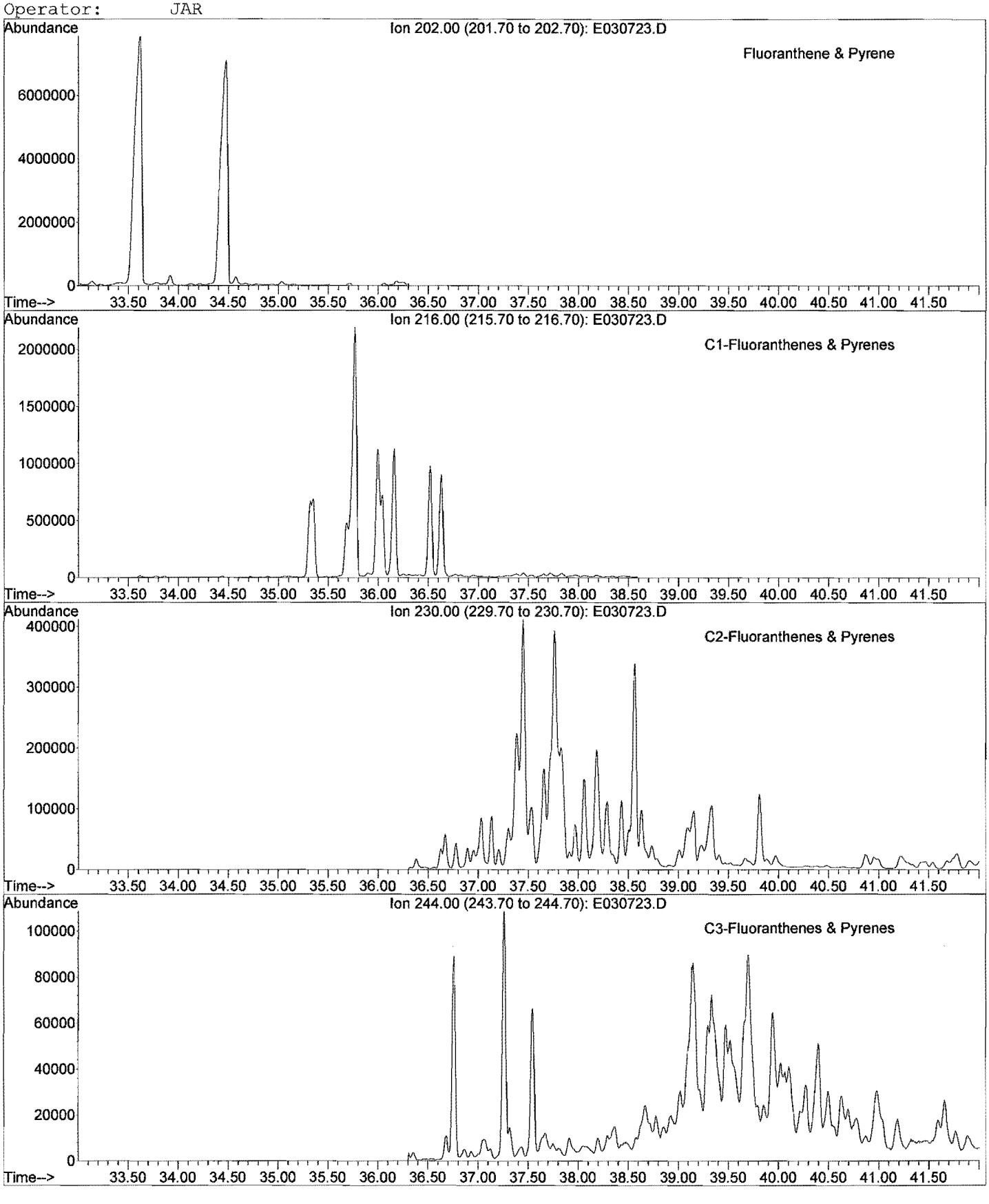




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

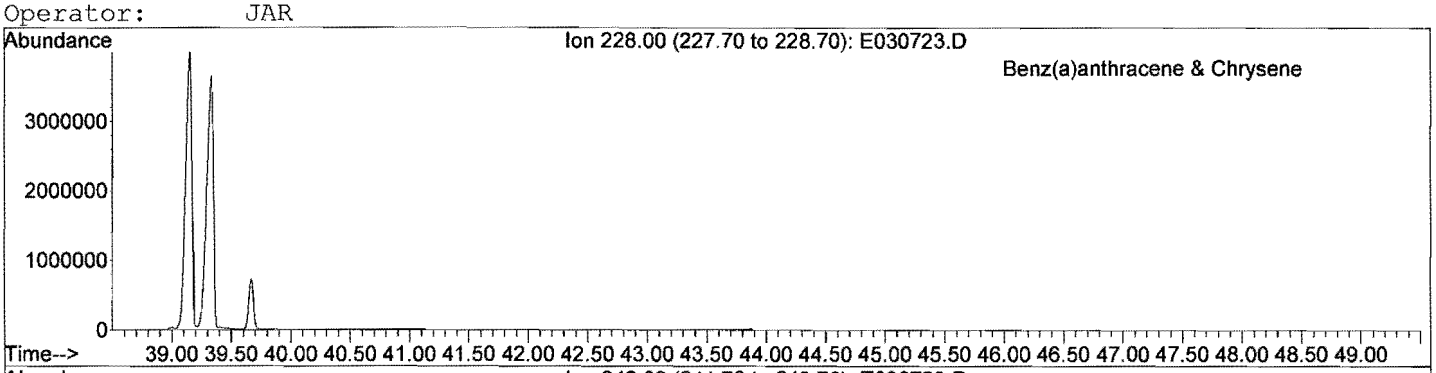
File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR

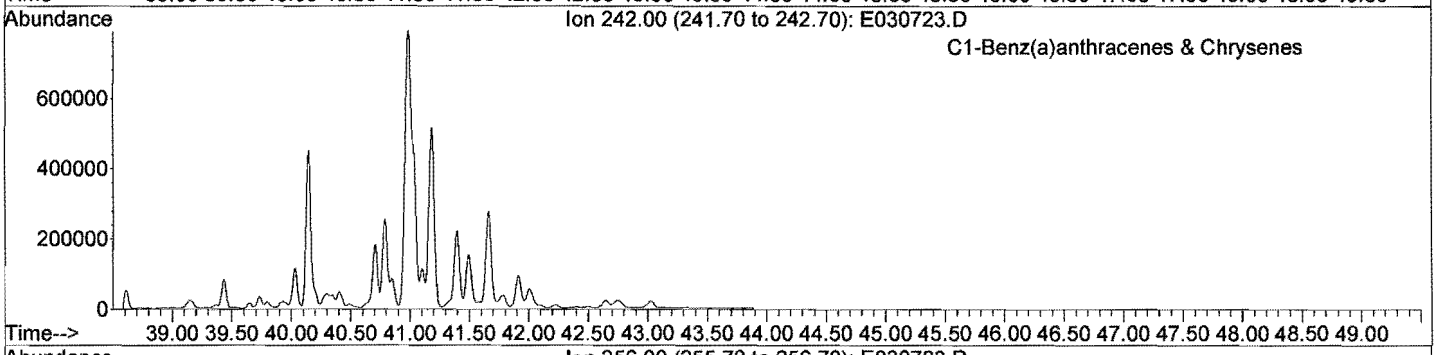


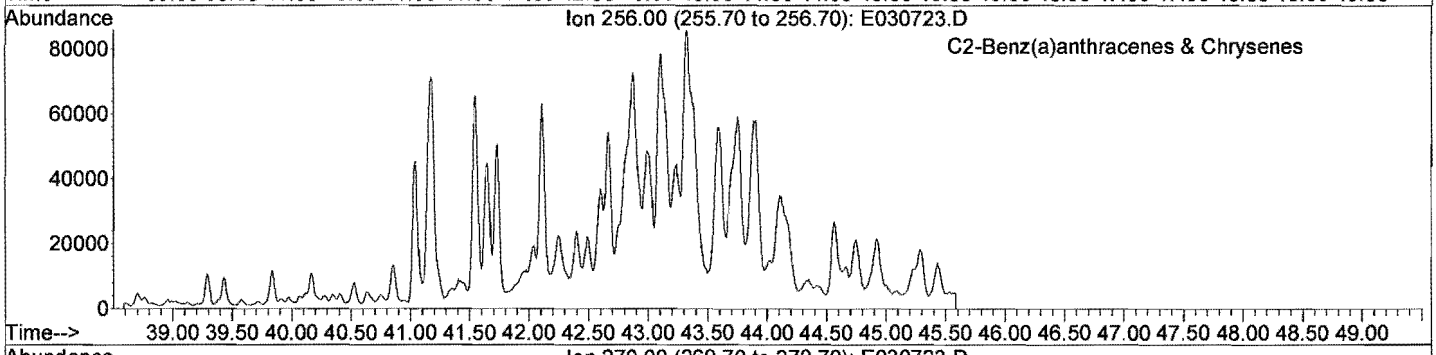
META Environmental, Inc.

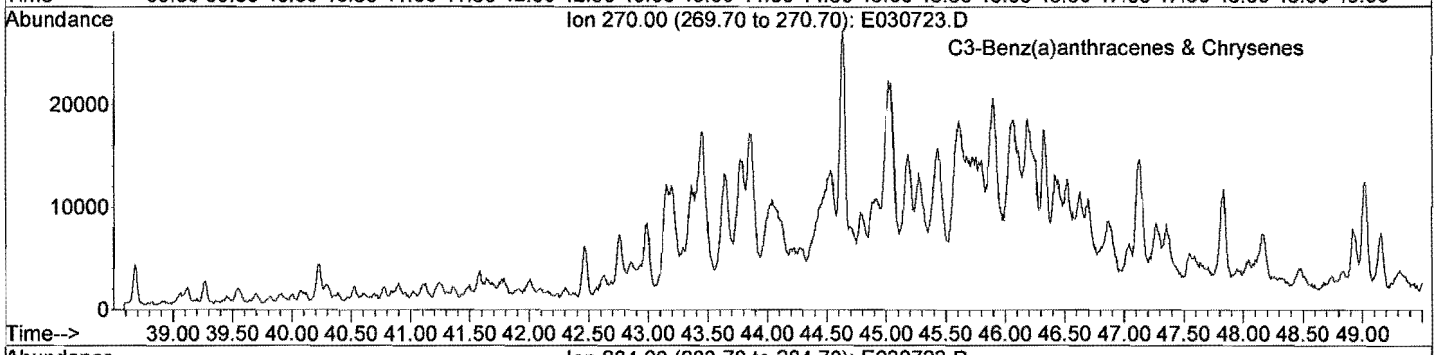
GC/MS EXTRACTED ION CHROMATOGRAM

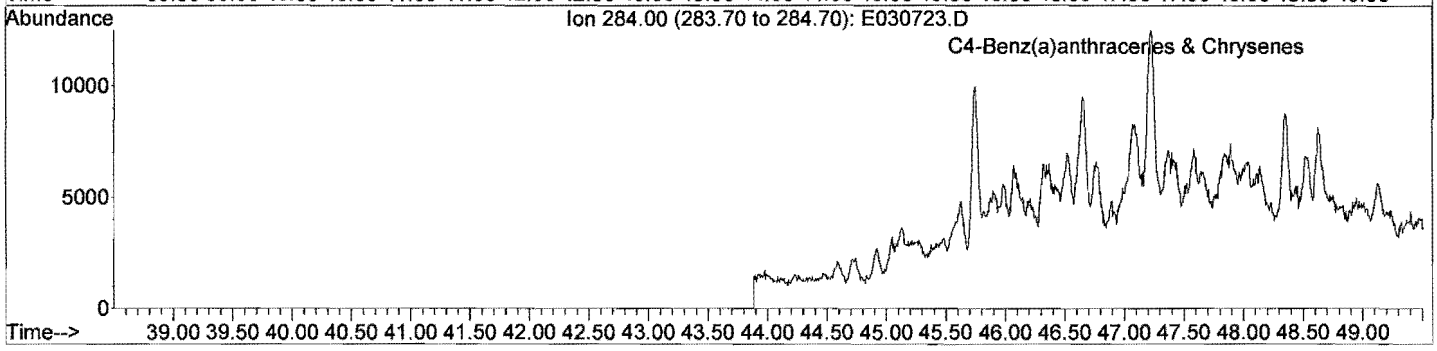
File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR







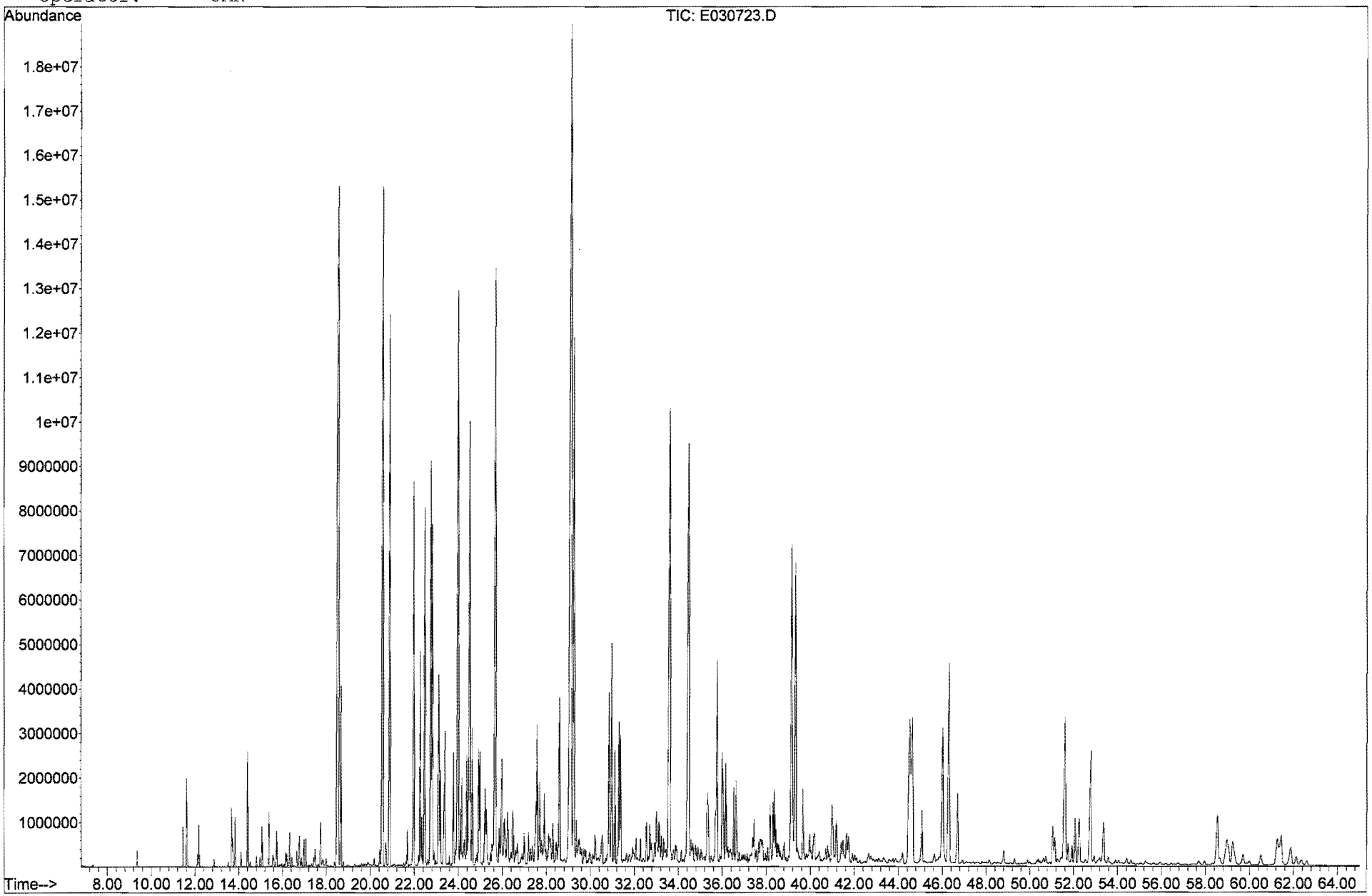




META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

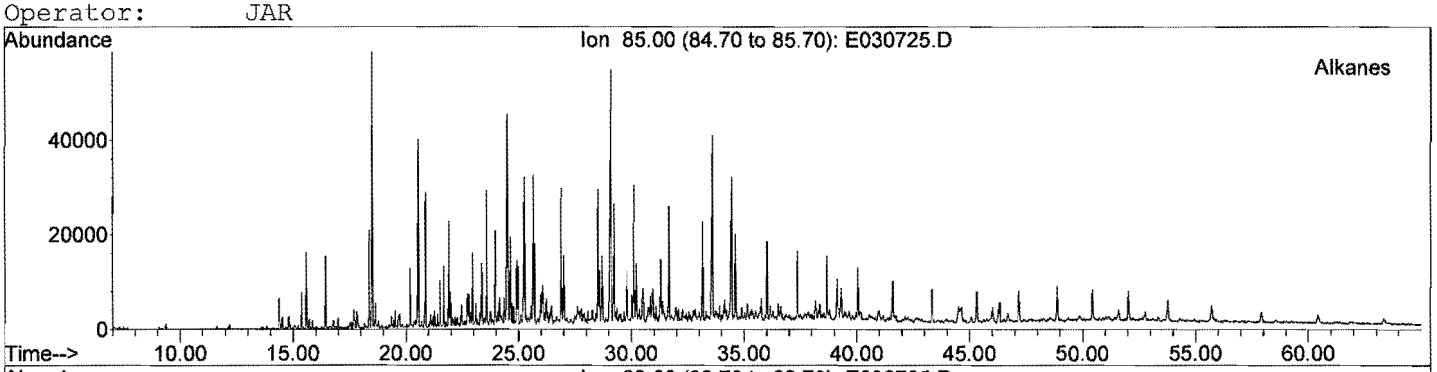
File: J:\1\DATA\E070307\E030723.D
Date Acquired: 8 Mar 2007 3:35 pm
Method File: 4008SIM2.M
Sample Name: CH070223-02-D3
Misc Info: PP-P2 (2.5-3.5) PP-P2-3.0-022207
Operator: JAR

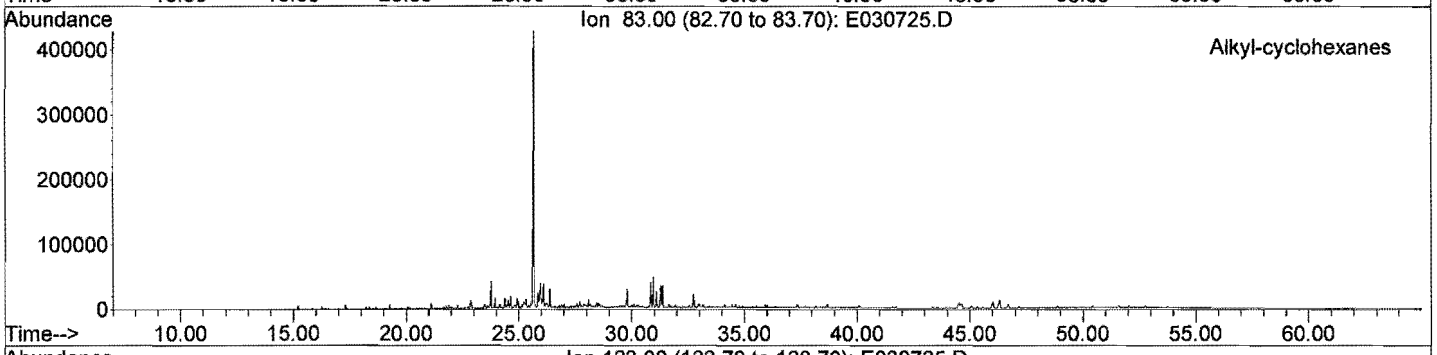


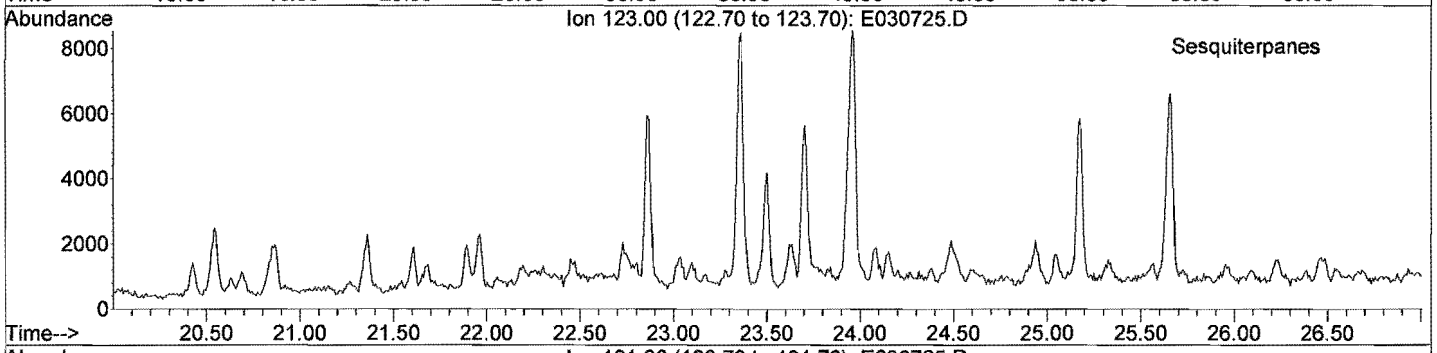
META Environmental, Inc.

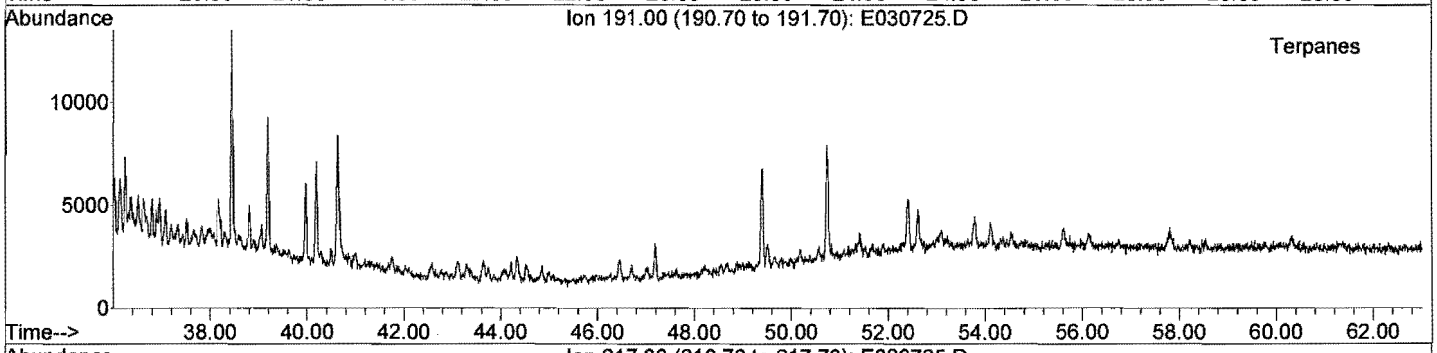
GC/MS EXTRACTED ION CHROMATOGRAM

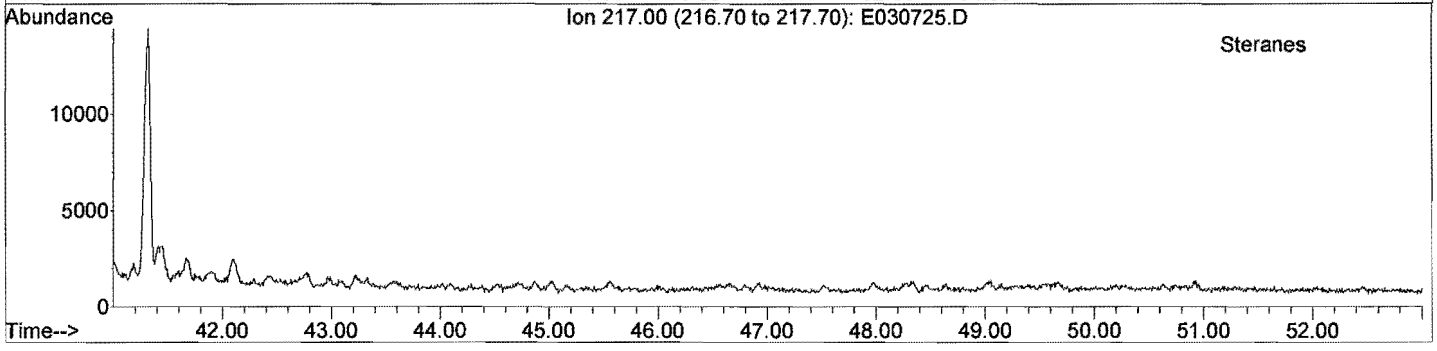
File: J:\1\DATA\E070307\E030725.D
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR







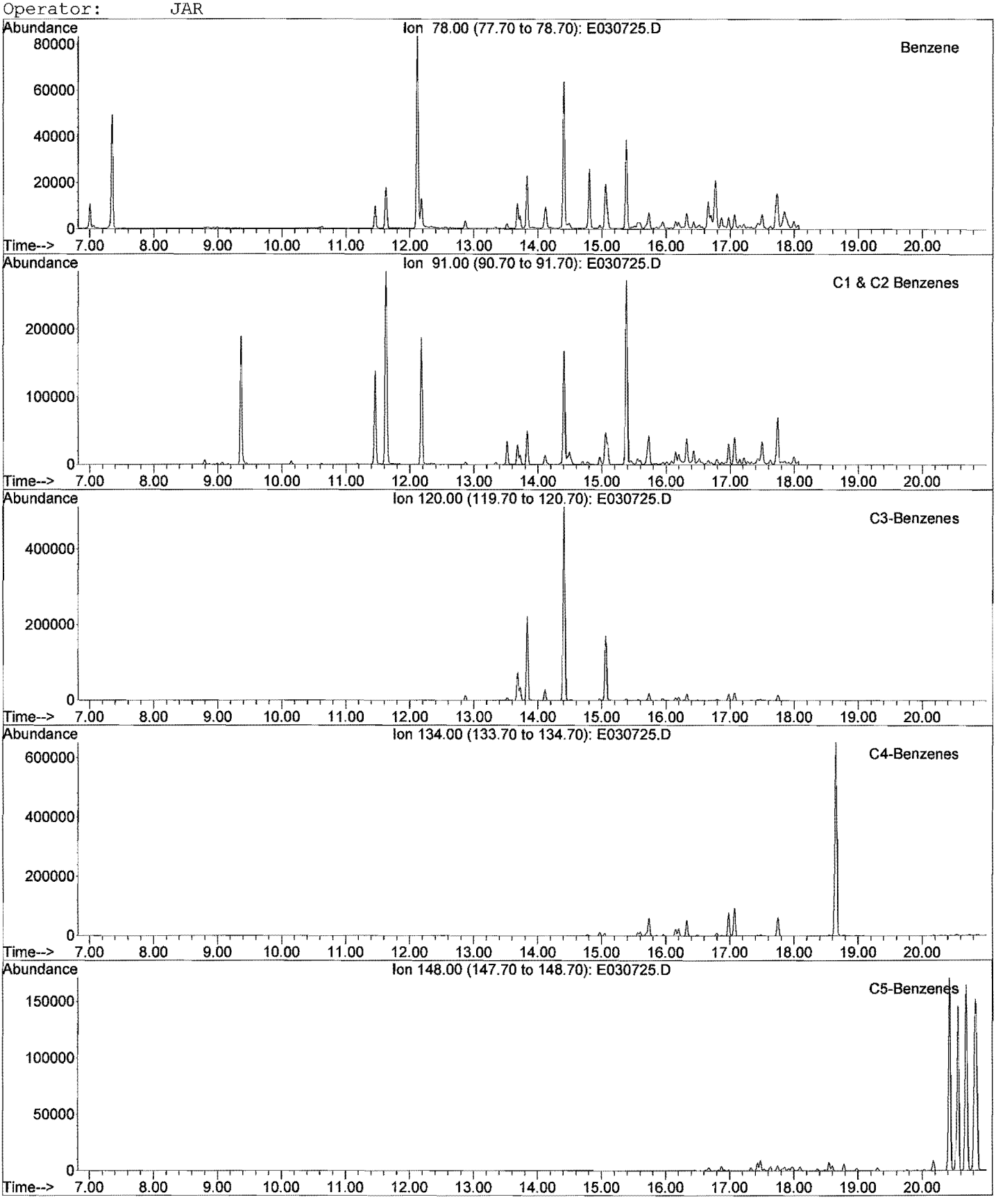




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

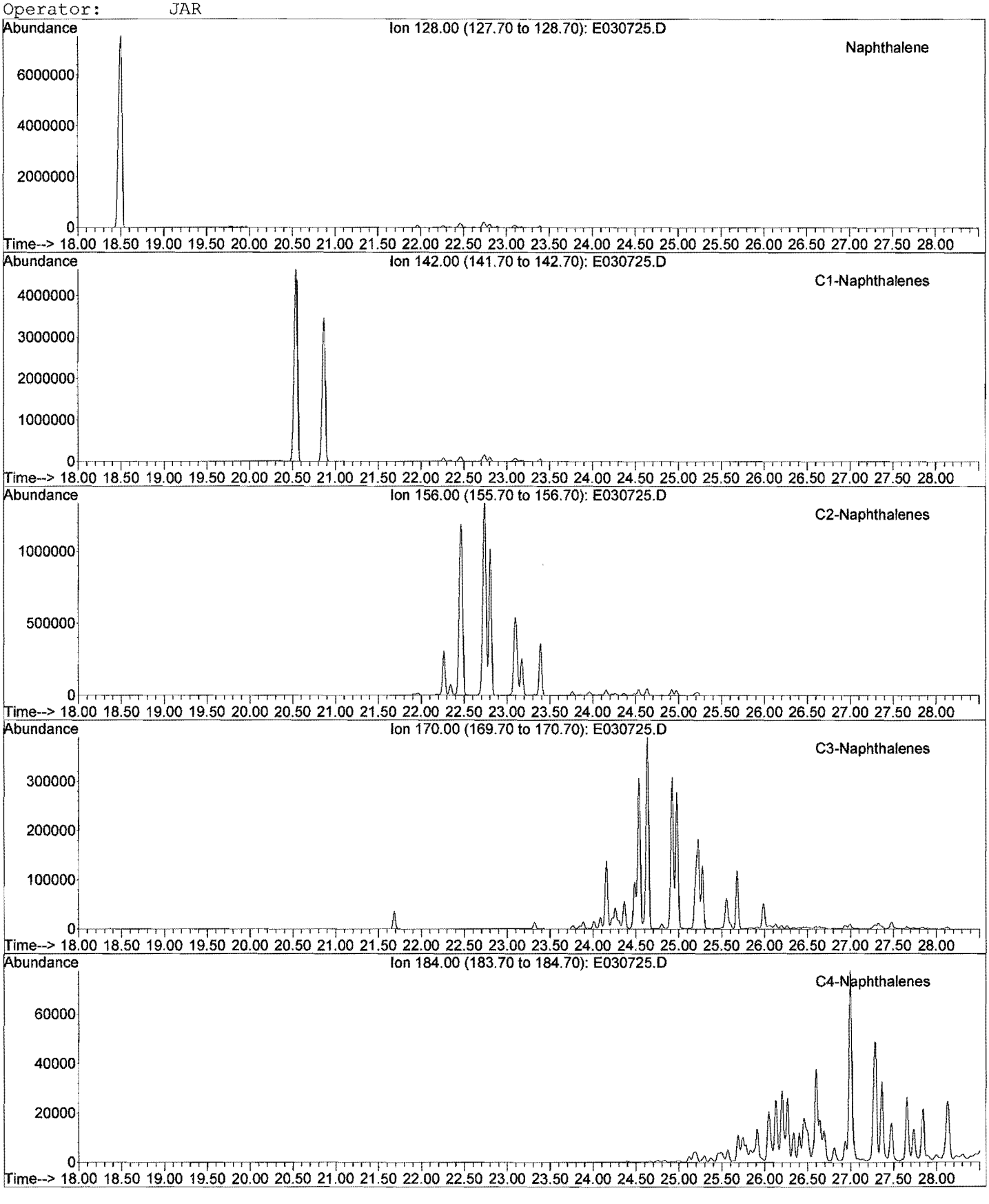
File: J:\1\DATA\E070307\E030725.D
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

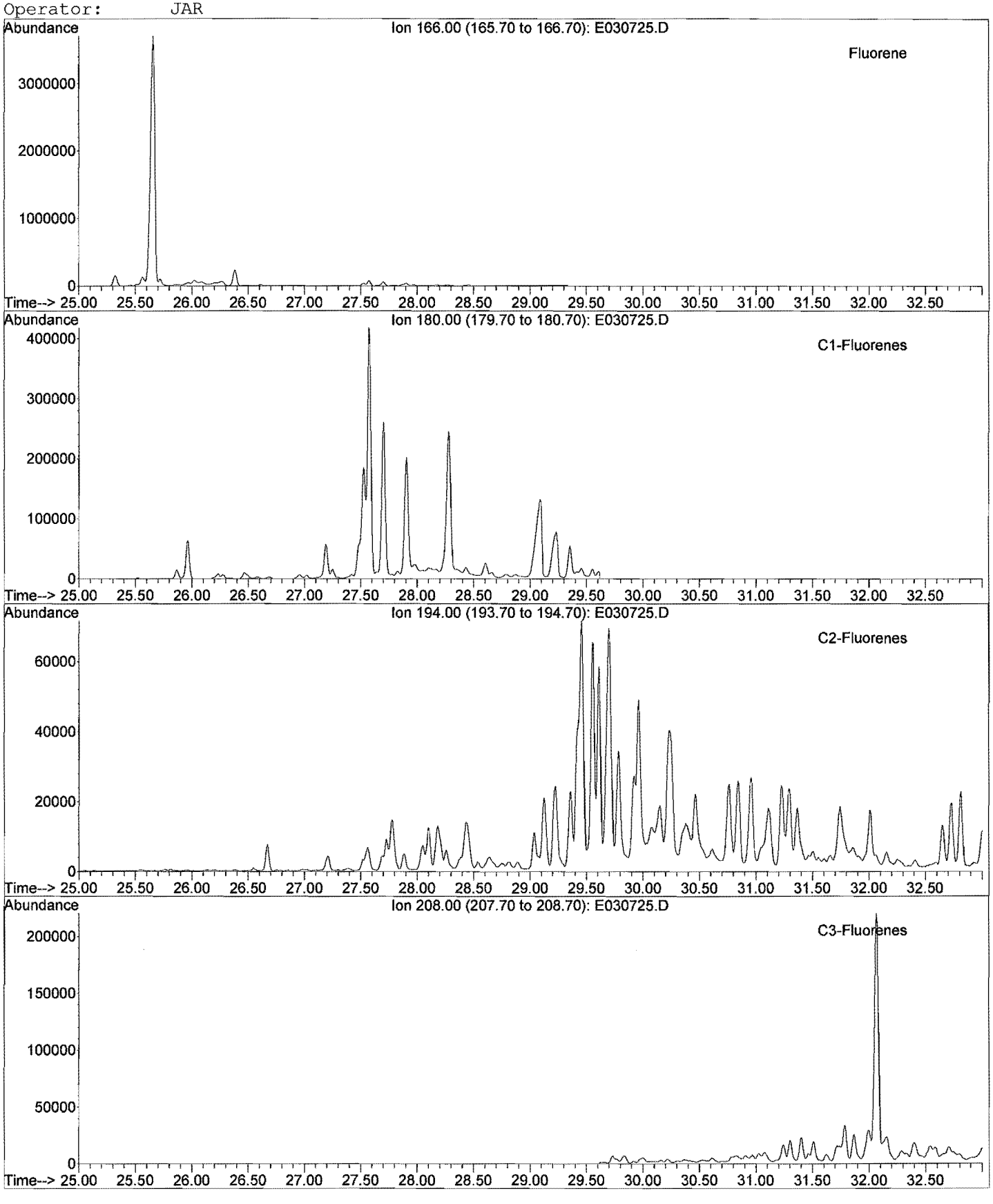
File: J:\1\DATA\E070307\E030725.D
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

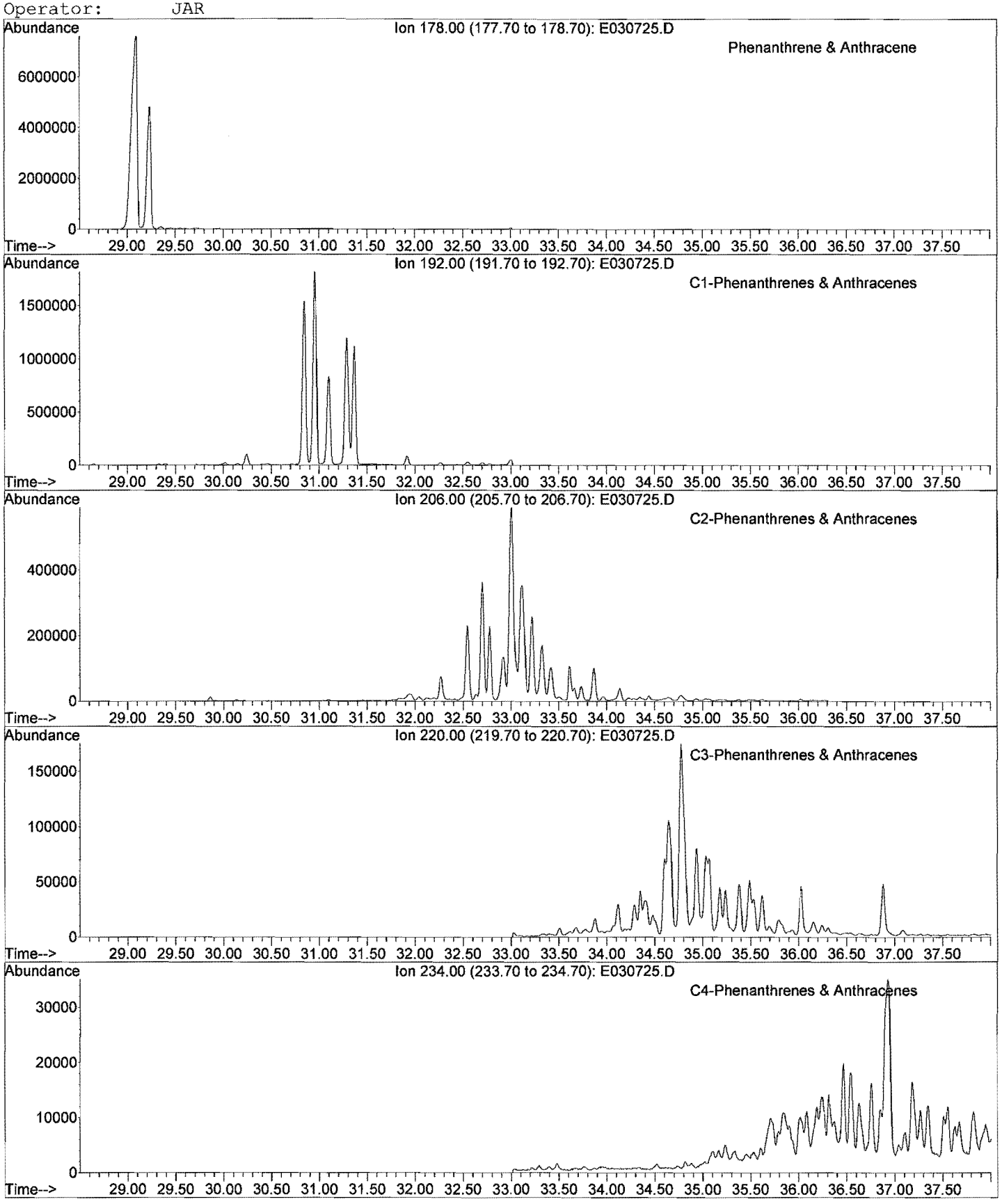
File: J:\1\DATA\E070307\E030725.D
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

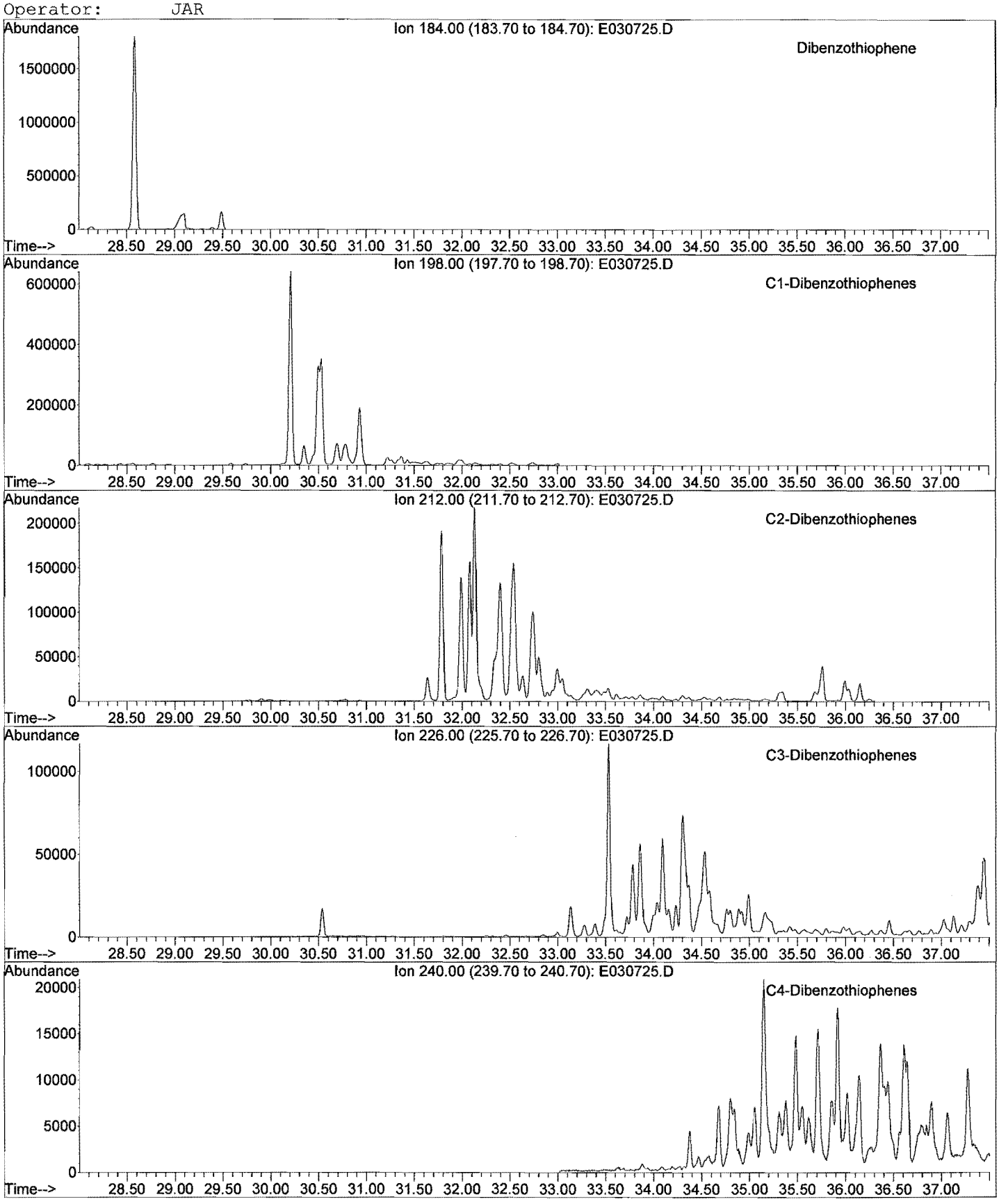
File: J:\1\DATA\E070307\E030725.D
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

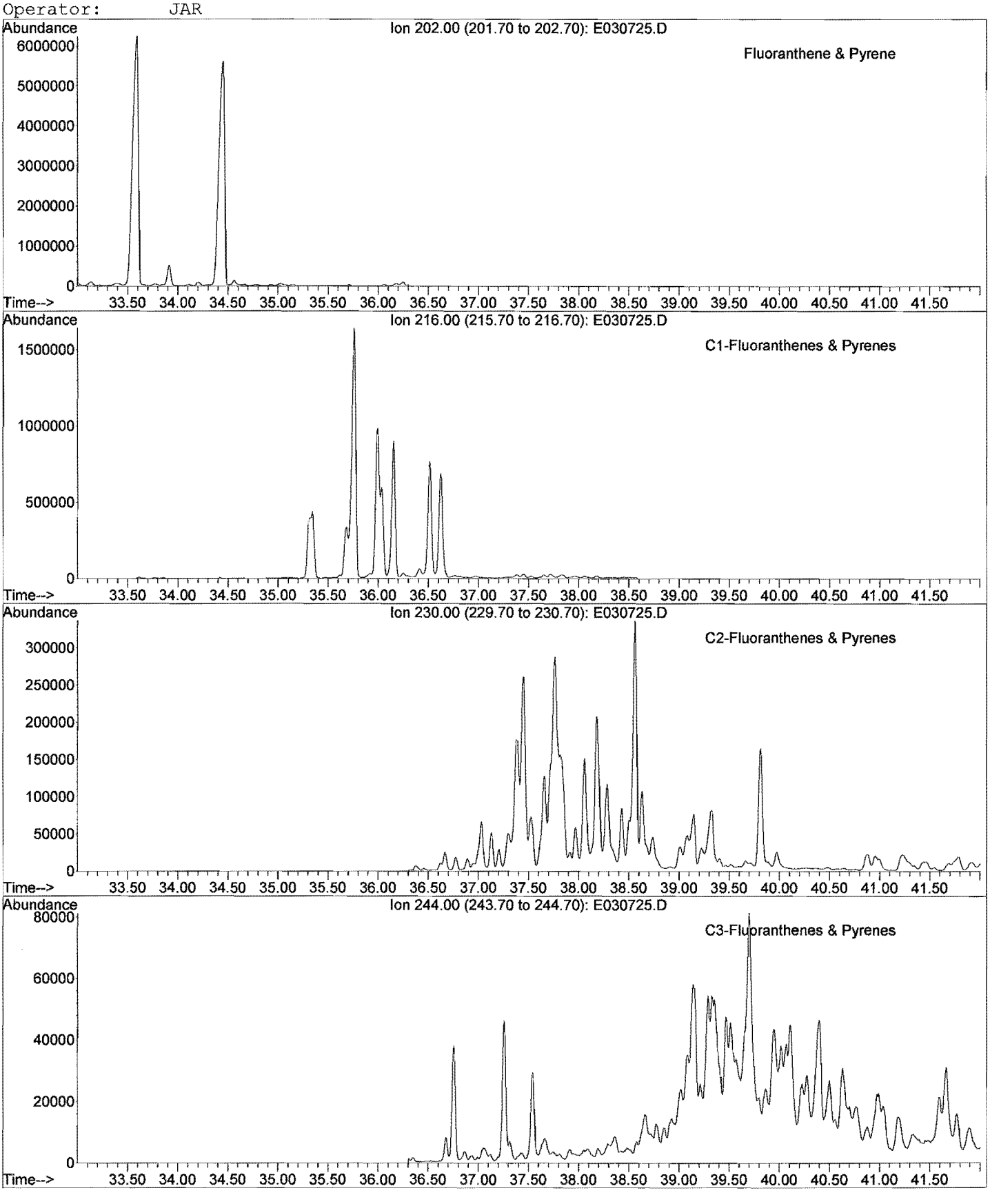
File: J:\1\DATA\E070307\E030725.D
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

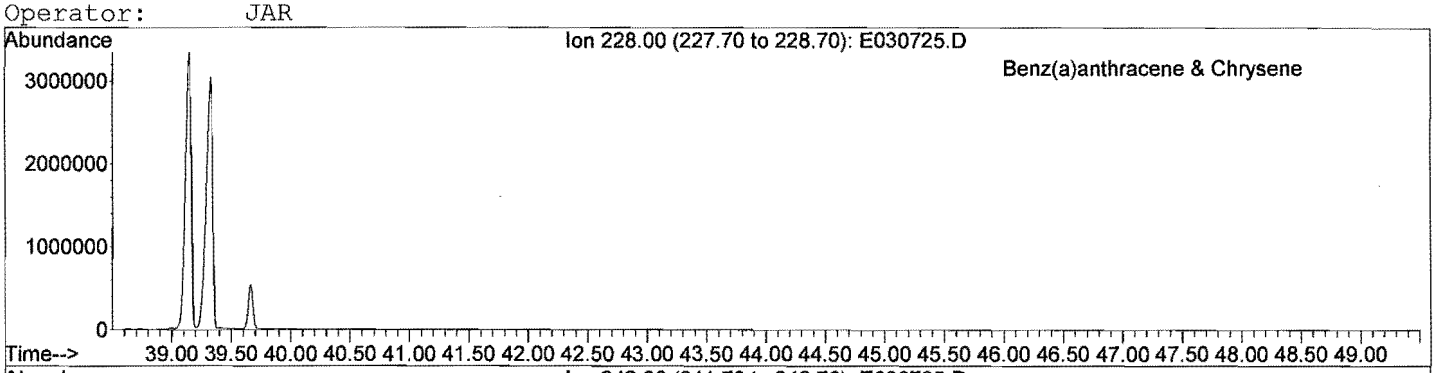
File: J:\1\DATA\E070307\E030725.D
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR

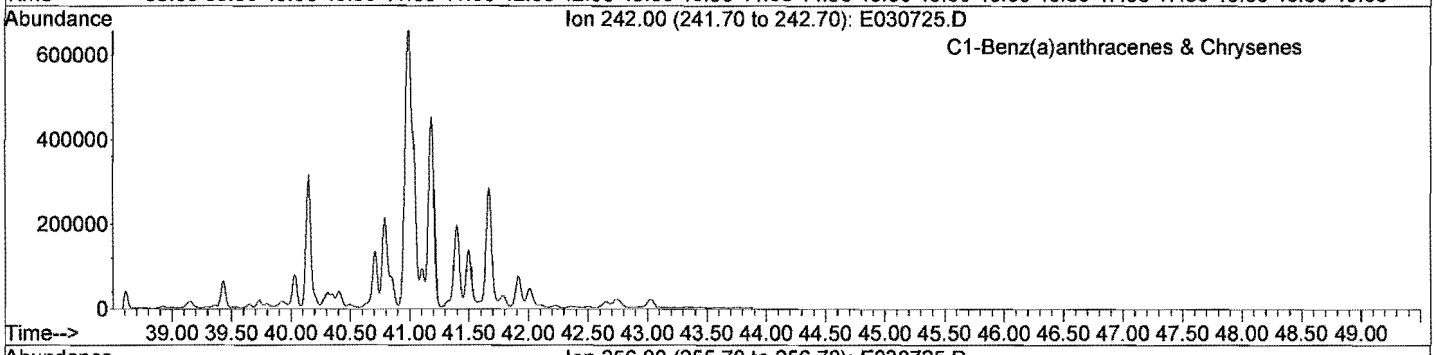


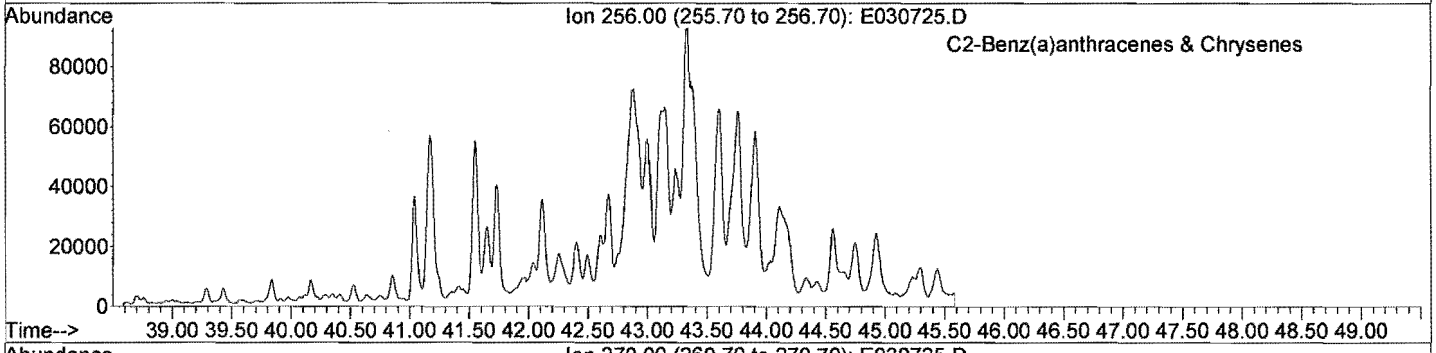
META Environmental, Inc.

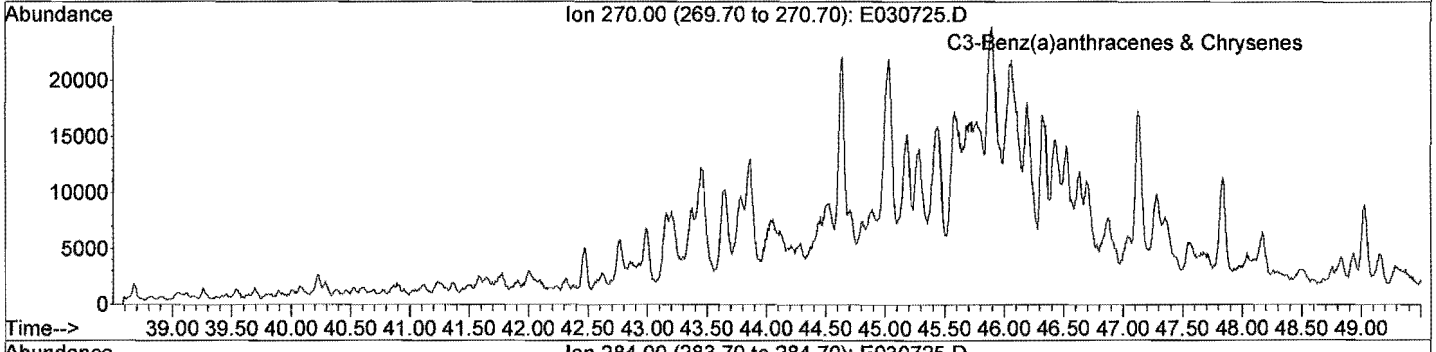
GC/MS EXTRACTED ION CHROMATOGRAM

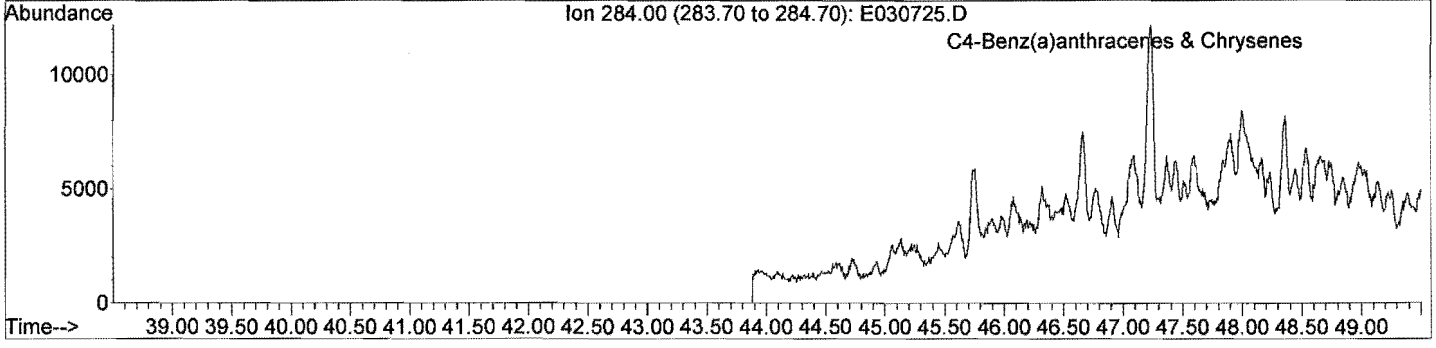
File: J:\1\DATA\E070307\E030725.D
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR











META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

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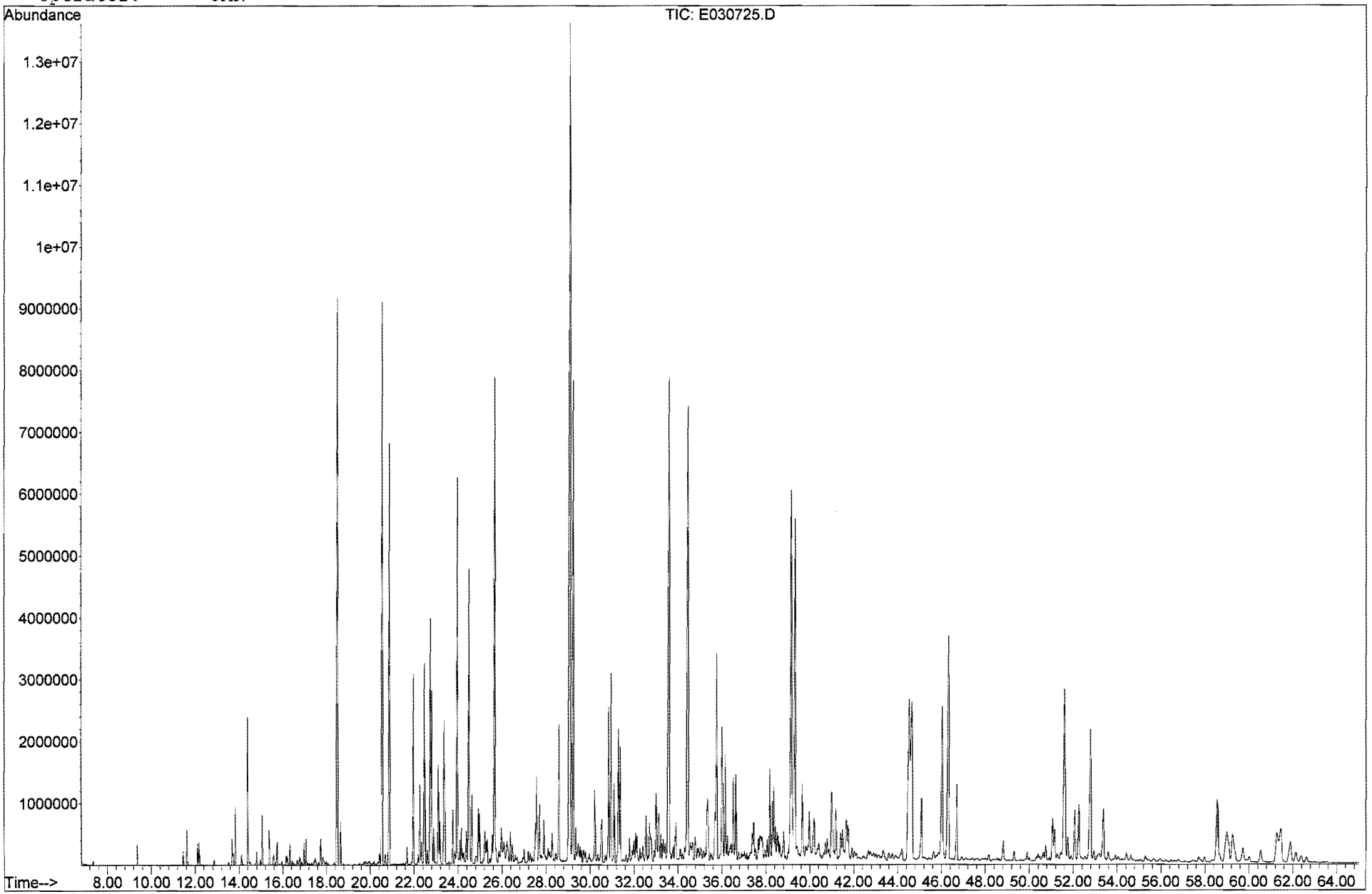
Date Acquired: 8 Mar 2007 6:12 pm
Method File: 4008SIM2.M
Sample Name: CH070223-03-D2
Misc Info: PP-P3 (3.5-4.5) PP-P3-4.0-022207
Operator: JAR



New Jersey
ACCUTEST
LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 ARI (SOIL) Edgewater, NJ

PO# 917730 Quanta 2006 ARI COC#30916-100906-SOIL

Accutest Job Number: J43281

Sampling Date: 10/09/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **18**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J43281

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO# 917730 Quanta 2006 ARI COC#30916-100906-SOIL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J43281-1	10/09/06	10:00	AH	10/09/06	SO	Soil	TL18.5-1.5-12.5
J43281-3	10/09/06	10:30	AH	10/09/06	AQ	Trip Blank Soil	TB-100906

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J43281
Site:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Report Date**	10/30/2006 3:15:13 PM

1 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 10/09/2006 and were received at Accutest on 10/09/2006 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of J43281. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** V3A1248

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43429-6MS, J43429-6MSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Ethylbenzene, m,p-Xylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for o-Xylene, Styrene, Xylene (total) are outside control limits. Outside control limits due to matrix interference.

Matrix SO **Batch ID:** VD4731

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43507-5AMS, J43507-5AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Carbon tetrachloride, Trichlorofluoromethane are outside control limits. High percent recoveries and no associated positive found in the QC batch.

Extractables by GCMS By Method SW846 8270C

Matrix SO **Batch ID:** OP25085

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43207-1MS, J43207-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Hexachlorocyclopentadiene are outside control limits. Probable cause due to matrix interference.

Extractables by GC By Method SW846 8082

Matrix	SO	Batch ID:	OP25104

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43001-10MS, J43001-10MSD, OP25104-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43281-1 have surrogates outside control limits. Probable cause due to matrix interference.
- J43281-1 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Wet Chemistry By Method ASTM 4643-00

Matrix	SO	Batch ID:	GN96330

- The data for ASTM 4643-00 meets quality control requirements.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J43281).

Summary of Hits

Job Number: J43281
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/09/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J43281-1	**TL18.5-1.5-12.5**					
Methyl Acetate		487	320	91	ug/kg	SW846 8260B
Total TIC, Volatile		340 J			ug/kg	
Acenaphthene		640	78	20	ug/kg	SW846 8270C
Acenaphthylene		390	78	16	ug/kg	SW846 8270C
Anthracene		2620	78	15	ug/kg	SW846 8270C
Benzo(a)anthracene		6520	780	190	ug/kg	SW846 8270C
Benzo(a)pyrene		5290	780	130	ug/kg	SW846 8270C
Benzo(b)fluoranthene		5180	780	180	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		2890	78	21	ug/kg	SW846 8270C
Benzo(k)fluoranthene		4310	780	290	ug/kg	SW846 8270C
1,1'-Biphenyl		109	78	19	ug/kg	SW846 8270C
Benzaldehyde		89.1 J	190	43	ug/kg	SW846 8270C
Carbazole		956	78	16	ug/kg	SW846 8270C
Chrysene		6680	780	140	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		1200	78	20	ug/kg	SW846 8270C
Dibenzofuran		720	78	18	ug/kg	SW846 8270C
Fluoranthene		15500	780	140	ug/kg	SW846 8270C
Fluorene		1040	78	16	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		2980	78	25	ug/kg	SW846 8270C
2-Methylnaphthalene		239	78	25	ug/kg	SW846 8270C
Naphthalene		450	78	22	ug/kg	SW846 8270C
Phenanthrene		10000	780	170	ug/kg	SW846 8270C
Pyrene		10500	780	130	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		32400 J			ug/kg	
J43281-3	**TB-100906**					

No hits reported in this sample.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TL18.5-1.5-12.5		
Lab Sample ID:	J43281-1	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/09/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118642.D	1	10/18/06	YL	10/10/06 08:00	n/a	VD4731
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	640	180	ug/kg	
71-43-2	Benzene	ND	64	31	ug/kg	
75-27-4	Bromodichloromethane	ND	320	29	ug/kg	
75-25-2	Bromoform	ND	320	28	ug/kg	
74-83-9	Bromomethane	ND	320	24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	640	180	ug/kg	
75-15-0	Carbon disulfide	ND	320	36	ug/kg	
56-23-5	Carbon tetrachloride	ND	320	61	ug/kg	
108-90-7	Chlorobenzene	ND	320	28	ug/kg	
75-00-3	Chloroethane	ND	320	110	ug/kg	
67-66-3	Chloroform	ND	320	38	ug/kg	
74-87-3	Chloromethane	ND	320	30	ug/kg	
110-82-7	Cyclohexane	ND	320	82	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	640	140	ug/kg	
124-48-1	Dibromochloromethane	ND	320	35	ug/kg	
106-93-4	1,2-Dibromoethane	ND	64	36	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	320	29	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	320	31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	320	30	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	320	51	ug/kg	
75-34-3	1,1-Dichloroethane	ND	320	31	ug/kg	
107-06-2	1,2-Dichloroethane	ND	64	35	ug/kg	
75-35-4	1,1-Dichloroethene	ND	320	44	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	320	43	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	320	44	ug/kg	
78-87-5	1,2-Dichloropropane	ND	320	36	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	320	27	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	320	25	ug/kg	
100-41-4	Ethylbenzene	ND	64	29	ug/kg	
76-13-1	Freon 113	ND	320	55	ug/kg	
591-78-6	2-Hexanone	ND	320	88	ug/kg	
98-82-8	Isopropylbenzene	ND	320	30	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-1.5-12.5		
Lab Sample ID:	J43281-1	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/09/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	487	320	91	ug/kg	
108-87-2	Methylcyclohexane	ND	320	42	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	64	36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	320	130	ug/kg	
75-09-2	Methylene chloride	ND	320	45	ug/kg	
100-42-5	Styrene	ND	320	21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	37	ug/kg	
127-18-4	Tetrachloroethene	ND	320	53	ug/kg	
108-88-3	Toluene	ND	64	35	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	320	23	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	320	38	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	320	35	ug/kg	
79-01-6	Trichloroethene	ND	320	34	ug/kg	
75-69-4	Trichlorofluoromethane	ND	320	47	ug/kg	
75-01-4	Vinyl chloride	ND	320	42	ug/kg	
	m,p-Xylene	ND	130	57	ug/kg	
95-47-6	o-Xylene	ND	64	32	ug/kg	
1330-20-7	Xylene (total)	ND	130	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-120%
17060-07-0	1,2-Dichloroethane-D4	125%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	97%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	cyclohexane alkyl	19.24	340	ug/kg	J
	Total TIC, Volatile		340	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-1.5-12.5		
Lab Sample ID:	J43281-1	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/09/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3200.D	1	10/20/06	OYA	10/11/06	OP25085	E3E113
Run #2	3E3238.D	10	10/23/06	OYA	10/11/06	OP25085	E3E115

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2	30.1 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	49	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	65	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	99	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	780	59	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	780	34	ug/kg	
95-48-7	2-Methylphenol	ND	190	38	ug/kg	
	3&4-Methylphenol	ND	190	55	ug/kg	
88-75-5	2-Nitrophenol	ND	190	48	ug/kg	
100-02-7	4-Nitrophenol	ND	780	53	ug/kg	
87-86-5	Pentachlorophenol	ND	780	43	ug/kg	
108-95-2	Phenol	ND	190	48	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	58	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	33	ug/kg	
83-32-9	Acenaphthene	640	78	20	ug/kg	
208-96-8	Acenaphthylene	390	78	16	ug/kg	
98-86-2	Acetophenone	ND	190	24	ug/kg	
120-12-7	Anthracene	2620	78	15	ug/kg	
1912-24-9	Atrazine	ND	190	33	ug/kg	
56-55-3	Benzo(a)anthracene	6520 [a]	780	190	ug/kg	
50-32-8	Benzo(a)pyrene	5290 [a]	780	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	5180 [a]	780	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	2890	78	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	4310 [a]	780	290	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	78	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	78	29	ug/kg	
92-52-4	1,1'-Biphenyl	109	78	19	ug/kg	
100-52-7	Benzaldehyde	89.1	190	43	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	78	54	ug/kg	
106-47-8	4-Chloroaniline	ND	190	24	ug/kg	
86-74-8	Carbazole	956	78	16	ug/kg	
105-60-2	Caprolactam	ND	78	37	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-1.5-12.5
Lab Sample ID: J43281-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/09/06
Percent Solids: 85.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	6680 [a]	780	140	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	78	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	78	19	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	78	29	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	78	18	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	78	45	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	78	44	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	37	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1200	78	20	ug/kg	
132-64-9	Dibenzofuran	720	78	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	78	25	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	78	33	ug/kg	
84-66-2	Diethyl phthalate	ND	78	17	ug/kg	
131-11-3	Dimethyl phthalate	ND	78	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	78	50	ug/kg	
206-44-0	Fluoranthene	15500 [a]	780	140	ug/kg	
86-73-7	Fluorene	1040	78	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	78	26	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	780	28	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2980	78	25	ug/kg	
78-59-1	Isophorone	ND	78	19	ug/kg	
91-57-6	2-Methylnaphthalene	239	78	25	ug/kg	
88-74-4	2-Nitroaniline	ND	190	25	ug/kg	
99-09-2	3-Nitroaniline	ND	190	30	ug/kg	
100-01-6	4-Nitroaniline	ND	190	27	ug/kg	
91-20-3	Naphthalene	450	78	22	ug/kg	
98-95-3	Nitrobenzene	ND	78	27	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	78	25	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	16	ug/kg	
85-01-8	Phenanthrene	10000 [a]	780	170	ug/kg	
129-00-0	Pyrene	10500 [a]	780	130	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%	47%	33-105%
4165-62-2	Phenol-d5	68%	36%	34-110%
118-79-6	2,4,6-Tribromophenol	75%	47%	33-124%
4165-60-0	Nitrobenzene-d5	72%	49%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-1.5-12.5
Lab Sample ID: J43281-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/09/06
Percent Solids: 85.7

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	75%	58%	40-106%
1718-51-0	Terphenyl-d14	77%	68%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.60	120000	ug/kg	J
	Naphthalene trimethyl	13.30	480	ug/kg	J
	Dibenzofuran, -methyl-	14.15	470	ug/kg	J
	unknown	15.48	640	ug/kg	J
132	Dibenzothiophene	15.65	1000	ug/kg	JN
	Naphthalene, -phenyl-	16.73	690	ug/kg	J
	Anthracene, -methyl-	17.13	1500	ug/kg	J
	Phenanthrene, -methyl-	17.19	1900	ug/kg	J
	Anthracene, -methyl-	17.28	800	ug/kg	J
	Cyclopenta[def]phenanthrene	17.38	2500	ug/kg	J
	Anthracene, -methyl-	17.44	980	ug/kg	J
	Phenylnaphthalene	17.88	2200	ug/kg	J
	Phenanthrene, ,-dimethyl-	18.31	640	ug/kg	J
	Phenanthrene, -dimethyl-	18.48	1200	ug/kg	J
	Phenanthrene, -dimethyl-	18.53	1500	ug/kg	J
10544-50-0	Sulfur (S8)	18.61	4300	ug/kg	J
	Naphthacenedione	22.78	500	ug/kg	J
	unknown	23.06	850	ug/kg	J
	unknown PAH substance	23.43	1600	ug/kg	J
	unknown	23.58	1200	ug/kg	J
207	Benzo[k]fluoranthene	23.67	4600	ug/kg	JN
	unknown	23.92	540	ug/kg	J
	unknown PAH substance	25.32	550	ug/kg	J
	unknown PAH substance	25.72	640	ug/kg	J
	unknown PAH substance	25.79	590	ug/kg	J
	unknown PAH substance	26.24	530	ug/kg	J
	Total TIC, Semi-Volatile		32400	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-1.5-12.5		
Lab Sample ID:	J43281-1	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/09/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	85.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60597.D	1	10/17/06	JSE	10/12/06	OP25104	GAB2737
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	7.3	ug/kg	
11104-28-2	Aroclor 1221	ND	39	23	ug/kg	
11141-16-5	Aroclor 1232	ND	39	21	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	13	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	7.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	198% [a]		37-140%
877-09-8	Tetrachloro-m-xylene	95%		37-140%
2051-24-3	Decachlorobiphenyl	86%		40-151%
2051-24-3	Decachlorobiphenyl	99%		40-151%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-100906		
Lab Sample ID:	J43281-3	**Date Sampled:**	10/09/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/09/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A29837.D	1	10/17/06	LY	n/a	n/a	V3A1248
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-100906		
Lab Sample ID:	J43281-3	**Date Sampled:**	10/09/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/09/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		77-121%
17060-07-0	1,2-Dichloroethane-D4	101%		65-133%
2037-26-5	Toluene-D8	96%		80-117%
460-00-4	4-Bromofluorobenzene	93%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SO SHE tb

N

J43281

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	38999.20022
COC#	30916-100906-Soil
Lab Proj # (SDG):	
Lab ID	ACTD
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Quanta Resources (Edgewater)
Location of Site: Edgewater, NJ
Phase:
Sampling Program: Quanta 2006 ARI ~~Groundwater~~

Sampling Co.: CH2M HILL
EDD To: amy.klopper@ch2m.com, john.mitchell@ch2m.com
Sampler: Austin Hareclerode
PO #
Analysis Turnaround Time (TAT): 10
Consultant: CH2M
Full Report TAT:

Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103

Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To: jennifer.simms@ch2m.com

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082,	Cr VI	Sampling Method (code)	Lab Sample Numbers
											Units										
1	TL-18.5-1	12	13	TL-18.5-1.5-12.5	10/9/06	1000	Soil	Soil	Reg	2	G	N	X	X		X				EX45,	14NGM,
2	TL-18.5-2	19	20	TL-18.5-1.5-19.5	10/9/06	1030	Soil	Soil	Reg	3	G	N	X	X		X			X		2299Y
3	Trip Blank-3	—		TB-100906 ⊗	10/9/06	-	Aqueous	DI	TB	2	G	N	X								
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

• 1 ENCORE REC'D [illegible] 10-9-06
⊗ TB Full 10-6-06 @ 06:30 [illegible] 10-9-06

SW6010^LLI

See worksheet SW6010 - analyze for Arsenic (As) and Lead (Pb)

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
~~Jen Simms~~ [signature]	CH2M HILL	[signature]			
Date/Time	10/9/06 1600 ~~8/15/06 16:00~~	Date/Time	10/9/06 1730	Cooler Temp.	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
[signature]		[signature]			
Date/Time		Date/Time	10/9/06 17:30	Cooler Temp.	

Preservatives: (Other; Specify): 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

2A

2.6°C

5.1

5

J43281: Chain of Custody
Page 1 of 2

Job Change Order: J43281_10/11/2006

Requested Date:	10/11/2006	**Received Date:**	10/9/2006
Account Name:	CH2M Hill	**Due Date:**	10/23/2006
Project Description:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	14

Sample #:
J43281-2

Change: Add CR & METDIG

TL-18.5-1.5-19.5

Above Changes Per: Jennifer Simms **Date:** 10/11/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

J43281: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 ARI (SOIL) Edgewater, NJ

PO#917730

Accutest Job Number: J43392

Sampling Dates: 10/09/06 - 10/10/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **107**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J43392

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J43392-1	10/09/06	14:15	AH	10/10/06	SO	Soil	TL17-05-11.5
J43392-1A	10/09/06	14:15	AH	10/10/06	SO	Soil	TL17-05-11.5
J43392-2	10/09/06	14:45	AH	10/10/06	SO	Soil	TL17-05-24
J43392-2A	10/09/06	14:45	AH	10/10/06	SO	Soil	TL17-05-24
J43392-3	10/10/06	08:30	AH	10/10/06	AQ	Equipment Blank	EB-101006
J43392-4	10/10/06	09:00	AH	10/10/06	SO	Soil	TL10-3.5-3.0
J43392-5	10/09/06	00:00	AH	10/10/06	SO	Soil	DUP-100906
J43392-5A	10/09/06	00:00	AH	10/10/06	SO	Soil	DUP-100906
J43392-6	10/10/06	00:00	AH	10/10/06	SO	Soil	DUP-101006
J43392-7	10/10/06	09:30	AH	10/10/06	SO	Soil	TL10-3.5-11
J43392-7D	10/10/06	09:30	AH	10/10/06	SO	Soil Dup/MSD	TL10-3.5-11
J43392-7S	10/10/06	09:30	AH	10/10/06	SO	Soil Matrix Spike	TL10-3.5-11
J43392-8	10/10/06	10:00	AH	10/10/06	SO	Soil	TL10-3.5-26

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

CH2M Hill

Job No: J43392

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J43392-9	10/10/06	10:45	AH	10/10/06	SO	Soil	TL11-0.75-3.0
J43392-10	10/10/06	11:00	AH	10/10/06	SO	Soil	TL11-0.75-15
J43392-11	10/10/06	14:30	AH	10/10/06	AQ	Trip Blank Soil	TB-101006
J43392-12	10/10/06	14:00	AH	10/10/06	SO	Soil	TL15-09-01
J43392-13	10/10/06	14:30	AH	10/10/06	SO	Soil	TL15-09-14

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J43392
Site:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Report Date**	11/3/2006 11:04:37 AM

12 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected between 10/09/2006 and 10/10/2006 and were received at Accutest on 10/10/2006 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of J43392. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** V3A1251

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43454-5MS, J43454-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,1-Dichloroethane are outside control limits. High percent recoveries and no associated positive reported in the QC batch.

Matrix LEACHATE **Batch ID:** GP35883

- Sample(s) J43392-1ALS were used as the QC samples indicated.
- GP35883-LS8 for Vinyl chloride: Outside control limits due to matrix interference.
- GP35883-LS8 for Tetrachloroethene: Outside control limits due to matrix interference.

Matrix LEACHATE **Batch ID:** VL4563

- J43515-3AMS, J43515-3AMSD for Vinyl chloride: Outside control limits due to matrix interference.
- J43515-3AMS, J43515-3AMSD for Tetrachloroethene: Outside control limits due to matrix interference.

Matrix SO **Batch ID:** VY2274

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43392-7MS, J43392-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Chloromethane are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Methyl Tert Butyl Ether are outside control limits for sample J43392-7MSD. Outside control limits due to matrix interference.

Matrix SO **Batch ID:** VY2276

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43323-1MS, J43323-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP25125

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43624-12MS, J43624-12MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine are outside control limits. Outside control limits due to matrix interference.

Matrix LEACHATE **Batch ID:** OP25191

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43367-1LS, J43515-3ALS, J43515-3AMS, J43515-3AMSD, J43917-1LS, J44133-1LS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Pyridine are outside control limits. Entire batch sent for reextraction.
- Sample(s) OP25191-MB1 have surrogates outside of in house control limits.

Matrix SO **Batch ID:** OP25114

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43392-7MS, J43392-7MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Sample(s) J43392-13 have surrogates outside control limits due to matrix interference and dilution.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP25127

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43435-3MS, J43435-3MSD, OP25127-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix LEACHATE **Batch ID:** OP25172

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43515-3ALS, J43625-3AMS, J43625-3AMSD, OP25172-MSMSD were used as the QC samples indicated.
- Sample(s) OP25172-MS have surrogates outside control limits due to matrix interference.

Matrix SO **Batch ID:** OP25122

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43392-7MS, J43392-7MSD, OP25122-MSMSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix	AQ	Batch ID:	MP36414

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J42438-4MS, J42438-4MSD, J42438-4SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Copper, Iron, Potassium, Sodium, Vanadium, Zinc are outside control limits for sample MP36414-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix	LEACHATE	Batch ID:	MP36353

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43515-3AMS, J43515-3AMSD, J43515-3ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Lead, Selenium are outside control limits for sample MP36353-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix	SO	Batch ID:	MP36412

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43392-1MS, J43392-1MSD, J43392-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Lead are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Lead, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Antimony, Selenium, Silver are outside control limits for sample MP36412-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- RPD(s) for Serial Dilution for Sodium are outside control limits indicating possible matrix interference.

Metals By Method SW846 7470A

Matrix	AQ	Batch ID:	MP36443

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J42596-2FMS, J42596-2FMSD were used as the QC samples for metals.

Matrix	LEACHATE	Batch ID:	MP36336

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43392-1AMS, J43392-1AMSD were used as the QC samples for metals.

Metals By Method SW846 7471A

Matrix	SO	Batch ID:	MP36439

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43392-1MS, J43392-1MSD were used as the QC samples for metals.

Wet Chemistry By Method ASTM 4643-00

Matrix	SO	Batch ID:	GN96352

- The data for ASTM 4643-00 meets quality control requirements.

Wet Chemistry By Method ASTM D1498-76M

Matrix	SO	Batch ID:	GN96458

- Sample(s) J44242-1DUP, J44243-1DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method EPA 160.3 M

Matrix	SO	Batch ID:	GN96359

- The data for EPA 160.3 M meets quality control requirements.

Matrix	SO	Batch ID:	GN96481

- The data for EPA 160.3 M meets quality control requirements.

Wet Chemistry By Method SW846 3060A/NJ7196A

Matrix	SO	Batch ID:	GP35925

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43392-10DUP, J43392-10MS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Insoluble XCR matrix spike recovery indicates possible matrix interference. See additional comments on soluble matrix spike recovery.
- GP35925-S1 for Chromium, Hexavalent: Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (85.1%) on this sample.

Wet Chemistry By Method SW846 6010/7196A M

Matrix	SO	Batch ID:	R59551

- The data for SW846 6010/7196A M meets quality control requirements.
- J43392-10 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J43392).

Summary of Hits

Job Number: J43392
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/09/06 thru 10/10/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J43392-1	**TL17-05-11.5**					
Aluminum		6860	24	5.7	mg/kg	SW846 6010B
Arsenic		116	2.4	0.90	mg/kg	SW846 6010B
Barium		55.7	24	0.36	mg/kg	SW846 6010B
Cadmium		1.2	0.59	0.12	mg/kg	SW846 6010B
Calcium		17200	590	11	mg/kg	SW846 6010B
Chromium		21.8	1.2	0.52	mg/kg	SW846 6010B
Cobalt		8.0	5.9	0.21	mg/kg	SW846 6010B
Copper		178	3.0	0.27	mg/kg	SW846 6010B
Iron		15900	12	8.9	mg/kg	SW846 6010B
Lead		193	2.4	0.38	mg/kg	SW846 6010B
Magnesium		3390	590	2.1	mg/kg	SW846 6010B
Manganese		144	1.8	0.071	mg/kg	SW846 6010B
Mercury		0.058	0.039	0.013	mg/kg	SW846 7471A
Nickel		14.4	4.7	0.38	mg/kg	SW846 6010B
Potassium		1350	590	11	mg/kg	SW846 6010B
Silver		0.39 B	1.2	0.26	mg/kg	SW846 6010B
Sodium		512 B	1200	40	mg/kg	SW846 6010B
Vanadium		19.6	5.9	0.27	mg/kg	SW846 6010B
Zinc		451	2.4	0.34	mg/kg	SW846 6010B
J43392-1A	**TL17-05-11.5**					
Arsenic		0.066	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.0062 B	1.0	0.0025	mg/l	SW846 6010B
Cadmium		0.00063 B	0.0040	0.00060	mg/l	SW846 6010B
Lead		0.0030	0.0030	0.0026	mg/l	SW846 6010B
Selenium		0.0030 B	0.050	0.0030	mg/l	SW846 6010B
J43392-2	**TL17-05-24**					
bis(2-Ethylhexyl)phthalate		119	77	49	ug/kg	SW846 8270C
Naphthalene		58.0 J	77	22	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		350 J			ug/kg	
Aluminum		5920	23	5.5	mg/kg	SW846 6010B
Arsenic		265	2.3	0.87	mg/kg	SW846 6010B
Barium		23.7	23	0.34	mg/kg	SW846 6010B
Beryllium		0.12 B	0.57	0.023	mg/kg	SW846 6010B
Calcium		678	570	10	mg/kg	SW846 6010B
Chromium		13.7	1.1	0.50	mg/kg	SW846 6010B
Cobalt		3.1 B	5.7	0.21	mg/kg	SW846 6010B
Copper		316	2.9	0.26	mg/kg	SW846 6010B
Iron		12800	11	8.6	mg/kg	SW846 6010B
Lead		7.3	2.3	0.37	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43392
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/09/06 thru 10/10/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Magnesium		2230	570	2.0	mg/kg	SW846 6010B
Manganese		91.1	1.7	0.069	mg/kg	SW846 6010B
Mercury		0.16	0.035	0.012	mg/kg	SW846 7471A
Nickel		9.5	4.6	0.37	mg/kg	SW846 6010B
Potassium		911	570	10	mg/kg	SW846 6010B
Sodium		173 B	1100	38	mg/kg	SW846 6010B
Vanadium		15.5	5.7	0.26	mg/kg	SW846 6010B
Zinc		31.0	2.3	0.33	mg/kg	SW846 6010B
J43392-2A	**TL17-05-24**					
Arsenic		0.099	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.0031 B	1.0	0.0025	mg/l	SW846 6010B
Lead		0.0026 B	0.0030	0.0026	mg/l	SW846 6010B
J43392-3	**EB-101006**					
Copper		3.4 B	25	2.3	ug/l	SW846 6010B
Manganese		0.40 B	15	0.40	ug/l	SW846 6010B
Selenium		5.5 B	10	3.0	ug/l	SW846 6010B
Sodium		1470 B	10000	310	ug/l	SW846 6010B
Zinc		4.1 B	20	3.3	ug/l	SW846 6010B
J43392-4	**TL10-3.5-3.0**					
Acenaphthene		8630	390	99	ug/kg	SW846 8270C
Acenaphthylene		561	390	79	ug/kg	SW846 8270C
Anthracene		12700	390	75	ug/kg	SW846 8270C
Benzo(a)anthracene		33000	1900	470	ug/kg	SW846 8270C
Benzo(a)pyrene		31100	1900	340	ug/kg	SW846 8270C
Benzo(b)fluoranthene		26300	1900	440	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		15100	390	110	ug/kg	SW846 8270C
Benzo(k)fluoranthene		23500	1900	730	ug/kg	SW846 8270C
1,1'-Biphenyl		302 J	390	94	ug/kg	SW846 8270C
Carbazole		4060	390	79	ug/kg	SW846 8270C
Chrysene		31900	1900	360	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		6320	390	100	ug/kg	SW846 8270C
Dibenzofuran		2810	390	90	ug/kg	SW846 8270C
Fluoranthene		69200	1900	340	ug/kg	SW846 8270C
Fluorene		5690	390	78	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		14700	390	120	ug/kg	SW846 8270C
2-Methylnaphthalene		921	390	130	ug/kg	SW846 8270C
Naphthalene		1690	390	110	ug/kg	SW846 8270C
Phenanthrene		40800	1900	430	ug/kg	SW846 8270C
Pyrene		54300	1900	340	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43392
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/09/06 thru 10/10/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Total TIC, Semi-Volatile		279400 J			ug/kg	
Aroclor 1254		409	110	51	ug/kg	SW846 8082
Aroclor 1260		195	110	22	ug/kg	SW846 8082
J43392-5	**DUP-100906**					
bis(2-Ethylhexyl)phthalate		124	77	49	ug/kg	SW846 8270C
Naphthalene		65.1 J	77	22	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		360 J			ug/kg	
Aluminum		6630	22	5.4	mg/kg	SW846 6010B
Arsenic		305	2.2	0.85	mg/kg	SW846 6010B
Barium		25.2	22	0.34	mg/kg	SW846 6010B
Beryllium		0.15 B	0.56	0.022	mg/kg	SW846 6010B
Calcium		670	560	10	mg/kg	SW846 6010B
Chromium		14.6	1.1	0.49	mg/kg	SW846 6010B
Cobalt		3.3 B	5.6	0.20	mg/kg	SW846 6010B
Copper		354	2.8	0.26	mg/kg	SW846 6010B
Iron		14400	11	8.5	mg/kg	SW846 6010B
Lead		8.0	2.2	0.36	mg/kg	SW846 6010B
Magnesium		2460	560	1.9	mg/kg	SW846 6010B
Manganese		102	1.7	0.067	mg/kg	SW846 6010B
Mercury		0.14	0.038	0.013	mg/kg	SW846 7471A
Nickel		9.7	4.5	0.36	mg/kg	SW846 6010B
Potassium		933	560	10	mg/kg	SW846 6010B
Sodium		166 B	1100	38	mg/kg	SW846 6010B
Vanadium		16.1	5.6	0.26	mg/kg	SW846 6010B
Zinc		34.9	2.2	0.33	mg/kg	SW846 6010B
J43392-5A	**DUP-100906**					
Arsenic		0.13	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.0032 B	1.0	0.0025	mg/l	SW846 6010B
Lead		0.0035	0.0030	0.0026	mg/l	SW846 6010B
J43392-6	**DUP-101006**					
Acenaphthene		7700	390	98	ug/kg	SW846 8270C
Acenaphthylene		402	390	78	ug/kg	SW846 8270C
Anthracene		13500	390	75	ug/kg	SW846 8270C
Benzo(a)anthracene		30400	1900	470	ug/kg	SW846 8270C
Benzo(a)pyrene		27700	1900	340	ug/kg	SW846 8270C
Benzo(b)fluoranthene		23900	1900	440	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		13100	390	110	ug/kg	SW846 8270C
Benzo(k)fluoranthene		21200	1900	730	ug/kg	SW846 8270C
1,1'-Biphenyl		318 J	390	93	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43392
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/09/06 thru 10/10/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Carbazole		4190	390	78	ug/kg	SW846 8270C
Chrysene		29900	1900	360	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		5250	390	100	ug/kg	SW846 8270C
Dibenzofuran		2900	390	90	ug/kg	SW846 8270C
Fluoranthene		69800	1900	340	ug/kg	SW846 8270C
Fluorene		6230	390	77	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		12900	390	120	ug/kg	SW846 8270C
2-Methylnaphthalene		795	390	130	ug/kg	SW846 8270C
Naphthalene		1470	390	110	ug/kg	SW846 8270C
Phenanthrene		48300	1900	420	ug/kg	SW846 8270C
Pyrene		52600	1900	330	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		239900 J			ug/kg	
Aroclor 1254		664	110	51	ug/kg	SW846 8082
Aroclor 1260		359	110	22	ug/kg	SW846 8082
J43392-7	**TL10-3.5-11**					
Methyl Acetate		582 J	900	250	ug/kg	SW846 8260B
Acenaphthene		90.1 J	120	31	ug/kg	SW846 8270C
Anthracene		142	120	24	ug/kg	SW846 8270C
Benzo(a)anthracene		483	120	29	ug/kg	SW846 8270C
Benzo(a)pyrene		519	120	21	ug/kg	SW846 8270C
Benzo(b)fluoranthene		520	120	28	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		344	120	33	ug/kg	SW846 8270C
Benzo(k)fluoranthene		331	120	46	ug/kg	SW846 8270C
Carbazole		68.1 J	120	25	ug/kg	SW846 8270C
Chrysene		632	120	23	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		102 J	120	32	ug/kg	SW846 8270C
Fluoranthene		1060	120	22	ug/kg	SW846 8270C
Fluorene		55.4 J	120	24	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		271	120	39	ug/kg	SW846 8270C
Naphthalene		51.2 J	120	34	ug/kg	SW846 8270C
Phenanthrene		593	120	27	ug/kg	SW846 8270C
Pyrene		902	120	21	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		10680 J			ug/kg	
J43392-8	**TL10-3.5-26**					
Anthracene		42.1 J	120	23	ug/kg	SW846 8270C
Benzo(a)anthracene		110 J	120	28	ug/kg	SW846 8270C
Benzo(a)pyrene		93.1 J	120	20	ug/kg	SW846 8270C
Benzo(b)fluoranthene		80.3 J	120	27	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		59.4 J	120	32	ug/kg	SW846 8270C
Benzo(k)fluoranthene		68.6 J	120	44	ug/kg	SW846 8270C
Chrysene		116 J	120	22	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43392
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/09/06 thru 10/10/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluoranthene		250	120	21	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		49.6 J	120	37	ug/kg	SW846 8270C
Phenanthrene		203	120	26	ug/kg	SW846 8270C
Pyrene		232	120	20	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		3510 J			ug/kg	
J43392-9	**TL11-0.75-3.0**					
Chloroform		55.4 J	320	38	ug/kg	SW846 8260B
Trichlorofluoromethane		250 J	320	47	ug/kg	SW846 8260B
Acenaphthene		3590	370	95	ug/kg	SW846 8270C
Acenaphthylene		399	370	76	ug/kg	SW846 8270C
Anthracene		5910	370	72	ug/kg	SW846 8270C
Benzo(a)anthracene		16000	370	90	ug/kg	SW846 8270C
Benzo(a)pyrene		13300	370	65	ug/kg	SW846 8270C
Benzo(b)fluoranthene		13500	370	85	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		7140	370	100	ug/kg	SW846 8270C
Benzo(k)fluoranthene		11600	370	140	ug/kg	SW846 8270C
1,1'-Biphenyl		133 J	370	90	ug/kg	SW846 8270C
Carbazole		3110	370	75	ug/kg	SW846 8270C
Chrysene		15100	370	69	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		3290	370	98	ug/kg	SW846 8270C
Dibenzofuran		1320	370	87	ug/kg	SW846 8270C
Fluoranthene		34100	1500	260	ug/kg	SW846 8270C
Fluorene		2810	370	75	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		7030	370	120	ug/kg	SW846 8270C
2-Methylnaphthalene		529	370	120	ug/kg	SW846 8270C
Naphthalene		1030	370	110	ug/kg	SW846 8270C
Phenanthrene		20700	1500	330	ug/kg	SW846 8270C
Pyrene		24300	1500	260	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		61300 J			ug/kg	
Aroclor 1254		233	110	50	ug/kg	SW846 8082
Aroclor 1260		212	110	21	ug/kg	SW846 8082
J43392-10	**TL11-0.75-15**					
Total TIC, Volatile		1200 J			ug/kg	
Acenaphthene		3190	97	25	ug/kg	SW846 8270C
Acenaphthylene		234	97	20	ug/kg	SW846 8270C
Anthracene		2250	97	19	ug/kg	SW846 8270C
Benzo(a)anthracene		2260	97	23	ug/kg	SW846 8270C
Benzo(a)pyrene		1910	97	17	ug/kg	SW846 8270C
Benzo(b)fluoranthene		1470	97	22	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		990	97	27	ug/kg	SW846 8270C
Benzo(k)fluoranthene		1330	97	36	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43392
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/09/06 thru 10/10/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,1'-Biphenyl		403	97	23	ug/kg	SW846 8270C
Carbazole		238	97	20	ug/kg	SW846 8270C
Chrysene		2080	97	18	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		334	97	25	ug/kg	SW846 8270C
Dibenzofuran		1750	97	23	ug/kg	SW846 8270C
Fluoranthene		6500	480	86	ug/kg	SW846 8270C
Fluorene		3030	97	19	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		844	97	31	ug/kg	SW846 8270C
2-Methylnaphthalene		3460	97	32	ug/kg	SW846 8270C
Naphthalene		12300	480	140	ug/kg	SW846 8270C
Phenanthrene		10200	480	110	ug/kg	SW846 8270C
Pyrene		5340	480	84	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		34260 J			ug/kg	
Chromium		13.1	1.4	0.63	mg/kg	SW846 6010B
Chromium, Trivalent [a]		13.1	2.9		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		245			mv	ASTM D1498-76M
J43392-11	**TB-101006**					
No hits reported in this sample.						
J43392-12	**TL15-09-01**					
Aroclor 1242		796	110	35	ug/kg	SW846 8082
Aroclor 1254		489	110	51	ug/kg	SW846 8082
Aroclor 1260		407	110	22	ug/kg	SW846 8082
J43392-13	**TL15-09-14**					
Benzene		12600	180	85	ug/kg	SW846 8260B
Methyl Acetate		295 J	880	250	ug/kg	SW846 8260B
Toluene		243	180	96	ug/kg	SW846 8260B
Total TIC, Volatile		1300 J			ug/kg	
2,4-Dimethylphenol		3280	1300	660	ug/kg	SW846 8270C
2-Methylphenol		2570	1300	250	ug/kg	SW846 8270C
3&4-Methylphenol		6530	1300	370	ug/kg	SW846 8270C
Acenaphthene		34000	26000	6600	ug/kg	SW846 8270C
Anthracene		66400	26000	5000	ug/kg	SW846 8270C
Benzo(a)anthracene		245000	26000	6200	ug/kg	SW846 8270C
Benzo(a)pyrene		226000	26000	4500	ug/kg	SW846 8270C
Benzo(b)fluoranthene		193000	26000	5900	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		127000	26000	7000	ug/kg	SW846 8270C
Benzo(k)fluoranthene		151000	26000	9700	ug/kg	SW846 8270C
1,1'-Biphenyl		3780	510	120	ug/kg	SW846 8270C
Carbazole		56900	26000	5200	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43392
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/09/06 thru 10/10/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chrysene		283000	26000	4700	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		46800	26000	6700	ug/kg	SW846 8270C
Dibenzofuran		22600	510	120	ug/kg	SW846 8270C
Fluoranthene		524000	26000	4500	ug/kg	SW846 8270C
Fluorene		29300	26000	5100	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		107000	26000	8100	ug/kg	SW846 8270C
2-Methylnaphthalene		19700	510	170	ug/kg	SW846 8270C
Naphthalene		62400	26000	7200	ug/kg	SW846 8270C
Phenanthrene		349000	26000	5600	ug/kg	SW846 8270C
Pyrene		446000	26000	4400	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		421500 J			ug/kg	

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TL17-05-11.5		
Lab Sample ID:	J43392-1	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	84.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56254.D	1	10/20/06	MMC	10/11/06 08:00	n/a	VY2274
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.2 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	570	160	ug/kg	
71-43-2	Benzene	ND	57	27	ug/kg	
75-27-4	Bromodichloromethane	ND	290	26	ug/kg	
75-25-2	Bromoform	ND	290	25	ug/kg	
74-83-9	Bromomethane	ND	290	21	ug/kg	
78-93-3	2-Butanone (MEK)	ND	570	160	ug/kg	
75-15-0	Carbon disulfide	ND	290	32	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	54	ug/kg	
108-90-7	Chlorobenzene	ND	290	25	ug/kg	
75-00-3	Chloroethane	ND	290	99	ug/kg	
67-66-3	Chloroform	ND	290	33	ug/kg	
74-87-3	Chloromethane	ND	290	26	ug/kg	
110-82-7	Cyclohexane	ND	290	73	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	570	120	ug/kg	
124-48-1	Dibromochloromethane	ND	290	31	ug/kg	
106-93-4	1,2-Dibromoethane	ND	57	32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	290	26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	28	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	290	45	ug/kg	
75-34-3	1,1-Dichloroethane	ND	290	27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	57	31	ug/kg	
75-35-4	1,1-Dichloroethene	ND	290	39	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	290	38	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	290	39	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	22	ug/kg	
100-41-4	Ethylbenzene	ND	57	26	ug/kg	
76-13-1	Freon 113	ND	290	49	ug/kg	
591-78-6	2-Hexanone	ND	290	78	ug/kg	
98-82-8	Isopropylbenzene	ND	290	27	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-11.5
Lab Sample ID: J43392-1
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 84.3

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	290	81	ug/kg	
108-87-2	Methylcyclohexane	ND	290	37	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	57	32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	290	110	ug/kg	
75-09-2	Methylene chloride	ND	290	39	ug/kg	
100-42-5	Styrene	ND	290	19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	33	ug/kg	
127-18-4	Tetrachloroethene	ND	290	47	ug/kg	
108-88-3	Toluene	ND	57	31	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	34	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	31	ug/kg	
79-01-6	Trichloroethene	ND	290	30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	290	42	ug/kg	
75-01-4	Vinyl chloride	ND	290	37	ug/kg	
	m,p-Xylene	ND	110	50	ug/kg	
95-47-6	o-Xylene	ND	57	28	ug/kg	
1330-20-7	Xylene (total)	ND	110	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	90%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	107%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-05-11.5		
Lab Sample ID:	J43392-1	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	84.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3207.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	200	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	50	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	66	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	100	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	790	60	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	790	34	ug/kg	
95-48-7	2-Methylphenol	ND	200	38	ug/kg	
	3&4-Methylphenol	ND	200	56	ug/kg	
88-75-5	2-Nitrophenol	ND	200	49	ug/kg	
100-02-7	4-Nitrophenol	ND	790	53	ug/kg	
87-86-5	Pentachlorophenol	ND	790	44	ug/kg	
108-95-2	Phenol	ND	200	49	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	59	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	33	ug/kg	
83-32-9	Acenaphthene	ND	79	20	ug/kg	
208-96-8	Acenaphthylene	ND	79	16	ug/kg	
98-86-2	Acetophenone	ND	200	25	ug/kg	
120-12-7	Anthracene	ND	79	15	ug/kg	
1912-24-9	Atrazine	ND	200	34	ug/kg	
56-55-3	Benzo(a)anthracene	ND	79	19	ug/kg	
50-32-8	Benzo(a)pyrene	ND	79	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	79	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	79	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	79	30	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	79	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	79	30	ug/kg	
92-52-4	1,1'-Biphenyl	ND	79	19	ug/kg	
100-52-7	Benzaldehyde	ND	200	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	79	55	ug/kg	
106-47-8	4-Chloroaniline	ND	200	24	ug/kg	
86-74-8	Carbazole	ND	79	16	ug/kg	
105-60-2	Caprolactam	ND	79	38	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-05-11.5		
Lab Sample ID:	J43392-1	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	84.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	79	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	79	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	79	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	79	29	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	79	18	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	79	46	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	79	45	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	37	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	79	21	ug/kg	
132-64-9	Dibenzofuran	ND	79	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	79	25	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	79	34	ug/kg	
84-66-2	Diethyl phthalate	ND	79	17	ug/kg	
131-11-3	Dimethyl phthalate	ND	79	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	79	50	ug/kg	
206-44-0	Fluoranthene	ND	79	14	ug/kg	
86-73-7	Fluorene	ND	79	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	79	23	ug/kg	
87-68-3	Hexachlorobutadiene	ND	79	26	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	790	28	ug/kg	
67-72-1	Hexachloroethane	ND	200	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	79	25	ug/kg	
78-59-1	Isophorone	ND	79	19	ug/kg	
91-57-6	2-Methylnaphthalene	ND	79	26	ug/kg	
88-74-4	2-Nitroaniline	ND	200	25	ug/kg	
99-09-2	3-Nitroaniline	ND	200	30	ug/kg	
100-01-6	4-Nitroaniline	ND	200	27	ug/kg	
91-20-3	Naphthalene	ND	79	22	ug/kg	
98-95-3	Nitrobenzene	ND	79	27	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	79	25	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	16	ug/kg	
85-01-8	Phenanthrene	ND	79	17	ug/kg	
129-00-0	Pyrene	ND	79	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		33-105%
4165-62-2	Phenol-d5	61%		34-110%
118-79-6	2,4,6-Tribromophenol	65%		33-124%
4165-60-0	Nitrobenzene-d5	70%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-05-11.5		
Lab Sample ID:	J43392-1	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	84.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	77%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.06	360	ug/kg	J
	system artifact/aldol-condensation	3.57	70000	ug/kg	J
	system artifact/aldol-condensation	3.62	31000	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-11.5
Lab Sample ID: J43392-1
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 84.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13792.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	7.3	ug/kg	
11104-28-2	Aroclor 1221	ND	39	23	ug/kg	
11141-16-5	Aroclor 1232	ND	39	21	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	13	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	7.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		37-140%
877-09-8	Tetrachloro-m-xylene	98%		37-140%
2051-24-3	Decachlorobiphenyl	88%		40-151%
2051-24-3	Decachlorobiphenyl	81%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-11.5
Lab Sample ID: J43392-1
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 84.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6860	24	5.7	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Antimony	0.90 U	2.4	0.90	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Arsenic	116	2.4	0.90	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Barium	55.7	24	0.36	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Beryllium	0.024 U	0.59	0.024	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Cadmium	1.2	0.59	0.12	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Calcium	17200	590	11	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Chromium	21.8	1.2	0.52	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Cobalt	8.0	5.9	0.21	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Copper	178	3.0	0.27	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Iron	15900	12	8.9	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Lead	193	2.4	0.38	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Magnesium	3390	590	2.1	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Manganese	144	1.8	0.071	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.058	0.039	0.013	mg/kg	1	10/20/06	10/21/06	YL	SW846 7471A [1]	SW846 7471A [4]
Nickel	14.4	4.7	0.38	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Potassium	1350	590	11	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Selenium	0.94 U	2.4	0.94	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Silver	0.39 B	1.2	0.26	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Sodium	512 B	1200	40	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Thallium	1.0 U	1.2	1.0	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Vanadium	19.6	5.9	0.27	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Zinc	451	2.4	0.34	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA18239
(2) Instrument QC Batch: MA18242
(3) Prep QC Batch: MP36412
(4) Prep QC Batch: MP36439

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL17-05-11.5		
Lab Sample ID:	J43392-1A	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 1311	**Percent Solids:**	84.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212510.D	1	10/18/06	MAH	10/16/06	GP35883	VL4563
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		77-121%
17060-07-0	1,2-Dichloroethane-D4	84%		65-133%
2037-26-5	Toluene-D8	91%		80-117%
460-00-4	4-Bromofluorobenzene	102%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-11.5
Lab Sample ID: J43392-1A
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 84.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44621.D	1	10/23/06	NAP	10/20/06	OP25191	EM1491
Run #2 [a]	M44952.D	1	11/03/06	NAP	10/27/06	OP25191	EM1502

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2	100 ml	1.0 ml

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%	41%	12-76%
4165-62-2	Phenol-d5	25%	28%	10-59%
118-79-6	2,4,6-Tribromophenol	97%	103%	42-128%
4165-60-0	Nitrobenzene-d5	73%	90%	30-122%
321-60-8	2-Fluorobiphenyl	85%	93%	34-113%
1718-51-0	Terphenyl-d14	95%	98%	42-125%

(a) confirmation run.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-11.5
Lab Sample ID: J43392-1A
Matrix: SO - Soil
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 84.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13956.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		27-140%
877-09-8	Tetrachloro-m-xylene	86%		27-140%
2051-24-3	Decachlorobiphenyl	97%		19-151%
2051-24-3	Decachlorobiphenyl	95%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-11.5
Lab Sample ID: J43392-1A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 84.3

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.066		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.0062 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.00063 B		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.0030		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0030 B		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56255.D	1	10/20/06	MMC	10/11/06 08:00	n/a	VY2274
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.8 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	580	160	ug/kg	
71-43-2	Benzene	ND	58	28	ug/kg	
75-27-4	Bromodichloromethane	ND	290	26	ug/kg	
75-25-2	Bromoform	ND	290	25	ug/kg	
74-83-9	Bromomethane	ND	290	21	ug/kg	
78-93-3	2-Butanone (MEK)	ND	580	160	ug/kg	
75-15-0	Carbon disulfide	ND	290	32	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	55	ug/kg	
108-90-7	Chlorobenzene	ND	290	25	ug/kg	
75-00-3	Chloroethane	ND	290	100	ug/kg	
67-66-3	Chloroform	ND	290	34	ug/kg	
74-87-3	Chloromethane	ND	290	27	ug/kg	
110-82-7	Cyclohexane	ND	290	74	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	580	120	ug/kg	
124-48-1	Dibromochloromethane	ND	290	32	ug/kg	
106-93-4	1,2-Dibromoethane	ND	58	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	290	26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	28	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	290	46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	290	28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	58	31	ug/kg	
75-35-4	1,1-Dichloroethene	ND	290	40	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	290	39	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	290	39	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	23	ug/kg	
100-41-4	Ethylbenzene	ND	58	26	ug/kg	
76-13-1	Freon 113	ND	290	49	ug/kg	
591-78-6	2-Hexanone	ND	290	78	ug/kg	
98-82-8	Isopropylbenzene	ND	290	27	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-05-24		
Lab Sample ID:	J43392-2	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.5
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	290	81	ug/kg	
108-87-2	Methylcyclohexane	ND	290	37	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	58	32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	290	110	ug/kg	
75-09-2	Methylene chloride	ND	290	40	ug/kg	
100-42-5	Styrene	ND	290	19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	33	ug/kg	
127-18-4	Tetrachloroethene	ND	290	47	ug/kg	
108-88-3	Toluene	ND	58	31	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	34	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	31	ug/kg	
79-01-6	Trichloroethene	ND	290	30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	290	42	ug/kg	
75-01-4	Vinyl chloride	ND	290	37	ug/kg	
	m,p-Xylene	ND	120	51	ug/kg	
95-47-6	o-Xylene	ND	58	28	ug/kg	
1330-20-7	Xylene (total)	ND	120	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	91%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	106%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3208.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	49	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	64	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	99	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	770	59	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	770	34	ug/kg	
95-48-7	2-Methylphenol	ND	190	38	ug/kg	
	3&4-Methylphenol	ND	190	55	ug/kg	
88-75-5	2-Nitrophenol	ND	190	48	ug/kg	
100-02-7	4-Nitrophenol	ND	770	52	ug/kg	
87-86-5	Pentachlorophenol	ND	770	43	ug/kg	
108-95-2	Phenol	ND	190	48	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	58	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	32	ug/kg	
83-32-9	Acenaphthene	ND	77	20	ug/kg	
208-96-8	Acenaphthylene	ND	77	16	ug/kg	
98-86-2	Acetophenone	ND	190	24	ug/kg	
120-12-7	Anthracene	ND	77	15	ug/kg	
1912-24-9	Atrazine	ND	190	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	77	19	ug/kg	
50-32-8	Benzo(a)pyrene	ND	77	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	77	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	77	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	77	29	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	77	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	77	29	ug/kg	
92-52-4	1,1'-Biphenyl	ND	77	19	ug/kg	
100-52-7	Benzaldehyde	ND	190	42	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	54	ug/kg	
106-47-8	4-Chloroaniline	ND	190	24	ug/kg	
86-74-8	Carbazole	ND	77	16	ug/kg	
105-60-2	Caprolactam	ND	77	37	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	77	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	77	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	19	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	77	29	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	18	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	77	45	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	77	44	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	37	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	77	20	ug/kg	
132-64-9	Dibenzofuran	ND	77	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	77	25	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	77	33	ug/kg	
84-66-2	Diethyl phthalate	ND	77	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	77	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	119	77	49	ug/kg	
206-44-0	Fluoranthene	ND	77	14	ug/kg	
86-73-7	Fluorene	ND	77	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	77	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	77	25	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	770	28	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	77	24	ug/kg	
78-59-1	Isophorone	ND	77	19	ug/kg	
91-57-6	2-Methylnaphthalene	ND	77	25	ug/kg	
88-74-4	2-Nitroaniline	ND	190	24	ug/kg	
99-09-2	3-Nitroaniline	ND	190	30	ug/kg	
100-01-6	4-Nitroaniline	ND	190	27	ug/kg	
91-20-3	Naphthalene	58.0	77	22	ug/kg	J
98-95-3	Nitrobenzene	ND	77	27	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	25	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	16	ug/kg	
85-01-8	Phenanthrene	ND	77	17	ug/kg	
129-00-0	Pyrene	ND	77	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		33-105%
4165-62-2	Phenol-d5	58%		34-110%
118-79-6	2,4,6-Tribromophenol	60%		33-124%
4165-60-0	Nitrobenzene-d5	66%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-05-24		
Lab Sample ID:	J43392-2	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	86.5
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	71%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.06	170	ug/kg	J
	system artifact/aldol-condensation	3.60	92000	ug/kg	J
	alkane	23.07	190	ug/kg	J
	alkane	23.54	160	ug/kg	J
	Total TIC, Semi-Volatile		350	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13821.D	1	10/19/06	JSE	10/14/06	OP25122	G2G565
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	7.3	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	21	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	13	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	7.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		37-140%
877-09-8	Tetrachloro-m-xylene	95%		37-140%
2051-24-3	Decachlorobiphenyl	84%		40-151%
2051-24-3	Decachlorobiphenyl	91%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5920	23	5.5	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Antimony	0.87 U	2.3	0.87	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Arsenic	265	2.3	0.87	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Barium	23.7	23	0.34	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Beryllium	0.12 B	0.57	0.023	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.11 U	0.57	0.11	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Calcium	678	570	10	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Chromium	13.7	1.1	0.50	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Cobalt	3.1 B	5.7	0.21	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Copper	316	2.9	0.26	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Iron	12800	11	8.6	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Lead	7.3	2.3	0.37	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Magnesium	2230	570	2.0	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Manganese	91.1	1.7	0.069	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.16	0.035	0.012	mg/kg	1	10/20/06	10/21/06	YL	SW846 7471A [1]	SW846 7471A [4]
Nickel	9.5	4.6	0.37	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Potassium	911	570	10	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Selenium	0.90 U	2.3	0.90	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Silver	0.25 U	1.1	0.25	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Sodium	173 B	1100	38	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Thallium	0.98 U	1.1	0.98	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Vanadium	15.5	5.7	0.26	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Zinc	31.0	2.3	0.33	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA18239
(2) Instrument QC Batch: MA18242
(3) Prep QC Batch: MP36412
(4) Prep QC Batch: MP36439

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2A
Matrix: SO - Soil
Method: SW846 8260B SW846 1311
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212512.D	1	10/18/06	MAH	10/16/06	GP35883	VL4563
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		77-121%
17060-07-0	1,2-Dichloroethane-D4	82%		65-133%
2037-26-5	Toluene-D8	89%		80-117%
460-00-4	4-Bromofluorobenzene	101%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2A
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44622.D	1	10/23/06	NAP	10/20/06	OP25191	EM1491
Run #2 [a]	M44953.D	1	11/03/06	NAP	10/27/06	OP25191	EM1502

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2	100 ml	1.0 ml

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%	42%	12-76%
4165-62-2	Phenol-d5	25%	29%	10-59%
118-79-6	2,4,6-Tribromophenol	94%	98%	42-128%
4165-60-0	Nitrobenzene-d5	79%	89%	30-122%
321-60-8	2-Fluorobiphenyl	90%	88%	34-113%
1718-51-0	Terphenyl-d14	103%	94%	42-125%

(a) confirmation run.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2A
Matrix: SO - Soil
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13957.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		27-140%
877-09-8	Tetrachloro-m-xylene	83%		27-140%
2051-24-3	Decachlorobiphenyl	89%		19-151%
2051-24-3	Decachlorobiphenyl	88%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-05-24
Lab Sample ID: J43392-2A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.5

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.099		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.0031 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.00060 U		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.0026 B		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0030 U		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-101006		
Lab Sample ID:	J43392-3	**Date Sampled:**	10/10/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/10/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A29891.D	1	10/19/06	HSS	n/a	n/a	V3A1251
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101006		
Lab Sample ID:	J43392-3	**Date Sampled:**	10/10/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/10/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		77-121%
17060-07-0	1,2-Dichloroethane-D4	116%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	99%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101006		
Lab Sample ID:	J43392-3	**Date Sampled:**	10/10/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55605.D	1	10/20/06	OYA	10/14/06	OP25125	ER1960
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.95	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	0.89	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.72	ug/l	
95-48-7	2-Methylphenol	ND	5.0	1.4	ug/l	
	3&4-Methylphenol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.8	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.84	ug/l	
87-86-5	Pentachlorophenol	ND	20	1.9	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.35	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.38	ug/l	
98-86-2	Acetophenone	ND	5.0	0.37	ug/l	
120-12-7	Anthracene	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.16	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.36	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.37	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.59	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.42	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.42	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.30	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.59	ug/l	
92-52-4	1,1'-Biphenyl	ND	2.0	0.33	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.40	ug/l	
86-74-8	Carbazole	ND	2.0	0.36	ug/l	
105-60-2	Caprolactam	ND	2.0	0.32	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101006
Lab Sample ID: J43392-3
Matrix: AQ - Equipment Blank
Method: SW846 8270C SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: n/a

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	2.0	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.65	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.53	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.74	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.43	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.86	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.56	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.54	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.34	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.59	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.57	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.39	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.33	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.66	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.25	ug/l	
86-73-7	Fluorene	ND	2.0	0.45	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.18	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.41	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.28	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.30	ug/l	
78-59-1	Isophorone	ND	2.0	0.59	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.41	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.66	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.72	ug/l	
91-20-3	Naphthalene	ND	2.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.52	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.36	ug/l	
129-00-0	Pyrene	ND	2.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		12-76%
4165-62-2	Phenol-d5	26%		10-59%
118-79-6	2,4,6-Tribromophenol	65%		42-128%
4165-60-0	Nitrobenzene-d5	68%		30-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101006		
Lab Sample ID:	J43392-3	**Date Sampled:**	10/10/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	67%		34-113%
1718-51-0	Terphenyl-d14	74%		42-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	5.07	18	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101006
Lab Sample ID: J43392-3
Matrix: AQ - Equipment Blank
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60643.D	1	10/19/06	JSE	10/14/06	OP25127	GAB2739
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	0.49	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	0.41	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	0.17	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	0.16	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		38-133%
877-09-8	Tetrachloro-m-xylene	94%		38-133%
2051-24-3	Decachlorobiphenyl	52%		18-156%
2051-24-3	Decachlorobiphenyl	55%		18-156%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101006
Lab Sample ID: J43392-3
Matrix: AQ - Equipment Blank
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	110 U	200	110	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Antimony	4.4 U	6.0	4.4	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Arsenic	3.1 U	8.0	3.1	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Barium	2.5 U	200	2.5	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Cadmium	0.60 U	4.0	0.60	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Calcium	62 U	5000	62	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Chromium	1.6 U	10	1.6	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Cobalt	1.7 U	50	1.7	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Copper	3.4 B	25	2.3	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Iron	67 U	100	67	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Lead	2.6 U	3.0	2.6	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Magnesium	16 U	5000	16	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Manganese	0.40 B	15	0.40	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Mercury	0.080 U	0.20	0.080	ug/l	1	10/21/06	10/23/06	YL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.6 U	40	1.6	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Potassium	65 U	5000	65	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Selenium	5.5 B	10	3.0	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Silver	1.9 U	10	1.9	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Sodium	1470 B	10000	310	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Thallium	6.7 U	10	6.7	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Vanadium	1.9 U	50	1.9	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]
Zinc	4.1 B	20	3.3	ug/l	1	10/19/06	10/23/06	WP	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA18244
(2) Instrument QC Batch: MA18248
(3) Prep QC Batch: MP36414
(4) Prep QC Batch: MP36443

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL10-3.5-3.0		
Lab Sample ID:	J43392-4	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56256.D	1	10/20/06	MMC	10/11/06 08:00	n/a	VY2274
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	690	200	ug/kg	
71-43-2	Benzene	ND	69	33	ug/kg	
75-27-4	Bromodichloromethane	ND	350	32	ug/kg	
75-25-2	Bromoform	ND	350	30	ug/kg	
74-83-9	Bromomethane	ND	350	26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	690	190	ug/kg	
75-15-0	Carbon disulfide	ND	350	38	ug/kg	
56-23-5	Carbon tetrachloride	ND	350	66	ug/kg	
108-90-7	Chlorobenzene	ND	350	30	ug/kg	
75-00-3	Chloroethane	ND	350	120	ug/kg	
67-66-3	Chloroform	ND	350	40	ug/kg	
74-87-3	Chloromethane	ND	350	32	ug/kg	
110-82-7	Cyclohexane	ND	350	88	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	690	150	ug/kg	
124-48-1	Dibromochloromethane	ND	350	38	ug/kg	
106-93-4	1,2-Dibromoethane	ND	69	39	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	350	31	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	350	34	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	350	32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	350	55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	350	33	ug/kg	
107-06-2	1,2-Dichloroethane	ND	69	38	ug/kg	
75-35-4	1,1-Dichloroethene	ND	350	47	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	350	46	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	350	47	ug/kg	
78-87-5	1,2-Dichloropropane	ND	350	38	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	350	29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	350	27	ug/kg	
100-41-4	Ethylbenzene	ND	69	31	ug/kg	
76-13-1	Freon 113	ND	350	59	ug/kg	
591-78-6	2-Hexanone	ND	350	94	ug/kg	
98-82-8	Isopropylbenzene	ND	350	32	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-3.0		
Lab Sample ID:	J43392-4	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	350	97	ug/kg	
108-87-2	Methylcyclohexane	ND	350	45	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	69	39	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	350	140	ug/kg	
75-09-2	Methylene chloride	ND	350	48	ug/kg	
100-42-5	Styrene	ND	350	23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	350	40	ug/kg	
127-18-4	Tetrachloroethene	ND	350	57	ug/kg	
108-88-3	Toluene	ND	69	37	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	350	24	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	350	41	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	350	37	ug/kg	
79-01-6	Trichloroethene	ND	350	36	ug/kg	
75-69-4	Trichlorofluoromethane	ND	350	50	ug/kg	
75-01-4	Vinyl chloride	ND	350	45	ug/kg	
	m,p-Xylene	ND	140	61	ug/kg	
95-47-6	o-Xylene	ND	69	34	ug/kg	
1330-20-7	Xylene (total)	ND	140	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	92%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	104%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-3.0		
Lab Sample ID:	J43392-4	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3212.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2	3E3246.D	5	10/23/06	OYA	10/13/06	OP25114	E3E115

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2	30.0 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	970	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	970	250	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	970	320	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	970	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3900	300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3900	170	ug/kg	
95-48-7	2-Methylphenol	ND	970	190	ug/kg	
	3&4-Methylphenol	ND	970	280	ug/kg	
88-75-5	2-Nitrophenol	ND	970	240	ug/kg	
100-02-7	4-Nitrophenol	ND	3900	260	ug/kg	
87-86-5	Pentachlorophenol	ND	3900	220	ug/kg	
108-95-2	Phenol	ND	970	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	970	290	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	970	160	ug/kg	
83-32-9	Acenaphthene	8630	390	99	ug/kg	
208-96-8	Acenaphthylene	561	390	79	ug/kg	
98-86-2	Acetophenone	ND	970	120	ug/kg	
120-12-7	Anthracene	12700	390	75	ug/kg	
1912-24-9	Atrazine	ND	970	170	ug/kg	
56-55-3	Benzo(a)anthracene	33000 [a]	1900	470	ug/kg	
50-32-8	Benzo(a)pyrene	31100 [a]	1900	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	26300 [a]	1900	440	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15100	390	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	23500 [a]	1900	730	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	390	99	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	150	ug/kg	
92-52-4	1,1'-Biphenyl	302	390	94	ug/kg	J
100-52-7	Benzaldehyde	ND	970	210	ug/kg	
91-58-7	2-Chloronaphthalene	ND	390	270	ug/kg	
106-47-8	4-Chloroaniline	ND	970	120	ug/kg	
86-74-8	Carbazole	4060	390	79	ug/kg	
105-60-2	Caprolactam	ND	390	190	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL10-3.5-3.0
Lab Sample ID: J43392-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 85.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	31900 [a]	1900	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	390	130	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	390	97	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	390	150	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	390	91	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	390	230	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	390	220	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	970	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	6320	390	100	ug/kg	
132-64-9	Dibenzofuran	2810	390	90	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	170	ug/kg	
84-66-2	Diethyl phthalate	ND	390	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	250	ug/kg	
206-44-0	Fluoranthene	69200 [a]	1900	340	ug/kg	
86-73-7	Fluorene	5690	390	78	ug/kg	
118-74-1	Hexachlorobenzene	ND	390	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	390	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3900	140	ug/kg	
67-72-1	Hexachloroethane	ND	970	97	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	14700	390	120	ug/kg	
78-59-1	Isophorone	ND	390	96	ug/kg	
91-57-6	2-Methylnaphthalene	921	390	130	ug/kg	
88-74-4	2-Nitroaniline	ND	970	120	ug/kg	
99-09-2	3-Nitroaniline	ND	970	150	ug/kg	
100-01-6	4-Nitroaniline	ND	970	130	ug/kg	
91-20-3	Naphthalene	1690	390	110	ug/kg	
98-95-3	Nitrobenzene	ND	390	140	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	390	120	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	970	80	ug/kg	
85-01-8	Phenanthrene	40800 [a]	1900	430	ug/kg	
129-00-0	Pyrene	54300 [a]	1900	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	88%	73%	33-105%
4165-62-2	Phenol-d5	86%	39%	34-110%
118-79-6	2,4,6-Tribromophenol	76%	61%	33-124%
4165-60-0	Nitrobenzene-d5	96%	70%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL10-3.5-3.0
Lab Sample ID: J43392-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 85.7

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	100%	85%	40-106%
1718-51-0	Terphenyl-d14	114%	103%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.50	47000	ug/kg	J
	system artifact/aldol-condensation	3.55	140000	ug/kg	J
	Benzene, (1-butylhexyl)-	13.06	6600	ug/kg	J
	Benzene, (1-propylheptyl)-	13.16	5200	ug/kg	J
	Benzene, (1-ethyldecyl)-	13.39	5600	ug/kg	J
	Benzene, (1-methylnonyl)-	13.81	6100	ug/kg	J
	Benzene, (1-pentylhexyl)-	14.16	7500	ug/kg	J
	Benzene, (1-butylheptyl)-	14.20	12000	ug/kg	J
	Benzene, (1-ethylnonyl)-	14.55	10000	ug/kg	J
	Benzene, (1-methyldecyl)-	14.97	13000	ug/kg	J
	Benzene, (1-pentylheptyl)-	15.25	21000	ug/kg	J
	Benzene, (1-butyloctyl)-	15.31	20000	ug/kg	J
	Benzene, (1-propylnonyl)-	15.44	17000	ug/kg	J
	Benzene, (1-ethyldecyl)-	15.67	22000	ug/kg	J
	Benzene, (1-butylnonyl)-	16.35	6200	ug/kg	J
	Anthracene, -methyl-	17.13	6600	ug/kg	J
	Anthracene, -methyl-	17.19	5900	ug/kg	J
	unknown	17.38	13000	ug/kg	J
	-Phenylnaphthalene	17.87	7000	ug/kg	J
	Phenanthrene, -dimethyl-	18.32	4800	ug/kg	J
	Phenanthrene, -dimethyl-	18.53	5400	ug/kg	J
10544	Sulfur, mol. (S8)	18.63	37000	ug/kg	JN
	unknown PAH substance	23.43	9300	ug/kg	J
	unknown PAH substance	23.67	21000	ug/kg	J
	unknown	25.18	4900	ug/kg	J
	unknown PAH substance	25.32	6700	ug/kg	J
	unknown PAH substance	26.23	5600	ug/kg	J
	Total TIC, Semi-Volatile		279400	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL10-3.5-3.0
Lab Sample ID: J43392-4
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 85.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13793.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	21	ug/kg	
11104-28-2	Aroclor 1221	ND	110	65	ug/kg	
11141-16-5	Aroclor 1232	ND	110	59	ug/kg	
53469-21-9	Aroclor 1242	ND	110	34	ug/kg	
12672-29-6	Aroclor 1248	ND	110	37	ug/kg	
11097-69-1	Aroclor 1254	409	110	51	ug/kg	
11096-82-5	Aroclor 1260	195	110	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		37-140%
877-09-8	Tetrachloro-m-xylene	73%		37-140%
2051-24-3	Decachlorobiphenyl	72%		40-151%
2051-24-3	Decachlorobiphenyl	66%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-100906		
Lab Sample ID:	J43392-5	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56257.D	1	10/20/06	MMC	10/11/06 08:00	n/a	VY2274
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.8 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	580	170	ug/kg	
71-43-2	Benzene	ND	58	28	ug/kg	
75-27-4	Bromodichloromethane	ND	290	26	ug/kg	
75-25-2	Bromoform	ND	290	25	ug/kg	
74-83-9	Bromomethane	ND	290	21	ug/kg	
78-93-3	2-Butanone (MEK)	ND	580	160	ug/kg	
75-15-0	Carbon disulfide	ND	290	32	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	55	ug/kg	
108-90-7	Chlorobenzene	ND	290	25	ug/kg	
75-00-3	Chloroethane	ND	290	100	ug/kg	
67-66-3	Chloroform	ND	290	34	ug/kg	
74-87-3	Chloromethane	ND	290	27	ug/kg	
110-82-7	Cyclohexane	ND	290	74	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	580	120	ug/kg	
124-48-1	Dibromochloromethane	ND	290	32	ug/kg	
106-93-4	1,2-Dibromoethane	ND	58	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	290	26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	28	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	290	46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	290	28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	58	31	ug/kg	
75-35-4	1,1-Dichloroethene	ND	290	40	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	290	39	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	290	40	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	23	ug/kg	
100-41-4	Ethylbenzene	ND	58	26	ug/kg	
76-13-1	Freon 113	ND	290	50	ug/kg	
591-78-6	2-Hexanone	ND	290	79	ug/kg	
98-82-8	Isopropylbenzene	ND	290	27	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-100906		
Lab Sample ID:	J43392-5	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	290	82	ug/kg	
108-87-2	Methylcyclohexane	ND	290	37	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	58	32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	290	120	ug/kg	
75-09-2	Methylene chloride	ND	290	40	ug/kg	
100-42-5	Styrene	ND	290	19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	33	ug/kg	
127-18-4	Tetrachloroethene	ND	290	48	ug/kg	
108-88-3	Toluene	ND	58	31	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	34	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	31	ug/kg	
79-01-6	Trichloroethene	ND	290	30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	290	42	ug/kg	
75-01-4	Vinyl chloride	ND	290	37	ug/kg	
	m,p-Xylene	ND	120	51	ug/kg	
95-47-6	o-Xylene	ND	58	29	ug/kg	
1330-20-7	Xylene (total)	ND	120	29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-120%
17060-07-0	1,2-Dichloroethane-D4	90%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	106%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-100906		
Lab Sample ID:	J43392-5	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	86.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3209.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	49	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	64	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	99	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	770	59	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	770	33	ug/kg	
95-48-7	2-Methylphenol	ND	190	38	ug/kg	
	3&4-Methylphenol	ND	190	55	ug/kg	
88-75-5	2-Nitrophenol	ND	190	48	ug/kg	
100-02-7	4-Nitrophenol	ND	770	52	ug/kg	
87-86-5	Pentachlorophenol	ND	770	43	ug/kg	
108-95-2	Phenol	ND	190	48	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	58	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	32	ug/kg	
83-32-9	Acenaphthene	ND	77	20	ug/kg	
208-96-8	Acenaphthylene	ND	77	16	ug/kg	
98-86-2	Acetophenone	ND	190	24	ug/kg	
120-12-7	Anthracene	ND	77	15	ug/kg	
1912-24-9	Atrazine	ND	190	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	77	19	ug/kg	
50-32-8	Benzo(a)pyrene	ND	77	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	77	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	77	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	77	29	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	77	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	77	29	ug/kg	
92-52-4	1,1'-Biphenyl	ND	77	19	ug/kg	
100-52-7	Benzaldehyde	ND	190	42	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	54	ug/kg	
106-47-8	4-Chloroaniline	ND	190	24	ug/kg	
86-74-8	Carbazole	ND	77	16	ug/kg	
105-60-2	Caprolactam	ND	77	37	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-100906
Lab Sample ID: J43392-5
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.3

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	77	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	77	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	19	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	77	29	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	18	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	77	45	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	77	44	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	37	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	77	20	ug/kg	
132-64-9	Dibenzofuran	ND	77	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	77	24	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	77	33	ug/kg	
84-66-2	Diethyl phthalate	ND	77	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	77	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	124	77	49	ug/kg	
206-44-0	Fluoranthene	ND	77	14	ug/kg	
86-73-7	Fluorene	ND	77	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	77	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	77	25	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	770	28	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	77	24	ug/kg	
78-59-1	Isophorone	ND	77	19	ug/kg	
91-57-6	2-Methylnaphthalene	ND	77	25	ug/kg	
88-74-4	2-Nitroaniline	ND	190	24	ug/kg	
99-09-2	3-Nitroaniline	ND	190	30	ug/kg	
100-01-6	4-Nitroaniline	ND	190	27	ug/kg	
91-20-3	Naphthalene	65.1	77	22	ug/kg	J
98-95-3	Nitrobenzene	ND	77	27	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	25	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	16	ug/kg	
85-01-8	Phenanthrene	ND	77	17	ug/kg	
129-00-0	Pyrene	ND	77	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		33-105%
4165-62-2	Phenol-d5	58%		34-110%
118-79-6	2,4,6-Tribromophenol	67%		33-124%
4165-60-0	Nitrobenzene-d5	69%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-100906		
Lab Sample ID:	J43392-5	**Date Sampled:**	10/09/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	86.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	73%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.06	160	ug/kg	J
	system artifact/aldol-condensation	3.56	65000	ug/kg	J
	system artifact/aldol-condensation	3.61	34000	ug/kg	J
	alkane	22.58	170	ug/kg	J
	alkane	23.07	190	ug/kg	J
	Total TIC, Semi-Volatile		360	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-100906
Lab Sample ID: J43392-5
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13822.D	1	10/19/06	JSE	10/14/06	OP25122	G2G565
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	7.3	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	21	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	13	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	7.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		37-140%
877-09-8	Tetrachloro-m-xylene	87%		37-140%
2051-24-3	Decachlorobiphenyl	78%		40-151%
2051-24-3	Decachlorobiphenyl	81%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-100906
Lab Sample ID: J43392-5
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6630	22	5.4	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Antimony	0.85 U	2.2	0.85	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Arsenic	305	2.2	0.85	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Barium	25.2	22	0.34	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Beryllium	0.15 B	0.56	0.022	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.11 U	0.56	0.11	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Calcium	670	560	10	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Chromium	14.6	1.1	0.49	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Cobalt	3.3 B	5.6	0.20	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Copper	354	2.8	0.26	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Iron	14400	11	8.5	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Lead	8.0	2.2	0.36	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Magnesium	2460	560	1.9	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Manganese	102	1.7	0.067	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.14	0.038	0.013	mg/kg	1	10/20/06	10/21/06	YL	SW846 7471A [1]	SW846 7471A [4]
Nickel	9.7	4.5	0.36	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Potassium	933	560	10	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Selenium	0.89 U	2.2	0.89	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Silver	0.25 U	1.1	0.25	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Sodium	166 B	1100	38	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Thallium	0.97 U	1.1	0.97	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Vanadium	16.1	5.6	0.26	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]
Zinc	34.9	2.2	0.33	mg/kg	1	10/19/06	10/21/06	RP	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA18239
(2) Instrument QC Batch: MA18242
(3) Prep QC Batch: MP36412
(4) Prep QC Batch: MP36439

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: DUP-100906
Lab Sample ID: J43392-5A
Matrix: SO - Soil
Method: SW846 8260B SW846 1311
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212513.D	1	10/18/06	MAH	10/16/06	GP35883	VL4563
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		77-121%
17060-07-0	1,2-Dichloroethane-D4	87%		65-133%
2037-26-5	Toluene-D8	90%		80-117%
460-00-4	4-Bromofluorobenzene	100%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-100906
Lab Sample ID: J43392-5A
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44623.D	1	10/23/06	NAP	10/20/06	OP25191	EM1491
Run #2 [a]	M44954.D	1	11/03/06	NAP	10/27/06	OP25191	EM1502

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2	100 ml	1.0 ml

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%	44%	12-76%
4165-62-2	Phenol-d5	27%	31%	10-59%
118-79-6	2,4,6-Tribromophenol	95%	99%	42-128%
4165-60-0	Nitrobenzene-d5	80%	90%	30-122%
321-60-8	2-Fluorobiphenyl	82%	93%	34-113%
1718-51-0	Terphenyl-d14	100%	99%	42-125%

(a) confirmation run.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-100906
Lab Sample ID: J43392-5A
Matrix: SO - Soil
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13958.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		27-140%
877-09-8	Tetrachloro-m-xylene	77%		27-140%
2051-24-3	Decachlorobiphenyl	78%		19-151%
2051-24-3	Decachlorobiphenyl	78%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-100906
Lab Sample ID: J43392-5A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/09/06
Date Received: 10/10/06
Percent Solids: 86.3

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.13		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.0032 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.00060 U		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.0035		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0030 U		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-101006		
Lab Sample ID:	J43392-6	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.5
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56258.D	1	10/20/06	MMC	10/11/06 08:00	n/a	VY2274
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.8 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	580	160	ug/kg	
71-43-2	Benzene	ND	58	28	ug/kg	
75-27-4	Bromodichloromethane	ND	290	26	ug/kg	
75-25-2	Bromoform	ND	290	25	ug/kg	
74-83-9	Bromomethane	ND	290	21	ug/kg	
78-93-3	2-Butanone (MEK)	ND	580	160	ug/kg	
75-15-0	Carbon disulfide	ND	290	32	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	55	ug/kg	
108-90-7	Chlorobenzene	ND	290	25	ug/kg	
75-00-3	Chloroethane	ND	290	100	ug/kg	
67-66-3	Chloroform	ND	290	34	ug/kg	
74-87-3	Chloromethane	ND	290	27	ug/kg	
110-82-7	Cyclohexane	ND	290	74	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	580	120	ug/kg	
124-48-1	Dibromochloromethane	ND	290	32	ug/kg	
106-93-4	1,2-Dibromoethane	ND	58	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	290	26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	28	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	290	46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	290	28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	58	31	ug/kg	
75-35-4	1,1-Dichloroethene	ND	290	40	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	290	39	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	290	39	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	23	ug/kg	
100-41-4	Ethylbenzene	ND	58	26	ug/kg	
76-13-1	Freon 113	ND	290	49	ug/kg	
591-78-6	2-Hexanone	ND	290	78	ug/kg	
98-82-8	Isopropylbenzene	ND	290	27	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-101006		
Lab Sample ID:	J43392-6	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.5
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	290	81	ug/kg	
108-87-2	Methylcyclohexane	ND	290	37	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	58	32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	290	110	ug/kg	
75-09-2	Methylene chloride	ND	290	40	ug/kg	
100-42-5	Styrene	ND	290	19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	33	ug/kg	
127-18-4	Tetrachloroethene	ND	290	47	ug/kg	
108-88-3	Toluene	ND	58	31	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	34	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	31	ug/kg	
79-01-6	Trichloroethene	ND	290	30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	290	42	ug/kg	
75-01-4	Vinyl chloride	ND	290	37	ug/kg	
	m,p-Xylene	ND	120	51	ug/kg	
95-47-6	o-Xylene	ND	58	28	ug/kg	
1330-20-7	Xylene (total)	ND	120	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	89%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	105%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101006
Lab Sample ID: J43392-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 86.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3213.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2	3E3245.D	5	10/23/06	OYA	10/13/06	OP25114	E3E115

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2	30.0 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	960	160	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	960	240	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	960	320	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	960	490	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3900	290	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3900	170	ug/kg	
95-48-7	2-Methylphenol	ND	960	190	ug/kg	
	3&4-Methylphenol	ND	960	280	ug/kg	
88-75-5	2-Nitrophenol	ND	960	240	ug/kg	
100-02-7	4-Nitrophenol	ND	3900	260	ug/kg	
87-86-5	Pentachlorophenol	ND	3900	220	ug/kg	
108-95-2	Phenol	ND	960	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	960	290	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	960	160	ug/kg	
83-32-9	Acenaphthene	7700	390	98	ug/kg	
208-96-8	Acenaphthylene	402	390	78	ug/kg	
98-86-2	Acetophenone	ND	960	120	ug/kg	
120-12-7	Anthracene	13500	390	75	ug/kg	
1912-24-9	Atrazine	ND	960	170	ug/kg	
56-55-3	Benzo(a)anthracene	30400 [a]	1900	470	ug/kg	
50-32-8	Benzo(a)pyrene	27700 [a]	1900	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	23900 [a]	1900	440	ug/kg	
191-24-2	Benzo(g,h,i)perylene	13100	390	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	21200 [a]	1900	730	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	390	98	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	150	ug/kg	
92-52-4	1,1'-Biphenyl	318	390	93	ug/kg	J
100-52-7	Benzaldehyde	ND	960	210	ug/kg	
91-58-7	2-Chloronaphthalene	ND	390	270	ug/kg	
106-47-8	4-Chloroaniline	ND	960	120	ug/kg	
86-74-8	Carbazole	4190	390	78	ug/kg	
105-60-2	Caprolactam	ND	390	190	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101006
Lab Sample ID: J43392-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 86.5

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	29900 [a]	1900	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	390	120	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	390	96	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	390	140	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	390	91	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	390	220	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	390	220	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	960	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	5250	390	100	ug/kg	
132-64-9	Dibenzofuran	2900	390	90	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	160	ug/kg	
84-66-2	Diethyl phthalate	ND	390	82	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	250	ug/kg	
206-44-0	Fluoranthene	69800 [a]	1900	340	ug/kg	
86-73-7	Fluorene	6230	390	77	ug/kg	
118-74-1	Hexachlorobenzene	ND	390	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	390	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3900	140	ug/kg	
67-72-1	Hexachloroethane	ND	960	96	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	12900	390	120	ug/kg	
78-59-1	Isophorone	ND	390	96	ug/kg	
91-57-6	2-Methylnaphthalene	795	390	130	ug/kg	
88-74-4	2-Nitroaniline	ND	960	120	ug/kg	
99-09-2	3-Nitroaniline	ND	960	150	ug/kg	
100-01-6	4-Nitroaniline	ND	960	130	ug/kg	
91-20-3	Naphthalene	1470	390	110	ug/kg	
98-95-3	Nitrobenzene	ND	390	130	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	390	120	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	960	79	ug/kg	
85-01-8	Phenanthrene	48300 [a]	1900	420	ug/kg	
129-00-0	Pyrene	52600 [a]	1900	330	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	91%	80%	33-105%
4165-62-2	Phenol-d5	83%	78%	34-110%
118-79-6	2,4,6-Tribromophenol	71%	56%	33-124%
4165-60-0	Nitrobenzene-d5	101%	80%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101006
Lab Sample ID: J43392-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 86.5

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	98%	91%	40-106%
1718-51-0	Terphenyl-d14	111%	108%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.50	56000	ug/kg	J
	system artifact/aldol-condensation	3.56	140000	ug/kg	J
	Benzene, (1-butylhexyl)-	13.06	6200	ug/kg	J
	Benzene, (1-propylheptyl)-	13.16	4800	ug/kg	J
	Benzene, (1-ethyloctyl)-	13.39	5100	ug/kg	J
	Benzene, (1-methylnonyl)-	13.81	5700	ug/kg	J
	Benzene, (-pentylhexyl)-	14.16	7600	ug/kg	J
	Benzene, (1-butylheptyl)-	14.20	10000	ug/kg	J
	Benzene, (1-ethylnonyl)-	14.56	9000	ug/kg	J
	Benzene, (1-methyldecyl)-	14.97	11000	ug/kg	J
	Benzene, (1-pentylheptyl)-	15.26	18000	ug/kg	J
	Benzene, (1-butyloctyl)-	15.31	17000	ug/kg	J
	Benzene, (1-propylnonyl)-	15.44	15000	ug/kg	J
	Benzene, (1-ethyldecyl)-	15.68	20000	ug/kg	J
	Benzene, (1-pentyloctyl)-	16.29	4200	ug/kg	J
	Benzene, (1-butylnonyl)-	16.36	5600	ug/kg	J
	Anthracene, -methyl-	17.13	5900	ug/kg	J
	Phenanthrene, -methyl-	17.19	5200	ug/kg	J
	unknown	17.38	10000	ug/kg	J
	Phenylnaphthalene	17.87	5600	ug/kg	J
	unknown	18.33	4300	ug/kg	J
	unknown	18.53	5100	ug/kg	J
10544	Sulfur, mol. (S8)	18.63	29000	ug/kg	JN
	unknown PAH substance	23.43	8300	ug/kg	J
	unknown PAH substance	23.67	18000	ug/kg	J
	unknown PAH substance	25.72	4000	ug/kg	J
	unknown PAH substance	26.24	5300	ug/kg	J
	Total TIC, Semi-Volatile		239900	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101006
Lab Sample ID: J43392-6
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 86.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13794.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	20	ug/kg	
11104-28-2	Aroclor 1221	ND	110	64	ug/kg	
11141-16-5	Aroclor 1232	ND	110	58	ug/kg	
53469-21-9	Aroclor 1242	ND	110	34	ug/kg	
12672-29-6	Aroclor 1248	ND	110	37	ug/kg	
11097-69-1	Aroclor 1254	664	110	51	ug/kg	
11096-82-5	Aroclor 1260	359	110	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		37-140%
877-09-8	Tetrachloro-m-xylene	81%		37-140%
2051-24-3	Decachlorobiphenyl	81%		40-151%
2051-24-3	Decachlorobiphenyl	79%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-11		
Lab Sample ID:	J43392-7	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	54.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56251.D	1	10/20/06	MMC	10/11/06 08:00	n/a	VY2274
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.3 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1800	520	ug/kg	
71-43-2	Benzene	ND	180	86	ug/kg	
75-27-4	Bromodichloromethane	ND	900	82	ug/kg	
75-25-2	Bromoform	ND	900	78	ug/kg	
74-83-9	Bromomethane	ND	900	67	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1800	490	ug/kg	
75-15-0	Carbon disulfide	ND	900	100	ug/kg	
56-23-5	Carbon tetrachloride	ND	900	170	ug/kg	
108-90-7	Chlorobenzene	ND	900	78	ug/kg	
75-00-3	Chloroethane	ND	900	310	ug/kg	
67-66-3	Chloroform	ND	900	100	ug/kg	
74-87-3	Chloromethane	ND	900	83	ug/kg	
110-82-7	Cyclohexane	ND	900	230	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1800	390	ug/kg	
124-48-1	Dibromochloromethane	ND	900	99	ug/kg	
106-93-4	1,2-Dibromoethane	ND	180	100	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	900	82	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	900	88	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	900	83	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	900	140	ug/kg	
75-34-3	1,1-Dichloroethane	ND	900	86	ug/kg	
107-06-2	1,2-Dichloroethane	ND	180	98	ug/kg	
75-35-4	1,1-Dichloroethene	ND	900	120	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	900	120	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	900	120	ug/kg	
78-87-5	1,2-Dichloropropane	ND	900	100	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	900	75	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	900	71	ug/kg	
100-41-4	Ethylbenzene	ND	180	81	ug/kg	
76-13-1	Freon 113	ND	900	150	ug/kg	
591-78-6	2-Hexanone	ND	900	250	ug/kg	
98-82-8	Isopropylbenzene	ND	900	84	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-11		
Lab Sample ID:	J43392-7	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	54.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	582	900	250	ug/kg	J
108-87-2	Methylcyclohexane	ND	900	120	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	180	100	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	900	360	ug/kg	
75-09-2	Methylene chloride	ND	900	120	ug/kg	
100-42-5	Styrene	ND	900	59	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	900	100	ug/kg	
127-18-4	Tetrachloroethene	ND	900	150	ug/kg	
108-88-3	Toluene	ND	180	98	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	900	63	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	900	110	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	900	97	ug/kg	
79-01-6	Trichloroethene	ND	900	94	ug/kg	
75-69-4	Trichlorofluoromethane	ND	900	130	ug/kg	
75-01-4	Vinyl chloride	ND	900	120	ug/kg	
	m,p-Xylene	ND	360	160	ug/kg	
95-47-6	o-Xylene	ND	180	89	ug/kg	
1330-20-7	Xylene (total)	ND	360	89	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	89%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	106%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-11		
Lab Sample ID:	J43392-7	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	54.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3211.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	310	52	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	310	78	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	310	100	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	310	160	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	93	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1200	53	ug/kg	
95-48-7	2-Methylphenol	ND	310	60	ug/kg	
	3&4-Methylphenol	ND	310	87	ug/kg	
88-75-5	2-Nitrophenol	ND	310	76	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	83	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	68	ug/kg	
108-95-2	Phenol	ND	310	76	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	310	92	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	310	51	ug/kg	
83-32-9	Acenaphthene	90.1	120	31	ug/kg	J
208-96-8	Acenaphthylene	ND	120	25	ug/kg	
98-86-2	Acetophenone	ND	310	39	ug/kg	
120-12-7	Anthracene	142	120	24	ug/kg	
1912-24-9	Atrazine	ND	310	53	ug/kg	
56-55-3	Benzo(a)anthracene	483	120	29	ug/kg	
50-32-8	Benzo(a)pyrene	519	120	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	520	120	28	ug/kg	
191-24-2	Benzo(g,h,i)perylene	344	120	33	ug/kg	
207-08-9	Benzo(k)fluoranthene	331	120	46	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	120	31	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	120	46	ug/kg	
92-52-4	1,1'-Biphenyl	ND	120	29	ug/kg	
100-52-7	Benzaldehyde	ND	310	67	ug/kg	
91-58-7	2-Chloronaphthalene	ND	120	85	ug/kg	
106-47-8	4-Chloroaniline	ND	310	38	ug/kg	
86-74-8	Carbazole	68.1	120	25	ug/kg	J
105-60-2	Caprolactam	ND	120	59	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL10-3.5-11
Lab Sample ID: J43392-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 54.6

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	632	120	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	120	39	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	120	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	120	46	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	120	29	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	120	71	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	120	70	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	310	58	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	102	120	32	ug/kg	J
132-64-9	Dibenzofuran	ND	120	28	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	120	39	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	120	52	ug/kg	
84-66-2	Diethyl phthalate	ND	120	26	ug/kg	
131-11-3	Dimethyl phthalate	ND	120	26	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	120	78	ug/kg	
206-44-0	Fluoranthene	1060	120	22	ug/kg	
86-73-7	Fluorene	55.4	120	24	ug/kg	J
118-74-1	Hexachlorobenzene	ND	120	35	ug/kg	
87-68-3	Hexachlorobutadiene	ND	120	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1200	44	ug/kg	
67-72-1	Hexachloroethane	ND	310	31	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	271	120	39	ug/kg	
78-59-1	Isophorone	ND	120	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	40	ug/kg	
88-74-4	2-Nitroaniline	ND	310	39	ug/kg	
99-09-2	3-Nitroaniline	ND	310	47	ug/kg	
100-01-6	4-Nitroaniline	ND	310	42	ug/kg	
91-20-3	Naphthalene	51.2	120	34	ug/kg	J
98-95-3	Nitrobenzene	ND	120	43	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	120	39	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	310	25	ug/kg	
85-01-8	Phenanthrene	593	120	27	ug/kg	
129-00-0	Pyrene	902	120	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		33-105%
4165-62-2	Phenol-d5	63%		34-110%
118-79-6	2,4,6-Tribromophenol	72%		33-124%
4165-60-0	Nitrobenzene-d5	71%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL10-3.5-11
Lab Sample ID: J43392-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 54.6

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	75%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.06	330	ug/kg	J
	system artifact/aldol-condensation	3.57	130000	ug/kg	J
	system artifact/aldol-condensation	3.62	52000	ug/kg	J
10544	Sulfur, mol. (S8)	18.57	3200	ug/kg	JN
	11H-Benzofluorene	19.91	400	ug/kg	J
	unknown	22.25	1000	ug/kg	J
	alkane	23.55	250	ug/kg	J
	unknown PAH substance	23.65	710	ug/kg	J
	unknown	24.27	360	ug/kg	J
	unknown	25.40	250	ug/kg	J
	unknown	25.85	370	ug/kg	J
	unknown	26.33	950	ug/kg	J
	unknown	26.39	520	ug/kg	J
	unknown	26.49	600	ug/kg	J
	unknown	26.63	970	ug/kg	J
	unknown	26.85	1100	ug/kg	J
	Total TIC, Semi-Volatile		10680	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-11		
Lab Sample ID:	J43392-7	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	54.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13787.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	59	11	ug/kg	
11104-28-2	Aroclor 1221	ND	59	36	ug/kg	
11141-16-5	Aroclor 1232	ND	59	32	ug/kg	
53469-21-9	Aroclor 1242	ND	59	19	ug/kg	
12672-29-6	Aroclor 1248	ND	59	20	ug/kg	
11097-69-1	Aroclor 1254	ND	59	28	ug/kg	
11096-82-5	Aroclor 1260	ND	59	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		37-140%
877-09-8	Tetrachloro-m-xylene	90%		37-140%
2051-24-3	Decachlorobiphenyl	89%		40-151%
2051-24-3	Decachlorobiphenyl	80%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-26		
Lab Sample ID:	J43392-8	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56252.D	1	10/20/06	MMC	10/11/06 08:00	n/a	VY2274
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.9 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1500	430	ug/kg	
71-43-2	Benzene	ND	150	73	ug/kg	
75-27-4	Bromodichloromethane	ND	760	69	ug/kg	
75-25-2	Bromoform	ND	760	66	ug/kg	
74-83-9	Bromomethane	ND	760	56	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1500	410	ug/kg	
75-15-0	Carbon disulfide	ND	760	84	ug/kg	
56-23-5	Carbon tetrachloride	ND	760	140	ug/kg	
108-90-7	Chlorobenzene	ND	760	66	ug/kg	
75-00-3	Chloroethane	ND	760	260	ug/kg	
67-66-3	Chloroform	ND	760	88	ug/kg	
74-87-3	Chloromethane	ND	760	70	ug/kg	
110-82-7	Cyclohexane	ND	760	190	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1500	330	ug/kg	
124-48-1	Dibromochloromethane	ND	760	83	ug/kg	
106-93-4	1,2-Dibromoethane	ND	150	86	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	760	69	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	760	74	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	760	70	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	760	120	ug/kg	
75-34-3	1,1-Dichloroethane	ND	760	73	ug/kg	
107-06-2	1,2-Dichloroethane	ND	150	82	ug/kg	
75-35-4	1,1-Dichloroethene	ND	760	100	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	760	100	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	760	100	ug/kg	
78-87-5	1,2-Dichloropropane	ND	760	84	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	760	63	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	760	59	ug/kg	
100-41-4	Ethylbenzene	ND	150	68	ug/kg	
76-13-1	Freon 113	ND	760	130	ug/kg	
591-78-6	2-Hexanone	ND	760	210	ug/kg	
98-82-8	Isopropylbenzene	ND	760	70	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-26		
Lab Sample ID:	J43392-8	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	760	210	ug/kg	
108-87-2	Methylcyclohexane	ND	760	98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	150	85	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	760	300	ug/kg	
75-09-2	Methylene chloride	ND	760	100	ug/kg	
100-42-5	Styrene	ND	760	50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	760	87	ug/kg	
127-18-4	Tetrachloroethene	ND	760	120	ug/kg	
108-88-3	Toluene	ND	150	82	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	760	53	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	760	90	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	760	81	ug/kg	
79-01-6	Trichloroethene	ND	760	79	ug/kg	
75-69-4	Trichlorofluoromethane	ND	760	110	ug/kg	
75-01-4	Vinyl chloride	ND	760	98	ug/kg	
	m,p-Xylene	ND	300	130	ug/kg	
95-47-6	o-Xylene	ND	150	75	ug/kg	
1330-20-7	Xylene (total)	ND	300	75	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-120%
17060-07-0	1,2-Dichloroethane-D4	89%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	108%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-26		
Lab Sample ID:	J43392-8	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3210.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	50	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	290	75	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	290	98	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	290	150	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	90	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1200	51	ug/kg	
95-48-7	2-Methylphenol	ND	290	58	ug/kg	
	3&4-Methylphenol	ND	290	84	ug/kg	
88-75-5	2-Nitrophenol	ND	290	73	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	80	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	66	ug/kg	
108-95-2	Phenol	ND	290	73	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	290	88	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	290	49	ug/kg	
83-32-9	Acenaphthene	ND	120	30	ug/kg	
208-96-8	Acenaphthylene	ND	120	24	ug/kg	
98-86-2	Acetophenone	ND	290	37	ug/kg	
120-12-7	Anthracene	42.1	120	23	ug/kg	J
1912-24-9	Atrazine	ND	290	51	ug/kg	
56-55-3	Benzo(a)anthracene	110	120	28	ug/kg	J
50-32-8	Benzo(a)pyrene	93.1	120	20	ug/kg	J
205-99-2	Benzo(b)fluoranthene	80.3	120	27	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	59.4	120	32	ug/kg	J
207-08-9	Benzo(k)fluoranthene	68.6	120	44	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	120	30	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	120	45	ug/kg	
92-52-4	1,1'-Biphenyl	ND	120	28	ug/kg	
100-52-7	Benzaldehyde	ND	290	65	ug/kg	
91-58-7	2-Chloronaphthalene	ND	120	82	ug/kg	
106-47-8	4-Chloroaniline	ND	290	37	ug/kg	
86-74-8	Carbazole	ND	120	24	ug/kg	
105-60-2	Caprolactam	ND	120	57	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-26		
Lab Sample ID:	J43392-8	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	116	120	22	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	120	38	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	120	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	120	44	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	120	28	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	120	68	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	120	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	56	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	31	ug/kg	
132-64-9	Dibenzofuran	ND	120	27	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	120	37	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	120	50	ug/kg	
84-66-2	Diethyl phthalate	ND	120	25	ug/kg	
131-11-3	Dimethyl phthalate	ND	120	25	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	120	75	ug/kg	
206-44-0	Fluoranthene	250	120	21	ug/kg	
86-73-7	Fluorene	ND	120	24	ug/kg	
118-74-1	Hexachlorobenzene	ND	120	34	ug/kg	
87-68-3	Hexachlorobutadiene	ND	120	39	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1200	42	ug/kg	
67-72-1	Hexachloroethane	ND	290	29	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	49.6	120	37	ug/kg	J
78-59-1	Isophorone	ND	120	29	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	38	ug/kg	
88-74-4	2-Nitroaniline	ND	290	37	ug/kg	
99-09-2	3-Nitroaniline	ND	290	46	ug/kg	
100-01-6	4-Nitroaniline	ND	290	41	ug/kg	
91-20-3	Naphthalene	ND	120	33	ug/kg	
98-95-3	Nitrobenzene	ND	120	41	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	120	38	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	24	ug/kg	
85-01-8	Phenanthrene	203	120	26	ug/kg	
129-00-0	Pyrene	232	120	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		33-105%
4165-62-2	Phenol-d5	54%		34-110%
118-79-6	2,4,6-Tribromophenol	64%		33-124%
4165-60-0	Nitrobenzene-d5	64%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL10-3.5-26		
Lab Sample ID:	J43392-8	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	71%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.06	240	ug/kg	J
	system artifact/aldol-condensation	3.58	120000	ug/kg	J
	system artifact/aldol-condensation	3.62	50000	ug/kg	J
	unknown acid	13.31	810	ug/kg	J
	alkane	22.58	240	ug/kg	J
	unknown	22.67	240	ug/kg	J
	alkane	23.07	270	ug/kg	J
	alkane	23.54	300	ug/kg	J
	unknown	25.36	550	ug/kg	J
	unknown	26.33	360	ug/kg	J
	unknown	26.40	260	ug/kg	J
	unknown	26.86	240	ug/kg	J
	unknown	27.08	240	ug/kg	J
	Total TIC, Semi-Volatile		3510	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL10-3.5-26
Lab Sample ID: J43392-8
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 56.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13795.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	170	32	ug/kg	
11104-28-2	Aroclor 1221	ND	170	100	ug/kg	
11141-16-5	Aroclor 1232	ND	170	92	ug/kg	
53469-21-9	Aroclor 1242	ND	170	54	ug/kg	
12672-29-6	Aroclor 1248	ND	170	59	ug/kg	
11097-69-1	Aroclor 1254	ND	170	81	ug/kg	
11096-82-5	Aroclor 1260	ND	170	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		37-140%
877-09-8	Tetrachloro-m-xylene	91%		37-140%
2051-24-3	Decachlorobiphenyl	77%		40-151%
2051-24-3	Decachlorobiphenyl	71%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL11-0.75-3.0		
Lab Sample ID:	J43392-9	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.2
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56253.D	1	10/20/06	MMC	10/11/06 08:00	n/a	VY2274
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	640	180	ug/kg	
71-43-2	Benzene	ND	64	31	ug/kg	
75-27-4	Bromodichloromethane	ND	320	29	ug/kg	
75-25-2	Bromoform	ND	320	28	ug/kg	
74-83-9	Bromomethane	ND	320	24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	640	180	ug/kg	
75-15-0	Carbon disulfide	ND	320	36	ug/kg	
56-23-5	Carbon tetrachloride	ND	320	61	ug/kg	
108-90-7	Chlorobenzene	ND	320	28	ug/kg	
75-00-3	Chloroethane	ND	320	110	ug/kg	
67-66-3	Chloroform	55.4	320	38	ug/kg	J
74-87-3	Chloromethane	ND	320	30	ug/kg	
110-82-7	Cyclohexane	ND	320	82	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	640	140	ug/kg	
124-48-1	Dibromochloromethane	ND	320	35	ug/kg	
106-93-4	1,2-Dibromoethane	ND	64	36	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	320	29	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	320	31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	320	30	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	320	51	ug/kg	
75-34-3	1,1-Dichloroethane	ND	320	31	ug/kg	
107-06-2	1,2-Dichloroethane	ND	64	35	ug/kg	
75-35-4	1,1-Dichloroethene	ND	320	44	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	320	43	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	320	44	ug/kg	
78-87-5	1,2-Dichloropropane	ND	320	36	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	320	27	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	320	25	ug/kg	
100-41-4	Ethylbenzene	ND	64	29	ug/kg	
76-13-1	Freon 113	ND	320	55	ug/kg	
591-78-6	2-Hexanone	ND	320	88	ug/kg	
98-82-8	Isopropylbenzene	ND	320	30	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL11-0.75-3.0		
Lab Sample ID:	J43392-9	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.2
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	320	91	ug/kg	
108-87-2	Methylcyclohexane	ND	320	42	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	64	36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	320	130	ug/kg	
75-09-2	Methylene chloride	ND	320	45	ug/kg	
100-42-5	Styrene	ND	320	21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	37	ug/kg	
127-18-4	Tetrachloroethene	ND	320	53	ug/kg	
108-88-3	Toluene	ND	64	35	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	320	23	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	320	38	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	320	35	ug/kg	
79-01-6	Trichloroethene	ND	320	34	ug/kg	
75-69-4	Trichlorofluoromethane	250	320	47	ug/kg	J
75-01-4	Vinyl chloride	ND	320	42	ug/kg	
	m,p-Xylene	ND	130	57	ug/kg	
95-47-6	o-Xylene	ND	64	32	ug/kg	
1330-20-7	Xylene (total)	ND	130	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-120%
17060-07-0	1,2-Dichloroethane-D4	91%		61-133%
2037-26-5	Toluene-D8	96%		75-123%
460-00-4	4-Bromofluorobenzene	107%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL11-0.75-3.0
Lab Sample ID: J43392-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 89.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3214.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2	3E3247.D	4	10/24/06	OYA	10/13/06	OP25114	E3E115

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2	30.0 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	930	160	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	930	240	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	930	310	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	930	480	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3700	280	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3700	160	ug/kg	
95-48-7	2-Methylphenol	ND	930	180	ug/kg	
	3&4-Methylphenol	ND	930	270	ug/kg	
88-75-5	2-Nitrophenol	ND	930	230	ug/kg	
100-02-7	4-Nitrophenol	ND	3700	250	ug/kg	
87-86-5	Pentachlorophenol	ND	3700	210	ug/kg	
108-95-2	Phenol	ND	930	230	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	930	280	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	930	160	ug/kg	
83-32-9	Acenaphthene	3590	370	95	ug/kg	
208-96-8	Acenaphthylene	399	370	76	ug/kg	
98-86-2	Acetophenone	ND	930	120	ug/kg	
120-12-7	Anthracene	5910	370	72	ug/kg	
1912-24-9	Atrazine	ND	930	160	ug/kg	
56-55-3	Benzo(a)anthracene	16000	370	90	ug/kg	
50-32-8	Benzo(a)pyrene	13300	370	65	ug/kg	
205-99-2	Benzo(b)fluoranthene	13500	370	85	ug/kg	
191-24-2	Benzo(g,h,i)perylene	7140	370	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	11600	370	140	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	370	95	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	140	ug/kg	
92-52-4	1,1'-Biphenyl	133	370	90	ug/kg	J
100-52-7	Benzaldehyde	ND	930	210	ug/kg	
91-58-7	2-Chloronaphthalene	ND	370	260	ug/kg	
106-47-8	4-Chloroaniline	ND	930	120	ug/kg	
86-74-8	Carbazole	3110	370	75	ug/kg	
105-60-2	Caprolactam	ND	370	180	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL11-0.75-3.0
Lab Sample ID: J43392-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 89.2

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	15100	370	69	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	370	120	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	370	93	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	370	140	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	370	88	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	370	220	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	370	210	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	930	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	3290	370	98	ug/kg	
132-64-9	Dibenzofuran	1320	370	87	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	160	ug/kg	
84-66-2	Diethyl phthalate	ND	370	80	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	80	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	240	ug/kg	
206-44-0	Fluoranthene	34100 [a]	1500	260	ug/kg	
86-73-7	Fluorene	2810	370	75	ug/kg	
118-74-1	Hexachlorobenzene	ND	370	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	370	120	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3700	130	ug/kg	
67-72-1	Hexachloroethane	ND	930	93	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	7030	370	120	ug/kg	
78-59-1	Isophorone	ND	370	93	ug/kg	
91-57-6	2-Methylnaphthalene	529	370	120	ug/kg	
88-74-4	2-Nitroaniline	ND	930	120	ug/kg	
99-09-2	3-Nitroaniline	ND	930	140	ug/kg	
100-01-6	4-Nitroaniline	ND	930	130	ug/kg	
91-20-3	Naphthalene	1030	370	110	ug/kg	
98-95-3	Nitrobenzene	ND	370	130	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	370	120	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	930	77	ug/kg	
85-01-8	Phenanthrene	20700 [a]	1500	330	ug/kg	
129-00-0	Pyrene	24300 [a]	1500	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	92%	69%	33-105%
4165-62-2	Phenol-d5	81%	55%	34-110%
118-79-6	2,4,6-Tribromophenol	83%	64%	33-124%
4165-60-0	Nitrobenzene-d5	93%	67%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL11-0.75-3.0
Lab Sample ID: J43392-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 89.2

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	102%	87%	40-106%
1718-51-0	Terphenyl-d14	131%	101%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.56	200000	ug/kg	J
132	Dibenzothiophene	15.65	1200	ug/kg	JN
	Anthracene, -methyl-	17.12	2200	ug/kg	J
	Anthracene, -methyl-	17.18	2700	ug/kg	J
	Anthracene, -methyl-	17.28	1300	ug/kg	J
	unknown	17.37	5100	ug/kg	J
	Anthracene, -methyl-	17.43	1800	ug/kg	J
	Phenylnaphthalene	17.86	3200	ug/kg	J
	unknown PAH substance	19.91	3200	ug/kg	J
	Pyrene, -methyl-	20.03	1900	ug/kg	J
	unknown	20.15	1300	ug/kg	J
84	Terphenyl	20.74	1300	ug/kg	J
	Triphenylene, -methyl-	22.24	1300	ug/kg	J
	unknown	22.31	1700	ug/kg	J
1090	5,12-Naphthacenedione	22.77	1600	ug/kg	JN
	unknown PAH substance	23.42	3600	ug/kg	J
	unknown	23.56	2900	ug/kg	J
	unknown PAH substance	23.65	7900	ug/kg	J
	unknown	23.91	4500	ug/kg	J
	unknown	24.12	1400	ug/kg	J
	unknown	24.23	1900	ug/kg	J
	unknown	24.47	1300	ug/kg	J
	unknown PAH substance	25.31	2700	ug/kg	J
	unknown PAH substance	25.71	1400	ug/kg	J
	unknown PAH substance	25.78	1700	ug/kg	J
	unknown PAH substance	26.23	2200	ug/kg	J
	Total TIC, Semi-Volatile		61300	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL11-0.75-3.0
Lab Sample ID: J43392-9
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 89.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13796.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	20	ug/kg	
11104-28-2	Aroclor 1221	ND	110	64	ug/kg	
11141-16-5	Aroclor 1232	ND	110	58	ug/kg	
53469-21-9	Aroclor 1242	ND	110	34	ug/kg	
12672-29-6	Aroclor 1248	ND	110	37	ug/kg	
11097-69-1	Aroclor 1254	233	110	50	ug/kg	
11096-82-5	Aroclor 1260	212	110	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		37-140%
877-09-8	Tetrachloro-m-xylene	94%		37-140%
2051-24-3	Decachlorobiphenyl	95%		40-151%
2051-24-3	Decachlorobiphenyl	82%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL11-0.75-15		
Lab Sample ID:	J43392-10	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	68.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56319.D	1	10/23/06	MMC	10/11/06 08:00	n/a	VY2276
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.0 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1100	320	ug/kg	
71-43-2	Benzene	ND	110	54	ug/kg	
75-27-4	Bromodichloromethane	ND	570	52	ug/kg	
75-25-2	Bromoform	ND	570	49	ug/kg	
74-83-9	Bromomethane	ND	570	42	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1100	310	ug/kg	
75-15-0	Carbon disulfide	ND	570	63	ug/kg	
56-23-5	Carbon tetrachloride	ND	570	110	ug/kg	
108-90-7	Chlorobenzene	ND	570	49	ug/kg	
75-00-3	Chloroethane	ND	570	200	ug/kg	
67-66-3	Chloroform	ND	570	66	ug/kg	
74-87-3	Chloromethane	ND	570	52	ug/kg	
110-82-7	Cyclohexane	ND	570	150	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1100	240	ug/kg	
124-48-1	Dibromochloromethane	ND	570	62	ug/kg	
106-93-4	1,2-Dibromoethane	ND	110	64	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	570	52	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	570	55	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	570	52	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	570	90	ug/kg	
75-34-3	1,1-Dichloroethane	ND	570	54	ug/kg	
107-06-2	1,2-Dichloroethane	ND	110	62	ug/kg	
75-35-4	1,1-Dichloroethene	ND	570	78	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	570	76	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	570	78	ug/kg	
78-87-5	1,2-Dichloropropane	ND	570	63	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	570	47	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	570	44	ug/kg	
100-41-4	Ethylbenzene	ND	110	51	ug/kg	
76-13-1	Freon 113	ND	570	97	ug/kg	
591-78-6	2-Hexanone	ND	570	150	ug/kg	
98-82-8	Isopropylbenzene	ND	570	53	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL11-0.75-15
Lab Sample ID: J43392-10
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 68.8

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	570	160	ug/kg	
108-87-2	Methylcyclohexane	ND	570	73	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	110	63	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	570	230	ug/kg	
75-09-2	Methylene chloride	ND	570	78	ug/kg	
100-42-5	Styrene	ND	570	37	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	570	65	ug/kg	
127-18-4	Tetrachloroethene	ND	570	93	ug/kg	
108-88-3	Toluene	ND	110	62	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	570	40	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	570	67	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	570	61	ug/kg	
79-01-6	Trichloroethene	ND	570	59	ug/kg	
75-69-4	Trichlorofluoromethane	ND	570	83	ug/kg	
75-01-4	Vinyl chloride	ND	570	73	ug/kg	
	m,p-Xylene	ND	230	100	ug/kg	
95-47-6	o-Xylene	ND	110	56	ug/kg	
1330-20-7	Xylene (total)	ND	230	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-120%
17060-07-0	1,2-Dichloroethane-D4	77%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	105%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	17.00	1200	ug/kg	JN
	Total TIC, Volatile		1200	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL11-0.75-15		
Lab Sample ID:	J43392-10	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	68.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3215.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2	3E3241.D	5	10/23/06	OYA	10/13/06	OP25114	E3E115

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2	30.0 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	240	41	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	240	62	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	240	81	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	240	120	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	970	74	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	970	42	ug/kg	
95-48-7	2-Methylphenol	ND	240	47	ug/kg	
	3&4-Methylphenol	ND	240	69	ug/kg	
88-75-5	2-Nitrophenol	ND	240	60	ug/kg	
100-02-7	4-Nitrophenol	ND	970	66	ug/kg	
87-86-5	Pentachlorophenol	ND	970	54	ug/kg	
108-95-2	Phenol	ND	240	60	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	240	73	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	240	41	ug/kg	
83-32-9	Acenaphthene	3190	97	25	ug/kg	
208-96-8	Acenaphthylene	234	97	20	ug/kg	
98-86-2	Acetophenone	ND	240	31	ug/kg	
120-12-7	Anthracene	2250	97	19	ug/kg	
1912-24-9	Atrazine	ND	240	42	ug/kg	
56-55-3	Benzo(a)anthracene	2260	97	23	ug/kg	
50-32-8	Benzo(a)pyrene	1910	97	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	1470	97	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	990	97	27	ug/kg	
207-08-9	Benzo(k)fluoranthene	1330	97	36	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	97	25	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	97	37	ug/kg	
92-52-4	1,1'-Biphenyl	403	97	23	ug/kg	
100-52-7	Benzaldehyde	ND	240	53	ug/kg	
91-58-7	2-Chloronaphthalene	ND	97	68	ug/kg	
106-47-8	4-Chloroaniline	ND	240	30	ug/kg	
86-74-8	Carbazole	238	97	20	ug/kg	
105-60-2	Caprolactam	ND	97	47	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL11-0.75-15		
Lab Sample ID:	J43392-10	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	68.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	2080	97	18	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	97	31	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	97	24	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	97	36	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	97	23	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	97	56	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	97	55	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	240	46	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	334	97	25	ug/kg	
132-64-9	Dibenzofuran	1750	97	23	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	97	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	97	41	ug/kg	
84-66-2	Diethyl phthalate	ND	97	21	ug/kg	
131-11-3	Dimethyl phthalate	ND	97	21	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	97	62	ug/kg	
206-44-0	Fluoranthene	6500 [a]	480	86	ug/kg	
86-73-7	Fluorene	3030	97	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	97	28	ug/kg	
87-68-3	Hexachlorobutadiene	ND	97	32	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	970	35	ug/kg	
67-72-1	Hexachloroethane	ND	240	24	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	844	97	31	ug/kg	
78-59-1	Isophorone	ND	97	24	ug/kg	
91-57-6	2-Methylnaphthalene	3460	97	32	ug/kg	
88-74-4	2-Nitroaniline	ND	240	31	ug/kg	
99-09-2	3-Nitroaniline	ND	240	38	ug/kg	
100-01-6	4-Nitroaniline	ND	240	33	ug/kg	
91-20-3	Naphthalene	12300 [a]	480	140	ug/kg	
98-95-3	Nitrobenzene	ND	97	34	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	97	31	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	20	ug/kg	
85-01-8	Phenanthrene	10200 [a]	480	110	ug/kg	
129-00-0	Pyrene	5340 [a]	480	84	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%	60%	33-105%
4165-62-2	Phenol-d5	60%	59%	34-110%
118-79-6	2,4,6-Tribromophenol	67%	62%	33-124%
4165-60-0	Nitrobenzene-d5	68%	63%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL11-0.75-15
Lab Sample ID: J43392-10
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 68.8

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	74%	74%	40-106%
1718-51-0	Terphenyl-d14	92%	78%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.55	77000	ug/kg	J
	system artifact/aldol-condensation	3.60	58000	ug/kg	J
496	Indane	6.24	1000	ug/kg	JN
	1H-Indene, 2,3-dihydro-methyl-	7.94	600	ug/kg	J
90	Naphthalene, 1-methyl-	10.26	5300	ug/kg	JN
	Naphthalene ethyl	11.35	710	ug/kg	J
	Naphthalene dimethyl	11.49	1600	ug/kg	J
	Naphthalene dimethyl	11.69	2000	ug/kg	J
	Naphthalene dimethyl	11.73	1100	ug/kg	J
	Naphthalene dimethyl	11.94	830	ug/kg	J
	unknown	13.95	860	ug/kg	J
	unknown	14.78	930	ug/kg	J
	9H-Fluorene, -methyl-	15.04	720	ug/kg	J
132	Dibenzothiophene	15.65	870	ug/kg	JN
	Anthracene, -methyl-	17.13	1100	ug/kg	J
	Phenanthrene, -methyl-	17.19	1200	ug/kg	J
	Anthracene, -methyl-	17.28	750	ug/kg	J
	unknown	17.37	2000	ug/kg	J
	Phenanthrene,-methyl-	17.44	820	ug/kg	J
	Phenylnaphthalene	17.87	950	ug/kg	J
	Phenanthrene, -dimethyl-	18.46	770	ug/kg	J
	Sulfur	18.52	1200	ug/kg	J
10544	Sulfur, mol. (S8)	18.59	4700	ug/kg	JN
	unknown PAH substance	19.91	1800	ug/kg	J
	unknown PAH substance	20.03	750	ug/kg	J
	Triphenylene, -methyl-	22.24	700	ug/kg	J
	unknown PAH substance	23.65	1000	ug/kg	J
	Total TIC, Semi-Volatile		34260	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL11-0.75-15		
Lab Sample ID:	J43392-10	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	68.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13797.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	130	26	ug/kg	
11104-28-2	Aroclor 1221	ND	130	81	ug/kg	
11141-16-5	Aroclor 1232	ND	130	73	ug/kg	
53469-21-9	Aroclor 1242	ND	130	43	ug/kg	
12672-29-6	Aroclor 1248	ND	130	47	ug/kg	
11097-69-1	Aroclor 1254	ND	130	64	ug/kg	
11096-82-5	Aroclor 1260	ND	130	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		37-140%
877-09-8	Tetrachloro-m-xylene	85%		37-140%
2051-24-3	Decachlorobiphenyl	80%		40-151%
2051-24-3	Decachlorobiphenyl	72%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL11-0.75-15
Lab Sample ID: J43392-10
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 68.8

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	13.1	1.4	0.63	mg/kg	1	10/19/06	10/22/06	RP	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA18242
(2) Prep QC Batch: MP36412

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL11-0.75-15
Lab Sample ID: J43392-10
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 68.8

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.32 U	1.5	0.32	mg/kg	1	10/21/06 12:42	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	13.1	2.9		mg/kg	1	10/22/06 00:01	RP	SW846 6010/7196A M
Redox Potential Vs H2	245			mv	1	10/20/06	ST	ASTM D1498-76M
Solids, Percent	68.8			%	1	10/21/06	NC	EPA 160.3 M

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TB-101006		
Lab Sample ID:	J43392-11	**Date Sampled:**	10/10/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/10/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A29892.D	1	10/19/06	HSS	n/a	n/a	V3A1251
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-101006		
Lab Sample ID:	J43392-11	**Date Sampled:**	10/10/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/10/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		77-121%
17060-07-0	1,2-Dichloroethane-D4	119%		65-133%
2037-26-5	Toluene-D8	96%		80-117%
460-00-4	4-Bromofluorobenzene	97%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL15-09-01
Lab Sample ID: J43392-12
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 90.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13798.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	21	ug/kg	
11104-28-2	Aroclor 1221	ND	110	65	ug/kg	
11141-16-5	Aroclor 1232	ND	110	59	ug/kg	
53469-21-9	Aroclor 1242	796	110	35	ug/kg	
12672-29-6	Aroclor 1248	ND	110	38	ug/kg	
11097-69-1	Aroclor 1254	489	110	51	ug/kg	
11096-82-5	Aroclor 1260	407	110	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		37-140%
877-09-8	Tetrachloro-m-xylene	69%		37-140%
2051-24-3	Decachlorobiphenyl	80%		40-151%
2051-24-3	Decachlorobiphenyl	71%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL15-09-14		
Lab Sample ID:	J43392-13	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	64.5
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56320.D	1	10/23/06	MMC	10/11/06 08:00	n/a	VY2276
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	2.6 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1800	510	ug/kg	
71-43-2	Benzene	12600	180	85	ug/kg	
75-27-4	Bromodichloromethane	ND	880	81	ug/kg	
75-25-2	Bromoform	ND	880	77	ug/kg	
74-83-9	Bromomethane	ND	880	65	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1800	480	ug/kg	
75-15-0	Carbon disulfide	ND	880	97	ug/kg	
56-23-5	Carbon tetrachloride	ND	880	170	ug/kg	
108-90-7	Chlorobenzene	ND	880	76	ug/kg	
75-00-3	Chloroethane	ND	880	310	ug/kg	
67-66-3	Chloroform	ND	880	100	ug/kg	
74-87-3	Chloromethane	ND	880	81	ug/kg	
110-82-7	Cyclohexane	ND	880	230	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1800	380	ug/kg	
124-48-1	Dibromochloromethane	ND	880	97	ug/kg	
106-93-4	1,2-Dibromoethane	ND	180	100	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	880	80	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	880	86	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	880	81	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	880	140	ug/kg	
75-34-3	1,1-Dichloroethane	ND	880	85	ug/kg	
107-06-2	1,2-Dichloroethane	ND	180	96	ug/kg	
75-35-4	1,1-Dichloroethene	ND	880	120	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	880	120	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	880	120	ug/kg	
78-87-5	1,2-Dichloropropane	ND	880	98	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	880	73	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	880	69	ug/kg	
100-41-4	Ethylbenzene	ND	180	79	ug/kg	
76-13-1	Freon 113	ND	880	150	ug/kg	
591-78-6	2-Hexanone	ND	880	240	ug/kg	
98-82-8	Isopropylbenzene	ND	880	82	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL15-09-14		
Lab Sample ID:	J43392-13	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	64.5
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	295	880	250	ug/kg	J
108-87-2	Methylcyclohexane	ND	880	110	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	180	99	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	880	350	ug/kg	
75-09-2	Methylene chloride	ND	880	120	ug/kg	
100-42-5	Styrene	ND	880	58	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	880	100	ug/kg	
127-18-4	Tetrachloroethene	ND	880	150	ug/kg	
108-88-3	Toluene	243	180	96	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	880	62	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	880	100	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	880	95	ug/kg	
79-01-6	Trichloroethene	ND	880	92	ug/kg	
75-69-4	Trichlorofluoromethane	ND	880	130	ug/kg	
75-01-4	Vinyl chloride	ND	880	110	ug/kg	
	m,p-Xylene	ND	350	150	ug/kg	
95-47-6	o-Xylene	ND	180	87	ug/kg	
1330-20-7	Xylene (total)	ND	350	87	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-120%
17060-07-0	1,2-Dichloroethane-D4	80%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	105%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	17.01	1300	ug/kg	JN
	Total TIC, Volatile		1300	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL15-09-14		
Lab Sample ID:	J43392-13	**Date Sampled:**	10/10/06
Matrix:	SO - Soil	**Date Received:**	10/10/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	64.5
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3216.D	1	10/21/06	OYA	10/13/06	OP25114	E3E114
Run #2	3E3240.D	50	10/23/06	OYA	10/13/06	OP25114	E3E115

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2	30.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1300	220	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1300	330	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1300	430	ug/kg	
105-67-9	2,4-Dimethylphenol	3280	1300	660	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5100	390	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	5100	220	ug/kg	
95-48-7	2-Methylphenol	2570	1300	250	ug/kg	
	3&4-Methylphenol	6530	1300	370	ug/kg	
88-75-5	2-Nitrophenol	ND	1300	320	ug/kg	
100-02-7	4-Nitrophenol	ND	5100	350	ug/kg	
87-86-5	Pentachlorophenol	ND	5100	290	ug/kg	
108-95-2	Phenol	ND	1300	320	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1300	390	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1300	220	ug/kg	
83-32-9	Acenaphthene	34000 [a]	26000	6600	ug/kg	
208-96-8	Acenaphthylene	ND	510	100	ug/kg	
98-86-2	Acetophenone	ND	1300	160	ug/kg	
120-12-7	Anthracene	66400 [a]	26000	5000	ug/kg	
1912-24-9	Atrazine	ND	1300	220	ug/kg	
56-55-3	Benzo(a)anthracene	245000 [a]	26000	6200	ug/kg	
50-32-8	Benzo(a)pyrene	226000 [a]	26000	4500	ug/kg	
205-99-2	Benzo(b)fluoranthene	193000 [a]	26000	5900	ug/kg	
191-24-2	Benzo(g,h,i)perylene	127000 [a]	26000	7000	ug/kg	
207-08-9	Benzo(k)fluoranthene	151000 [a]	26000	9700	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	510	130	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	510	190	ug/kg	
92-52-4	1,1'-Biphenyl	3780	510	120	ug/kg	
100-52-7	Benzaldehyde	ND	1300	280	ug/kg	
91-58-7	2-Chloronaphthalene	ND	510	360	ug/kg	
106-47-8	4-Chloroaniline	ND	1300	160	ug/kg	
86-74-8	Carbazole	56900 [a]	26000	5200	ug/kg	
105-60-2	Caprolactam	ND	510	250	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL15-09-14
Lab Sample ID: J43392-13
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 64.5

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	283000 [a]	26000	4700	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	510	170	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	510	130	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	510	190	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	510	120	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	510	300	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	510	290	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1300	240	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	46800 [a]	26000	6700	ug/kg	
132-64-9	Dibenzofuran	22600	510	120	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	510	160	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	510	220	ug/kg	
84-66-2	Diethyl phthalate	ND	510	110	ug/kg	
131-11-3	Dimethyl phthalate	ND	510	110	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	510	330	ug/kg	
206-44-0	Fluoranthene	524000 [a]	26000	4500	ug/kg	
86-73-7	Fluorene	29300 [a]	26000	5100	ug/kg	
118-74-1	Hexachlorobenzene	ND	510	150	ug/kg	
87-68-3	Hexachlorobutadiene	ND	510	170	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	5100	180	ug/kg	
67-72-1	Hexachloroethane	ND	1300	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	107000 [a]	26000	8100	ug/kg	
78-59-1	Isophorone	ND	510	130	ug/kg	
91-57-6	2-Methylnaphthalene	19700	510	170	ug/kg	
88-74-4	2-Nitroaniline	ND	1300	160	ug/kg	
99-09-2	3-Nitroaniline	ND	1300	200	ug/kg	
100-01-6	4-Nitroaniline	ND	1300	180	ug/kg	
91-20-3	Naphthalene	62400 [a]	26000	7200	ug/kg	
98-95-3	Nitrobenzene	ND	510	180	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	510	160	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1300	110	ug/kg	
85-01-8	Phenanthrene	349000 [a]	26000	5600	ug/kg	
129-00-0	Pyrene	446000 [a]	26000	4400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	92%	0% [b]	33-105%
4165-62-2	Phenol-d5	98%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	89%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	96%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL15-09-14
Lab Sample ID: J43392-13
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 64.5

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	107% c	76%	40-106%
1718-51-0	Terphenyl-d14	147% c	119%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.56	260000	ug/kg	J
90	Naphthalene, 1-methyl-	10.26	13000	ug/kg	JN
	Naphthalene dimethyl	11.49	6000	ug/kg	J
	Naphthalene dimethyl	11.68	6900	ug/kg	J
	1,1'-Biphenyl, -methyl-	13.95	8500	ug/kg	J
	1,1'-Biphenyl, -methyl-	14.03	5700	ug/kg	J
	Dibenzofuran, -methyl-	14.15	6300	ug/kg	J
	11H-Benzofluorene	19.96	9100	ug/kg	J
	unknown	23.09	16000	ug/kg	J
	unknown PAH substance	23.44	29000	ug/kg	J
	unknown	23.59	21000	ug/kg	J
	unknown PAH substance	23.70	100000	ug/kg	J
	unknown	23.94	11000	ug/kg	J
	unknown	24.00	16000	ug/kg	J
	unknown	24.09	19000	ug/kg	J
	unknown	24.29	19000	ug/kg	J
	unknown	24.38	11000	ug/kg	J
	unknown	24.50	12000	ug/kg	J
	unknown	24.61	9700	ug/kg	J
	unknown	25.16	7000	ug/kg	J
	unknown PAH substance	25.34	17000	ug/kg	J
	unknown PAH substance	25.74	19000	ug/kg	J
	unknown PAH substance	25.81	23000	ug/kg	J
	unknown	26.28	22000	ug/kg	J
	unknown	26.80	6900	ug/kg	J
	unknown	27.08	7400	ug/kg	J
	Total TIC, Semi-Volatile		421500	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to matrix interference.

Report of Analysis

Client Sample ID: TL15-09-14
Lab Sample ID: J43392-13
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/10/06
Date Received: 10/10/06
Percent Solids: 64.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13799.D	1	10/18/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	150	28	ug/kg	
11104-28-2	Aroclor 1221	ND	150	90	ug/kg	
11141-16-5	Aroclor 1232	ND	150	81	ug/kg	
53469-21-9	Aroclor 1242	ND	150	47	ug/kg	
12672-29-6	Aroclor 1248	ND	150	52	ug/kg	
11097-69-1	Aroclor 1254	ND	150	71	ug/kg	
11096-82-5	Aroclor 1260	ND	150	30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		37-140%
877-09-8	Tetrachloro-m-xylene	72%		37-140%
2051-24-3	Decachlorobiphenyl	78%		40-151%
2051-24-3	Decachlorobiphenyl	69%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SME.SLL

J43392

1 of 2

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 38999.20022
COC#: 30916-101006-SOIL -01
Lab Proj # (SDG):
Lab ID: ACTD
Site ID: Quanta
Lab Job #:
Authorized User: Honeywell
Text & Excel File Drive: Excel & Text File Order

Sampling Co.: CH2M HILL
Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To: jennifer.simms@ch2m.com

Privileged & Confidential
EDD To: amy.klopper@ch2m.com, john.mitchell@ch2m.com
Sampler: Austin Hareclerode
PO #
Analysis Turnaround Time (TAT): 10
Consultant: CH2M
Full Report TAT:

Site Name: Quanta Resources (Edgewater)
Location of Site: Edgewater, NJ
Phase:
Sampling Program: Quanta 2006 AKT

Preservative: 9 | 1 | 1 | 10 | 1 | 1 | 7

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082	Cr VI & Cr3, Total Chromium	Sampling Method (code)	Lab Sample Numbers
											Units										
1	TL-17-05	11	11.5	TL-17-05-11.5	10/9/06	1415	Soil	Soil	Reg	5	G	N	X	X	X	X		X			1
2	TL-17-05	23	25	TL-17-05-24	10/9/06	1445	Soil	Soil	Reg	5	C	N	X	X	X	X		X			2
3	Equip Blank	—	—	EB-101006	10/10/06	0830	Aqueous	DI	EB	8	G	N	X	X	X	X					3
4	TL-10-3.5	2	4	TL-10-3.5-3.0	10/10/06	0900	Soil	Soil	Reg	2	C	N	X	X		X					4
5	—	—	—	DUP-100906	10/9/06	—	Soil	Soil	DUP	5	C	N	X	X	X	X		X			5
6	—	—	—	DUP-101006	10/10/06	—	Soil	Soil	DUP	2	C	N	X	X		X					6
7	TL-10-35	10	12	TL-10-3.5-11	10/10/06	0930	Soil	Soil	Reg	6	C	N	X	X		X					7
8	TL-10-35	25	26	TL-10-3.5-26	10/10/06	1000	Soil	Soil	Reg	3	C	N	X	X		X					8
9	TL-11-0.75	2	4	TL-11-0.75-3.0	10/10/06	1045	Soil	Soil	Reg	2	C	N	X	X		X					9
10	TL-11-0.75	14	16	TL-11-0.75-15	10/10/06	1100	Soil	Soil	Reg	2	C	N	X	X		X			X		10
11	Trip blank	—	—	TB-101006	10/10/06	—	Aqueous	DI	TB	2	G	N	X								11
12	TL-15-09	0	2	TL-15-09-01	10/10/06	1400	Soil	Soil	Reg	1	C	N				X					12

Sampling Method (code): ANO CC VI; Volume rec'd; AA 3 ENC/sample; 10-10-06 JM; EXT, AMET 6, ME 7, 2012; EXT, 1960, HYDM, 4015; KB KMSV; OK TO RUN X CN FOR SAMPLE 3. RJB 10-11-06

(A) Please run MS/MSD on this Sample

SW6010^LLI

See worksheet SW6010 - analyze for Arsenic (As) and Lead (Pb)

(A) Cr6 not needed ME [illegible]

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
Jen Simms	CH2M HILL	10/10/06 16:50	Shawn Mlari	CH2M	10/10/06 19:40		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
		10/10/06 19:10			10-10-06 19:10		

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

(A) See ID corrections attached. J43392-10 needs Cr.6 per email attached

2.6, 3.0 °C

1A

J43392: Chain of Custody
Page 1 of 3

SME

J43392

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

2 of 2

Sampling Co.:	CH2M HILL	Privileged & Confidential	
Client Contact: (name, co., address)		EDD To:	amy.klopper@ch2m.com, john.mitchell@ch2m.com
Jennifer Simms		Sampler:	Austin Hareclerode
1700 Market Street, Suite 1600		PO #	
Philadelphia, PA 19103		Analysis Turnaround Time (TAT):	10
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com	Consultant	CH2M
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, [illegible]	Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com		

Site Name:	Quanta Resources (Edgewater)	Phase:	
Location of Site:	Edgewater, NJ	Sampling Program	Quanta 2006 Groundwater ACT

AESI Ref:	38999.20022
COC#	30916-101006-SOIL -02
Lab Proj # (SDG):	
Lab ID	ACTD
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

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	Sample Identification																															
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082,											Sampling Method (code)	Lab Sample Numbers
											Units																					
1	TL-15-09	13	15	TL-15-09-14	10/10/06	1430	Soil	Soil	Reg	2	C	N	X	X		X															Geoprobe 10-10-06 DM	
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Preservative: 9 | 1 | 1 | 10 | 1 | 1 | 7

SW6010^LLI

See worksheet SW6010 - analyze for Arsenic (As) and Lead (Pb)

Relinquished by	Company	CH2M HILL	Received by	Company		Condition	Custody Seals Intact
~~Jen Simms~~	Date/Time	10/10/06 1650	~~9/15/06 15:00~~	Date/Time	10/10/06 1740	Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time	10/10/06 19:10		Date/Time	10-10-06 19:10	Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

2.6, 2.0°C

J43392: Chain of Custody
Page 2 of 3

Job Change Order: J43392_10/24/2006

Requested Date:	10/24/2006	**Received Date:**	10/10/2006
Account Name:	CH2M Hill	**Due Date:**	10/24/2006
Project Description:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	21

Sample #:
J43392-1A, 2A & 5A

Change: Cancel the individual Metals (23) and enter the Standard TCLP Metals list (8)

Above Changes Per: QAPP **Date:** 10/24/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

J43392: Chain of Custody
Page 3 of 3

New Jersey
ACCUTEST
LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 ARI (SOIL) Edgewater, NJ

PO#917730

Accutest Job Number: J43515

Sampling Date: 10/11/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **133**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J43515

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J43515-1	10/11/06	08:00	AH	10/11/06	SO	Soil	TL16-06-1.0
J43515-1A	10/11/06	08:00	AH	10/11/06	SO	Soil	TL16-06-1.0
J43515-2	10/11/06	08:30	AH	10/11/06	SO	Soil	TL16-06-24
J43515-2A	10/11/06	08:30	AH	10/11/06	SO	Soil	TL16-06-24
J43515-3	10/11/06	10:00	AH	10/11/06	SO	Soil	TL16-07-1.0
J43515-3A	10/11/06	10:00	AH	10/11/06	SO	Soil	TL16-07-1.0
J43515-3AD	10/11/06	10:00	AH	10/11/06	SO	Soil Dup/MSD	TL16-07-1.0
J43515-3AS	10/11/06	10:00	AH	10/11/06	SO	Soil Matrix Spike	TL16-07-1.0
J43515-3D	10/11/06	10:00	AH	10/11/06	SO	Soil Dup/MSD	TL16-07-1.0
J43515-3R	10/11/06	10:00	AH	10/11/06	SO	Soil	TL16-07-1.0
J43515-3S	10/11/06	10:00	AH	10/11/06	SO	Soil Matrix Spike	TL16-07-1.0
J43515-4	10/11/06	10:30	AH	10/11/06	SO	Soil	TL16-07-9.0
J43515-4A	10/11/06	10:30	AH	10/11/06	SO	Soil	TL16-07-9.0

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

CH2M Hill

Job No: J43515

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J43515-4R	10/11/06	10:30	AH	10/11/06	SO	Soil	TL16-07-9.0
J43515-5	10/11/06	13:00	AH	10/11/06	SO	Soil	TL16-09-2.0
J43515-5A	10/11/06	13:00	AH	10/11/06	SO	Soil	TL16-09-2.0
J43515-6	10/11/06	00:00	AH	10/11/06	SO	Soil	DUP-101106
J43515-6A	10/11/06	00:00	AH	10/11/06	SO	Soil	DUP-101106
J43515-6R	10/11/06	00:00	AH	10/11/06	SO	Soil	DUP-101106
J43515-7	10/11/06	13:15	AH	10/11/06	SO	Soil	TL16-09-8.0
J43515-7A	10/11/06	13:15	AH	10/11/06	SO	Soil	TL16-09-8.0
J43515-8	10/11/06	14:15	AH	10/11/06	SO	Soil	TL14-09-1.0
J43515-9	10/11/06	14:30	AH	10/11/06	SO	Soil	TL14-09-5.0
J43515-9R	10/11/06	14:30	AH	10/11/06	SO	Soil	TL14-09-5.0
J43515-10	10/11/06	14:45	AH	10/11/06	SO	Soil	TL14-09-11

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J43515
Site:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Report Date**	11/14/2006 11:20:28 A

10 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 10/11/2006 and were received at Accutest on 10/11/2006 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of J43515. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix LEACHATE **Batch ID:** GP35883

- Sample(s) J43392-1ALS were used as the QC samples indicated.
- GP35883-LS8 for Vinyl chloride: Outside control limits due to matrix interference.
- GP35883-LS8 for Tetrachloroethene: Outside control limits due to matrix interference.

Matrix LEACHATE **Batch ID:** GP35915

- Sample(s) J43515-2ALS were used as the QC samples indicated.
- GP35915-LS10 for Vinyl chloride: Outside control limits due to matrix interference.
- GP35915-LS10 for Tetrachloroethene: Outside control limits due to matrix interference.

Matrix LEACHATE **Batch ID:** VL4563

- J43515-3AMS, J43515-3AMSD for Vinyl chloride: Outside control limits due to matrix interference.
- J43515-3AMS, J43515-3AMSD for Tetrachloroethene: Outside control limits due to matrix interference.

Matrix LEACHATE **Batch ID:** VL4566

- J43509-1MS for Chlorobenzene: Outside control limits due to matrix interference.

Matrix SO **Batch ID:** VD4740

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43515-3MS, J43515-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Carbon tetrachloride are outside control limits. High percent recoveries and no associated positive found in the QC batch.

Matrix SO **Batch ID:** VD4743

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43748-1MS, J43748-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Carbon tetrachloride, Trichlorofluoromethane are outside control limits. High percent recoveries and no associated positive found in the QC batch.

Extractables by GCMS By Method SW846 8270C

Matrix LEACHATE **Batch ID:** OP25191

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43367-1LS, J43515-3ALS, J43515-3AMS, J43515-3AMSD, J43917-1LS, J44133-1LS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix SO **Batch ID:** OP25132

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43515-3MS, J43515-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2-Nitroaniline, 3,3'-Dichlorobenzidine, Atrazine, Butyl benzyl phthalate, Diethyl phthalate, Hexachlorocyclopentadiene, N-Nitrosodiphenylamine are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Chloronaphthalene, 2-Chlorophenol, 2-Nitroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, Acetophenone, Atrazine, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Butyl benzyl phthalate, Di-n-octyl phthalate, Diethyl phthalate, Hexachlorocyclopentadiene, N-Nitroso-di-n-propylamine, 2-Methylphenol, 4-Bromophenyl phenyl ether, 4-Chlorophenyl phenyl ether, bis(2-Ethylhexyl)phthalate, Di-n-butyl phthalate, N-Nitrosodiphenylamine, 3&4-Methylphenol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for Phenol, 1,1'-Biphenyl, 2-Methylnaphthalene, 3&4-Methylphenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 1,1'-Biphenyl, 2-Methylnaphthalene, Benzo(a)anthracene, Benzo(k)fluoranthene, Carbazole, Dibenzofuran, Fluorene, Naphthalene are outside control limits for sample OP25132-MSD. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 1,1'-Biphenyl, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Sample(s) J43515-1, J43515-3, J43515-5, J43515-7, J43515-9, J43515-10 have surrogates outside control limits due to dilution.
- Sample(s) J43515-10, J43515-5, J43515-9 have surrogates outside control limits due to matrix interference and dilution.
- RPD(s) for MSD for 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, 4-Bromophenyl phenyl ether, 4-Chlorophenyl phenyl ether, Acenaphthylene, bis(2-Ethylhexyl)phthalate, Di-n-butyl phthalate, N-Nitrosodiphenylamine, Phenol are outside control limits for sample OP25132-MSD. Outside control limits due to matrix interference.
- Sample(s) J43515-3 have surrogates outside control limits due to matrix interference. Confirmed by MS/MSD.
- Sample(s) J43515-1, J43515-2, OP25132-MS, OP25132-MSD have surrogates outside control limits due to matrix interference.
- Sample(s) J43515-1, J43515-2 have surrogates outside of in house control limits, but within reasonable method recovery limits.

Extractables by GC By Method SW846 8082

Matrix	LEACHATE	Batch ID:	OP25172

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43515-3ALS, J43625-3AMS, J43625-3AMSD, OP25172-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Sample(s) OP25172-MS have surrogates outside control limits due to matrix interference.

Matrix	SO	Batch ID:	OP25122

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43392-7MS, J43392-7MSD, OP25122-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix	SO	Batch ID:	OP25124

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) OP25124-MSMSD, J43515-3MS, J43515-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Aroclor 1016 are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Aroclor 1016 are outside control limits for sample OP25124-MSD. Outside control limits due to matrix interference.
- Sample(s) J43515-6 have surrogates outside control limits due to matrix interference.
- J43515-6: Had TBA cleanup.
- OP25124-MS: Had TBA cleanup.
- J43515-5: Had TBA cleanup.
- J43515-4: Had TBA cleanup.

Metals By Method SW846 6010B

Matrix LEACHATE **Batch ID:** MP36353

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43515-3AMS, J43515-3AMSD, J43515-3ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Lead, Selenium are outside control limits for sample MP36353-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix SO **Batch ID:** MP36433

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43515-3MS, J43515-3MSD, J43515-3SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Lead, Magnesium, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Copper, Lead, Barium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Barium, Cadmium, Zinc are outside control limits for sample MP36433-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Sodium, Antimony, Beryllium, Selenium, Silver are outside control limits for sample MP36433-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- J43515-5 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- J43515-5 for Copper: Elevated detection limit due to dilution required for high interfering element.
- J43515-5 for Chromium: Elevated detection limit due to dilution required for high interfering element.
- J43515-5 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- J43515-5 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- J43515-5 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- RPD(s) for Serial Dilution for Arsenic are outside control limits indicating possible matrix interference.
- J43515-5 for Thallium: Elevated detection limit due to dilution required for matrix interference.
- J43515-5 for Silver: Elevated detection limit due to dilution required for high interfering element.
- J43515-5 for Aluminum: Elevated detection limit due to dilution required for high interfering element.
- J43515-5 for Lead: Elevated detection limit due to dilution required for high interfering element.
- J43515-5 for Iron: Elevated detection limit due to dilution required for high interfering element.
- J43515-6 for Thallium: Elevated detection limit due to dilution required for matrix interference.
- J43515-5 for Cadmium: Elevated detection limit due to dilution required for high interfering element.
- J43515-4 for Thallium: Elevated detection limit due to dilution required for matrix interference.
- J43515-7 for Thallium: Elevated detection limit due to dilution required for high interfering element.

Matrix SO **Batch ID:** MP36467

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3MS, J43625-3MSD, J43625-3SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Arsenic, Barium, Cadmium, Chromium, Magnesium, Manganese, Silver, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Metals By Method SW846 6010B

Matrix	SO	Batch ID:	MP36467

- Matrix Spike Duplicate Recovery(s) for Antimony, Arsenic, Barium, Cadmium, Chromium, Iron, Potassium, Silver, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Calcium, Copper, Iron, Lead are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Calcium, Copper, Magnesium are outside control limits for sample MP36467-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Beryllium, Sodium, Thallium are outside control limits for sample MP36467-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- RPD(s) for Serial Dilution for Cadmium, Zinc are outside control limits indicating possible matrix interference.

Metals By Method SW846 7470A

Matrix	LEACHATE	Batch ID:	MP36336

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43392-1AMS, J43392-1AMSD were used as the QC samples for metals.

Metals By Method SW846 7471A

Matrix	SO	Batch ID:	MP36461

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43515-3MSD, J43515-3MS were used as the QC samples for metals.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Mercury are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Mercury are outside control limits for sample MP36461-S2. High rpd due to possible sample nonhomogeneity.

Wet Chemistry By Method ASTM 4643-00

Matrix	SO	Batch ID:	GN96509

- The data for ASTM 4643-00 meets quality control requirements.

Wet Chemistry By Method ASTM D1498-76M

Matrix	SO	Batch ID:	GN96515

- Sample(s) J43280-4RDUP, J43515-3DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method EPA 160.3 M

Matrix	SO	Batch ID:	GN96518

- The data for EPA 160.3 M meets quality control requirements.

Matrix	SO	Batch ID:	GN96567

- The data for EPA 160.3 M meets quality control requirements.

Wet Chemistry By Method SW846 3060A/NJ7196A

Matrix	SO	Batch ID:	GP36004

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43515-3MS, J43515-3DUP were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Low post spike recovery (52_%) on this sample. Good ph adjusted post-spike recovery (86.0%). Good agreement between the sample and 1:5 dilution.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP36004-D1. RPD acceptable due to low duplicate and sample concentrations.
- GP36004-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Matrix	SO	Batch ID:	GP36232

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43515-3RDUP, J43515-3RMS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Low post spike recovery (69.0%) on this sample. Low pH adjusted post-spike recovery (69.2%). Good agreement between the sample and 1:5 dilution.
- GP36232-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 6010/7196A M

Matrix	SO	Batch ID:	R59629

- The data for SW846 6010/7196A M meets quality control requirements.
- J43515-3 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix	SO	Batch ID:	R59630

- The data for SW846 6010/7196A M meets quality control requirements.
- J43515-4 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix	SO	Batch ID:	R59631

- The data for SW846 6010/7196A M meets quality control requirements.
- J43515-6 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix	SO	Batch ID:	R59636

- The data for SW846 6010/7196A M meets quality control requirements.
- J43515-9 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Wet Chemistry By Method SW846 9045D

Matrix	SO	Batch ID:	GN96365

- Sample(s) J43280-4RDUP, J43515-3DUP were used as the QC samples for pH.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J43515).

Summary of Hits

Job Number: J43515
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/11/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J43515-1	**TL16-06-1.0**					
Methyl Acetate		157 J	360	100	ug/kg	SW846 8260B
2-Methylphenol		201 J	1000	200	ug/kg	SW846 8270C
3&4-Methylphenol		1150	1000	290	ug/kg	SW846 8270C
Phenol		297 J	1000	250	ug/kg	SW846 8270C
Acenaphthene		77800	4000	1000	ug/kg	SW846 8270C
Acenaphthylene		8120	400	82	ug/kg	SW846 8270C
Acetophenone		254 J	1000	130	ug/kg	SW846 8270C
Anthracene		106000	4000	780	ug/kg	SW846 8270C
Benzo(a)anthracene		210000	40000	9700	ug/kg	SW846 8270C
Benzo(a)pyrene		200000	4000	700	ug/kg	SW846 8270C
Benzo(b)fluoranthene		216000	40000	9200	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		112000	4000	1100	ug/kg	SW846 8270C
Benzo(k)fluoranthene		145000	40000	15000	ug/kg	SW846 8270C
1,1'-Biphenyl		2840	400	97	ug/kg	SW846 8270C
Carbazole		32000	4000	810	ug/kg	SW846 8270C
Chrysene		223000	40000	7400	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		48800	4000	1100	ug/kg	SW846 8270C
Dibenzofuran		36000	4000	940	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		2020	400	260	ug/kg	SW846 8270C
Fluoranthene		525000	40000	7100	ug/kg	SW846 8270C
Fluorene		59400	4000	810	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		115000	4000	1300	ug/kg	SW846 8270C
2-Methylnaphthalene		8970	400	130	ug/kg	SW846 8270C
Naphthalene		9530	400	110	ug/kg	SW846 8270C
Phenanthrene		228000	40000	8800	ug/kg	SW846 8270C
Pyrene		381000	40000	6900	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		727300 J			ug/kg	
Aluminum		6310	48	5.6	mg/kg	SW846 6010B
Antimony		6.5	2.4	0.90	mg/kg	SW846 6010B
Arsenic		83.9	2.4	0.90	mg/kg	SW846 6010B
Barium		155	24	0.36	mg/kg	SW846 6010B
Beryllium		0.29 B	0.59	0.024	mg/kg	SW846 6010B
Cadmium		1.2	0.59	0.12	mg/kg	SW846 6010B
Calcium		22300	590	11	mg/kg	SW846 6010B
Chromium		25.2	1.2	0.52	mg/kg	SW846 6010B
Cobalt		8.0	5.9	0.21	mg/kg	SW846 6010B
Copper		135	3.0	0.27	mg/kg	SW846 6010B
Iron		62700	12	8.9	mg/kg	SW846 6010B
Lead		751	2.4	0.38	mg/kg	SW846 6010B
Magnesium		3960	590	2.0	mg/kg	SW846 6010B
Manganese		306	1.8	0.071	mg/kg	SW846 6010B
Mercury		2.6	0.39	0.13	mg/kg	SW846 7471A
Nickel		37.8	4.7	0.38	mg/kg	SW846 6010B

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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Potassium		836	590	11	mg/kg	SW846 6010B
Selenium		2.6	2.4	0.94	mg/kg	SW846 6010B
Silver		2.1	1.2	0.26	mg/kg	SW846 6010B
Sodium		354 B	1200	40	mg/kg	SW846 6010B
Vanadium		82.2	5.9	0.27	mg/kg	SW846 6010B
Zinc		151	2.4	0.34	mg/kg	SW846 6010B
J43515-1A	**TL16-06-1.0**					
Arsenic		0.037	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.010 B	1.0	0.0025	mg/l	SW846 6010B
Lead		0.026	0.0030	0.0026	mg/l	SW846 6010B
J43515-2	**TL16-06-24**					
Benzene		198	61	29	ug/kg	SW846 8260B
Ethylbenzene		1210	61	27	ug/kg	SW846 8260B
Isopropylbenzene		107 J	300	28	ug/kg	SW846 8260B
Toluene		177	61	33	ug/kg	SW846 8260B
m,p-Xylene		583	120	53	ug/kg	SW846 8260B
o-Xylene		566	61	30	ug/kg	SW846 8260B
Xylene (total)		1150	120	30	ug/kg	SW846 8260B
Total TIC, Volatile		12490 J			ug/kg	
3&4-Methylphenol		282 J	980	280	ug/kg	SW846 8270C
Acenaphthene		22700	3900	1000	ug/kg	SW846 8270C
Acenaphthylene		1350	390	79	ug/kg	SW846 8270C
Anthracene		29700	3900	760	ug/kg	SW846 8270C
Benzo(a)anthracene		31800	3900	940	ug/kg	SW846 8270C
Benzo(a)pyrene		26000	3900	680	ug/kg	SW846 8270C
Benzo(b)fluoranthene		20200	3900	890	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		12600	390	110	ug/kg	SW846 8270C
Benzo(k)fluoranthene		18400	3900	1500	ug/kg	SW846 8270C
1,1'-Biphenyl		1880	390	94	ug/kg	SW846 8270C
Carbazole		15500	390	79	ug/kg	SW846 8270C
Chrysene		30600	3900	720	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		5380	390	100	ug/kg	SW846 8270C
Dibenzofuran		18100	390	91	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		481	390	250	ug/kg	SW846 8270C
Fluoranthene		87400	3900	690	ug/kg	SW846 8270C
Fluorene		22100	3900	780	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		12900	390	120	ug/kg	SW846 8270C
2-Methylnaphthalene		7400	390	130	ug/kg	SW846 8270C
Naphthalene		25400	3900	1100	ug/kg	SW846 8270C
Phenanthrene		111000	3900	860	ug/kg	SW846 8270C
Pyrene		70400	3900	670	ug/kg	SW846 8270C

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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Total TIC, Semi-Volatile		131000 J			ug/kg	
Aluminum		7090	48	5.7	mg/kg	SW846 6010B
Arsenic		169	2.4	0.91	mg/kg	SW846 6010B
Barium		30.2	24	0.36	mg/kg	SW846 6010B
Beryllium		0.29 B	0.60	0.024	mg/kg	SW846 6010B
Cadmium		0.75	0.60	0.12	mg/kg	SW846 6010B
Calcium		974	600	11	mg/kg	SW846 6010B
Chromium		14.5	1.2	0.53	mg/kg	SW846 6010B
Cobalt		4.0 B	6.0	0.22	mg/kg	SW846 6010B
Copper		137	3.0	0.28	mg/kg	SW846 6010B
Iron		10500	12	9.0	mg/kg	SW846 6010B
Lead		13.3	2.4	0.38	mg/kg	SW846 6010B
Magnesium		2290	600	2.1	mg/kg	SW846 6010B
Manganese		75.6	1.8	0.072	mg/kg	SW846 6010B
Mercury		0.019 B	0.038	0.012	mg/kg	SW846 7471A
Nickel		10.3	4.8	0.38	mg/kg	SW846 6010B
Potassium		980	600	11	mg/kg	SW846 6010B
Sodium		258 B	1200	40	mg/kg	SW846 6010B
Thallium		1.1 B	1.2	1.0	mg/kg	SW846 6010B
Vanadium		13.3	6.0	0.28	mg/kg	SW846 6010B
Zinc		110	2.4	0.35	mg/kg	SW846 6010B
J43515-2A	**TL16-06-24**					
Benzene		0.0017	0.0010	0.00021	mg/l	SW846 8260B
Chloroform		0.00053 J	0.0010	0.00022	mg/l	SW846 8260B
Arsenic		0.073	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.0027 B	1.0	0.0025	mg/l	SW846 6010B
Cadmium		0.00070 B	0.0040	0.00060	mg/l	SW846 6010B
J43515-3	**TL16-07-1.0**					
Xylene (total)		131 J	270	68	ug/kg	SW846 8260B
Total TIC, Volatile		15800 J			ug/kg	
2,4-Dimethylphenol		2840	980	500	ug/kg	SW846 8270C
2-Methylphenol		3490	980	190	ug/kg	SW846 8270C
3&4-Methylphenol		8840	980	280	ug/kg	SW846 8270C
Phenol		5620	980	240	ug/kg	SW846 8270C
Acenaphthene		208000	20000	5000	ug/kg	SW846 8270C
Acenaphthylene		16800	390	79	ug/kg	SW846 8270C
Acetophenone		275 J	980	120	ug/kg	SW846 8270C
Anthracene		309000	20000	3800	ug/kg	SW846 8270C
Benzo(a)anthracene		942000	20000	4700	ug/kg	SW846 8270C
Benzo(a)pyrene		941000	20000	3400	ug/kg	SW846 8270C
Benzo(b)fluoranthene		967000	20000	4500	ug/kg	SW846 8270C

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Benzo(g,h,i)perylene	553000	20000	5400	ug/kg	SW846 8270C
Benzo(k)fluoranthene	632000	20000	7400	ug/kg	SW846 8270C
1,1'-Biphenyl	16500	390	94	ug/kg	SW846 8270C
Carbazole	257000	20000	4000	ug/kg	SW846 8270C
Chrysene	965000	78000	14000	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	200000	20000	5100	ug/kg	SW846 8270C
Dibenzofuran	109000	20000	4500	ug/kg	SW846 8270C
Fluoranthene	2170000	78000	14000	ug/kg	SW846 8270C
Fluorene	204000	20000	3900	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	540000	20000	6200	ug/kg	SW846 8270C
2-Methylnaphthalene	59900	20000	6400	ug/kg	SW846 8270C
Naphthalene	279000	20000	5500	ug/kg	SW846 8270C
Phenanthrene	1390000	78000	17000	ug/kg	SW846 8270C
Pyrene	1490000	78000	14000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile	69400 J			ug/kg	
Aluminum	6530	45	5.4	mg/kg	SW846 6010B
Antimony	1.2 B	2.2	0.85	mg/kg	SW846 6010B
Arsenic	67.4	2.2	0.85	mg/kg	SW846 6010B
Barium	76.7	22	0.34	mg/kg	SW846 6010B
Beryllium	0.25 B	0.56	0.022	mg/kg	SW846 6010B
Cadmium	2.0	0.56	0.11	mg/kg	SW846 6010B
Calcium	18000	560	10	mg/kg	SW846 6010B
Chromium	24.6	1.1	0.49	mg/kg	SW846 6010B
Cobalt	6.3	5.6	0.20	mg/kg	SW846 6010B
Copper	124	2.8	0.26	mg/kg	SW846 6010B
Iron	21200	11	8.4	mg/kg	SW846 6010B
Lead	234	2.2	0.36	mg/kg	SW846 6010B
Magnesium	4190	560	1.9	mg/kg	SW846 6010B
Manganese	207	1.7	0.067	mg/kg	SW846 6010B
Mercury	10.9	1.9	0.62	mg/kg	SW846 7471A
Nickel	28.3	4.5	0.36	mg/kg	SW846 6010B
Potassium	531 B	560	10	mg/kg	SW846 6010B
Selenium	1.6 B	2.2	0.89	mg/kg	SW846 6010B
Silver	0.55 B	1.1	0.25	mg/kg	SW846 6010B
Sodium	268 B	1100	38	mg/kg	SW846 6010B
Vanadium	69.9	5.6	0.26	mg/kg	SW846 6010B
Zinc	185	2.2	0.33	mg/kg	SW846 6010B
Chromium, Hexavalent	0.29 B	1.2	0.26	mg/kg	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	24.6	2.3		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2	234			mv	ASTM D1498-76M
pH	8.02			su	SW846 9045D
J43515-3A TL16-07-1.0					
Benzene	0.0025	0.0010	0.00021	mg/l	SW846 8260B

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Arsenic		0.041	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.016 B	1.0	0.0025	mg/l	SW846 6010B
Lead		0.0064	0.0030	0.0026	mg/l	SW846 6010B
Selenium		0.0038 B	0.050	0.0030	mg/l	SW846 6010B
J43515-3R	**TL16-07-1.0**					
No hits reported in this sample.						
J43515-4	**TL16-07-9.0**					
Benzene		76.6 J	120	57	ug/kg	SW846 8260B
Ethylbenzene		504	120	53	ug/kg	SW846 8260B
Isopropylbenzene		239 J	590	55	ug/kg	SW846 8260B
Methyl Acetate		209 J	590	170	ug/kg	SW846 8260B
Toluene		100 J	120	64	ug/kg	SW846 8260B
m,p-Xylene		226 J	240	100	ug/kg	SW846 8260B
o-Xylene		319	120	58	ug/kg	SW846 8260B
Xylene (total)		544	240	58	ug/kg	SW846 8260B
Total TIC, Volatile		13410 J			ug/kg	
Acenaphthene		39600	9800	2500	ug/kg	SW846 8270C
Acenaphthylene		8280	490	99	ug/kg	SW846 8270C
Acetophenone		245 J	1200	150	ug/kg	SW846 8270C
Anthracene		75100	9800	1900	ug/kg	SW846 8270C
Benzo(a)anthracene		78900	9800	2400	ug/kg	SW846 8270C
Benzo(a)pyrene		59600	9800	1700	ug/kg	SW846 8270C
Benzo(b)fluoranthene		45700	9800	2200	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		23400	490	130	ug/kg	SW846 8270C
Benzo(k)fluoranthene		41400	9800	3700	ug/kg	SW846 8270C
1,1'-Biphenyl		8810	490	120	ug/kg	SW846 8270C
Carbazole		12100	490	99	ug/kg	SW846 8270C
Chrysene		73400	9800	1800	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		10800	490	130	ug/kg	SW846 8270C
Dibenzofuran		28500	9800	2300	ug/kg	SW846 8270C
Fluoranthene		196000	9800	1700	ug/kg	SW846 8270C
Fluorene		50900	9800	2000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		24100	490	160	ug/kg	SW846 8270C
2-Methylnaphthalene		7080	490	160	ug/kg	SW846 8270C
Naphthalene		23700	490	140	ug/kg	SW846 8270C
Phenanthrene		238000	9800	2200	ug/kg	SW846 8270C
Pyrene		169000	9800	1700	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		301100 J			ug/kg	
Aluminum		2780	59	7.0	mg/kg	SW846 6010B
Antimony		8.5	3.0	1.1	mg/kg	SW846 6010B
Arsenic		1150	3.0	1.1	mg/kg	SW846 6010B

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Barium		245	30	0.44	mg/kg	SW846 6010B
Beryllium		0.054 B	0.74	0.030	mg/kg	SW846 6010B
Cadmium		0.37 B	0.74	0.15	mg/kg	SW846 6010B
Calcium		21300	740	13	mg/kg	SW846 6010B
Chromium		8.4	1.5	0.65	mg/kg	SW846 6010B
Cobalt		4.4 B	7.4	0.27	mg/kg	SW846 6010B
Copper		882	3.7	0.34	mg/kg	SW846 6010B
Iron		46600	15	11	mg/kg	SW846 6010B
Lead		813	3.0	0.47	mg/kg	SW846 6010B
Magnesium		8960	740	2.6	mg/kg	SW846 6010B
Manganese		105	2.2	0.089	mg/kg	SW846 6010B
Mercury		1.9	0.094	0.031	mg/kg	SW846 7471A
Nickel		19.5	5.9	0.47	mg/kg	SW846 6010B
Potassium		2580	740	13	mg/kg	SW846 6010B
Selenium		6.3	3.0	1.2	mg/kg	SW846 6010B
Silver		2.1	1.5	0.32	mg/kg	SW846 6010B
Sodium		912 B	1500	50	mg/kg	SW846 6010B
Vanadium		14.2	7.4	0.34	mg/kg	SW846 6010B
Zinc		200	3.0	0.43	mg/kg	SW846 6010B
Chromium, Hexavalent		1.4 B	1.5	0.32	mg/kg	SW846 3060A/NJ7196A
Chromium, Trivalent [a]		8.4	3.0		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		267			mv	ASTM D1498-76M
pH		8.14			su	SW846 9045D
J43515-4A	**TL16-07-9.0**					
Benzene		0.00096 J	0.0010	0.00021	mg/l	SW846 8260B
Arsenic		0.072	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.0083 B	1.0	0.0025	mg/l	SW846 6010B
Lead		0.0029 B	0.0030	0.0026	mg/l	SW846 6010B
J43515-4R	**TL16-07-9.0**					
No hits reported in this sample.						
J43515-5	**TL16-09-2.0**					
Benzene		323	69	33	ug/kg	SW846 8260B
Ethylbenzene		220	69	31	ug/kg	SW846 8260B
Isopropylbenzene		935	350	32	ug/kg	SW846 8260B
Methyl Acetate		242 J	350	98	ug/kg	SW846 8260B
Toluene		483	69	38	ug/kg	SW846 8260B
m,p-Xylene		747	140	61	ug/kg	SW846 8260B
o-Xylene		319	69	34	ug/kg	SW846 8260B
Xylene (total)		1070	140	34	ug/kg	SW846 8260B

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Total TIC, Volatile	42390 J			ug/kg	
2,4-Dimethylphenol	1130	1000	530	ug/kg	SW846 8270C
2-Methylphenol	591 J	1000	200	ug/kg	SW846 8270C
3&4-Methylphenol	755 J	1000	300	ug/kg	SW846 8270C
Acenaphthene	117000	21000	5300	ug/kg	SW846 8270C
Acenaphthylene	6590	420	85	ug/kg	SW846 8270C
Acetophenone	452 J	1000	130	ug/kg	SW846 8270C
Anthracene	57300	21000	4000	ug/kg	SW846 8270C
Benzo(a)anthracene	35500	21000	5000	ug/kg	SW846 8270C
Benzo(a)pyrene	19900 J	21000	3600	ug/kg	SW846 8270C
Benzo(b)fluoranthene	20600 J	21000	4800	ug/kg	SW846 8270C
Benzo(g,h,i)perylene	10900	420	110	ug/kg	SW846 8270C
Benzo(k)fluoranthene	12000 J	21000	7900	ug/kg	SW846 8270C
1,1'-Biphenyl	27700	21000	5000	ug/kg	SW846 8270C
Carbazole	23600	21000	4200	ug/kg	SW846 8270C
Chrysene	31600	21000	3900	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	4230	420	110	ug/kg	SW846 8270C
Dibenzofuran	97900	21000	4900	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate	455	420	270	ug/kg	SW846 8270C
Fluoranthene	164000	21000	3700	ug/kg	SW846 8270C
Fluorene	116000	21000	4200	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	11200	420	130	ug/kg	SW846 8270C
2-Methylnaphthalene	133000	21000	6800	ug/kg	SW846 8270C
Naphthalene	208000	21000	5900	ug/kg	SW846 8270C
Phenanthrene	311000	21000	4600	ug/kg	SW846 8270C
Pyrene	110000	21000	3600	ug/kg	SW846 8270C
Total TIC, Semi-Volatile	304400 J			ug/kg	
Aluminum [b]	570	73	18	mg/kg	SW846 6010B
Antimony [b]	174	7.3	2.8	mg/kg	SW846 6010B
Arsenic [b]	1940	7.3	2.8	mg/kg	SW846 6010B
Barium	293	24	0.37	mg/kg	SW846 6010B
Cadmium [b]	10.1	1.8	0.37	mg/kg	SW846 6010B
Calcium	14800	610	11	mg/kg	SW846 6010B
Cobalt	42.6	6.1	0.22	mg/kg	SW846 6010B
Copper [b]	6170	9.2	0.84	mg/kg	SW846 6010B
Iron [b]	257000	37	28	mg/kg	SW846 6010B
Lead [b]	7730	7.3	1.2	mg/kg	SW846 6010B
Magnesium	45.7 B	610	2.1	mg/kg	SW846 6010B
Manganese	54.3	1.8	0.073	mg/kg	SW846 6010B
Mercury	5.6	0.81	0.27	mg/kg	SW846 7471A
Nickel	7.7	4.9	0.39	mg/kg	SW846 6010B
Potassium	538 B	610	11	mg/kg	SW846 6010B
Selenium [b]	13.5	7.3	2.9	mg/kg	SW846 6010B
Silver [b]	24.3	3.7	0.81	mg/kg	SW846 6010B
Vanadium	10.6	6.1	0.28	mg/kg	SW846 6010B

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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		3820	2.4	0.36	mg/kg	SW846 6010B
J43515-5A	**TL16-09-2.0**					
Benzene		0.0026	0.0010	0.00021	mg/l	SW846 8260B
Arsenic		0.52	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.015 B	1.0	0.0025	mg/l	SW846 6010B
Cadmium		0.0083	0.0040	0.00060	mg/l	SW846 6010B
Lead		3.1	0.0030	0.0026	mg/l	SW846 6010B
Selenium		0.0061 B	0.050	0.0030	mg/l	SW846 6010B
J43515-6	**DUP-101106**					
Acenaphthene		27600	4900	1200	ug/kg	SW846 8270C
Acenaphthylene		4460	490	99	ug/kg	SW846 8270C
Anthracene		53800	4900	940	ug/kg	SW846 8270C
Benzo(a)anthracene		63000	4900	1200	ug/kg	SW846 8270C
Benzo(a)pyrene		49500	4900	850	ug/kg	SW846 8270C
Benzo(b)fluoranthene		39700	4900	1100	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		19000	490	130	ug/kg	SW846 8270C
Benzo(k)fluoranthene		33400	4900	1800	ug/kg	SW846 8270C
1,1'-Biphenyl		3820	490	120	ug/kg	SW846 8270C
Carbazole		9400	490	99	ug/kg	SW846 8270C
Chrysene		60100	4900	900	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		8360	490	130	ug/kg	SW846 8270C
Dibenzofuran		19500	490	110	ug/kg	SW846 8270C
Fluoranthene		160000	4900	860	ug/kg	SW846 8270C
Fluorene		33000	4900	980	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		19700	490	150	ug/kg	SW846 8270C
2-Methylnaphthalene		4040	490	160	ug/kg	SW846 8270C
Naphthalene		10300	490	140	ug/kg	SW846 8270C
Phenanthrene		162000	4900	1100	ug/kg	SW846 8270C
Pyrene		132000	4900	840	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		345100 J			ug/kg	
Aluminum		1500	57	6.8	mg/kg	SW846 6010B
Antimony		7.5	2.9	1.1	mg/kg	SW846 6010B
Arsenic		1110	2.9	1.1	mg/kg	SW846 6010B
Barium		284	29	0.43	mg/kg	SW846 6010B
Cadmium		0.19 B	0.71	0.14	mg/kg	SW846 6010B
Calcium		3170	710	13	mg/kg	SW846 6010B
Chromium		6.3	1.4	0.63	mg/kg	SW846 6010B
Cobalt		3.9 B	7.1	0.26	mg/kg	SW846 6010B
Copper		1060	3.6	0.33	mg/kg	SW846 6010B
Iron		47000	14	11	mg/kg	SW846 6010B
Lead		713	2.9	0.46	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43515
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/11/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Magnesium		504 B	710	2.5	mg/kg	SW846 6010B
Manganese		45.2	2.1	0.086	mg/kg	SW846 6010B
Mercury		1.7	0.086	0.028	mg/kg	SW846 7471A
Nickel		18.9	5.7	0.46	mg/kg	SW846 6010B
Potassium		2600	710	13	mg/kg	SW846 6010B
Selenium		5.0	2.9	1.1	mg/kg	SW846 6010B
Silver		2.4	1.4	0.31	mg/kg	SW846 6010B
Sodium		951 B	1400	48	mg/kg	SW846 6010B
Vanadium		11.2	7.1	0.33	mg/kg	SW846 6010B
Zinc		142	2.9	0.41	mg/kg	SW846 6010B
Chromium, Hexavalent		4.0	1.5	0.32	mg/kg	SW846 3060A/NJ7196A
Chromium, Trivalent [a]		2.3 B	2.9		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		237			mv	ASTM D1498-76M
pH		7.94			su	SW846 9045D
J43515-6A	**DUP-101106**					
Arsenic		0.13	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.0050 B	1.0	0.0025	mg/l	SW846 6010B
Lead		0.0048	0.0030	0.0026	mg/l	SW846 6010B
J43515-6R	**DUP-101106**					
No hits reported in this sample.						
J43515-7	**TL16-09-8.0**					
Benzene		25100	450	220	ug/kg	SW846 8260B
Ethylbenzene		24800	450	200	ug/kg	SW846 8260B
Isopropylbenzene		2050 J	2300	210	ug/kg	SW846 8260B
Styrene		41900	2300	150	ug/kg	SW846 8260B
Toluene		67000	450	250	ug/kg	SW846 8260B
m,p-Xylene		91800	910	400	ug/kg	SW846 8260B
o-Xylene		42700	450	220	ug/kg	SW846 8260B
Xylene (total)		134000	910	220	ug/kg	SW846 8260B
Total TIC, Volatile		1013000 J			ug/kg	
2,4-Dimethylphenol		2250	1100	570	ug/kg	SW846 8270C
2-Methylphenol		642 J	1100	220	ug/kg	SW846 8270C
3&4-Methylphenol		1420	1100	320	ug/kg	SW846 8270C
Acenaphthene		94000	4400	1100	ug/kg	SW846 8270C
Acenaphthene		90900	22000	5600	ug/kg	SW846 8270C
Acenaphthylene		100000	22000	4500	ug/kg	SW846 8270C
Acenaphthylene		110000	4400	900	ug/kg	SW846 8270C
Acetophenone		2110	1100	140	ug/kg	SW846 8270C
Anthracene		133000	4400	860	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43515
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/11/06

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Anthracene	123000	22000	4300	ug/kg	SW846 8270C
Benzo(a)anthracene	77500	4400	1100	ug/kg	SW846 8270C
Benzo(a)anthracene	72600	22000	5300	ug/kg	SW846 8270C
Benzo(a)pyrene	51300	4400	770	ug/kg	SW846 8270C
Benzo(a)pyrene	47800	22000	3800	ug/kg	SW846 8270C
Benzo(b)fluoranthene	30600	22000	5000	ug/kg	SW846 8270C
Benzo(b)fluoranthene	34400	4400	1000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene	20900	440	120	ug/kg	SW846 8270C
Benzo(g,h,i)perylene	23900	22000	6000	ug/kg	SW846 8270C
Benzo(k)fluoranthene	26200	22000	8300	ug/kg	SW846 8270C
Benzo(k)fluoranthene	26800	4400	1700	ug/kg	SW846 8270C
1,1'-Biphenyl	63200	4400	1100	ug/kg	SW846 8270C
1,1'-Biphenyl	58000	22000	5300	ug/kg	SW846 8270C
Carbazole	14400	440	89	ug/kg	SW846 8270C
Chrysene	75500	4400	820	ug/kg	SW846 8270C
Chrysene	69900	22000	4100	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	8230	440	120	ug/kg	SW846 8270C
Dibenzofuran	79800	4400	1000	ug/kg	SW846 8270C
Dibenzofuran	76200	22000	5100	ug/kg	SW846 8270C
Fluoranthene	186000	22000	3900	ug/kg	SW846 8270C
Fluoranthene	201000	4400	780	ug/kg	SW846 8270C
Fluorene	173000	4400	890	ug/kg	SW846 8270C
Fluorene	164000	22000	4400	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	19400	440	140	ug/kg	SW846 8270C
2-Methylnaphthalene	471000	22000	7200	ug/kg	SW846 8270C
Naphthalene	1300000	44000	12000	ug/kg	SW846 8270C
Phenanthrene	484000	22000	4900	ug/kg	SW846 8270C
Pyrene	210000	4400	760	ug/kg	SW846 8270C
Pyrene	192000	22000	3800	ug/kg	SW846 8270C
Total TIC, Semi-Volatile	973000 J			ug/kg	
Aluminum	7020	56	6.7	mg/kg	SW846 6010B
Antimony	7.8	2.8	1.1	mg/kg	SW846 6010B
Arsenic	498	2.8	1.1	mg/kg	SW846 6010B
Barium	96.8	28	0.42	mg/kg	SW846 6010B
Beryllium	0.064 B	0.70	0.028	mg/kg	SW846 6010B
Cadmium	12.3	0.70	0.14	mg/kg	SW846 6010B
Calcium	2100	700	13	mg/kg	SW846 6010B
Chromium	10.3	1.4	0.62	mg/kg	SW846 6010B
Cobalt	34.3	7.0	0.25	mg/kg	SW846 6010B
Copper	1980	3.5	0.32	mg/kg	SW846 6010B
Iron	70000	14	11	mg/kg	SW846 6010B
Lead	1310	2.8	0.45	mg/kg	SW846 6010B
Magnesium	1500	700	2.4	mg/kg	SW846 6010B
Manganese	72.2	2.1	0.084	mg/kg	SW846 6010B
Mercury	3.5	0.79	0.26	mg/kg	SW846 7471A

Summary of Hits

Job Number: J43515
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/11/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nickel		12.3	5.6	0.45	mg/kg	SW846 6010B
Potassium		1430	700	13	mg/kg	SW846 6010B
Selenium		10.6	2.8	1.1	mg/kg	SW846 6010B
Silver		3.4	1.4	0.31	mg/kg	SW846 6010B
Sodium		291 B	1400	47	mg/kg	SW846 6010B
Vanadium		14.6	7.0	0.32	mg/kg	SW846 6010B
Zinc		4830	28	4.1	mg/kg	SW846 6010B
J43515-7A	**TL16-09-8.0**					
Benzene		0.255	0.0010	0.00021	mg/l	SW846 8260B
2-Methylphenol		0.0244 J	0.050	0.014	mg/l	SW846 8270C
Arsenic		1.7	0.0080	0.0031	mg/l	SW846 6010B
Barium		0.027 B	1.0	0.0025	mg/l	SW846 6010B
Cadmium		0.037	0.0040	0.00060	mg/l	SW846 6010B
Lead		0.16	0.0030	0.0026	mg/l	SW846 6010B
Selenium		0.0033 B	0.050	0.0030	mg/l	SW846 6010B
J43515-8	**TL14-09-1.0**					
Aroclor 1254		702	110	50	ug/kg	SW846 8082
J43515-9	**TL14-09-5.0**					
Benzene		23900	1700	810	ug/kg	SW846 8260B
Ethylbenzene		94200	1700	760	ug/kg	SW846 8260B
Isopropylbenzene		21700	8400	780	ug/kg	SW846 8260B
Toluene		57300	1700	910	ug/kg	SW846 8260B
m,p-Xylene		122000	3400	1500	ug/kg	SW846 8260B
o-Xylene		55000	1700	830	ug/kg	SW846 8260B
Xylene (total)		177000	3400	830	ug/kg	SW846 8260B
Total TIC, Volatile		2619000 J			ug/kg	
2,4-Dimethylphenol		10700	3500	1800	ug/kg	SW846 8270C
Acenaphthene		840000	140000	36000	ug/kg	SW846 8270C
Acenaphthylene		53900	1400	280	ug/kg	SW846 8270C
Anthracene		478000	14000	2700	ug/kg	SW846 8270C
Benzo(a)anthracene		319000	14000	3400	ug/kg	SW846 8270C
Benzo(a)pyrene		214000	14000	2400	ug/kg	SW846 8270C
Benzo(b)fluoranthene		178000	14000	3200	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		114000	14000	3800	ug/kg	SW846 8270C
Benzo(k)fluoranthene		129000	14000	5300	ug/kg	SW846 8270C
1,1'-Biphenyl		255000	14000	3400	ug/kg	SW846 8270C
Carbazole		254000	14000	2800	ug/kg	SW846 8270C
Chrysene		273000	14000	2600	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		38400	1400	370	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43515
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/11/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Dibenzofuran		569000	14000	3300	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		1470	1400	900	ug/kg	SW846 8270C
Fluoranthene		1140000	140000	25000	ug/kg	SW846 8270C
Fluorene		748000	140000	28000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		97400	14000	4400	ug/kg	SW846 8270C
2-Methylnaphthalene		1590000	140000	46000	ug/kg	SW846 8270C
Naphthalene		4770000	140000	39000	ug/kg	SW846 8270C
Phenanthrene		2230000	140000	31000	ug/kg	SW846 8270C
Pyrene		826000	140000	24000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		3141000 J			ug/kg	
Aluminum		2810	29	7.0	mg/kg	SW846 6010B
Arsenic		15.7	2.9	1.1	mg/kg	SW846 6010B
Barium		42.7	29	0.44	mg/kg	SW846 6010B
Beryllium		0.38 B	0.73	0.029	mg/kg	SW846 6010B
Calcium		42800	730	13	mg/kg	SW846 6010B
Chromium		8.3	1.5	0.64	mg/kg	SW846 6010B
Cobalt		5.6 B	7.3	0.26	mg/kg	SW846 6010B
Copper		32.1	3.6	0.34	mg/kg	SW846 6010B
Iron		11600	15	11	mg/kg	SW846 6010B
Lead		81.6	2.9	0.47	mg/kg	SW846 6010B
Magnesium		2590	730	2.5	mg/kg	SW846 6010B
Manganese		79.0	2.2	0.087	mg/kg	SW846 6010B
Mercury		0.70	0.046	0.015	mg/kg	SW846 7471A
Nickel		15.0	5.8	0.47	mg/kg	SW846 6010B
Potassium		557 B	730	13	mg/kg	SW846 6010B
Selenium		2.1 B	2.9	1.2	mg/kg	SW846 6010B
Sodium		327 B	1500	49	mg/kg	SW846 6010B
Vanadium		54.5	7.3	0.34	mg/kg	SW846 6010B
Zinc		65.0	2.9	0.42	mg/kg	SW846 6010B
Chromium, Trivalent [a]		8.3	2.9		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		45.5			mv	ASTM D1498-76M
pH		8.27			su	SW846 9045D
J43515-9R	**TL14-09-5.0**					
Chromium, Hexavalent		0.38 B	1.4	0.31	mg/kg	SW846 3060A/NJ7196A
J43515-10	**TL14-09-11**					
Benzene		92600	1900	890	ug/kg	SW846 8260B
Ethylbenzene		138000	1900	830	ug/kg	SW846 8260B
Isopropylbenzene		21800	9300	860	ug/kg	SW846 8260B
Methylcyclohexane		1520 J	9300	1200	ug/kg	SW846 8260B
Styrene		57000	9300	610	ug/kg	SW846 8260B
Toluene		186000	1900	1000	ug/kg	SW846 8260B

Summary of Hits

Job Number: J43515
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/11/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene		241000	3700	1600	ug/kg	SW846 8260B
o-Xylene		107000	1900	910	ug/kg	SW846 8260B
Xylene (total)		348000	3700	910	ug/kg	SW846 8260B
Total TIC, Volatile		3609000 J			ug/kg	
2,4-Dimethylphenol		113000	38000	20000	ug/kg	SW846 8270C
2-Methylphenol		83200	38000	7500	ug/kg	SW846 8270C
3&4-Methylphenol		174000	38000	11000	ug/kg	SW846 8270C
Phenol		92700	38000	9500	ug/kg	SW846 8270C
Acenaphthene		1380000	300000	78000	ug/kg	SW846 8270C
Acenaphthylene		402000	15000	3100	ug/kg	SW846 8270C
Acetophenone		16400	3800	480	ug/kg	SW846 8270C
Anthracene		1050000	300000	59000	ug/kg	SW846 8270C
Benzo(a)anthracene		686000	15000	3700	ug/kg	SW846 8270C
Benzo(a)pyrene		434000	15000	2700	ug/kg	SW846 8270C
Benzo(b)fluoranthene		346000	15000	3500	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		191000	15000	4200	ug/kg	SW846 8270C
Benzo(k)fluoranthene		262000	15000	5700	ug/kg	SW846 8270C
1,1'-Biphenyl		537000	15000	3700	ug/kg	SW846 8270C
Carbazole		447000	15000	3100	ug/kg	SW846 8270C
Chrysene		596000	15000	2800	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		71000	1500	400	ug/kg	SW846 8270C
Dibenzofuran		1080000	300000	71000	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		1980	1500	980	ug/kg	SW846 8270C
Fluoranthene		2350000	300000	54000	ug/kg	SW846 8270C
Fluorene		1530000	300000	61000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		170000	15000	4800	ug/kg	SW846 8270C
2-Methylnaphthalene		3160000	300000	99000	ug/kg	SW846 8270C
Naphthalene		10200000	300000	86000	ug/kg	SW846 8270C
Phenanthrene		4600000	300000	67000	ug/kg	SW846 8270C
Pyrene		1700000	300000	53000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		4612000 J			ug/kg	

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)
(b) Elevated detection limit due to dilution required for high interfering element.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TL16-06-1.0		
Lab Sample ID:	J43515-1	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	82.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118937.D	1	10/25/06	YL	10/12/06 10:00	n/a	VD4743
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.9 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	720	210	ug/kg	
71-43-2	Benzene	ND	72	34	ug/kg	
75-27-4	Bromodichloromethane	ND	360	33	ug/kg	
75-25-2	Bromoform	ND	360	31	ug/kg	
74-83-9	Bromomethane	ND	360	27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	720	200	ug/kg	
75-15-0	Carbon disulfide	ND	360	40	ug/kg	
56-23-5	Carbon tetrachloride	ND	360	68	ug/kg	
108-90-7	Chlorobenzene	ND	360	31	ug/kg	
75-00-3	Chloroethane	ND	360	130	ug/kg	
67-66-3	Chloroform	ND	360	42	ug/kg	
74-87-3	Chloromethane	ND	360	33	ug/kg	
110-82-7	Cyclohexane	ND	360	92	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	720	150	ug/kg	
124-48-1	Dibromochloromethane	ND	360	40	ug/kg	
106-93-4	1,2-Dibromoethane	ND	72	41	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	35	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	360	33	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	360	57	ug/kg	
75-34-3	1,1-Dichloroethane	ND	360	34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	72	39	ug/kg	
75-35-4	1,1-Dichloroethene	ND	360	49	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	360	48	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	360	49	ug/kg	
78-87-5	1,2-Dichloropropane	ND	360	40	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	360	30	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	360	28	ug/kg	
100-41-4	Ethylbenzene	ND	72	32	ug/kg	
76-13-1	Freon 113	ND	360	62	ug/kg	
591-78-6	2-Hexanone	ND	360	98	ug/kg	
98-82-8	Isopropylbenzene	ND	360	33	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-1.0
Lab Sample ID: J43515-1
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 82.8

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	157	360	100	ug/kg	J
108-87-2	Methylcyclohexane	ND	360	46	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	72	40	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	360	140	ug/kg	
75-09-2	Methylene chloride	ND	360	50	ug/kg	
100-42-5	Styrene	ND	360	24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	360	41	ug/kg	
127-18-4	Tetrachloroethene	ND	360	59	ug/kg	
108-88-3	Toluene	ND	72	39	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	25	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	360	43	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	360	39	ug/kg	
79-01-6	Trichloroethene	ND	360	37	ug/kg	
75-69-4	Trichlorofluoromethane	ND	360	52	ug/kg	
75-01-4	Vinyl chloride	ND	360	47	ug/kg	
	m,p-Xylene	ND	140	63	ug/kg	
95-47-6	o-Xylene	ND	72	35	ug/kg	
1330-20-7	Xylene (total)	ND	140	35	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-120%
17060-07-0	1,2-Dichloroethane-D4	117%		61-133%
2037-26-5	Toluene-D8	93%		75-123%
460-00-4	4-Bromofluorobenzene	96%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-1.0
Lab Sample ID: J43515-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 82.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3286.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3317.D	10	10/26/06	OYA	10/16/06	OP25132	E3E117
Run #3	3E3312.D	100	10/25/06	OYA	10/16/06	OP25132	E3E117

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2	30.0 g	5.0 ml
Run #3	30.0 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1000	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1000	260	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1000	340	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1000	520	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4000	310	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4000	180	ug/kg	
95-48-7	2-Methylphenol	201	1000	200	ug/kg	J
	3&4-Methylphenol	1150	1000	290	ug/kg	
88-75-5	2-Nitrophenol	ND	1000	250	ug/kg	
100-02-7	4-Nitrophenol	ND	4000	270	ug/kg	
87-86-5	Pentachlorophenol	ND	4000	230	ug/kg	
108-95-2	Phenol	297	1000	250	ug/kg	J
95-95-4	2,4,5-Trichlorophenol	ND	1000	300	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1000	170	ug/kg	
83-32-9	Acenaphthene	77800 [a]	4000	1000	ug/kg	
208-96-8	Acenaphthylene	8120	400	82	ug/kg	
98-86-2	Acetophenone	254	1000	130	ug/kg	J
120-12-7	Anthracene	106000 [a]	4000	780	ug/kg	
1912-24-9	Atrazine	ND	1000	170	ug/kg	
56-55-3	Benzo(a)anthracene	210000 [b]	40000	9700	ug/kg	
50-32-8	Benzo(a)pyrene	200000 [a]	4000	700	ug/kg	
205-99-2	Benzo(b)fluoranthene	216000 [b]	40000	9200	ug/kg	
191-24-2	Benzo(g,h,i)perylene	112000 [a]	4000	1100	ug/kg	
207-08-9	Benzo(k)fluoranthene	145000 [b]	40000	15000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	400	100	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	400	150	ug/kg	
92-52-4	1,1'-Biphenyl	2840	400	97	ug/kg	
100-52-7	Benzaldehyde	ND	1000	220	ug/kg	
91-58-7	2-Chloronaphthalene	ND	400	280	ug/kg	
106-47-8	4-Chloroaniline	ND	1000	120	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-1.0
Lab Sample ID: J43515-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 82.8

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	32000 [a]	4000	810	ug/kg	
105-60-2	Caprolactam	ND	400	190	ug/kg	
218-01-9	Chrysene	223000 [b]	40000	7400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	400	130	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	400	100	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	400	150	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	400	95	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	400	230	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	400	230	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1000	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	48800 [a]	4000	1100	ug/kg	
132-64-9	Dibenzofuran	36000 [a]	4000	940	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	400	130	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	400	170	ug/kg	
84-66-2	Diethyl phthalate	ND	400	86	ug/kg	
131-11-3	Dimethyl phthalate	ND	400	86	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	2020	400	260	ug/kg	
206-44-0	Fluoranthene	525000 [b]	40000	7100	ug/kg	
86-73-7	Fluorene	59400 [a]	4000	810	ug/kg	
118-74-1	Hexachlorobenzene	ND	400	120	ug/kg	
87-68-3	Hexachlorobutadiene	ND	400	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4000	140	ug/kg	
67-72-1	Hexachloroethane	ND	1000	100	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	115000 [a]	4000	1300	ug/kg	
78-59-1	Isophorone	ND	400	100	ug/kg	
91-57-6	2-Methylnaphthalene	8970	400	130	ug/kg	
88-74-4	2-Nitroaniline	ND	1000	130	ug/kg	
99-09-2	3-Nitroaniline	ND	1000	160	ug/kg	
100-01-6	4-Nitroaniline	ND	1000	140	ug/kg	
91-20-3	Naphthalene	9530	400	110	ug/kg	
98-95-3	Nitrobenzene	ND	400	140	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	400	130	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1000	83	ug/kg	
85-01-8	Phenanthrene	228000 [b]	40000	8800	ug/kg	
129-00-0	Pyrene	381000 [b]	40000	6900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	100%	69%	0% [c]	33-105%
4165-62-2	Phenol-d5	102%	78%	0% [c]	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-1.0
Lab Sample ID: J43515-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 82.8

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	98%	80%	0% [c]	33-124%
4165-60-0	Nitrobenzene-d5	108%	53%	0% [c]	26-113%
321-60-8	2-Fluorobiphenyl	107% [d]	93%	0% [c]	40-106%
1718-51-0	Terphenyl-d14	204% [e]	114%	0% [c]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.55	260000	ug/kg	J
90-12-0	naphthalene 1-methyl	10.22	9700	ug/kg	JN
	Naphthalene dimethyl	11.45	8100	ug/kg	J
	Naphthalene dimethyl	11.65	10000	ug/kg	J
	unknown	13.91	14000	ug/kg	J
	Dibenzofuran, -methyl-	14.12	13000	ug/kg	J
	Naphthacenedione	22.79	37000	ug/kg	J
	Dibenzpyrene	22.96	55000	ug/kg	J
	unknown	23.06	43000	ug/kg	J
	unknown PAH substance	23.44	67000	ug/kg	J
	unknown	23.52	8100	ug/kg	J
	unknown	23.57	15000	ug/kg	J
	unknown PAH substance	23.69	170000	ug/kg	J
	unknown	23.92	12000	ug/kg	J
	unknown	24.06	20000	ug/kg	J
	unknown	24.12	10000	ug/kg	J
	unknown	24.36	11000	ug/kg	J
	Dibenzpyrene	24.47	43000	ug/kg	J
	unknown	24.65	22000	ug/kg	J
	unknown	25.03	14000	ug/kg	J
	unknown	25.12	14000	ug/kg	J
	unknown	25.17	21000	ug/kg	J
	unknown PAH substance	25.31	37000	ug/kg	J
	unknown PAH substance	25.71	21000	ug/kg	J
	unknown PAH substance	25.78	24000	ug/kg	J
	unknown PAH substance	26.24	19000	ug/kg	J
	unknown	26.88	9400	ug/kg	J
	Total TIC, Semi-Volatile		727300	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.
(d) Outside of in house control limits, but within reasonable method recovery limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-06-1.0		
Lab Sample ID:	J43515-1	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	82.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q

(e) Outside control limits due to matrix interference.

Report of Analysis

Client Sample ID: TL16-06-1.0
Lab Sample ID: J43515-1
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 82.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13983.D	1	10/25/06	JSE	10/14/06	OP25124	G2G573
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	22	ug/kg	
11104-28-2	Aroclor 1221	ND	110	69	ug/kg	
11141-16-5	Aroclor 1232	ND	110	62	ug/kg	
53469-21-9	Aroclor 1242	ND	110	36	ug/kg	
12672-29-6	Aroclor 1248	ND	110	39	ug/kg	
11097-69-1	Aroclor 1254	ND	110	54	ug/kg	
11096-82-5	Aroclor 1260	ND	110	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		37-140%
877-09-8	Tetrachloro-m-xylene	77%		37-140%
2051-24-3	Decachlorobiphenyl	81%		40-151%
2051-24-3	Decachlorobiphenyl	85%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-1.0
Lab Sample ID: J43515-1
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 82.8

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6310	48	5.6	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Antimony	6.5	2.4	0.90	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Arsenic	83.9	2.4	0.90	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Barium	155	24	0.36	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Beryllium	0.29 B	0.59	0.024	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Cadmium	1.2	0.59	0.12	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Calcium	22300	590	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Chromium	25.2	1.2	0.52	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Cobalt	8.0	5.9	0.21	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Copper	135	3.0	0.27	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Iron	62700	12	8.9	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Lead	751	2.4	0.38	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Magnesium	3960	590	2.0	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Manganese	306	1.8	0.071	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Mercury	2.6	0.39	0.13	mg/kg	10	10/23/06	10/24/06	JW	SW846 7471A [2]	SW846 7471A [4]
Nickel	37.8	4.7	0.38	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Potassium	836	590	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Selenium	2.6	2.4	0.94	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Silver	2.1	1.2	0.26	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Sodium	354 B	1200	40	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Thallium	1.0 U	1.2	1.0	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Vanadium	82.2	5.9	0.27	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Zinc	151	2.4	0.34	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA18250
(2) Instrument QC Batch: MA18251
(3) Prep QC Batch: MP36433
(4) Prep QC Batch: MP36461

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-06-1.0		
Lab Sample ID:	J43515-1A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 1311	**Percent Solids:**	82.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212514.D	1	10/18/06	MAH	10/16/06	GP35883	VL4563
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		77-121%
17060-07-0	1,2-Dichloroethane-D4	87%		65-133%
2037-26-5	Toluene-D8	91%		80-117%
460-00-4	4-Bromofluorobenzene	99%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-06-1.0		
Lab Sample ID:	J43515-1A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	82.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44792.D	1	10/30/06	NAP	10/27/06	OP25191	EM1497
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		12-76%
4165-62-2	Phenol-d5	20%		10-59%
118-79-6	2,4,6-Tribromophenol	95%		42-128%
4165-60-0	Nitrobenzene-d5	78%		30-122%
321-60-8	2-Fluorobiphenyl	84%		34-113%
1718-51-0	Terphenyl-d14	96%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-1.0
Lab Sample ID: J43515-1A
Matrix: SO - Soil
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 82.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13948.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		27-140%
877-09-8	Tetrachloro-m-xylene	86%		27-140%
2051-24-3	Decachlorobiphenyl	53%		19-151%
2051-24-3	Decachlorobiphenyl	53%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-1.0
Lab Sample ID: J43515-1A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 82.8

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.037		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.010 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.00060 U		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.026		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0030 U		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-06-24		
Lab Sample ID:	J43515-2	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118875.D	1	10/23/06	YL	10/12/06 10:00	n/a	VD4740
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.6 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	610	170	ug/kg	
71-43-2	Benzene	198	61	29	ug/kg	
75-27-4	Bromodichloromethane	ND	300	28	ug/kg	
75-25-2	Bromoform	ND	300	26	ug/kg	
74-83-9	Bromomethane	ND	300	22	ug/kg	
78-93-3	2-Butanone (MEK)	ND	610	170	ug/kg	
75-15-0	Carbon disulfide	ND	300	34	ug/kg	
56-23-5	Carbon tetrachloride	ND	300	58	ug/kg	
108-90-7	Chlorobenzene	ND	300	26	ug/kg	
75-00-3	Chloroethane	ND	300	110	ug/kg	
67-66-3	Chloroform	ND	300	35	ug/kg	
74-87-3	Chloromethane	ND	300	28	ug/kg	
110-82-7	Cyclohexane	ND	300	78	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	610	130	ug/kg	
124-48-1	Dibromochloromethane	ND	300	33	ug/kg	
106-93-4	1,2-Dibromoethane	ND	61	34	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	300	28	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	28	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	300	48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	300	29	ug/kg	
107-06-2	1,2-Dichloroethane	ND	61	33	ug/kg	
75-35-4	1,1-Dichloroethene	ND	300	42	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	300	41	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	300	42	ug/kg	
78-87-5	1,2-Dichloropropane	ND	300	34	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	300	25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	300	24	ug/kg	
100-41-4	Ethylbenzene	1210	61	27	ug/kg	
76-13-1	Freon 113	ND	300	52	ug/kg	
591-78-6	2-Hexanone	ND	300	83	ug/kg	
98-82-8	Isopropylbenzene	107	300	28	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	300	86	ug/kg	
108-87-2	Methylcyclohexane	ND	300	39	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	61	34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	300	120	ug/kg	
75-09-2	Methylene chloride	ND	300	42	ug/kg	
100-42-5	Styrene	ND	300	20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	300	35	ug/kg	
127-18-4	Tetrachloroethene	ND	300	50	ug/kg	
108-88-3	Toluene	177	61	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	300	21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	300	36	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	300	33	ug/kg	
79-01-6	Trichloroethene	ND	300	32	ug/kg	
75-69-4	Trichlorofluoromethane	ND	300	44	ug/kg	
75-01-4	Vinyl chloride	ND	300	39	ug/kg	
	m,p-Xylene	583	120	53	ug/kg	
95-47-6	o-Xylene	566	61	30	ug/kg	
1330-20-7	Xylene (total)	1150	120	30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-120%
17060-07-0	1,2-Dichloroethane-D4	102%		61-133%
2037-26-5	Toluene-D8	93%		75-123%
460-00-4	4-Bromofluorobenzene	95%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
95-63-6	Benzene, 1,2,4-trimethyl-	16.41	720	ug/kg	JN
	C3 alkyl benzene	16.91	370	ug/kg	J
496-11-7	Indane	17.16	3300	ug/kg	JN
	1H-indene-dihydro-methyl	18.44	320	ug/kg	J
	1H-indene-dihydro-methyl	18.63	310	ug/kg	J
91-20-3	Naphthalene	19.42	7100	ug/kg	JN
	Naphthalene Methyl	20.78	370	ug/kg	J
	Total TIC, Volatile		12490	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3287.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3305.D	10	10/25/06	OYA	10/16/06	OP25132	E3E117

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2	30.0 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	980	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	980	250	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	980	330	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	980	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3900	300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3900	170	ug/kg	
95-48-7	2-Methylphenol	ND	980	190	ug/kg	
	3&4-Methylphenol	282	980	280	ug/kg	J
88-75-5	2-Nitrophenol	ND	980	240	ug/kg	
100-02-7	4-Nitrophenol	ND	3900	270	ug/kg	
87-86-5	Pentachlorophenol	ND	3900	220	ug/kg	
108-95-2	Phenol	ND	980	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	980	290	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	980	160	ug/kg	
83-32-9	Acenaphthene	22700 [a]	3900	1000	ug/kg	
208-96-8	Acenaphthylene	1350	390	79	ug/kg	
98-86-2	Acetophenone	ND	980	120	ug/kg	
120-12-7	Anthracene	29700 [a]	3900	760	ug/kg	
1912-24-9	Atrazine	ND	980	170	ug/kg	
56-55-3	Benzo(a)anthracene	31800 [a]	3900	940	ug/kg	
50-32-8	Benzo(a)pyrene	26000 [a]	3900	680	ug/kg	
205-99-2	Benzo(b)fluoranthene	20200 [a]	3900	890	ug/kg	
191-24-2	Benzo(g,h,i)perylene	12600	390	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	18400 [a]	3900	1500	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	390	99	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	150	ug/kg	
92-52-4	1,1'-Biphenyl	1880	390	94	ug/kg	
100-52-7	Benzaldehyde	ND	980	210	ug/kg	
91-58-7	2-Chloronaphthalene	ND	390	270	ug/kg	
106-47-8	4-Chloroaniline	ND	980	120	ug/kg	
86-74-8	Carbazole	15500	390	79	ug/kg	
105-60-2	Caprolactam	ND	390	190	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	30600 [a]	3900	720	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	390	130	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	390	97	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	390	150	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	390	92	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	390	230	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	390	220	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	980	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	5380	390	100	ug/kg	
132-64-9	Dibenzofuran	18100	390	91	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	170	ug/kg	
84-66-2	Diethyl phthalate	ND	390	84	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	84	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	481	390	250	ug/kg	
206-44-0	Fluoranthene	87400 [a]	3900	690	ug/kg	
86-73-7	Fluorene	22100 [a]	3900	780	ug/kg	
118-74-1	Hexachlorobenzene	ND	390	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	390	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3900	140	ug/kg	
67-72-1	Hexachloroethane	ND	980	98	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	12900	390	120	ug/kg	
78-59-1	Isophorone	ND	390	97	ug/kg	
91-57-6	2-Methylnaphthalene	7400	390	130	ug/kg	
88-74-4	2-Nitroaniline	ND	980	120	ug/kg	
99-09-2	3-Nitroaniline	ND	980	150	ug/kg	
100-01-6	4-Nitroaniline	ND	980	130	ug/kg	
91-20-3	Naphthalene	25400 [a]	3900	1100	ug/kg	
98-95-3	Nitrobenzene	ND	390	140	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	390	130	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	980	81	ug/kg	
85-01-8	Phenanthrene	111000 [a]	3900	860	ug/kg	
129-00-0	Pyrene	70400 [a]	3900	670	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	107% [b]	75%	33-105%
4165-62-2	Phenol-d5	108%	83%	34-110%
118-79-6	2,4,6-Tribromophenol	107%	86%	33-124%
4165-60-0	Nitrobenzene-d5	114% [b]	74%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	114% [b]	94%	40-106%
1718-51-0	Terphenyl-d14	162% [c]	108%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.54	290000	ug/kg	J
	C3 alkyl benzene	5.56	1800	ug/kg	J
496	Indane	6.20	4900	ug/kg	JN
90-12-0	Naphthalene,1-methyl-	10.22	11000	ug/kg	J
	Naphthalene dimethyl	11.45	4500	ug/kg	J
	Naphthalene dimethyl	11.64	5800	ug/kg	J
	Naphthalene dimethyl	11.69	2600	ug/kg	J
	Naphthalene dimethyl	11.90	2600	ug/kg	J
	Naphthalene dimethyl	12.10	1800	ug/kg	J
	unknown	12.82	2600	ug/kg	J
	unknown	13.83	2100	ug/kg	J
	Biphenyl, -methyl-	13.90	6200	ug/kg	J
	unknown	13.98	3000	ug/kg	J
	Dibenzofuran,-methyl-	14.11	4800	ug/kg	J
	unknown PAH substance	19.89	4900	ug/kg	J
	unknown PAH substance	20.01	2700	ug/kg	J
	Benzophenanthrene	21.11	1700	ug/kg	J
	unknown	22.37	2500	ug/kg	J
	unknown	23.03	1800	ug/kg	J
192	Benzo[e]pyrene	23.40	7000	ug/kg	JN
	unknown	23.55	3100	ug/kg	J
	unknown PAH substance	23.64	15000	ug/kg	J
	unknown	23.94	8000	ug/kg	J
	unknown	24.03	17000	ug/kg	J
	Dibenzpyrene	24.25	11000	ug/kg	J
	unknown PAH substance	26.19	2600	ug/kg	J
	Total TIC, Semi-Volatile		131000	ug/kg	J

(a) Result is from Run# 2
(b) Outside of in house control limits, but within reasonable method recovery limits.
(c) Outside control limits due to matrix interference.

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13984.D	1	10/25/06	JSE	10/14/06	OP25124	G2G573
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	7.4	ug/kg	
11104-28-2	Aroclor 1221	ND	39	23	ug/kg	
11141-16-5	Aroclor 1232	ND	39	21	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	13	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	7.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		37-140%
877-09-8	Tetrachloro-m-xylene	71%		37-140%
2051-24-3	Decachlorobiphenyl	74%		40-151%
2051-24-3	Decachlorobiphenyl	76%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7090	48	5.7	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Antimony	0.91 U	2.4	0.91	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Arsenic	169	2.4	0.91	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Barium	30.2	24	0.36	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Beryllium	0.29 B	0.60	0.024	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Cadmium	0.75	0.60	0.12	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Calcium	974	600	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Chromium	14.5	1.2	0.53	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Cobalt	4.0 B	6.0	0.22	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Copper	137	3.0	0.28	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Iron	10500	12	9.0	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Lead	13.3	2.4	0.38	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Magnesium	2290	600	2.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Manganese	75.6	1.8	0.072	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Mercury	0.019 B	0.038	0.012	mg/kg	1	10/23/06	10/24/06	JW	SW846 7471A [2]	SW846 7471A [4]
Nickel	10.3	4.8	0.38	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Potassium	980	600	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Selenium	0.95 U	2.4	0.95	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Silver	0.26 U	1.2	0.26	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Sodium	258 B	1200	40	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Thallium	1.1 B	1.2	1.0	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Vanadium	13.3	6.0	0.28	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]
Zinc	110	2.4	0.35	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA18250
(2) Instrument QC Batch: MA18251
(3) Prep QC Batch: MP36433
(4) Prep QC Batch: MP36461

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2A
Matrix: SO - Soil
Method: SW846 8260B SW846 1311
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212518.D	1	10/19/06	MAH	10/17/06	GP35915	VL4563
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.0017		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	0.00053		0.0010	0.00022	mg/l	J
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		77-121%
17060-07-0	1,2-Dichloroethane-D4	85%		65-133%
2037-26-5	Toluene-D8	89%		80-117%
460-00-4	4-Bromofluorobenzene	98%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2A
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44793.D	1	10/30/06	NAP	10/27/06	OP25191	EM1497
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		12-76%
4165-62-2	Phenol-d5	27%		10-59%
118-79-6	2,4,6-Tribromophenol	101%		42-128%
4165-60-0	Nitrobenzene-d5	90%		30-122%
321-60-8	2-Fluorobiphenyl	97%		34-113%
1718-51-0	Terphenyl-d14	102%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-06-24		
Lab Sample ID:	J43515-2A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	85.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13949.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		27-140%
877-09-8	Tetrachloro-m-xylene	88%		27-140%
2051-24-3	Decachlorobiphenyl	82%		19-151%
2051-24-3	Decachlorobiphenyl	81%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-06-24
Lab Sample ID: J43515-2A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 85.3

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.073		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.0027 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.00070 B		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.0026 U		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0030 U		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-07-1.0		
Lab Sample ID:	J43515-3	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	84.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118871.D	1	10/23/06	YL	10/12/06 10:00	n/a	VD4740
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	2.3 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1400	390	ug/kg	
71-43-2	Benzene	ND	140	66	ug/kg	
75-27-4	Bromodichloromethane	ND	680	62	ug/kg	
75-25-2	Bromoform	ND	680	59	ug/kg	
74-83-9	Bromomethane	ND	680	51	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1400	370	ug/kg	
75-15-0	Carbon disulfide	ND	680	76	ug/kg	
56-23-5	Carbon tetrachloride	ND	680	130	ug/kg	
108-90-7	Chlorobenzene	ND	680	59	ug/kg	
75-00-3	Chloroethane	ND	680	240	ug/kg	
67-66-3	Chloroform	ND	680	80	ug/kg	
74-87-3	Chloromethane	ND	680	63	ug/kg	
110-82-7	Cyclohexane	ND	680	180	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1400	290	ug/kg	
124-48-1	Dibromochloromethane	ND	680	75	ug/kg	
106-93-4	1,2-Dibromoethane	ND	140	77	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	680	62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	680	67	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	680	63	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	680	110	ug/kg	
75-34-3	1,1-Dichloroethane	ND	680	66	ug/kg	
107-06-2	1,2-Dichloroethane	ND	140	74	ug/kg	
75-35-4	1,1-Dichloroethene	ND	680	94	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	680	92	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	680	94	ug/kg	
78-87-5	1,2-Dichloropropane	ND	680	76	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	680	57	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	680	54	ug/kg	
100-41-4	Ethylbenzene	ND	140	62	ug/kg	
76-13-1	Freon 113	ND	680	120	ug/kg	
591-78-6	2-Hexanone	ND	680	190	ug/kg	
98-82-8	Isopropylbenzene	ND	680	64	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	680	190	ug/kg	
108-87-2	Methylcyclohexane	ND	680	88	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	140	77	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	680	270	ug/kg	
75-09-2	Methylene chloride	ND	680	95	ug/kg	
100-42-5	Styrene	ND	680	45	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	680	79	ug/kg	
127-18-4	Tetrachloroethene	ND	680	110	ug/kg	
108-88-3	Toluene	ND	140	74	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	680	48	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	680	81	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	680	73	ug/kg	
79-01-6	Trichloroethene	ND	680	71	ug/kg	
75-69-4	Trichlorofluoromethane	ND	680	100	ug/kg	
75-01-4	Vinyl chloride	ND	680	88	ug/kg	
	m,p-Xylene	ND	270	120	ug/kg	
95-47-6	o-Xylene	ND	140	68	ug/kg	
1330-20-7	Xylene (total)	131	270	68	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-120%
17060-07-0	1,2-Dichloroethane-D4	104%		61-133%
2037-26-5	Toluene-D8	93%		75-123%
460-00-4	4-Bromofluorobenzene	96%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
7785-26-4	1S-.alpha.-Pinene	15.39	3700	ug/kg	JN
496-11-7	Indane	17.17	1100	ug/kg	JN
91-20-3	Naphthalene	19.42	11000	ug/kg	JN
	Total TIC, Volatile		15800	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3285.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3304.D	50	10/25/06	OYA	10/16/06	OP25132	E3E117
Run #3	3E3327.D	200	10/26/06	OYA	10/16/06	OP25132	E3E118

	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2	30.1 g	5.0 ml
Run #3	30.1 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	980	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	980	250	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	980	330	ug/kg	
105-67-9	2,4-Dimethylphenol	2840	980	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3900	300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3900	170	ug/kg	
95-48-7	2-Methylphenol	3490	980	190	ug/kg	
	3&4-Methylphenol	8840	980	280	ug/kg	
88-75-5	2-Nitrophenol	ND	980	240	ug/kg	
100-02-7	4-Nitrophenol	ND	3900	270	ug/kg	
87-86-5	Pentachlorophenol	ND	3900	220	ug/kg	
108-95-2	Phenol	5620	980	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	980	290	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	980	160	ug/kg	
83-32-9	Acenaphthene	208000 [a]	20000	5000	ug/kg	
208-96-8	Acenaphthylene	16800	390	79	ug/kg	
98-86-2	Acetophenone	275	980	120	ug/kg	J
120-12-7	Anthracene	309000 [a]	20000	3800	ug/kg	
1912-24-9	Atrazine	ND	980	170	ug/kg	
56-55-3	Benzo(a)anthracene	942000 [a]	20000	4700	ug/kg	
50-32-8	Benzo(a)pyrene	941000 [a]	20000	3400	ug/kg	
205-99-2	Benzo(b)fluoranthene	967000 [a]	20000	4500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	553000 [a]	20000	5400	ug/kg	
207-08-9	Benzo(k)fluoranthene	632000 [a]	20000	7400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	390	99	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	150	ug/kg	
92-52-4	1,1'-Biphenyl	16500	390	94	ug/kg	
100-52-7	Benzaldehyde	ND	980	220	ug/kg	
91-58-7	2-Chloronaphthalene	ND	390	270	ug/kg	
106-47-8	4-Chloroaniline	ND	980	120	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	257000 [a]	20000	4000	ug/kg	
105-60-2	Caprolactam	ND	390	190	ug/kg	
218-01-9	Chrysene	965000 [b]	78000	14000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	390	130	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	390	97	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	390	150	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	390	92	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	390	230	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	390	220	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	980	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	200000 [a]	20000	5100	ug/kg	
132-64-9	Dibenzofuran	109000 [a]	20000	4500	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	170	ug/kg	
84-66-2	Diethyl phthalate	ND	390	84	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	84	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	250	ug/kg	
206-44-0	Fluoranthene	2170000 [b]	78000	14000	ug/kg	
86-73-7	Fluorene	204000 [a]	20000	3900	ug/kg	
118-74-1	Hexachlorobenzene	ND	390	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	390	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3900	140	ug/kg	
67-72-1	Hexachloroethane	ND	980	98	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	540000 [a]	20000	6200	ug/kg	
78-59-1	Isophorone	ND	390	97	ug/kg	
91-57-6	2-Methylnaphthalene	59900 [a]	20000	6400	ug/kg	
88-74-4	2-Nitroaniline	ND	980	120	ug/kg	
99-09-2	3-Nitroaniline	ND	980	150	ug/kg	
100-01-6	4-Nitroaniline	ND	980	140	ug/kg	
91-20-3	Naphthalene	279000 [a]	20000	5500	ug/kg	
98-95-3	Nitrobenzene	ND	390	140	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	390	130	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	980	81	ug/kg	
85-01-8	Phenanthrene	1390000 [b]	78000	17000	ug/kg	
129-00-0	Pyrene	1490000 [b]	78000	14000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	101%	0% [c]	0% [c]	33-105%
4165-62-2	Phenol-d5	108%	0% [c]	0% [c]	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	87%	0% [c]	0% [c]	33-124%
4165-60-0	Nitrobenzene-d5	106%	0% [c]	0% [c]	26-113%
321-60-8	2-Fluorobiphenyl	114% [d]	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	199% [d]	0% [c]	0% [c]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.54	230000	ug/kg	J
496	Indane	6.20	7600	ug/kg	JN
95	Indene	6.33	13000	ug/kg	JN
	unknown	17.44	1300	ug/kg	J
	unknown PAH substance	19.53	1500	ug/kg	J
	unknown	19.59	1400	ug/kg	J
	unknown PAH substance	19.75	2200	ug/kg	J
	unknown PAH substance	20.00	7800	ug/kg	J
	unknown PAH substance	20.12	5600	ug/kg	J
	unknown PAH substance	20.18	1400	ug/kg	J
	unknown	20.21	1600	ug/kg	J
	unknown PAH substance	20.33	1200	ug/kg	J
	unknown PAH substance	20.38	1400	ug/kg	J
84	o-Terphenyl	20.75	1600	ug/kg	JN
	unknown PAH substance	21.11	1600	ug/kg	J
	unknown	21.18	2000	ug/kg	J
	unknown	21.25	1800	ug/kg	J
	unknown PAH substance	21.80	2200	ug/kg	J
239	Benzo(a)carbazole	21.94	1500	ug/kg	JN
	Triphenylene, -methyl-	22.28	2200	ug/kg	J
	unknown	22.43	1500	ug/kg	J
	unknown	22.53	1700	ug/kg	J
	unknown PAH substance	23.73	3500	ug/kg	J
	unknown PAH substance	23.94	2600	ug/kg	J
	unknown PAH substance	26.38	1200	ug/kg	J
	Total TIC, Semi-Volatile		69400	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.
(d) Outside control limits due to matrix interference, confirmed by MSD.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13985.D	1	10/25/06	JSE	10/14/06	OP25124	G2G573
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	21	ug/kg	
11104-28-2	Aroclor 1221	ND	110	66	ug/kg	
11141-16-5	Aroclor 1232	ND	110	59	ug/kg	
53469-21-9	Aroclor 1242	ND	110	35	ug/kg	
12672-29-6	Aroclor 1248	ND	110	38	ug/kg	
11097-69-1	Aroclor 1254	ND	110	52	ug/kg	
11096-82-5	Aroclor 1260	ND	110	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		37-140%
877-09-8	Tetrachloro-m-xylene	75%		37-140%
2051-24-3	Decachlorobiphenyl	70%		40-151%
2051-24-3	Decachlorobiphenyl	68%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6530	45	5.4	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Antimony	1.2 B	2.2	0.85	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Arsenic	67.4	2.2	0.85	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Barium	76.7	22	0.34	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.25 B	0.56	0.022	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Cadmium	2.0	0.56	0.11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Calcium	18000	560	10	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Chromium	24.6	1.1	0.49	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Cobalt	6.3	5.6	0.20	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Copper	124	2.8	0.26	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Iron	21200	11	8.4	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Lead	234	2.2	0.36	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Magnesium	4190	560	1.9	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Manganese	207	1.7	0.067	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Mercury	10.9	1.9	0.62	mg/kg	50	10/23/06	10/24/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	28.3	4.5	0.36	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Potassium	531 B	560	10	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.6 B	2.2	0.89	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Silver	0.55 B	1.1	0.25	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Sodium	268 B	1100	38	mg/kg	1	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [4]
Thallium	0.96 U	1.1	0.96	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Vanadium	69.9	5.6	0.26	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Zinc	185	2.2	0.33	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18250
(2) Instrument QC Batch: MA18251
(3) Instrument QC Batch: MA18255
(4) Prep QC Batch: MP36433
(5) Prep QC Batch: MP36461

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.29 B	1.2	0.26	mg/kg	1	10/24/06 14:02	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	24.6	2.3		mg/kg	1	10/24/06 14:02	IJ	SW846 6010/7196A M
Redox Potential Vs H2	234			mv	1	10/23/06	JOO	ASTM D1498-76M
Solids, Percent	84.9			%	1	10/24/06	THS	EPA 160.3 M
pH	8.02			su	1	10/18/06	CD	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-07-1.0		
Lab Sample ID:	J43515-3A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 1311	**Percent Solids:**	84.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212515.D	1	10/18/06	MAH	10/17/06	GP35915	VL4563
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.0025		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		77-121%
17060-07-0	1,2-Dichloroethane-D4	86%		65-133%
2037-26-5	Toluene-D8	89%		80-117%
460-00-4	4-Bromofluorobenzene	102%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-07-1.0		
Lab Sample ID:	J43515-3A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	84.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44794.D	1	10/30/06	NAP	10/27/06	OP25191	EM1497
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		12-76%
4165-62-2	Phenol-d5	23%		10-59%
118-79-6	2,4,6-Tribromophenol	100%		42-128%
4165-60-0	Nitrobenzene-d5	77%		30-122%
321-60-8	2-Fluorobiphenyl	84%		34-113%
1718-51-0	Terphenyl-d14	99%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3A
Matrix: SO - Soil
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13947.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		27-140%
877-09-8	Tetrachloro-m-xylene	85%		27-140%
2051-24-3	Decachlorobiphenyl	56%		19-151%
2051-24-3	Decachlorobiphenyl	55%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.041		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.016 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.00060 U		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.0064		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0038 B		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL16-07-1.0
Lab Sample ID: J43515-3R
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 84.9

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.26 U	1.2	0.26	mg/kg	1	11/09/06 10:20	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-07-9.0		
Lab Sample ID:	J43515-4	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	67.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118876.D	1	10/23/06	YL	10/12/06 10:00	n/a	VD4740
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.9 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1200	340	ug/kg	
71-43-2	Benzene	76.6	120	57	ug/kg	J
75-27-4	Bromodichloromethane	ND	590	54	ug/kg	
75-25-2	Bromoform	ND	590	51	ug/kg	
74-83-9	Bromomethane	ND	590	44	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1200	320	ug/kg	
75-15-0	Carbon disulfide	ND	590	65	ug/kg	
56-23-5	Carbon tetrachloride	ND	590	110	ug/kg	
108-90-7	Chlorobenzene	ND	590	51	ug/kg	
75-00-3	Chloroethane	ND	590	210	ug/kg	
67-66-3	Chloroform	ND	590	69	ug/kg	
74-87-3	Chloromethane	ND	590	55	ug/kg	
110-82-7	Cyclohexane	ND	590	150	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	250	ug/kg	
124-48-1	Dibromochloromethane	ND	590	65	ug/kg	
106-93-4	1,2-Dibromoethane	ND	120	67	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	590	54	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	590	58	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	590	55	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	590	94	ug/kg	
75-34-3	1,1-Dichloroethane	ND	590	57	ug/kg	
107-06-2	1,2-Dichloroethane	ND	120	64	ug/kg	
75-35-4	1,1-Dichloroethene	ND	590	81	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	590	80	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	590	81	ug/kg	
78-87-5	1,2-Dichloropropane	ND	590	66	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	590	49	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	590	46	ug/kg	
100-41-4	Ethylbenzene	504	120	53	ug/kg	
76-13-1	Freon 113	ND	590	100	ug/kg	
591-78-6	2-Hexanone	ND	590	160	ug/kg	
98-82-8	Isopropylbenzene	239	590	55	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	209	590	170	ug/kg	J
108-87-2	Methylcyclohexane	ND	590	76	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	120	66	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	590	240	ug/kg	
75-09-2	Methylene chloride	ND	590	82	ug/kg	
100-42-5	Styrene	ND	590	39	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	590	68	ug/kg	
127-18-4	Tetrachloroethene	ND	590	98	ug/kg	
108-88-3	Toluene	100	120	64	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	590	41	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	590	70	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	590	64	ug/kg	
79-01-6	Trichloroethene	ND	590	62	ug/kg	
75-69-4	Trichlorofluoromethane	ND	590	86	ug/kg	
75-01-4	Vinyl chloride	ND	590	77	ug/kg	
	m,p-Xylene	226	240	100	ug/kg	J
95-47-6	o-Xylene	319	120	58	ug/kg	
1330-20-7	Xylene (total)	544	240	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-120%
17060-07-0	1,2-Dichloroethane-D4	102%		61-133%
2037-26-5	Toluene-D8	94%		75-123%
460-00-4	4-Bromofluorobenzene	96%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	17.16	2200	ug/kg	JN
95-13-6	Indene	17.40	640	ug/kg	JN
	1H-indene-dihydro-methyl	17.78	620	ug/kg	J
	1H-indene-dihydro-methyl	18.63	650	ug/kg	J
91-20-3	Naphthalene	19.42	5600	ug/kg	JN
	Naphthalene Methyl	20.78	1700	ug/kg	J
	Naphthalene Methyl	21.05	2000	ug/kg	J
	Total TIC, Volatile		13410	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3288.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3306.D	20	10/25/06	OYA	10/16/06	OP25132	E3E117

	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2	30.1 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1200	210	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1200	310	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1200	410	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1200	630	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4900	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4900	210	ug/kg	
95-48-7	2-Methylphenol	ND	1200	240	ug/kg	
	3&4-Methylphenol	ND	1200	350	ug/kg	
88-75-5	2-Nitrophenol	ND	1200	300	ug/kg	
100-02-7	4-Nitrophenol	ND	4900	330	ug/kg	
87-86-5	Pentachlorophenol	ND	4900	270	ug/kg	
108-95-2	Phenol	ND	1200	300	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1200	370	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1200	210	ug/kg	
83-32-9	Acenaphthene	39600 [a]	9800	2500	ug/kg	
208-96-8	Acenaphthylene	8280	490	99	ug/kg	
98-86-2	Acetophenone	245	1200	150	ug/kg	J
120-12-7	Anthracene	75100 [a]	9800	1900	ug/kg	
1912-24-9	Atrazine	ND	1200	210	ug/kg	
56-55-3	Benzo(a)anthracene	78900 [a]	9800	2400	ug/kg	
50-32-8	Benzo(a)pyrene	59600 [a]	9800	1700	ug/kg	
205-99-2	Benzo(b)fluoranthene	45700 [a]	9800	2200	ug/kg	
191-24-2	Benzo(g,h,i)perylene	23400	490	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	41400 [a]	9800	3700	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	490	120	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	490	190	ug/kg	
92-52-4	1,1'-Biphenyl	8810	490	120	ug/kg	
100-52-7	Benzaldehyde	ND	1200	270	ug/kg	
91-58-7	2-Chloronaphthalene	ND	490	340	ug/kg	
106-47-8	4-Chloroaniline	ND	1200	150	ug/kg	
86-74-8	Carbazole	12100	490	99	ug/kg	
105-60-2	Caprolactam	ND	490	240	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	73400 [a]	9800	1800	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	490	160	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	490	120	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	490	180	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	490	120	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	490	280	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	490	280	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1200	230	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	10800	490	130	ug/kg	
132-64-9	Dibenzofuran	28500 [a]	9800	2300	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	490	160	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	490	210	ug/kg	
84-66-2	Diethyl phthalate	ND	490	110	ug/kg	
131-11-3	Dimethyl phthalate	ND	490	110	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	490	310	ug/kg	
206-44-0	Fluoranthene	196000 [a]	9800	1700	ug/kg	
86-73-7	Fluorene	50900 [a]	9800	2000	ug/kg	
118-74-1	Hexachlorobenzene	ND	490	140	ug/kg	
87-68-3	Hexachlorobutadiene	ND	490	160	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4900	180	ug/kg	
67-72-1	Hexachloroethane	ND	1200	120	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	24100	490	160	ug/kg	
78-59-1	Isophorone	ND	490	120	ug/kg	
91-57-6	2-Methylnaphthalene	7080	490	160	ug/kg	
88-74-4	2-Nitroaniline	ND	1200	160	ug/kg	
99-09-2	3-Nitroaniline	ND	1200	190	ug/kg	
100-01-6	4-Nitroaniline	ND	1200	170	ug/kg	
91-20-3	Naphthalene	23700	490	140	ug/kg	
98-95-3	Nitrobenzene	ND	490	170	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	490	160	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1200	100	ug/kg	
85-01-8	Phenanthrene	238000 [a]	9800	2200	ug/kg	
129-00-0	Pyrene	169000 [a]	9800	1700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%	67%	33-105%
4165-62-2	Phenol-d5	83%	63%	34-110%
118-79-6	2,4,6-Tribromophenol	83%	68%	33-124%
4165-60-0	Nitrobenzene-d5	91%	98%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	91%	82%	40-106%
1718-51-0	Terphenyl-d14	127%	93%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.52	240000	ug/kg	J
	C3 alkyl benzene	5.56	5400	ug/kg	J
90-12-0	Naphthalene,1-methyl-	10.23	41000	ug/kg	J
	Naphthalene dimethyl	11.45	20000	ug/kg	J
	Naphthalene dimethyl	11.65	26000	ug/kg	J
	Naphthalene dimethyl	11.69	13000	ug/kg	J
	Naphthalene dimethyl	11.90	12000	ug/kg	J
	Naphthalene dimethyl	12.10	8500	ug/kg	J
	unknown	12.82	5500	ug/kg	J
	Naphthalene trimethyl	12.97	6100	ug/kg	J
	Naphthalene trimethyl	13.03	7000	ug/kg	J
	Naphthalene trimethyl	13.23	7000	ug/kg	J
	Naphthalene trimethyl	13.26	5500	ug/kg	J
	Naphthalene trimethyl	13.46	13000	ug/kg	J
	unknown	13.84	7500	ug/kg	J
	unknown	13.91	19000	ug/kg	J
	Naphthalene, -(-propenyl)-	13.99	7700	ug/kg	J
	Dibenzofuran, -methyl-	14.12	14000	ug/kg	J
	unknown	22.75	7500	ug/kg	J
	unknown	23.03	6000	ug/kg	J
	unknown PAH substance	23.40	14000	ug/kg	J
	unknown	23.55	5700	ug/kg	J
	unknown PAH substance	23.65	32000	ug/kg	J
	unknown	24.04	5200	ug/kg	J
	unknown PAH substance	25.74	5200	ug/kg	J
	unknown PAH substance	26.19	7300	ug/kg	J
	Total TIC, Semi-Volatile		301100	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2G13993.D	1	10/25/06	JSE	10/14/06	OP25124	G2G574
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	49	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	49	29	ug/kg	
11141-16-5	Aroclor 1232	ND	49	27	ug/kg	
53469-21-9	Aroclor 1242	ND	49	16	ug/kg	
12672-29-6	Aroclor 1248	ND	49	17	ug/kg	
11097-69-1	Aroclor 1254	ND	49	23	ug/kg	
11096-82-5	Aroclor 1260	ND	49	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		37-140%
877-09-8	Tetrachloro-m-xylene	40%		37-140%
2051-24-3	Decachlorobiphenyl	75%		40-151%
2051-24-3	Decachlorobiphenyl	74%		40-151%

(a) Had TBA cleanup.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2780	59	7.0	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Antimony	8.5	3.0	1.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Arsenic	1150	3.0	1.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Barium	245	30	0.44	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.054 B	0.74	0.030	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.37 B	0.74	0.15	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Calcium	21300	740	13	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Chromium	8.4	1.5	0.65	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Cobalt	4.4 B	7.4	0.27	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Copper	882	3.7	0.34	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Iron	46600	15	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Lead	813	3.0	0.47	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Magnesium	8960	740	2.6	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Manganese	105	2.2	0.089	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Mercury	1.9	0.094	0.031	mg/kg	2	10/23/06	10/24/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	19.5	5.9	0.47	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Potassium	2580	740	13	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Selenium	6.3	3.0	1.2	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Silver	2.1	1.5	0.32	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Sodium	912 B	1500	50	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Thallium [a]	13 U	15	13	mg/kg	10	10/21/06	10/27/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	14.2	7.4	0.34	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Zinc	200	3.0	0.43	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18250
(2) Instrument QC Batch: MA18251
(3) Instrument QC Batch: MA18265
(4) Prep QC Batch: MP36433
(5) Prep QC Batch: MP36461

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	1.4 B	1.5	0.32	mg/kg	1	10/24/06 14:07	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	8.4	3.0		mg/kg	1	10/24/06 14:07	IJ	SW846 6010/7196A M
Redox Potential Vs H2	267			mv	1	10/23/06	JOO	ASTM D1498-76M
Solids, Percent	67.7			%	1	10/24/06	THS	EPA 160.3 M
pH	8.14			su	1	10/18/06	CD	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-07-9.0		
Lab Sample ID:	J43515-4A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 1311	**Percent Solids:**	67.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212521.D	1	10/19/06	MAH	10/17/06	GP35915	VL4563
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.00096		0.0010	0.00021	mg/l	J
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		77-121%
17060-07-0	1,2-Dichloroethane-D4	85%		65-133%
2037-26-5	Toluene-D8	91%		80-117%
460-00-4	4-Bromofluorobenzene	100%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-07-9.0		
Lab Sample ID:	J43515-4A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	67.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44795.D	1	10/30/06	NAP	10/27/06	OP25191	EM1497
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		12-76%
4165-62-2	Phenol-d5	23%		10-59%
118-79-6	2,4,6-Tribromophenol	96%		42-128%
4165-60-0	Nitrobenzene-d5	79%		30-122%
321-60-8	2-Fluorobiphenyl	87%		34-113%
1718-51-0	Terphenyl-d14	96%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4A
Matrix: SO - Soil
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13950.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	47%		27-140%
877-09-8	Tetrachloro-m-xylene	52%		27-140%
2051-24-3	Decachlorobiphenyl	35%		19-151%
2051-24-3	Decachlorobiphenyl	35%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.072		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.0083 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.00060 U		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.0029 B		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0030 U		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL16-07-9.0
Lab Sample ID: J43515-4R
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.7

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.32 U	1.5	0.32	mg/kg	1	11/09/06 10:44	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118877.D	1	10/23/06	YL	10/12/06 10:00	n/a	VD4740
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.6 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	690	200	ug/kg	
71-43-2	Benzene	323	69	33	ug/kg	
75-27-4	Bromodichloromethane	ND	350	32	ug/kg	
75-25-2	Bromoform	ND	350	30	ug/kg	
74-83-9	Bromomethane	ND	350	26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	690	190	ug/kg	
75-15-0	Carbon disulfide	ND	350	38	ug/kg	
56-23-5	Carbon tetrachloride	ND	350	66	ug/kg	
108-90-7	Chlorobenzene	ND	350	30	ug/kg	
75-00-3	Chloroethane	ND	350	120	ug/kg	
67-66-3	Chloroform	ND	350	40	ug/kg	
74-87-3	Chloromethane	ND	350	32	ug/kg	
110-82-7	Cyclohexane	ND	350	89	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	690	150	ug/kg	
124-48-1	Dibromochloromethane	ND	350	38	ug/kg	
106-93-4	1,2-Dibromoethane	ND	69	39	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	350	32	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	350	34	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	350	32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	350	55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	350	33	ug/kg	
107-06-2	1,2-Dichloroethane	ND	69	38	ug/kg	
75-35-4	1,1-Dichloroethene	ND	350	48	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	350	47	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	350	47	ug/kg	
78-87-5	1,2-Dichloropropane	ND	350	38	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	350	29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	350	27	ug/kg	
100-41-4	Ethylbenzene	220	69	31	ug/kg	
76-13-1	Freon 113	ND	350	59	ug/kg	
591-78-6	2-Hexanone	ND	350	94	ug/kg	
98-82-8	Isopropylbenzene	935	350	32	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	242	350	98	ug/kg	J
108-87-2	Methylcyclohexane	ND	350	45	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	69	39	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	350	140	ug/kg	
75-09-2	Methylene chloride	ND	350	48	ug/kg	
100-42-5	Styrene	ND	350	23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	350	40	ug/kg	
127-18-4	Tetrachloroethene	ND	350	57	ug/kg	
108-88-3	Toluene	483	69	38	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	350	24	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	350	41	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	350	37	ug/kg	
79-01-6	Trichloroethene	ND	350	36	ug/kg	
75-69-4	Trichlorofluoromethane	ND	350	50	ug/kg	
75-01-4	Vinyl chloride	ND	350	45	ug/kg	
	m,p-Xylene	747	140	61	ug/kg	
95-47-6	o-Xylene	319	69	34	ug/kg	
1330-20-7	Xylene (total)	1070	140	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-120%
17060-07-0	1,2-Dichloroethane-D4	102%		61-133%
2037-26-5	Toluene-D8	93%		75-123%
460-00-4	4-Bromofluorobenzene	94%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
95-63-6	Benzene, 1,2,4-trimethyl-	16.41	940	ug/kg	JN
271-89-6	Benzofuran	16.75	1200	ug/kg	JN
	C3 alkyl benzene	16.90	450	ug/kg	J
496-11-7	Indane	17.16	4700	ug/kg	JN
95-13-6	Indene	17.41	5800	ug/kg	JN
	Benzofuran,methyl-	18.02	580	ug/kg	J
	Benzofuran,methyl-	18.14	870	ug/kg	J
	1H-indene-dihydro-methyl	18.63	400	ug/kg	J
91-20-3	Naphthalene	19.42	24000	ug/kg	JN
270-82-6	Benzo[c]thiophene	19.57	450	ug/kg	JN
	Naphthalene methyl	20.78	1700	ug/kg	J
	Naphthalene methyl	21.05	1300	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		42390	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3289.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3307.D	50	10/25/06	OYA	10/16/06	OP25132	E3E117

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2	30.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1000	180	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1000	270	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1000	350	ug/kg	
105-67-9	2,4-Dimethylphenol	1130	1000	530	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4200	320	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4200	180	ug/kg	
95-48-7	2-Methylphenol	591	1000	200	ug/kg	J
	3&4-Methylphenol	755	1000	300	ug/kg	J
88-75-5	2-Nitrophenol	ND	1000	260	ug/kg	
100-02-7	4-Nitrophenol	ND	4200	280	ug/kg	
87-86-5	Pentachlorophenol	ND	4200	230	ug/kg	
108-95-2	Phenol	ND	1000	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1000	310	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1000	180	ug/kg	
83-32-9	Acenaphthene	117000 [a]	21000	5300	ug/kg	
208-96-8	Acenaphthylene	6590	420	85	ug/kg	
98-86-2	Acetophenone	452	1000	130	ug/kg	J
120-12-7	Anthracene	57300 [a]	21000	4000	ug/kg	
1912-24-9	Atrazine	ND	1000	180	ug/kg	
56-55-3	Benzo(a)anthracene	35500 [a]	21000	5000	ug/kg	
50-32-8	Benzo(a)pyrene	19900 [a]	21000	3600	ug/kg	J
205-99-2	Benzo(b)fluoranthene	20600 [a]	21000	4800	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	10900	420	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	12000 [a]	21000	7900	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	420	110	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	160	ug/kg	
92-52-4	1,1'-Biphenyl	27700 [a]	21000	5000	ug/kg	
100-52-7	Benzaldehyde	ND	1000	230	ug/kg	
91-58-7	2-Chloronaphthalene	ND	420	290	ug/kg	
106-47-8	4-Chloroaniline	ND	1000	130	ug/kg	
86-74-8	Carbazole	23600 [a]	21000	4200	ug/kg	
105-60-2	Caprolactam	ND	420	200	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-09-2.0
Lab Sample ID: J43515-5
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 79.3

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	31600 [a]	21000	3900	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	420	130	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	420	100	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	420	160	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	420	98	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	420	240	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	420	240	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1000	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	4230	420	110	ug/kg	
132-64-9	Dibenzofuran	97900 [a]	21000	4900	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	130	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	180	ug/kg	
84-66-2	Diethyl phthalate	ND	420	89	ug/kg	
131-11-3	Dimethyl phthalate	ND	420	90	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	455	420	270	ug/kg	
206-44-0	Fluoranthene	164000 [a]	21000	3700	ug/kg	
86-73-7	Fluorene	116000 [a]	21000	4200	ug/kg	
118-74-1	Hexachlorobenzene	ND	420	120	ug/kg	
87-68-3	Hexachlorobutadiene	ND	420	140	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4200	150	ug/kg	
67-72-1	Hexachloroethane	ND	1000	100	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	11200	420	130	ug/kg	
78-59-1	Isophorone	ND	420	100	ug/kg	
91-57-6	2-Methylnaphthalene	133000 [a]	21000	6800	ug/kg	
88-74-4	2-Nitroaniline	ND	1000	130	ug/kg	
99-09-2	3-Nitroaniline	ND	1000	160	ug/kg	
100-01-6	4-Nitroaniline	ND	1000	140	ug/kg	
91-20-3	Naphthalene	208000 [a]	21000	5900	ug/kg	
98-95-3	Nitrobenzene	ND	420	150	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	420	130	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1000	86	ug/kg	
85-01-8	Phenanthrene	311000 [a]	21000	4600	ug/kg	
129-00-0	Pyrene	110000 [a]	21000	3600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	110% [b]	0% [b]	33-105%
4165-62-2	Phenol-d5	111% [b]	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	103%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	117% [b]	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	120% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	172% [c]	94%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.47	71000	ug/kg	J
	system artifact/aldol-condensation	3.52	160000	ug/kg	J
496	Indane	6.20	7200	ug/kg	JN
95	Indene	6.33	25000	ug/kg	JN
	Naphthalene ethyl	11.31	15000	ug/kg	J
	Naphthalene dimethyl	11.46	37000	ug/kg	J
	Naphthalene dimethyl	11.66	37000	ug/kg	J
	Naphthalene dimethyl	11.70	20000	ug/kg	J
	Naphthalene dimethyl	11.90	13000	ug/kg	J
	Naphthalene dimethyl	11.95	5900	ug/kg	J
	Naphthalene dimethyl	12.11	7500	ug/kg	J
	Naphthalenecarbonitrile	12.61	5500	ug/kg	J
	Naphthalene, -(-methylethyl)-	12.71	4300	ug/kg	J
	unknown	12.83	6800	ug/kg	J
	Naphthalene trimethyl	12.97	4900	ug/kg	J
	Naphthalene trimethyl	13.04	5900	ug/kg	J
	Naphthalene trimethyl	13.23	5300	ug/kg	J
	Naphthalene trimethyl	13.27	4700	ug/kg	J
	Naphthalene trimethyl	13.44	3900	ug/kg	J
	unknown	13.84	8600	ug/kg	J
	Biphenyl, -methyl-	13.92	25000	ug/kg	J
	Naphthalene, -(-propenyl)-	13.99	12000	ug/kg	J
	Dibenzofuran, -methyl-	14.12	21000	ug/kg	J
	unknown PAH substance	19.89	6200	ug/kg	J
	unknown PAH substance	20.02	4100	ug/kg	J
	unknown PAH substance	23.39	6600	ug/kg	J
	unknown PAH substance	23.63	12000	ug/kg	J
	Total TIC, Semi-Volatile		304400	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2G13994.D	1	10/25/06	JSE	10/14/06	OP25124	G2G574
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	7.8	ug/kg	
11104-28-2	Aroclor 1221	ND	41	25	ug/kg	
11141-16-5	Aroclor 1232	ND	41	22	ug/kg	
53469-21-9	Aroclor 1242	ND	41	13	ug/kg	
12672-29-6	Aroclor 1248	ND	41	14	ug/kg	
11097-69-1	Aroclor 1254	ND	41	20	ug/kg	
11096-82-5	Aroclor 1260	ND	41	8.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		37-140%
877-09-8	Tetrachloro-m-xylene	46%		37-140%
2051-24-3	Decachlorobiphenyl	75%		40-151%
2051-24-3	Decachlorobiphenyl	88%		40-151%

(a) Had TBA cleanup.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-09-2.0
Lab Sample ID: J43515-5
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 79.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	570	73	18	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Antimony [a]	174	7.3	2.8	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Arsenic [a]	1940	7.3	2.8	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Barium	293	24	0.37	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Beryllium [a]	0.073 U	1.8	0.073	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Cadmium [a]	10.1	1.8	0.37	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Calcium	14800	610	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Chromium [a]	1.6 U	3.7	1.6	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Cobalt	42.6	6.1	0.22	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Copper [a]	6170	9.2	0.84	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Iron [a]	257000	37	28	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Lead [a]	7730	7.3	1.2	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Magnesium	45.7 B	610	2.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Manganese	54.3	1.8	0.073	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Mercury	5.6	0.81	0.27	mg/kg	20	10/23/06	10/24/06	JW	SW846 7471A [2]	SW846 7471A [6]
Nickel	7.7	4.9	0.39	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Potassium	538 B	610	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Selenium [a]	13.5	7.3	2.9	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Silver [a]	24.3	3.7	0.81	mg/kg	3	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [5]
Sodium	41 U	1200	41	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Thallium [b]	26 U	31	26	mg/kg	25	10/21/06	10/27/06	ND	SW846 6010B [4]	SW846 3050B [5]
Vanadium	10.6	6.1	0.28	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [5]
Zinc	3820	2.4	0.36	mg/kg	1	10/21/06	10/26/06	ND	SW846 6010B [4]	SW846 3050B [5]

(1) Instrument QC Batch: MA18250
(2) Instrument QC Batch: MA18251
(3) Instrument QC Batch: MA18255
(4) Instrument QC Batch: MA18265
(5) Prep QC Batch: MP36433
(6) Prep QC Batch: MP36461

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 1311	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212522.D	1	10/19/06	MAH	10/17/06	GP35915	VL4563
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.0026		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		77-121%
17060-07-0	1,2-Dichloroethane-D4	87%		65-133%
2037-26-5	Toluene-D8	90%		80-117%
460-00-4	4-Bromofluorobenzene	98%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44796.D	1	10/30/06	NAP	10/27/06	OP25191	EM1497
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		12-76%
4165-62-2	Phenol-d5	24%		10-59%
118-79-6	2,4,6-Tribromophenol	98%		42-128%
4165-60-0	Nitrobenzene-d5	87%		30-122%
321-60-8	2-Fluorobiphenyl	94%		34-113%
1718-51-0	Terphenyl-d14	96%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-2.0		
Lab Sample ID:	J43515-5A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	79.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13951.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		27-140%
877-09-8	Tetrachloro-m-xylene	77%		27-140%
2051-24-3	Decachlorobiphenyl	98%		19-151%
2051-24-3	Decachlorobiphenyl	96%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-09-2.0
Lab Sample ID: J43515-5A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 79.3

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.52		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.015 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.0083		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	3.1		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0061 B		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-101106		
Lab Sample ID:	J43515-6	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	67.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118938.D	1	10/25/06	YL	10/12/06 10:00	n/a	VD4743
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.2 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1100	320	ug/kg	
71-43-2	Benzene	ND	110	53	ug/kg	
75-27-4	Bromodichloromethane	ND	560	51	ug/kg	
75-25-2	Bromoform	ND	560	48	ug/kg	
74-83-9	Bromomethane	ND	560	41	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1100	300	ug/kg	
75-15-0	Carbon disulfide	ND	560	61	ug/kg	
56-23-5	Carbon tetrachloride	ND	560	110	ug/kg	
108-90-7	Chlorobenzene	ND	560	48	ug/kg	
75-00-3	Chloroethane	ND	560	190	ug/kg	
67-66-3	Chloroform	ND	560	65	ug/kg	
74-87-3	Chloromethane	ND	560	51	ug/kg	
110-82-7	Cyclohexane	ND	560	140	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1100	240	ug/kg	
124-48-1	Dibromochloromethane	ND	560	61	ug/kg	
106-93-4	1,2-Dibromoethane	ND	110	63	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	560	51	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	560	54	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	560	51	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	560	88	ug/kg	
75-34-3	1,1-Dichloroethane	ND	560	53	ug/kg	
107-06-2	1,2-Dichloroethane	ND	110	60	ug/kg	
75-35-4	1,1-Dichloroethene	ND	560	76	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	560	75	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	560	76	ug/kg	
78-87-5	1,2-Dichloropropane	ND	560	62	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	560	46	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	560	44	ug/kg	
100-41-4	Ethylbenzene	ND	110	50	ug/kg	
76-13-1	Freon 113	ND	560	95	ug/kg	
591-78-6	2-Hexanone	ND	560	150	ug/kg	
98-82-8	Isopropylbenzene	ND	560	52	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-101106		
Lab Sample ID:	J43515-6	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	67.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	560	160	ug/kg	
108-87-2	Methylcyclohexane	ND	560	72	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	110	62	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	560	220	ug/kg	
75-09-2	Methylene chloride	ND	560	77	ug/kg	
100-42-5	Styrene	ND	560	36	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	560	64	ug/kg	
127-18-4	Tetrachloroethene	ND	560	92	ug/kg	
108-88-3	Toluene	ND	110	60	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	560	39	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	560	66	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	560	60	ug/kg	
79-01-6	Trichloroethene	ND	560	58	ug/kg	
75-69-4	Trichlorofluoromethane	ND	560	81	ug/kg	
75-01-4	Vinyl chloride	ND	560	72	ug/kg	
	m,p-Xylene	ND	220	98	ug/kg	
95-47-6	o-Xylene	ND	110	55	ug/kg	
1330-20-7	Xylene (total)	ND	220	55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-120%
17060-07-0	1,2-Dichloroethane-D4	113%		61-133%
2037-26-5	Toluene-D8	94%		75-123%
460-00-4	4-Bromofluorobenzene	97%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-101106		
Lab Sample ID:	J43515-6	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	67.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3290.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3308.D	10	10/25/06	OYA	10/16/06	OP25132	E3E117

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2	30.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1200	210	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1200	310	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1200	410	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1200	620	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4900	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4900	210	ug/kg	
95-48-7	2-Methylphenol	ND	1200	240	ug/kg	
	3&4-Methylphenol	ND	1200	350	ug/kg	
88-75-5	2-Nitrophenol	ND	1200	300	ug/kg	
100-02-7	4-Nitrophenol	ND	4900	330	ug/kg	
87-86-5	Pentachlorophenol	ND	4900	270	ug/kg	
108-95-2	Phenol	ND	1200	300	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1200	370	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1200	200	ug/kg	
83-32-9	Acenaphthene	27600 [a]	4900	1200	ug/kg	
208-96-8	Acenaphthylene	4460	490	99	ug/kg	
98-86-2	Acetophenone	ND	1200	150	ug/kg	
120-12-7	Anthracene	53800 [a]	4900	940	ug/kg	
1912-24-9	Atrazine	ND	1200	210	ug/kg	
56-55-3	Benzo(a)anthracene	63000 [a]	4900	1200	ug/kg	
50-32-8	Benzo(a)pyrene	49500 [a]	4900	850	ug/kg	
205-99-2	Benzo(b)fluoranthene	39700 [a]	4900	1100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	19000	490	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	33400 [a]	4900	1800	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	490	120	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	490	180	ug/kg	
92-52-4	1,1'-Biphenyl	3820	490	120	ug/kg	
100-52-7	Benzaldehyde	ND	1200	270	ug/kg	
91-58-7	2-Chloronaphthalene	ND	490	340	ug/kg	
106-47-8	4-Chloroaniline	ND	1200	150	ug/kg	
86-74-8	Carbazole	9400	490	99	ug/kg	
105-60-2	Caprolactam	ND	490	230	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101106
Lab Sample ID: J43515-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.9

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	60100 [a]	4900	900	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	490	160	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	490	120	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	490	180	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	490	110	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	490	280	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	490	280	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1200	230	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	8360	490	130	ug/kg	
132-64-9	Dibenzofuran	19500	490	110	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	490	160	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	490	210	ug/kg	
84-66-2	Diethyl phthalate	ND	490	100	ug/kg	
131-11-3	Dimethyl phthalate	ND	490	100	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	490	310	ug/kg	
206-44-0	Fluoranthene	160000 [a]	4900	860	ug/kg	
86-73-7	Fluorene	33000 [a]	4900	980	ug/kg	
118-74-1	Hexachlorobenzene	ND	490	140	ug/kg	
87-68-3	Hexachlorobutadiene	ND	490	160	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4900	180	ug/kg	
67-72-1	Hexachloroethane	ND	1200	120	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19700	490	150	ug/kg	
78-59-1	Isophorone	ND	490	120	ug/kg	
91-57-6	2-Methylnaphthalene	4040	490	160	ug/kg	
88-74-4	2-Nitroaniline	ND	1200	150	ug/kg	
99-09-2	3-Nitroaniline	ND	1200	190	ug/kg	
100-01-6	4-Nitroaniline	ND	1200	170	ug/kg	
91-20-3	Naphthalene	10300	490	140	ug/kg	
98-95-3	Nitrobenzene	ND	490	170	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	490	160	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1200	100	ug/kg	
85-01-8	Phenanthrene	162000 [a]	4900	1100	ug/kg	
129-00-0	Pyrene	132000 [a]	4900	840	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	85%	85%	33-105%
4165-62-2	Phenol-d5	82%	83%	34-110%
118-79-6	2,4,6-Tribromophenol	81%	62%	33-124%
4165-60-0	Nitrobenzene-d5	90%	101%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101106
Lab Sample ID: J43515-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.9

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	90%	97%	40-106%
1718-51-0	Terphenyl-d14	113%	101%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.48	100000	ug/kg	J
	system artifact/aldol-condensation	3.52	130000	ug/kg	J
	Benzene, ethenylmethyl-	5.57	3600	ug/kg	J
95	Indene	6.33	2900	ug/kg	JN
90-12-0	Naphthalene,1-methyl-	10.22	15000	ug/kg	J
	Naphthalene dimethyl	11.45	5900	ug/kg	J
	Naphthalene dimethyl	11.65	8100	ug/kg	J
	Naphthalene dimethyl	11.69	3900	ug/kg	J
	Naphthalene dimethyl	11.90	4000	ug/kg	J
	Naphthalene dimethyl	12.10	3300	ug/kg	J
	Naphthalene trimethyl	13.45	5100	ug/kg	J
	unknown	13.83	3600	ug/kg	J
	Biphenyl, -methyl-	13.90	8600	ug/kg	J
	Naphthalene, -(-propenyl)-	13.98	3600	ug/kg	J
	Dibenzofuran, -methyl-	14.11	7300	ug/kg	J
	unknown PAH substance	19.90	5100	ug/kg	J
	unknown PAH substance	20.02	2900	ug/kg	J
	unknown	21.70	3200	ug/kg	J
	unknown	22.45	6900	ug/kg	J
	unknown	23.03	60000	ug/kg	J
	unknown PAH substance	23.40	24000	ug/kg	J
	unknown	23.55	14000	ug/kg	J
	unknown PAH substance	23.65	24000	ug/kg	J
	unknown	24.03	100000	ug/kg	J
	Dibenzphenanthrene	25.28	8100	ug/kg	J
	unknown PAH substance	25.67	10000	ug/kg	J
	unknown PAH substance	26.19	12000	ug/kg	J
	Total TIC, Semi-Volatile		345100	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-101106		
Lab Sample ID:	J43515-6	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	67.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2G13995.D	1	10/25/06	JSE	10/14/06	OP25124	G2G574
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	49	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	49	30	ug/kg	
11141-16-5	Aroclor 1232	ND	49	27	ug/kg	
53469-21-9	Aroclor 1242	ND	49	16	ug/kg	
12672-29-6	Aroclor 1248	ND	49	17	ug/kg	
11097-69-1	Aroclor 1254	ND	49	23	ug/kg	
11096-82-5	Aroclor 1260	ND	49	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		37-140%
877-09-8	Tetrachloro-m-xylene	15% [b]		37-140%
2051-24-3	Decachlorobiphenyl	71%		40-151%
2051-24-3	Decachlorobiphenyl	71%		40-151%

(a) Had TBA cleanup.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101106
Lab Sample ID: J43515-6
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.9

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1500	57	6.8	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Antimony	7.5	2.9	1.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Arsenic	1110	2.9	1.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Barium	284	29	0.43	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.029 U	0.71	0.029	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.19 B	0.71	0.14	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Calcium	3170	710	13	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Chromium	6.3	1.4	0.63	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Cobalt	3.9 B	7.1	0.26	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Copper	1060	3.6	0.33	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Iron	47000	14	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Lead	713	2.9	0.46	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Magnesium	504 B	710	2.5	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Manganese	45.2	2.1	0.086	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Mercury	1.7	0.086	0.028	mg/kg	2	10/23/06	10/24/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	18.9	5.7	0.46	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Potassium	2600	710	13	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Selenium	5.0	2.9	1.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Silver	2.4	1.4	0.31	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Sodium	951 B	1400	48	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Thallium [a]	12 U	14	12	mg/kg	10	10/21/06	10/27/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	11.2	7.1	0.33	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Zinc	142	2.9	0.41	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18250
(2) Instrument QC Batch: MA18251
(3) Instrument QC Batch: MA18265
(4) Prep QC Batch: MP36433
(5) Prep QC Batch: MP36461

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: DUP-101106
Lab Sample ID: J43515-6
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.9

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	4.0	1.5	0.32	mg/kg	1	10/24/06 14:07	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	2.3 B	2.9		mg/kg	1	10/24/06 14:07	IJ	SW846 6010/7196A M
Redox Potential Vs H2	237			mv	1	10/23/06	JOO	ASTM D1498-76M
Solids, Percent	67.9			%	1	10/24/06	THS	EPA 160.3 M
pH	7.94			su	1	10/18/06	CD	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-101106		
Lab Sample ID:	J43515-6A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 1311	**Percent Solids:**	67.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212575.D	1	10/20/06	MAH	10/17/06	GP35915	VL4566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		77-121%
17060-07-0	1,2-Dichloroethane-D4	97%		65-133%
2037-26-5	Toluene-D8	94%		80-117%
460-00-4	4-Bromofluorobenzene	89%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-101106		
Lab Sample ID:	J43515-6A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	67.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44797.D	1	10/30/06	NAP	10/27/06	OP25191	EM1497
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		12-76%
4165-62-2	Phenol-d5	21%		10-59%
118-79-6	2,4,6-Tribromophenol	96%		42-128%
4165-60-0	Nitrobenzene-d5	85%		30-122%
321-60-8	2-Fluorobiphenyl	90%		34-113%
1718-51-0	Terphenyl-d14	96%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-101106		
Lab Sample ID:	J43515-6A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	67.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13952.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	52%		27-140%
877-09-8	Tetrachloro-m-xylene	56%		27-140%
2051-24-3	Decachlorobiphenyl	41%		19-151%
2051-24-3	Decachlorobiphenyl	41%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101106
Lab Sample ID: J43515-6A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.9

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.13		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.0050 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.00060 U		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.0048		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0030 U		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: DUP-101106
Lab Sample ID: J43515-6R
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 67.9

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.32 U	1.5	0.32	mg/kg	1	11/09/06 10:44	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118879.D	1	10/23/06	YL	10/12/06 10:00	n/a	VD4740
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.5 g	5.0 ml	20.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	4500	1300	ug/kg	
71-43-2	Benzene	25100	450	220	ug/kg	
75-27-4	Bromodichloromethane	ND	2300	210	ug/kg	
75-25-2	Bromoform	ND	2300	200	ug/kg	
74-83-9	Bromomethane	ND	2300	170	ug/kg	
78-93-3	2-Butanone (MEK)	ND	4500	1200	ug/kg	
75-15-0	Carbon disulfide	ND	2300	250	ug/kg	
56-23-5	Carbon tetrachloride	ND	2300	430	ug/kg	
108-90-7	Chlorobenzene	ND	2300	200	ug/kg	
75-00-3	Chloroethane	ND	2300	790	ug/kg	
67-66-3	Chloroform	ND	2300	260	ug/kg	
74-87-3	Chloromethane	ND	2300	210	ug/kg	
110-82-7	Cyclohexane	ND	2300	580	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4500	980	ug/kg	
124-48-1	Dibromochloromethane	ND	2300	250	ug/kg	
106-93-4	1,2-Dibromoethane	ND	450	260	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2300	210	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2300	220	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2300	210	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2300	360	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2300	220	ug/kg	
107-06-2	1,2-Dichloroethane	ND	450	250	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2300	310	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2300	310	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2300	310	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2300	250	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2300	190	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2300	180	ug/kg	
100-41-4	Ethylbenzene	24800	450	200	ug/kg	
76-13-1	Freon 113	ND	2300	390	ug/kg	
591-78-6	2-Hexanone	ND	2300	620	ug/kg	
98-82-8	Isopropylbenzene	2050	2300	210	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	2300	640	ug/kg	
108-87-2	Methylcyclohexane	ND	2300	290	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	450	250	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	2300	900	ug/kg	
75-09-2	Methylene chloride	ND	2300	310	ug/kg	
100-42-5	Styrene	41900	2300	150	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2300	260	ug/kg	
127-18-4	Tetrachloroethene	ND	2300	370	ug/kg	
108-88-3	Toluene	67000	450	250	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2300	160	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2300	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2300	240	ug/kg	
79-01-6	Trichloroethene	ND	2300	240	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2300	330	ug/kg	
75-01-4	Vinyl chloride	ND	2300	290	ug/kg	
	m,p-Xylene	91800	910	400	ug/kg	
95-47-6	o-Xylene	42700	450	220	ug/kg	
1330-20-7	Xylene (total)	134000	910	220	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-120%
17060-07-0	1,2-Dichloroethane-D4	103%		61-133%
2037-26-5	Toluene-D8	94%		75-123%
460-00-4	4-Bromofluorobenzene	99%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	15.88	23000	ug/kg	J
108-67-8	Benzene, 1,3,5-trimethyl-	15.97	21000	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	16.41	62000	ug/kg	JN
	1H-indene-dihydro-methyl	16.47	48000	ug/kg	J
	1H-indene-dihydro-methyl	16.54	16000	ug/kg	J
	C3 alkyl benzene	16.91	35000	ug/kg	J
496-11-7	Indane	17.16	50000	ug/kg	JN
95-13-6	Indene	17.41	140000	ug/kg	JN
	1H-indene-dihydro-methyl	17.76	24000	ug/kg	J
	C4 alkyl benzene	18.09	19000	ug/kg	J
	1H-indene-dihydro-methyl	18.22	20000	ug/kg	J
2177-47-1	2-Methylindene	18.70	56000	ug/kg	JN

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1000161-08-0	1,2-Butadiene, 3-phenyl-	18.83	59000	ug/kg	JN
91-20-3	Naphthalene	19.42	400000	ug/kg	JN
	Naphthalene methyl	20.78	40000	ug/kg	J
	Total TIC, Volatile		1013000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3291.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3313.D	10	10/25/06	OYA	10/16/06	OP25132	E3E117
Run #3	3E3309.D	50	10/25/06	OYA	10/16/06	OP25132	E3E117
Run #4	3E3324.D	100	10/26/06	OYA	10/16/06	OP25132	E3E118

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2	30.2 g	5.0 ml
Run #3	30.2 g	5.0 ml
Run #4	30.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1100	190	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	280	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	370	ug/kg	
105-67-9	2,4-Dimethylphenol	2250	1100	570	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4400	340	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4400	190	ug/kg	
95-48-7	2-Methylphenol	642	1100	220	ug/kg	J
	3&4-Methylphenol	1420	1100	320	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	270	ug/kg	
100-02-7	4-Nitrophenol	ND	4400	300	ug/kg	
87-86-5	Pentachlorophenol	ND	4400	250	ug/kg	
108-95-2	Phenol	ND	1100	270	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	330	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	190	ug/kg	
83-32-9	Acenaphthene	94000 [a]	4400	1100	ug/kg	
83-32-9	Acenaphthene	90900 [b]	22000	5600	ug/kg	
208-96-8	Acenaphthylene	100000 [b]	22000	4500	ug/kg	
208-96-8	Acenaphthylene	110000 [a]	4400	900	ug/kg	
98-86-2	Acetophenone	2110	1100	140	ug/kg	
120-12-7	Anthracene	123000 [b]	22000	4300	ug/kg	
120-12-7	Anthracene	133000 [a]	4400	860	ug/kg	
1912-24-9	Atrazine	ND	1100	190	ug/kg	
56-55-3	Benzo(a)anthracene	77500 [a]	4400	1100	ug/kg	
56-55-3	Benzo(a)anthracene	72600 [b]	22000	5300	ug/kg	
50-32-8	Benzo(a)pyrene	47800 [b]	22000	3800	ug/kg	
50-32-8	Benzo(a)pyrene	51300 [a]	4400	770	ug/kg	
205-99-2	Benzo(b)fluoranthene	30600 [b]	22000	5000	ug/kg	
205-99-2	Benzo(b)fluoranthene	34400 [a]	4400	1000	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-09-8.0
Lab Sample ID: J43515-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 74.9

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
191-24-2	Benzo(g,h,i)perylene	23900 [b]	22000	6000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20900	440	120	ug/kg	
207-08-9	Benzo(k)fluoranthene	26800 [a]	4400	1700	ug/kg	
207-08-9	Benzo(k)fluoranthene	26200 [b]	22000	8300	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	440	110	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	440	170	ug/kg	
92-52-4	1,1'-Biphenyl	63200 [a]	4400	1100	ug/kg	
92-52-4	1,1'-Biphenyl	58000 [b]	22000	5300	ug/kg	
100-52-7	Benzaldehyde	ND	1100	240	ug/kg	
91-58-7	2-Chloronaphthalene	ND	440	310	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	140	ug/kg	
86-74-8	Carbazole	14400	440	89	ug/kg	
105-60-2	Caprolactam	ND	440	210	ug/kg	
218-01-9	Chrysene	75500 [a]	4400	820	ug/kg	
218-01-9	Chrysene	69900 [b]	22000	4100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	440	140	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	440	110	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	440	170	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	440	100	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	440	260	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	440	250	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1100	210	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	8230	440	120	ug/kg	
132-64-9	Dibenzofuran	79800 [a]	4400	1000	ug/kg	
132-64-9	Dibenzofuran	76200 [b]	22000	5100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	440	140	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	440	190	ug/kg	
84-66-2	Diethyl phthalate	ND	440	95	ug/kg	
131-11-3	Dimethyl phthalate	ND	440	95	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	280	ug/kg	
206-44-0	Fluoranthene	186000 [b]	22000	3900	ug/kg	
206-44-0	Fluoranthene	201000 [a]	4400	780	ug/kg	
86-73-7	Fluorene	173000 [a]	4400	890	ug/kg	
86-73-7	Fluorene	164000 [b]	22000	4400	ug/kg	
118-74-1	Hexachlorobenzene	ND	440	130	ug/kg	
87-68-3	Hexachlorobutadiene	ND	440	150	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4400	160	ug/kg	
67-72-1	Hexachloroethane	ND	1100	110	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19400	440	140	ug/kg	
78-59-1	Isophorone	ND	440	110	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-09-8.0
Lab Sample ID: J43515-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 74.9

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
91-57-6	2-Methylnaphthalene	471000 [b]	22000	7200	ug/kg	
88-74-4	2-Nitroaniline	ND	1100	140	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	170	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	150	ug/kg	
91-20-3	Naphthalene	1300000 [c]	44000	12000	ug/kg	
98-95-3	Nitrobenzene	ND	440	150	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	440	140	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1100	91	ug/kg	
85-01-8	Phenanthrene	484000 [b]	22000	4900	ug/kg	
129-00-0	Pyrene	192000 [b]	22000	3800	ug/kg	
129-00-0	Pyrene	210000 [a]	4400	760	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	90%	75%	0% [d]	33-105%
4165-62-2	Phenol-d5	91%	66%	0% [d]	34-110%
118-79-6	2,4,6-Tribromophenol	75%	65%	0% [d]	33-124%
4165-60-0	Nitrobenzene-d5	91%	79%	0% [d]	26-113%
321-60-8	2-Fluorobiphenyl	92%	85%	0% [d]	40-106%
1718-51-0	Terphenyl-d14	128%	87%	0% [d]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.52	180000	ug/kg	J
	unknown	5.57	72000	ug/kg	J
	unknown	5.63	17000	ug/kg	J
	C3 alkyl benzene	6.00	18000	ug/kg	J
496	Indane	6.21	21000	ug/kg	JN
95	Indene	6.36	140000	ug/kg	JN
	Benzene, -ethenyl--dimethyl-	7.08	19000	ug/kg	J
	Naphthalene ethyl	11.33	38000	ug/kg	J
	Naphthalene dimethyl	11.71	150000	ug/kg	J
	Naphthalene dimethyl	11.76	58000	ug/kg	J
	Naphthalene, -ethenyl	11.81	34000	ug/kg	J
	Naphthalene dimethyl	11.96	58000	ug/kg	J
	unknown	12.49	36000	ug/kg	J
	Naphthalene trimethyl	12.73	19000	ug/kg	J
	Naphthalene trimethyl	13.00	26000	ug/kg	J
	Naphthalene trimethyl	13.07	26000	ug/kg	J
	Naphthalene trimethyl	13.26	28000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene trimethyl	13.30	22000	ug/kg	J
	unknown	13.50	56000	ug/kg	J
	unknown	13.65	27000	ug/kg	J
	unknown	13.87	18000	ug/kg	J
	unknown	13.96	40000	ug/kg	J
	unknown	14.13	32000	ug/kg	J
	unknown PAH substance	23.64	18000	ug/kg	J
	Total TIC, Semi-Volatile		973000	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Result is from Run# 4
(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13774.D	1	10/17/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	130	25	ug/kg	
11104-28-2	Aroclor 1221	ND	130	79	ug/kg	
11141-16-5	Aroclor 1232	ND	130	71	ug/kg	
53469-21-9	Aroclor 1242	ND	130	42	ug/kg	
12672-29-6	Aroclor 1248	ND	130	45	ug/kg	
11097-69-1	Aroclor 1254	ND	130	62	ug/kg	
11096-82-5	Aroclor 1260	ND	130	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		37-140%
877-09-8	Tetrachloro-m-xylene	56%		37-140%
2051-24-3	Decachlorobiphenyl	78%		40-151%
2051-24-3	Decachlorobiphenyl	77%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-09-8.0
Lab Sample ID: J43515-7
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 74.9

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7020	56	6.7	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Antimony	7.8	2.8	1.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Arsenic	498	2.8	1.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Barium	96.8	28	0.42	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.064 B	0.70	0.028	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Cadmium	12.3	0.70	0.14	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Calcium	2100	700	13	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Chromium	10.3	1.4	0.62	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Cobalt	34.3	7.0	0.25	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Copper	1980	3.5	0.32	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Iron	70000	14	11	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Lead	1310	2.8	0.45	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Magnesium	1500	700	2.4	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Manganese	72.2	2.1	0.084	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Mercury	3.5	0.79	0.26	mg/kg	20	10/23/06	10/24/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	12.3	5.6	0.45	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Potassium	1430	700	13	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Selenium	10.6	2.8	1.1	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Silver	3.4	1.4	0.31	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Sodium	291 B	1400	47	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Thallium [a]	12 U	14	12	mg/kg	10	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [4]
Vanadium	14.6	7.0	0.32	mg/kg	1	10/21/06	10/23/06	LH	SW846 6010B [1]	SW846 3050B [4]
Zinc	4830	28	4.1	mg/kg	10	10/21/06	10/25/06	WP	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA18250
(2) Instrument QC Batch: MA18251
(3) Instrument QC Batch: MA18255
(4) Prep QC Batch: MP36433
(5) Prep QC Batch: MP36461

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 1311	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212576.D	1	10/20/06	MAH	10/17/06	GP35915	VL4566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.255		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		77-121%
17060-07-0	1,2-Dichloroethane-D4	94%		65-133%
2037-26-5	Toluene-D8	90%		80-117%
460-00-4	4-Bromofluorobenzene	88%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M44798.D	1	10/30/06	NAP	10/27/06	OP25191	EM1497
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	0.0244		0.050	0.014	mg/l	J
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		12-76%
4165-62-2	Phenol-d5	29%		10-59%
118-79-6	2,4,6-Tribromophenol	97%		42-128%
4165-60-0	Nitrobenzene-d5	91%		30-122%
321-60-8	2-Fluorobiphenyl	96%		34-113%
1718-51-0	Terphenyl-d14	100%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL16-09-8.0		
Lab Sample ID:	J43515-7A	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	74.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13955.D	1	10/24/06	JSE	10/20/06	OP25172	G2G572
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		27-140%
877-09-8	Tetrachloro-m-xylene	80%		27-140%
2051-24-3	Decachlorobiphenyl	106%		19-151%
2051-24-3	Decachlorobiphenyl	104%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL16-09-8.0
Lab Sample ID: J43515-7A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 74.9

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	1.7		0.0080	0.0031	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Barium	0.027 B		1.0	0.0025	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Cadmium	0.037		0.0040	0.00060	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Lead	0.16		0.0030	0.0026	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Mercury	0.000080 U		0.00020	0.000080	mg/l	1	10/14/06	10/16/06	YL	SW846 7470A [1]
Selenium	0.0033 B		0.050	0.0030	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/16/06	10/26/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18206
(2) Instrument QC Batch: MA18261
(3) Prep QC Batch: MP36336
(4) Prep QC Batch: MP36353

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL14-09-1.0
Lab Sample ID: J43515-8
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 92.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13775.D	1	10/17/06	JSE	10/14/06	OP25122	G2G563
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	20	ug/kg	
11104-28-2	Aroclor 1221	ND	110	64	ug/kg	
11141-16-5	Aroclor 1232	ND	110	58	ug/kg	
53469-21-9	Aroclor 1242	ND	110	34	ug/kg	
12672-29-6	Aroclor 1248	ND	110	37	ug/kg	
11097-69-1	Aroclor 1254	702	110	50	ug/kg	
11096-82-5	Aroclor 1260	ND	110	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		37-140%
877-09-8	Tetrachloro-m-xylene	71%		37-140%
2051-24-3	Decachlorobiphenyl	84%		40-151%
2051-24-3	Decachlorobiphenyl	76%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-09-5.0		
Lab Sample ID:	J43515-9	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	70.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118880.D	1	10/23/06	YL	10/12/06 10:00	n/a	VD4740
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.7 g	5.0 ml	5.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	17000	4800	ug/kg	
71-43-2	Benzene	23900	1700	810	ug/kg	
75-27-4	Bromodichloromethane	ND	8400	770	ug/kg	
75-25-2	Bromoform	ND	8400	730	ug/kg	
74-83-9	Bromomethane	ND	8400	620	ug/kg	
78-93-3	2-Butanone (MEK)	ND	17000	4600	ug/kg	
75-15-0	Carbon disulfide	ND	8400	930	ug/kg	
56-23-5	Carbon tetrachloride	ND	8400	1600	ug/kg	
108-90-7	Chlorobenzene	ND	8400	730	ug/kg	
75-00-3	Chloroethane	ND	8400	2900	ug/kg	
67-66-3	Chloroform	ND	8400	980	ug/kg	
74-87-3	Chloromethane	ND	8400	780	ug/kg	
110-82-7	Cyclohexane	ND	8400	2200	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	17000	3600	ug/kg	
124-48-1	Dibromochloromethane	ND	8400	920	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1700	950	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	8400	770	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	8400	820	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	8400	770	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	8400	1300	ug/kg	
75-34-3	1,1-Dichloroethane	ND	8400	810	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1700	910	ug/kg	
75-35-4	1,1-Dichloroethene	ND	8400	1200	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	8400	1100	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	8400	1100	ug/kg	
78-87-5	1,2-Dichloropropane	ND	8400	930	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	8400	700	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	8400	660	ug/kg	
100-41-4	Ethylbenzene	94200	1700	760	ug/kg	
76-13-1	Freon 113	ND	8400	1400	ug/kg	
591-78-6	2-Hexanone	ND	8400	2300	ug/kg	
98-82-8	Isopropylbenzene	21700	8400	780	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-09-5.0
Lab Sample ID: J43515-9
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 70.0

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	8400	2400	ug/kg	
108-87-2	Methylcyclohexane	ND	8400	1100	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1700	940	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	8400	3300	ug/kg	
75-09-2	Methylene chloride	ND	8400	1200	ug/kg	
100-42-5	Styrene	ND	8400	550	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	8400	970	ug/kg	
127-18-4	Tetrachloroethene	ND	8400	1400	ug/kg	
108-88-3	Toluene	57300	1700	910	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	8400	590	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	8400	1000	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	8400	900	ug/kg	
79-01-6	Trichloroethene	ND	8400	870	ug/kg	
75-69-4	Trichlorofluoromethane	ND	8400	1200	ug/kg	
75-01-4	Vinyl chloride	ND	8400	1100	ug/kg	
	m,p-Xylene	122000	3400	1500	ug/kg	
95-47-6	o-Xylene	55000	1700	830	ug/kg	
1330-20-7	Xylene (total)	177000	3400	830	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-120%
17060-07-0	1,2-Dichloroethane-D4	103%		61-133%
2037-26-5	Toluene-D8	94%		75-123%
460-00-4	4-Bromofluorobenzene	97%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	15.88	71000	ug/kg	J
	C3 alkyl benzene	15.92	24000	ug/kg	J
108-67-8	Benzene, 1,3,5-trimethyl-	15.98	36000	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	16.41	95000	ug/kg	JN
271-89-6	Benzofuran	16.75	34000	ug/kg	JN
	C3 alkyl benzene	16.91	41000	ug/kg	J
496-11-7	Indane	17.17	490000	ug/kg	JN
	1H-indene-dihydro-methyl	18.43	51000	ug/kg	J
	1H-indene-dihydro-methyl	18.63	25000	ug/kg	J
2177-47-1	2-Methylindene	18.71	42000	ug/kg	JN
1000161-08-0	1,2-Butadiene, 3-phenyl-	18.83	63000	ug/kg	JN
91-20-3	Naphthalene	19.42	1100000	ug/kg	JN

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-09-5.0		
Lab Sample ID:	J43515-9	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	70.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
270-82-6	Benzo[c]thiophene	19.56	37000	ug/kg	JN
	Naphthalene methyl	20.78	320000	ug/kg	J
4453-90-1	1,4-Methanonaphthalene, 1,4-dihydro-	21.05	190000	ug/kg	JN
	Total TIC, Volatile		2619000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-09-5.0		
Lab Sample ID:	J43515-9	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	70.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3292.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3315.D	10	10/25/06	OYA	10/16/06	OP25132	E3E117
Run #3	3E3325.D	100	10/26/06	OYA	10/16/06	OP25132	E3E118

	Initial Weight	Final Volume
Run #1	10.2 g	5.0 ml
Run #2	10.2 g	5.0 ml
Run #3	10.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	3500	600	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3500	890	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3500	1200	ug/kg	
105-67-9	2,4-Dimethylphenol	10700	3500	1800	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	14000	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	14000	610	ug/kg	
95-48-7	2-Methylphenol	ND	3500	690	ug/kg	
	3&4-Methylphenol	ND	3500	1000	ug/kg	
88-75-5	2-Nitrophenol	ND	3500	870	ug/kg	
100-02-7	4-Nitrophenol	ND	14000	950	ug/kg	
87-86-5	Pentachlorophenol	ND	14000	780	ug/kg	
108-95-2	Phenol	ND	3500	870	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3500	1100	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3500	590	ug/kg	
83-32-9	Acenaphthene	840000 [a]	140000	36000	ug/kg	
208-96-8	Acenaphthylene	53900	1400	280	ug/kg	
98-86-2	Acetophenone	ND	3500	440	ug/kg	
120-12-7	Anthracene	478000 [b]	14000	2700	ug/kg	
1912-24-9	Atrazine	ND	3500	610	ug/kg	
56-55-3	Benzo(a)anthracene	319000 [b]	14000	3400	ug/kg	
50-32-8	Benzo(a)pyrene	214000 [b]	14000	2400	ug/kg	
205-99-2	Benzo(b)fluoranthene	178000 [b]	14000	3200	ug/kg	
191-24-2	Benzo(g,h,i)perylene	114000 [b]	14000	3800	ug/kg	
207-08-9	Benzo(k)fluoranthene	129000 [b]	14000	5300	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	530	ug/kg	
92-52-4	1,1'-Biphenyl	255000 [b]	14000	3400	ug/kg	
100-52-7	Benzaldehyde	ND	3500	770	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	980	ug/kg	
106-47-8	4-Chloroaniline	ND	3500	430	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-09-5.0
Lab Sample ID: J43515-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 70.0

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	254000 [b]	14000	2800	ug/kg	
105-60-2	Caprolactam	ND	1400	670	ug/kg	
218-01-9	Chrysene	273000 [b]	14000	2600	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	450	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	350	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	520	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	330	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1400	810	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1400	800	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	3500	670	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38400	1400	370	ug/kg	
132-64-9	Dibenzofuran	569000 [b]	14000	3300	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	450	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	600	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	300	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	300	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	1470	1400	900	ug/kg	
206-44-0	Fluoranthene	1140000 [a]	140000	25000	ug/kg	
86-73-7	Fluorene	748000 [a]	140000	28000	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	460	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	14000	500	ug/kg	
67-72-1	Hexachloroethane	ND	3500	350	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	97400 [b]	14000	4400	ug/kg	
78-59-1	Isophorone	ND	1400	350	ug/kg	
91-57-6	2-Methylnaphthalene	1590000 [a]	140000	46000	ug/kg	
88-74-4	2-Nitroaniline	ND	3500	440	ug/kg	
99-09-2	3-Nitroaniline	ND	3500	540	ug/kg	
100-01-6	4-Nitroaniline	ND	3500	480	ug/kg	
91-20-3	Naphthalene	4770000 [a]	140000	39000	ug/kg	
98-95-3	Nitrobenzene	ND	1400	490	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	450	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	3500	290	ug/kg	
85-01-8	Phenanthrene	2230000 [a]	140000	31000	ug/kg	
129-00-0	Pyrene	826000 [a]	140000	24000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	101%	97%	0% [c]	33-105%
4165-62-2	Phenol-d5	100%	59%	0% [c]	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-09-5.0		
Lab Sample ID:	J43515-9	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	70.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	83%	73%	0% [c]	33-124%
4165-60-0	Nitrobenzene-d5	103%	98%	0% [c]	26-113%
321-60-8	2-Fluorobiphenyl	109% [c]	104%	0% [c]	40-106%
1718-51-0	Terphenyl-d14	148% [d]	103%	0% [c]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.47	110000	ug/kg	J
	system artifact/aldol-condensation	3.52	200000	ug/kg	J
	C3 alkyl benzene	5.57	48000	ug/kg	J
496	Indane	6.22	230000	ug/kg	JN
	Naphthalene ethyl	11.33	150000	ug/kg	J
	Naphthalene dimethyl	11.50	300000	ug/kg	J
	Naphthalene dimethyl	11.69	360000	ug/kg	J
	Naphthalene dimethyl	11.74	160000	ug/kg	J
	Naphthalene dimethyl	11.94	220000	ug/kg	J
	Naphthalene dimethyl	12.13	90000	ug/kg	J
	Naphthalene trimethyl	12.73	56000	ug/kg	J
	Naphthalene trimethyl	13.00	63000	ug/kg	J
	Naphthalene trimethyl	13.06	70000	ug/kg	J
	Naphthalene trimethyl	13.25	69000	ug/kg	J
	Naphthalene trimethyl	13.29	61000	ug/kg	J
	Naphthalene trimethyl	13.48	100000	ug/kg	J
	unknown	13.87	71000	ug/kg	J
	unknown	13.95	160000	ug/kg	J
	unknown	14.02	89000	ug/kg	J
	Dibenzofuran, -methyl-	14.15	120000	ug/kg	J
	unknown	23.04	92000	ug/kg	J
	unknown PAH substance	23.41	120000	ug/kg	J
	unknown PAH substance	23.65	86000	ug/kg	J
	unknown	24.04	98000	ug/kg	J
	unknown	24.46	260000	ug/kg	J
	unknown PAH substance	26.20	68000	ug/kg	J
	Total TIC, Semi-Volatile		3141000	ug/kg	J

(a) Result is from Run# 3
(b) Result is from Run# 2
(c) Outside control limits due to dilution.
(d) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-09-5.0
Lab Sample ID: J43515-9
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 70.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13825.D	1	10/19/06	JSE	10/14/06	OP25122	G2G565
Run #2							

	Initial Weight	Final Volume
Run #1	1.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	550	100	ug/kg	
11104-28-2	Aroclor 1221	ND	550	330	ug/kg	
11141-16-5	Aroclor 1232	ND	550	300	ug/kg	
53469-21-9	Aroclor 1242	ND	550	170	ug/kg	
12672-29-6	Aroclor 1248	ND	550	190	ug/kg	
11097-69-1	Aroclor 1254	ND	550	260	ug/kg	
11096-82-5	Aroclor 1260	ND	550	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	54%		37-140%
877-09-8	Tetrachloro-m-xylene	46%		37-140%
2051-24-3	Decachlorobiphenyl	78%		40-151%
2051-24-3	Decachlorobiphenyl	82%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-09-5.0
Lab Sample ID: J43515-9
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 70.0

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2810	29	7.0	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Antimony	1.1 U	2.9	1.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Arsenic	15.7	2.9	1.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Barium	42.7	29	0.44	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Beryllium	0.38 B	0.73	0.029	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Cadmium	0.15 U	0.73	0.15	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Calcium	42800	730	13	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Chromium	8.3	1.5	0.64	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Cobalt	5.6 B	7.3	0.26	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Copper	32.1	3.6	0.34	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Iron	11600	15	11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Lead	81.6	2.9	0.47	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Magnesium	2590	730	2.5	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Manganese	79.0	2.2	0.087	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.70	0.046	0.015	mg/kg	1	10/23/06	10/24/06	JW	SW846 7471A [1]	SW846 7471A [3]
Nickel	15.0	5.8	0.47	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Potassium	557 B	730	13	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Selenium	2.1 B	2.9	1.2	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Silver	0.32 U	1.5	0.32	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Sodium	327 B	1500	49	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Thallium	1.3 U	1.5	1.3	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Vanadium	54.5	7.3	0.34	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]
Zinc	65.0	2.9	0.42	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA18251
(2) Instrument QC Batch: MA18258
(3) Prep QC Batch: MP36461
(4) Prep QC Batch: MP36467

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL14-09-5.0
Lab Sample ID: J43515-9
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 70.0

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.31 U	1.4	0.31	mg/kg	1	10/24/06 14:07	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	8.3	2.9		mg/kg	1	10/26/06 06:06	ND	SW846 6010/7196A M
Redox Potential Vs H2	45.5			mv	1	10/23/06	JOO	ASTM D1498-76M
Solids, Percent	70			%	1	10/24/06	THS	EPA 160.3 M
pH	8.27			su	1	10/18/06	CD	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL14-09-5.0		
Lab Sample ID:	J43515-9R	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
		Percent Solids:	70.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.38 B	1.4	0.31	mg/kg	1	11/09/06 10:44	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL14-09-11		
Lab Sample ID:	J43515-10	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	64.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D118881.D	1	10/23/06	YL	10/12/06 10:00	n/a	VD4740
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.0 g	5.0 ml	5.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	19000	5300	ug/kg	
71-43-2	Benzene	92600	1900	890	ug/kg	
75-27-4	Bromodichloromethane	ND	9300	840	ug/kg	
75-25-2	Bromoform	ND	9300	800	ug/kg	
74-83-9	Bromomethane	ND	9300	680	ug/kg	
78-93-3	2-Butanone (MEK)	ND	19000	5100	ug/kg	
75-15-0	Carbon disulfide	ND	9300	1000	ug/kg	
56-23-5	Carbon tetrachloride	ND	9300	1800	ug/kg	
108-90-7	Chlorobenzene	ND	9300	800	ug/kg	
75-00-3	Chloroethane	ND	9300	3200	ug/kg	
67-66-3	Chloroform	ND	9300	1100	ug/kg	
74-87-3	Chloromethane	ND	9300	850	ug/kg	
110-82-7	Cyclohexane	ND	9300	2400	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	19000	4000	ug/kg	
124-48-1	Dibromochloromethane	ND	9300	1000	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1900	1000	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	9300	840	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	9300	900	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	9300	850	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	9300	1500	ug/kg	
75-34-3	1,1-Dichloroethane	ND	9300	890	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1900	1000	ug/kg	
75-35-4	1,1-Dichloroethene	ND	9300	1300	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	9300	1200	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	9300	1300	ug/kg	
78-87-5	1,2-Dichloropropane	ND	9300	1000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	9300	770	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	9300	730	ug/kg	
100-41-4	Ethylbenzene	138000	1900	830	ug/kg	
76-13-1	Freon 113	ND	9300	1600	ug/kg	
591-78-6	2-Hexanone	ND	9300	2500	ug/kg	
98-82-8	Isopropylbenzene	21800	9300	860	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-09-11
Lab Sample ID: J43515-10
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 64.3

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	9300	2600	ug/kg	
108-87-2	Methylcyclohexane	1520	9300	1200	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1900	1000	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	9300	3700	ug/kg	
75-09-2	Methylene chloride	ND	9300	1300	ug/kg	
100-42-5	Styrene	57000	9300	610	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	9300	1100	ug/kg	
127-18-4	Tetrachloroethene	ND	9300	1500	ug/kg	
108-88-3	Toluene	186000	1900	1000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	9300	650	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	9300	1100	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	9300	990	ug/kg	
79-01-6	Trichloroethene	ND	9300	960	ug/kg	
75-69-4	Trichlorofluoromethane	ND	9300	1300	ug/kg	
75-01-4	Vinyl chloride	ND	9300	1200	ug/kg	
	m,p-Xylene	241000	3700	1600	ug/kg	
95-47-6	o-Xylene	107000	1900	910	ug/kg	
1330-20-7	Xylene (total)	348000	3700	910	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-120%
17060-07-0	1,2-Dichloroethane-D4	102%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	98%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	15.89	130000	ug/kg	J
108-67-8	Benzene, 1,3,5-trimethyl-	15.98	67000	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	16.41	170000	ug/kg	JN
	1H-indene-dihydro-methyl	16.47	81000	ug/kg	J
271-89-6	Benzofuran	16.75	63000	ug/kg	JN
	C3 alkyl benzene	16.91	75000	ug/kg	J
496-11-7	Indane	17.17	390000	ug/kg	JN
95-13-6	Indene	17.40	390000	ug/kg	JN
	1H-indene-dihydro-methyl	17.78	54000	ug/kg	J
2177-47-1	2-Methylindene	18.70	120000	ug/kg	JN
767-59-9	1H-Indene, 1-methyl-	18.83	120000	ug/kg	JN
91-20-3	Naphthalene	19.43	1500000	ug/kg	JN

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-09-11		
Lab Sample ID:	J43515-10	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	64.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
270-82-6	Benzo[c]thiophene	19.56	59000	ug/kg	JN
	Naphthalene methyl	20.78	260000	ug/kg	J
	Naphthalene methyl	21.05	130000	ug/kg	J
	Total TIC, Volatile		3609000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-09-11		
Lab Sample ID:	J43515-10	**Date Sampled:**	10/11/06
Matrix:	SO - Soil	**Date Received:**	10/11/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	64.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3293.D	1	10/25/06	OYA	10/16/06	OP25132	E3E116
Run #2	3E3316.D	10	10/26/06	OYA	10/16/06	OP25132	E3E117
Run #3	3E3326.D	200	10/26/06	OYA	10/16/06	OP25132	E3E118

	Initial Weight	Final Volume
Run #1	10.2 g	5.0 ml
Run #2	10.2 g	5.0 ml
Run #3	10.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	3800	650	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3800	970	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3800	1300	ug/kg	
105-67-9	2,4-Dimethylphenol	113000 [a]	38000	20000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	15000	1200	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	15000	660	ug/kg	
95-48-7	2-Methylphenol	83200 [a]	38000	7500	ug/kg	
	3&4-Methylphenol	174000 [a]	38000	11000	ug/kg	
88-75-5	2-Nitrophenol	ND	3800	950	ug/kg	
100-02-7	4-Nitrophenol	ND	15000	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	15000	850	ug/kg	
108-95-2	Phenol	92700 [a]	38000	9500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3800	1100	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3800	640	ug/kg	
83-32-9	Acenaphthene	1380000 [b]	300000	78000	ug/kg	
208-96-8	Acenaphthylene	402000 [a]	15000	3100	ug/kg	
98-86-2	Acetophenone	16400	3800	480	ug/kg	
120-12-7	Anthracene	1050000 [b]	300000	59000	ug/kg	
1912-24-9	Atrazine	ND	3800	660	ug/kg	
56-55-3	Benzo(a)anthracene	686000 [a]	15000	3700	ug/kg	
50-32-8	Benzo(a)pyrene	434000 [a]	15000	2700	ug/kg	
205-99-2	Benzo(b)fluoranthene	346000 [a]	15000	3500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	191000 [a]	15000	4200	ug/kg	
207-08-9	Benzo(k)fluoranthene	262000 [a]	15000	5700	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	390	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	580	ug/kg	
92-52-4	1,1'-Biphenyl	537000 [a]	15000	3700	ug/kg	
100-52-7	Benzaldehyde	ND	3800	840	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	1100	ug/kg	
106-47-8	4-Chloroaniline	ND	3800	470	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-09-11
Lab Sample ID: J43515-10
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 64.3

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	447000 [a]	15000	3100	ug/kg	
105-60-2	Caprolactam	ND	1500	730	ug/kg	
218-01-9	Chrysene	596000 [a]	15000	2800	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	490	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	570	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1500	880	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1500	870	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	3800	730	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	71000	1500	400	ug/kg	
132-64-9	Dibenzofuran	1080000 [b]	300000	71000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	480	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	650	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	330	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	330	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	1980	1500	980	ug/kg	
206-44-0	Fluoranthene	2350000 [b]	300000	54000	ug/kg	
86-73-7	Fluorene	1530000 [b]	300000	61000	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	440	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	15000	550	ug/kg	
67-72-1	Hexachloroethane	ND	3800	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	170000 [a]	15000	4800	ug/kg	
78-59-1	Isophorone	ND	1500	380	ug/kg	
91-57-6	2-Methylnaphthalene	3160000 [b]	300000	99000	ug/kg	
88-74-4	2-Nitroaniline	ND	3800	480	ug/kg	
99-09-2	3-Nitroaniline	ND	3800	590	ug/kg	
100-01-6	4-Nitroaniline	ND	3800	530	ug/kg	
91-20-3	Naphthalene	10200000 [b]	300000	86000	ug/kg	
98-95-3	Nitrobenzene	ND	1500	530	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	490	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	3800	310	ug/kg	
85-01-8	Phenanthrene	4600000 [b]	300000	67000	ug/kg	
129-00-0	Pyrene	1700000 [b]	300000	53000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	108% [c]	82%	0% [c]	33-105%
4165-62-2	Phenol-d5	99%	75%	0% [c]	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-09-11
Lab Sample ID: J43515-10
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 64.3

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	62%	56%	0% [c]	33-124%
4165-60-0	Nitrobenzene-d5	136% [d]	91%	0% [c]	26-113%
321-60-8	2-Fluorobiphenyl	98%	96%	0% [c]	40-106%
1718-51-0	Terphenyl-d14	182% [d]	103%	0% [c]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.53	370000	ug/kg	J
	C3 alkyl benzene	5.10	95000	ug/kg	J
	C3 alkyl benzene	5.60	360000	ug/kg	J
	C3 alkyl benzene	6.01	97000	ug/kg	J
496	Indane	6.24	330000	ug/kg	JN
95	Indene	6.38	470000	ug/kg	JN
	alkane	7.11	120000	ug/kg	J
	alkane	11.34	120000	ug/kg	J
	Naphthalene ethyl	11.37	140000	ug/kg	J
	Naphthalene dimethyl	11.55	460000	ug/kg	J
	Naphthalene dimethyl	11.76	600000	ug/kg	J
	Naphthalene dimethyl	11.81	190000	ug/kg	J
	Naphthalene dimethyl	11.99	210000	ug/kg	J
	Naphthalene dimethyl	12.03	74000	ug/kg	J
	Naphthalene dimethyl	13.12	96000	ug/kg	J
	Naphthalene dimethyl	13.30	86000	ug/kg	J
	Naphthalene dimethyl	13.34	78000	ug/kg	J
	Naphthalene trimethyl	13.53	160000	ug/kg	J
	unknown	13.93	86000	ug/kg	J
	unknown	14.01	240000	ug/kg	J
	1,1'-Biphenyl, -methyl-	14.09	110000	ug/kg	J
	unknown	14.21	190000	ug/kg	J
	unknown PAH substance	18.89	160000	ug/kg	J
	unknown PAH substance	19.34	140000	ug/kg	J
	Total TIC, Semi-Volatile		4612000	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.
(d) Outside control limits due to dilution and matrix interference.

Report of Analysis

Client Sample ID: TL14-09-11
Lab Sample ID: J43515-10
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/11/06
Date Received: 10/11/06
Percent Solids: 64.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13826.D	1	10/19/06	JSE	10/14/06	OP25122	G2G565
Run #2							

	Initial Weight	Final Volume
Run #1	2.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	390	74	ug/kg	
11104-28-2	Aroclor 1221	ND	390	230	ug/kg	
11141-16-5	Aroclor 1232	ND	390	210	ug/kg	
53469-21-9	Aroclor 1242	ND	390	120	ug/kg	
12672-29-6	Aroclor 1248	ND	390	130	ug/kg	
11097-69-1	Aroclor 1254	ND	390	180	ug/kg	
11096-82-5	Aroclor 1260	ND	390	79	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		37-140%
877-09-8	Tetrachloro-m-xylene	73%		37-140%
2051-24-3	Decachlorobiphenyl	75%		40-151%
2051-24-3	Decachlorobiphenyl	83%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SME, SO

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

J43515

AESI Ref: 38999.20022
COC# 30116-101106-Soil

Sampling Co.: CH2M HILL
Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, [illegible], FL 32608
Invoice To: jennifer.simms@ch2m.com

Priv/Dged & Confidential
EDD To: amy.klopper@ch2m.com, john.mitchell@ch2m.com
Sampler: Austin Hareclerode
PO #
Analysis Turnaround Time (TAT): 10
Consultant: CH2M
Full Report TAT:

Site Name: Quanta Resources (Edgewater)
Location of Site: Edgewater, NJ
Phase:
Sampling Program: Quanta 2006 Groundwater ART

Lab Proj # (SDG):
Lab ID: ACTD
Site ID: Quanta
Lab Job #
Authorized User: Honeywell
Text & Excel File Drive: Excel & Text File Order

EX76, 1966, 14Aim 4011

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	Sample Identification			Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082	Cr6+ SW7196				Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						Units		9	1	1	10	1	1	7					
1	TL-16-06	0	2	TL-16-06-01.0 (AW)	10/11/06	0800	Soil	Soil	Reg	HOLD	C	N	X	X	X	X		X			-	1	Jen Cample
2	TL-16-06	23	25	TL-16-06-24	10/11/06	0830	Soil	Soil	Reg	5	C	N	X	X	X	X		X			-	2	Labeled TL-16-09-01
3	TL-16-07	0	2	TL-16-07-01.0 (AW)	10/11/06	1000	Soil	Soil	Reg	HOLD	C	N	X	X	X	X		X	X		-	3	@ 1300
4	TL-16-07	8	10	TL-16-07-09.0 (AW)	10/11/06	1030	Soil	Soil	Reg	2	C	N	X	X	X	X		X	X		-	4	DD 2x40ml recd
5	TL-16-09	1	3	TL-16-09-02.0 (AW)	10/11/06	1300	Soil	Soil	Reg	2	C	N	X	X	X	X		X			-	5	empty
6	—	—	—	DUP-101106	10/11/06	—	Soil	Soil	DUP	2	C	N	X	X	X	X		X	X		-	6	DD 1 EnC/Sample
7	TL-16-09	7	9	TL-16-09-08 (AW)	10/11/06	1315	Soil	Soil	Reg	2	C	N	X	X	X	X		X			-	7	10-11-06 DD
8	TL-14-09	0	2	TL-14-09-01.0 (AW)	10/11/06	1415	Soil	Soil	Reg	1	C	N				X					-	8	Hold-N-Y-HK-To proceed
9	TL-14-09	4	6	TL-14-09-5.0 DD	10/11/06	1430	Soil	Soil	Reg	3	C	N	X	X	X	X			X		-	9	J. SIMMS w/OUT
10	TL-14-09	10	12	TL-14-09-11	10/11/06	1445	Soil	Soil	Reg	2	C	N	X	X		X					-	10	TRIP BLANK + CORRECT ID
11	Trip Blank	—	—	TB-101106 DD	10/11/06	—	Aqueous	QC	TB	2	G	N	X								MBK		FOR SAMPLES = TL16-09-
12																							20 @ 1300 · MSB 10-12-06

SW6010 LL

* = Please run MS/MSD on this sample

See work order CW6010 - analyze for Arsenic (As) and Lead (Pb)

Relinquished by	Company	CH2M HILL	Received by	Company		Condition		Custody Seals Intact
Jennifer Simms	Date/Time	10/11/06/1600		Date/Time	10-11-06 1750	Cooler Temp.	3.6c, 3.0c	
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact
	Date/Time	10/11/06 1750		Date/Time	10/11/06 1750	Cooler Temp.		

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

IB

5.1 5

J43515: Chain of Custody
Page 1 of 3

Job Change Order: J43515_10/24/2006

Requested Date:	10/24/2006	**Received Date:**	10/11/2006
Account Name:	CH2M Hill	**Due Date:**	10/25/2006
Project Description:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	21

Sample #:
J43515-1A, 2A, 3A, 4A, 5A, 6A, 7A

Change: Cancel the individual Metals (23) and enter the Standard TCLP Metals list (8)

Above Changes Per: QAPP **Date:** 10/24/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

J43515: Chain of Custody
Page 2 of 3

Job Change Order: J43515_10/26/2006

Requested Date:	10/26/2006	**Received Date:**	10/11/2006
Account Name:	CH2M Hill	**Due Date:**	10/25/2006
Project Description:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	14

Sample #:
J43515-3,4,6,9

Change: Relog / redigest for XXCRAR

Above Changes Per: Lab **Date:** 10/26/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

J43515: Chain of Custody
Page 3 of 3

New Jersey ACCUTEST LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 ARI (SOIL) Edgewater, NJ

PO#917730 Quanta 2006 ARI

Accutest Job Number: J43625

Sampling Date: 10/12/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **71**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J43625

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730 Quanta 2006 ARI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J43625-1	10/12/06	08:00	AH	10/12/06	SO	Soil	TL17-06-4.0
J43625-1R	10/12/06	08:00	AH	10/12/06	SO	Soil	TL17-06-4.0
J43625-2	10/12/06	09:45	AH	10/12/06	SO	Soil	TL17-07-11
J43625-2R	10/12/06	09:45	AH	10/12/06	SO	Soil	TL17-07-11
J43625-3	10/12/06	11:00	AH	10/12/06	SO	Soil	TL17-08-1.0
J43625-3A	10/12/06	11:00	AH	10/12/06	SO	Soil	TL17-08-1.0
J43625-3AD	10/12/06	11:00	AH	10/12/06	SO	Soil Dup/MSD	TL17-08-1.0
J43625-3AS	10/12/06	11:00	AH	10/12/06	SO	Soil Matrix Spike	TL17-08-1.0
J43625-3D	10/12/06	11:00	AH	10/12/06	SO	Soil Dup/MSD	TL17-08-1.0
J43625-3R	10/12/06	11:00	AH	10/12/06	SO	Soil	TL17-08-1.0
J43625-3RD	10/12/06	11:00	AH	10/12/06	SO	Soil Dup/MSD	TL17-08-1.0
J43625-3RS	10/12/06	11:00	AH	10/12/06	SO	Soil Matrix Spike	TL17-08-1.0
J43625-3S	10/12/06	11:00	AH	10/12/06	SO	Soil Matrix Spike	TL17-08-1.0

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

CH2M Hill

Job No: J43625

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730 Quanta 2006 ARI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J43625-4	10/12/06	11:10	AH	10/12/06	SO	Soil	TL17-08-4.0
J43625-4A	10/12/06	11:10	AH	10/12/06	SO	Soil	TL17-08-4.0
J43625-4R	10/12/06	11:10	AH	10/12/06	SO	Soil	TL17-08-4.0
J43625-5	10/12/06	13:30	AH	10/12/06	SO	Soil	SB-20-6.0
J43625-6	10/12/06	14:00	AH	10/12/06	SO	Soil	SB-20-19.5
J43625-7	10/12/06	14:45	AH	10/12/06	SO	Soil	SB-19-1.0
J43625-8	10/12/06	15:00	AH	10/12/06	SO	Soil	SB-19-5.0
J43625-9	10/12/06	15:00	AH	10/12/06	AQ	Trip Blank Soil	TB-101206

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J43625
Site:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Report Date**	11/14/2006 6:30:08 PM

8 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 10/12/2006 and were received at Accutest on 10/12/2006 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of J43625. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** V3A1260

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43799-2MS, J43799-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix LEACHATE **Batch ID:** GP35977

- Sample(s) J43625-3ALS were used as the QC samples indicated.

Matrix SO **Batch ID:** V1C1237

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3MS, J43625-3MSD were used as the QC samples indicated.

Matrix SO **Batch ID:** V1C1241

- All samples were analyzed within the recommended method holding time.
- Sample(s) J43984-3MS, J43984-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- J43625-8: Diluted due to high concentration of non-target compound.

Extractables by GCMS By Method SW846 8270C

Matrix LEACHATE **Batch ID:** OP25171

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3AMS, J43625-3AMSD were used as the QC samples indicated.

Matrix SO **Batch ID:** OP25177

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43625-3MS, J43625-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 2-Methylnaphthalene are outside control limits. Outside of in house control limits.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 2-Nitroaniline, 3&4-Methylphenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-o-cresol, 4-Nitroaniline, 4-Nitrophenol, Diethyl phthalate, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Methylphenol, 2-Nitroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-o-cresol, 4-Nitroaniline, 4-Nitrophenol, Acetophenone, Benzo(g,h,i)perylene, bis(2-Ethylhexyl)phthalate, Caprolactam, Hexachlorocyclopentadiene, 2-Chloronaphthalene, 3&4-Methylphenol, 4-Chlorophenyl phenyl ether, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Diethyl phthalate, Dimethyl phthalate, Phenol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 1,1'-Biphenyl, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Naphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Chloronaphthalene, 2-Chlorophenol, 3&4-Methylphenol, 4-Bromophenyl phenyl ether, 4-Chloro-3-methyl phenol, 4-Chlorophenyl phenyl ether, Acenaphthene, Acenaphthylene, Atrazine, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Di-n-butyl phthalate, Diethyl phthalate, Dimethyl phthalate, Hexachlorobenzene, N-Nitrosodiphenylamine, Pentachlorophenol, Phenol are outside control limits for sample OP25177-MSD. Outside control limits due to matrix interference.
- Sample(s) J43625-3, J43625-7, J43625-8, J43625-3 have surrogates outside control limits. Probable cause due to matrix interference.
- J43625-3 for Terphenyl-d14: Outside control limits due to dilution.
- J43625-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43625-3 for 2-Fluorophenol: Outside control limits due to dilution.
- J43625-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43625-3 for Phenol-d5: Outside control limits due to dilution.
- J43625-7 for Terphenyl-d14: Outside control limits due to dilution.
- J43625-8 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43625-8 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43625-8 for 2-Fluorophenol: Outside control limits due to dilution.
- J43625-8 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43625-8 for Phenol-d5: Outside control limits due to dilution.
- J43625-8 for Terphenyl-d14: Outside control limits due to dilution.
- J43625-8 for Terphenyl-d14: Outside control limits due to dilution and matrix interference.
- J43625-3 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43625-7 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43625-7 for 2-Fluorobiphenyl: Outside control limits due to dilution and matrix interference.
- J43625-3 for Terphenyl-d14: Outside control limits due to dilution and matrix interference.
- J43625-3 for 2-Fluorobiphenyl: Outside control limits due to dilution and matrix interference.

Extractables by GCMS By Method SW846 8270C

Matrix SO **Batch ID:** OP25177

- J43625-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution and matrix interference.
- J43625-7 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43625-7 for Nitrobenzene-d5: Outside control limits due to dilution and matrix interference.
- J43625-7 for 2-Fluorophenol: Outside control limits due to dilution.
- J43625-7 for Nitrobenzene-d5: Outside control limits due to dilution.
- RPD(s) for MSD for 1,1'-Biphenyl, 2-Methylnaphthalene, Benzo(a)pyrene, Benzo(k)fluoranthene, Chrysene, Dibenzofuran, Fluorene, Indeno(1,2,3-cd)pyrene are outside control limits for sample OP25177-MSD. Outside control limits due to high level in sample relative to spike amount.
- J43625-7 for Phenol-d5: Outside control limits due to dilution.

Extractables by GC By Method SW846 8082

Matrix LEACHATE **Batch ID:** OP25172

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43515-3ALS, J43625-3AMS, J43625-3AMSD, OP25172-MSMSD were used as the QC samples indicated.
- J43625-3A for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- OP25172-MS for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Matrix SO **Batch ID:** OP25141

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3MS, J43625-3MSD, OP25141-MSMSD were used as the QC samples indicated.
- Sample(s) J43625-3, J43625-3A, OP25141-MS, OP25141-MSD, OP25172-MS have surrogates outside control limits. Probable cause due to matrix interference.
- OP25141-MS for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- J43625-3 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- OP25141-MSD for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- OP25141-MS for Decachlorobiphenyl: Outside control limits due to matrix interference.

Metals By Method SW846 6010B

Matrix	LEACHATE	Batch ID:	MP36386

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3AMS, J43625-3AMSD, J43625-3ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Barium are outside control limits for sample MP36386-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix	SO	Batch ID:	MP36467

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3MS, J43625-3MSD, J43625-3SDL were used as the QC samples for metals.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Antimony, Arsenic, Barium, Cadmium, Chromium, Magnesium, Manganese, Silver, Potassium, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Calcium, Copper, Iron, Lead are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Calcium, Copper, Magnesium are outside control limits for sample MP36467-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Beryllium, Sodium, Thallium are outside control limits for sample MP36467-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- J43625-4 for Zinc: Elevated detection limit due to dilution required for high interfering element.
- J43625-4 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- J43625-1 for Thallium: Elevated detection limit due to dilution required for matrix interference.
- J43625-2 for Thallium: Elevated detection limit due to dilution required for matrix interference.
- RPD(s) for Serial Dilution for Cadmium, Zinc are outside control limits for MP36467-SD1. Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix	LEACHATE	Batch ID:	MP36381

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3AMS, J43625-3AMSD were used as the QC samples for metals.

Metals By Method SW846 7471A

Matrix	SO	Batch ID:	MP36493

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3MSD, J43625-3MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Mercury are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method ASTM 4643-00

Matrix SO **Batch ID:** GN96583

- The data for ASTM 4643-00 meets quality control requirements.

Wet Chemistry By Method ASTM D1498-76M

Matrix SO **Batch ID:** GN96446

- Sample(s) J43625-3DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method EPA 160.3 M

Matrix SO **Batch ID:** GN96567

- The data for EPA 160.3 M meets quality control requirements.

Wet Chemistry By Method SW846 3060A/NJ7196A

Matrix SO **Batch ID:** GP36046

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3DUP, J43625-3MS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (92_%) on this sample.
- GP36046-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Matrix SO **Batch ID:** GP36293

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43625-3RDUP, J43625-3RMS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (85.1) on this sample.
- GP36293-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 6010/7196A M

Matrix SO **Batch ID:** R59675

- The data for SW846 6010/7196A M meets quality control requirements.
- J43625-3 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix SO **Batch ID:** R59676

- The data for SW846 6010/7196A M meets quality control requirements.
- J43625-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix SO **Batch ID:** R59677

- The data for SW846 6010/7196A M meets quality control requirements.
- J43625-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix SO **Batch ID:** R59678

- The data for SW846 6010/7196A M meets quality control requirements.
- J43625-4 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Wet Chemistry By Method SW846 9045D

Matrix	SO	Batch ID:	GN96391

- Sample(s) J43625-3DUP were used as the QC samples for pH.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J43625).

Summary of Hits

Job Number: J43625
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/12/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J43625-1	**TL17-06-4.0**					
Aluminum		5770	28	6.7	mg/kg	SW846 6010B
Antimony		77.0	2.8	1.1	mg/kg	SW846 6010B
Arsenic		922	2.8	1.1	mg/kg	SW846 6010B
Barium		135	28	0.42	mg/kg	SW846 6010B
Beryllium		0.28 B	0.70	0.028	mg/kg	SW846 6010B
Cadmium		2.7	0.70	0.14	mg/kg	SW846 6010B
Calcium		28600	700	13	mg/kg	SW846 6010B
Chromium		105	1.4	0.62	mg/kg	SW846 6010B
Cobalt		15.3	7.0	0.25	mg/kg	SW846 6010B
Copper		1530	3.5	0.32	mg/kg	SW846 6010B
Iron		73600	14	11	mg/kg	SW846 6010B
Lead		2840	2.8	0.45	mg/kg	SW846 6010B
Magnesium		643 B	700	2.4	mg/kg	SW846 6010B
Manganese		226	2.1	0.084	mg/kg	SW846 6010B
Mercury		6.3	0.90	0.30	mg/kg	SW846 7471A
Nickel		118	5.6	0.45	mg/kg	SW846 6010B
Potassium		1490	700	13	mg/kg	SW846 6010B
Selenium		11.5	2.8	1.1	mg/kg	SW846 6010B
Silver		0.36 B	1.4	0.31	mg/kg	SW846 6010B
Sodium		842 B	1400	47	mg/kg	SW846 6010B
Thallium [a]		30.2 B	35	30	mg/kg	SW846 6010B
Vanadium		54.1	7.0	0.32	mg/kg	SW846 6010B
Zinc		377	2.8	0.41	mg/kg	SW846 6010B
Chromium, Trivalent [b]		105	2.8		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		112			mv	ASTM D1498-76M
pH		9.07			su	SW846 9045D
J43625-1R	**TL17-06-4.0**					
Chromium, Hexavalent		0.38 B	1.4	0.31	mg/kg	SW846 3060A/NJ7196A
J43625-2	**TL17-07-11**					
Aluminum		1540	34	8.2	mg/kg	SW846 6010B
Antimony		21.1	3.4	1.3	mg/kg	SW846 6010B
Arsenic		5180	6.9	2.6	mg/kg	SW846 6010B
Barium		160	34	0.51	mg/kg	SW846 6010B
Beryllium		0.082 B	0.86	0.034	mg/kg	SW846 6010B
Cadmium		0.64 B	0.86	0.17	mg/kg	SW846 6010B
Calcium		47700	860	15	mg/kg	SW846 6010B
Chromium		7.7	1.7	0.76	mg/kg	SW846 6010B
Cobalt		34.0	8.6	0.31	mg/kg	SW846 6010B
Copper		4520	4.3	0.39	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43625
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/12/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Iron		24100	17	13	mg/kg	SW846 6010B
Lead		471	3.4	0.55	mg/kg	SW846 6010B
Magnesium		475 B	860	3.0	mg/kg	SW846 6010B
Manganese		40.9	2.6	0.10	mg/kg	SW846 6010B
Mercury		0.33	0.050	0.017	mg/kg	SW846 7471A
Nickel		6.2 B	6.9	0.55	mg/kg	SW846 6010B
Potassium		453 B	860	15	mg/kg	SW846 6010B
Selenium		2.5 B	3.4	1.4	mg/kg	SW846 6010B
Silver		0.51 B	1.7	0.38	mg/kg	SW846 6010B
Sodium		366 B	1700	58	mg/kg	SW846 6010B
Thallium [a]		84.2 B	86	74	mg/kg	SW846 6010B
Vanadium		8.6	8.6	0.39	mg/kg	SW846 6010B
Zinc		83.6	3.4	0.50	mg/kg	SW846 6010B
Chromium, Trivalent [b]		7.7	3.3		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		144			mv	ASTM D1498-76M
pH		7.51			su	SW846 9045D
J43625-2R	**TL17-07-11**					
No hits reported in this sample.						
J43625-3	**TL17-08-1.0**					
Toluene		64.4	58	32	ug/kg	SW846 8260B
m,p-Xylene		347	120	51	ug/kg	SW846 8260B
Xylene (total)		347	120	29	ug/kg	SW846 8260B
Total TIC, Volatile		370 J			ug/kg	
2-Methylphenol		195 J	930	180	ug/kg	SW846 8270C
Acenaphthene		189000	37000	9500	ug/kg	SW846 8270C
Acenaphthylene		16500	370	75	ug/kg	SW846 8270C
Anthracene		282000	37000	7200	ug/kg	SW846 8270C
Benzo(a)anthracene		315000	37000	9000	ug/kg	SW846 8270C
Benzo(a)pyrene		305000	37000	6500	ug/kg	SW846 8270C
Benzo(b)fluoranthene		318000	37000	8500	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		201000	37000	10000	ug/kg	SW846 8270C
Benzo(k)fluoranthene		221000	37000	14000	ug/kg	SW846 8270C
Butyl benzyl phthalate		1130	370	140	ug/kg	SW846 8270C
1,1'-Biphenyl		12900 J	37000	9000	ug/kg	SW846 8270C
Carbazole		99800	37000	7500	ug/kg	SW846 8270C
Chrysene		343000	37000	6900	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		62800	37000	9800	ug/kg	SW846 8270C
Dibenzofuran		122000	37000	8700	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		1640	370	240	ug/kg	SW846 8270C
Fluoranthene		855000	37000	6600	ug/kg	SW846 8270C
Fluorene		212000	37000	7500	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43625
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/12/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Indeno(1,2,3-cd)pyrene		179000	37000	12000	ug/kg	SW846 8270C
2-Methylnaphthalene		78100	37000	12000	ug/kg	SW846 8270C
Naphthalene		57900	37000	10000	ug/kg	SW846 8270C
Phenanthrene		764000	37000	8200	ug/kg	SW846 8270C
Pyrene		614000	37000	6400	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		46510 J			ug/kg	
Aluminum		7630	21	5.1	mg/kg	SW846 6010B
Antimony		10.5	2.1	0.81	mg/kg	SW846 6010B
Arsenic		108	2.1	0.81	mg/kg	SW846 6010B
Barium		247	21	0.32	mg/kg	SW846 6010B
Beryllium		0.26 B	0.54	0.021	mg/kg	SW846 6010B
Cadmium		3.3	0.54	0.11	mg/kg	SW846 6010B
Calcium		8930	540	9.6	mg/kg	SW846 6010B
Chromium		22.9	1.1	0.47	mg/kg	SW846 6010B
Cobalt		19.8	5.4	0.19	mg/kg	SW846 6010B
Copper		388	2.7	0.25	mg/kg	SW846 6010B
Iron		34400	11	8.1	mg/kg	SW846 6010B
Lead		1360	2.1	0.34	mg/kg	SW846 6010B
Magnesium		5370	540	1.9	mg/kg	SW846 6010B
Manganese		149	1.6	0.064	mg/kg	SW846 6010B
Mercury		2.0	0.34	0.11	mg/kg	SW846 7471A
Nickel		16.4	4.3	0.34	mg/kg	SW846 6010B
Potassium		1040	540	9.6	mg/kg	SW846 6010B
Selenium		12.8	2.1	0.85	mg/kg	SW846 6010B
Silver		2.8	1.1	0.24	mg/kg	SW846 6010B
Sodium		478 B	1100	36	mg/kg	SW846 6010B
Vanadium		45.7	5.4	0.25	mg/kg	SW846 6010B
Zinc		248	2.1	0.31	mg/kg	SW846 6010B
Chromium, Trivalent [b]		22.9	2.2		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		120			mv	ASTM D1498-76M
pH		11.50			su	SW846 9045D
J43625-3A	**TL17-08-1.0**					
Arsenic		0.064 B	0.50	0.0031	mg/l	SW846 6010B
Barium		0.0062 B	1.0	0.0025	mg/l	SW846 6010B
Mercury		0.000087 B	0.00020	0.000080	mg/l	SW846 7470A
Selenium		0.0059 B	0.50	0.0030	mg/l	SW846 6010B
J43625-3R	**TL17-08-1.0**					
No hits reported in this sample.						

Summary of Hits

Job Number: J43625
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/12/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J43625-4	**TL17-08-4.0**					
Total TIC, Volatile		320 J			ug/kg	
Acenaphthene		115	85	22	ug/kg	SW846 8270C
Acenaphthylene		28.2 J	85	17	ug/kg	SW846 8270C
Anthracene		327	85	16	ug/kg	SW846 8270C
Benzo(a)anthracene		905	85	21	ug/kg	SW846 8270C
Benzo(a)pyrene		723	85	15	ug/kg	SW846 8270C
Benzo(b)fluoranthene		847	85	19	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		398	85	23	ug/kg	SW846 8270C
Benzo(k)fluoranthene		634	85	32	ug/kg	SW846 8270C
1,1'-Biphenyl		35.9 J	85	21	ug/kg	SW846 8270C
Carbazole		94.3	85	17	ug/kg	SW846 8270C
Chrysene		998	85	16	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		167	85	22	ug/kg	SW846 8270C
Dibenzofuran		91.1	85	20	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		178	85	55	ug/kg	SW846 8270C
Fluoranthene		2110	85	15	ug/kg	SW846 8270C
Fluorene		145	85	17	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		361	85	27	ug/kg	SW846 8270C
2-Methylnaphthalene		176	85	28	ug/kg	SW846 8270C
Naphthalene		265	85	24	ug/kg	SW846 8270C
Phenanthrene		1470	85	19	ug/kg	SW846 8270C
Pyrene		1820	85	15	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		15340 J			ug/kg	
Aluminum		300	27	6.3	mg/kg	SW846 6010B
Antimony		205	2.7	1.0	mg/kg	SW846 6010B
Arsenic		1730	2.7	1.0	mg/kg	SW846 6010B
Barium		400	27	0.40	mg/kg	SW846 6010B
Cadmium		1.0	0.66	0.13	mg/kg	SW846 6010B
Calcium		264 B	660	12	mg/kg	SW846 6010B
Cobalt		69.6	6.6	0.24	mg/kg	SW846 6010B
Copper		2570	3.3	0.31	mg/kg	SW846 6010B
Iron		134000	27	20	mg/kg	SW846 6010B
Lead		38800	27	4.2	mg/kg	SW846 6010B
Magnesium		35.7 B	660	2.3	mg/kg	SW846 6010B
Manganese		27.7	2.0	0.080	mg/kg	SW846 6010B
Mercury		69.2	3.9	1.3	mg/kg	SW846 7471A
Nickel		2.4 B	5.3	0.42	mg/kg	SW846 6010B
Potassium		285 B	660	12	mg/kg	SW846 6010B
Selenium		302	2.7	1.0	mg/kg	SW846 6010B
Silver		25.7	1.3	0.29	mg/kg	SW846 6010B
Vanadium		2.0 B	6.6	0.31	mg/kg	SW846 6010B
Zinc [c]		1940	5.3	0.77	mg/kg	SW846 6010B
Redox Potential Vs H2		313			mv	ASTM D1498-76M

Summary of Hits

Job Number: J43625
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/12/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
pH		6.48			su	SW846 9045D
J43625-4A	**TL17-08-4.0**					
Benzene		0.00061 J	0.0010	0.00021	mg/l	SW846 8260B
Chloroform		0.0023	0.0010	0.00022	mg/l	SW846 8260B
Arsenic		0.39 B	0.50	0.0031	mg/l	SW846 6010B
Barium		0.11 B	1.0	0.0025	mg/l	SW846 6010B
Cadmium		0.0023 B	0.0050	0.00060	mg/l	SW846 6010B
Lead		11.5	0.50	0.0026	mg/l	SW846 6010B
Mercury		0.00024	0.00020	0.000080	mg/l	SW846 7470A
Selenium		0.0073 B	0.50	0.0030	mg/l	SW846 6010B
J43625-4R	**TL17-08-4.0**					
Chromium, Hexavalent		4.3	1.3	0.28	mg/kg	SW846 3060A/NJ7196A
J43625-5	**SB-20-6.0**					
Aluminum		4420	24	5.8	mg/kg	SW846 6010B
Arsenic		14.0	2.4	0.93	mg/kg	SW846 6010B
Barium		52.8	24	0.37	mg/kg	SW846 6010B
Beryllium		0.71	0.61	0.024	mg/kg	SW846 6010B
Cadmium		2.8	0.61	0.12	mg/kg	SW846 6010B
Calcium		10500	610	11	mg/kg	SW846 6010B
Chromium		32.1	1.2	0.54	mg/kg	SW846 6010B
Cobalt		11.3	6.1	0.22	mg/kg	SW846 6010B
Copper		141	3.1	0.28	mg/kg	SW846 6010B
Iron		76900	12	9.2	mg/kg	SW846 6010B
Lead		715	2.4	0.39	mg/kg	SW846 6010B
Magnesium		2350	610	2.1	mg/kg	SW846 6010B
Manganese		987	1.8	0.073	mg/kg	SW846 6010B
Mercury		0.098	0.036	0.012	mg/kg	SW846 7471A
Nickel		32.3	4.9	0.39	mg/kg	SW846 6010B
Potassium		345 B	610	11	mg/kg	SW846 6010B
Selenium		1.5 B	2.4	0.96	mg/kg	SW846 6010B
Sodium		113 B	1200	41	mg/kg	SW846 6010B
Vanadium		55.6	6.1	0.28	mg/kg	SW846 6010B
Zinc		218	2.4	0.35	mg/kg	SW846 6010B
J43625-6	**SB-20-19.5**					
Aluminum		4530	25	5.9	mg/kg	SW846 6010B
Arsenic		1.4 B	2.5	0.93	mg/kg	SW846 6010B
Barium		61.8	25	0.37	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43625
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/12/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Beryllium		0.27 B	0.61	0.025	mg/kg	SW846 6010B
Calcium		547 B	610	11	mg/kg	SW846 6010B
Chromium		7.0	1.2	0.54	mg/kg	SW846 6010B
Cobalt		3.6 B	6.1	0.22	mg/kg	SW846 6010B
Copper		9.3	3.1	0.28	mg/kg	SW846 6010B
Iron		8950	12	9.2	mg/kg	SW846 6010B
Lead		5.5	2.5	0.39	mg/kg	SW846 6010B
Magnesium		1910	610	2.1	mg/kg	SW846 6010B
Manganese		105	1.8	0.074	mg/kg	SW846 6010B
Nickel		8.7	4.9	0.39	mg/kg	SW846 6010B
Potassium		544 B	610	11	mg/kg	SW846 6010B
Sodium		174 B	1200	41	mg/kg	SW846 6010B
Vanadium		8.0	6.1	0.28	mg/kg	SW846 6010B
Zinc		21.8	2.5	0.36	mg/kg	SW846 6010B
J43625-7	**SB-19-1.0**					
Acenaphthene		53600	16000	4200	ug/kg	SW846 8270C
Acenaphthylene		3520	410	82	ug/kg	SW846 8270C
Anthracene		121000	16000	3100	ug/kg	SW846 8270C
Benzo(a)anthracene		127000	16000	3900	ug/kg	SW846 8270C
Benzo(a)pyrene		113000	16000	2800	ug/kg	SW846 8270C
Benzo(b)fluoranthene		89900	16000	3700	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		69100	16000	4500	ug/kg	SW846 8270C
Benzo(k)fluoranthene		76900	16000	6100	ug/kg	SW846 8270C
1,1'-Biphenyl		4590	410	98	ug/kg	SW846 8270C
Carbazole		25600	16000	3300	ug/kg	SW846 8270C
Chrysene		115000	16000	3000	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		20200	410	110	ug/kg	SW846 8270C
Dibenzofuran		38600	16000	3800	ug/kg	SW846 8270C
Fluoranthene		379000	16000	2900	ug/kg	SW846 8270C
Fluorene		60200	16000	3300	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		62700	16000	5200	ug/kg	SW846 8270C
2-Methylnaphthalene		4650	410	130	ug/kg	SW846 8270C
Naphthalene		17700	410	110	ug/kg	SW846 8270C
Phenanthrene		308000	16000	3600	ug/kg	SW846 8270C
Pyrene		295000	16000	2800	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		256000 J			ug/kg	
Aluminum		5560	24	5.6	mg/kg	SW846 6010B
Antimony		15.7	2.4	0.90	mg/kg	SW846 6010B
Arsenic		118	2.4	0.90	mg/kg	SW846 6010B
Barium		118	24	0.35	mg/kg	SW846 6010B
Beryllium		0.34 B	0.59	0.024	mg/kg	SW846 6010B
Calcium		19000	590	11	mg/kg	SW846 6010B
Chromium		18.3	1.2	0.52	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43625
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/12/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cobalt		16.9	5.9	0.21	mg/kg	SW846 6010B
Copper		138	3.0	0.27	mg/kg	SW846 6010B
Iron		22100	12	8.9	mg/kg	SW846 6010B
Lead		1960	2.4	0.38	mg/kg	SW846 6010B
Magnesium		1840	590	2.0	mg/kg	SW846 6010B
Manganese		117	1.8	0.071	mg/kg	SW846 6010B
Mercury		10	0.76	0.25	mg/kg	SW846 7471A
Nickel		17.7	4.7	0.38	mg/kg	SW846 6010B
Potassium		535 B	590	11	mg/kg	SW846 6010B
Selenium		28.3	2.4	0.93	mg/kg	SW846 6010B
Silver		0.67 B	1.2	0.26	mg/kg	SW846 6010B
Sodium		512 B	1200	40	mg/kg	SW846 6010B
Vanadium		31.8	5.9	0.27	mg/kg	SW846 6010B
Zinc		184	2.4	0.34	mg/kg	SW846 6010B
J43625-8	**SB-19-5.0**					
Benzene [d]		1940 J	3600	1700	ug/kg	SW846 8260B
Ethylbenzene [d]		29500	3600	1600	ug/kg	SW846 8260B
Isopropylbenzene [d]		19300	18000	1700	ug/kg	SW846 8260B
m,p-Xylene [d]		35200	7200	3200	ug/kg	SW846 8260B
o-Xylene [d]		23800	3600	1800	ug/kg	SW846 8260B
Xylene (total) [d]		58900	7200	1800	ug/kg	SW846 8260B
Total TIC, Volatile		1787000 J			ug/kg	
Acenaphthene		501000	79000	20000	ug/kg	SW846 8270C
Acenaphthylene		14800	4000	800	ug/kg	SW846 8270C
Anthracene		666000	79000	15000	ug/kg	SW846 8270C
Benzo(a)anthracene		567000	79000	19000	ug/kg	SW846 8270C
Benzo(a)pyrene		503000	79000	14000	ug/kg	SW846 8270C
Benzo(b)fluoranthene		431000	79000	18000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		185000	4000	1100	ug/kg	SW846 8270C
Benzo(k)fluoranthene		283000	79000	30000	ug/kg	SW846 8270C
1,1'-Biphenyl		66800	4000	950	ug/kg	SW846 8270C
Carbazole		174000	4000	800	ug/kg	SW846 8270C
Chrysene		517000	79000	15000	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		69400	4000	1000	ug/kg	SW846 8270C
Dibenzofuran		342000	79000	18000	ug/kg	SW846 8270C
Fluoranthene		1820000	79000	14000	ug/kg	SW846 8270C
Fluorene		518000	79000	16000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		175000	4000	1300	ug/kg	SW846 8270C
2-Methylnaphthalene		460000	79000	26000	ug/kg	SW846 8270C
Naphthalene		1690000	79000	22000	ug/kg	SW846 8270C
Phenanthrene		2420000	79000	17000	ug/kg	SW846 8270C
Pyrene		1400000	79000	14000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		1790000 J			ug/kg	

Summary of Hits

Job Number: J43625
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/12/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Aluminum		1150	23	5.4	mg/kg	SW846 6010B
Arsenic		4.0	2.3	0.86	mg/kg	SW846 6010B
Barium		20.5 B	23	0.34	mg/kg	SW846 6010B
Beryllium		0.13 B	0.57	0.023	mg/kg	SW846 6010B
Calcium		1840	570	10	mg/kg	SW846 6010B
Chromium		5.7	1.1	0.50	mg/kg	SW846 6010B
Cobalt		2.3 B	5.7	0.20	mg/kg	SW846 6010B
Copper		16.2	2.8	0.26	mg/kg	SW846 6010B
Iron		4790	11	8.6	mg/kg	SW846 6010B
Lead		70.4	2.3	0.36	mg/kg	SW846 6010B
Magnesium		192 B	570	2.0	mg/kg	SW846 6010B
Manganese		21.0	1.7	0.068	mg/kg	SW846 6010B
Mercury		0.22	0.035	0.011	mg/kg	SW846 7471A
Nickel		5.7	4.6	0.36	mg/kg	SW846 6010B
Potassium		154 B	570	10	mg/kg	SW846 6010B
Selenium		1.0 B	2.3	0.90	mg/kg	SW846 6010B
Sodium		203 B	1100	38	mg/kg	SW846 6010B
Vanadium		6.7	5.7	0.26	mg/kg	SW846 6010B
Zinc		39.5	2.3	0.33	mg/kg	SW846 6010B

J43625-9 **TB-101206**

No hits reported in this sample.

(a) Elevated detection limit due to dilution required for matrix interference.
(b) Calculated as: (Chromium) - (Chromium, Hexavalent)
(c) Elevated detection limit due to dilution required for high interfering element.
(d) Diluted due to high concentration of non-target compound.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TL17-06-4.0
Lab Sample ID: J43625-1
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 71.8

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5770	28	6.7	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Antimony	77.0	2.8	1.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Arsenic	922	2.8	1.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Barium	135	28	0.42	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Beryllium	0.28 B	0.70	0.028	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Cadmium	2.7	0.70	0.14	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [3]	SW846 3050B [5]
Calcium	28600	700	13	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Chromium	105	1.4	0.62	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Cobalt	15.3	7.0	0.25	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Copper	1530	3.5	0.32	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Iron	73600	14	11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [3]	SW846 3050B [5]
Lead	2840	2.8	0.45	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Magnesium	643 B	700	2.4	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Manganese	226	2.1	0.084	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Mercury	6.3	0.90	0.30	mg/kg	20	10/25/06	10/26/06	JW	SW846 7471A [2]	SW846 7471A [6]
Nickel	118	5.6	0.45	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Potassium	1490	700	13	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Selenium	11.5	2.8	1.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Silver	0.36 B	1.4	0.31	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Sodium	842 B	1400	47	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Thallium [a]	30.2 B	35	30	mg/kg	25	10/24/06	10/30/06	ND	SW846 6010B [4]	SW846 3050B [5]
Vanadium	54.1	7.0	0.32	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Zinc	377	2.8	0.41	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]

(1) Instrument QC Batch: MA18258
(2) Instrument QC Batch: MA18262
(3) Instrument QC Batch: MA18265
(4) Instrument QC Batch: MA18280
(5) Prep QC Batch: MP36467
(6) Prep QC Batch: MP36493

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL17-06-4.0
Lab Sample ID: J43625-1
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 71.8

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.31 U	1.4	0.31	mg/kg	1	10/26/06 16:28	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	105	2.8		mg/kg	1	10/26/06 16:28	IJ	SW846 6010/7196A M
Redox Potential Vs H2	112			mv	1	10/20/06	ST	ASTM D1498-76M
Solids, Percent	71.8			%	1	10/24/06	THS	EPA 160.3 M
pH	9.07			su	1	10/19/06	LMM	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL17-06-4.0		
Lab Sample ID:	J43625-1R	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
		Percent Solids:	71.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.38 B	1.4	0.31	mg/kg	1	11/10/06 10:17	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL17-07-11
Lab Sample ID: J43625-2
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 60.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1540	34	8.2	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Antimony	21.1	3.4	1.3	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Arsenic	5180	6.9	2.6	mg/kg	2	10/24/06	10/26/06	ND	SW846 6010B [3]	SW846 3050B [5]
Barium	160	34	0.51	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Beryllium	0.082 B	0.86	0.034	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Cadmium	0.64 B	0.86	0.17	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Calcium	47700	860	15	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Chromium	7.7	1.7	0.76	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Cobalt	34.0	8.6	0.31	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Copper	4520	4.3	0.39	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Iron	24100	17	13	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Lead	471	3.4	0.55	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Magnesium	475 B	860	3.0	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Manganese	40.9	2.6	0.10	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Mercury	0.33	0.050	0.017	mg/kg	1	10/25/06	10/26/06	JW	SW846 7471A [2]	SW846 7471A [6]
Nickel	6.2 B	6.9	0.55	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Potassium	453 B	860	15	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Selenium	2.5 B	3.4	1.4	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Silver	0.51 B	1.7	0.38	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Sodium	366 B	1700	58	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Thallium [a]	84.2 B	86	74	mg/kg	50	10/24/06	10/30/06	ND	SW846 6010B [4]	SW846 3050B [5]
Vanadium	8.6	8.6	0.39	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]
Zinc	83.6	3.4	0.50	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [5]

(1) Instrument QC Batch: MA18258
(2) Instrument QC Batch: MA18262
(3) Instrument QC Batch: MA18265
(4) Instrument QC Batch: MA18280
(5) Prep QC Batch: MP36467
(6) Prep QC Batch: MP36493

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL17-07-11
Lab Sample ID: J43625-2
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 60.7

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.36 U	1.6	0.36	mg/kg	1	10/26/06 16:28	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	7.7	3.3		mg/kg	1	10/26/06 16:28	IJ	SW846 6010/7196A M
Redox Potential Vs H2	144			mv	1	10/20/06	ST	ASTM D1498-76M
Solids, Percent	60.7			%	1	10/24/06	THS	EPA 160.3 M
pH	7.51			su	1	10/19/06	LMM	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL17-07-11		
Lab Sample ID:	J43625-2R	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
		Percent Solids:	60.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.36 U	1.6	0.36	mg/kg	1	11/10/06 10:17	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL17-08-1.0		
Lab Sample ID:	J43625-3	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	88.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C31510.D	1	10/21/06	HSS	10/13/06 08:00	n/a	V1C1237
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	580	170	ug/kg	
71-43-2	Benzene	ND	58	28	ug/kg	
75-27-4	Bromodichloromethane	ND	290	27	ug/kg	
75-25-2	Bromoform	ND	290	25	ug/kg	
74-83-9	Bromomethane	ND	290	22	ug/kg	
78-93-3	2-Butanone (MEK)	ND	580	160	ug/kg	
75-15-0	Carbon disulfide	ND	290	32	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	55	ug/kg	
108-90-7	Chlorobenzene	ND	290	25	ug/kg	
75-00-3	Chloroethane	ND	290	100	ug/kg	
67-66-3	Chloroform	ND	290	34	ug/kg	
74-87-3	Chloromethane	ND	290	27	ug/kg	
110-82-7	Cyclohexane	ND	290	75	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	580	130	ug/kg	
124-48-1	Dibromochloromethane	ND	290	32	ug/kg	
106-93-4	1,2-Dibromoethane	ND	58	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	290	27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	28	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	290	46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	290	28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	58	32	ug/kg	
75-35-4	1,1-Dichloroethene	ND	290	40	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	290	39	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	290	40	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	23	ug/kg	
100-41-4	Ethylbenzene	ND	58	26	ug/kg	
76-13-1	Freon 113	ND	290	50	ug/kg	
591-78-6	2-Hexanone	ND	290	79	ug/kg	
98-82-8	Isopropylbenzene	ND	290	27	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	290	82	ug/kg	
108-87-2	Methylcyclohexane	ND	290	38	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	58	33	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	290	120	ug/kg	
75-09-2	Methylene chloride	ND	290	40	ug/kg	
100-42-5	Styrene	ND	290	19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	33	ug/kg	
127-18-4	Tetrachloroethene	ND	290	48	ug/kg	
108-88-3	Toluene	64.4	58	32	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	35	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	31	ug/kg	
79-01-6	Trichloroethene	ND	290	30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	290	42	ug/kg	
75-01-4	Vinyl chloride	ND	290	38	ug/kg	
	m,p-Xylene	347	120	51	ug/kg	
95-47-6	o-Xylene	ND	58	29	ug/kg	
1330-20-7	Xylene (total)	347	120	29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-120%
17060-07-0	1,2-Dichloroethane-D4	106%		61-133%
2037-26-5	Toluene-D8	115%		75-123%
460-00-4	4-Bromofluorobenzene	113%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	21.02	370	ug/kg	JN
	Total TIC, Volatile		370	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P25552.D	1	10/26/06	MCR	10/19/06	OP25177	EP1012
Run #2	3E3347.D	100	10/27/06	OYA	10/19/06	OP25177	E3E119

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2	30.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	930	160	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	930	240	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	930	310	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	930	480	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3700	280	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3700	160	ug/kg	
95-48-7	2-Methylphenol	195	930	180	ug/kg	J
	3&4-Methylphenol	ND	930	270	ug/kg	
88-75-5	2-Nitrophenol	ND	930	230	ug/kg	
100-02-7	4-Nitrophenol	ND	3700	250	ug/kg	
87-86-5	Pentachlorophenol	ND	3700	210	ug/kg	
108-95-2	Phenol	ND	930	230	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	930	280	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	930	160	ug/kg	
83-32-9	Acenaphthene	189000 [a]	37000	9500	ug/kg	
208-96-8	Acenaphthylene	16500	370	75	ug/kg	
98-86-2	Acetophenone	ND	930	120	ug/kg	
120-12-7	Anthracene	282000 [a]	37000	7200	ug/kg	
1912-24-9	Atrazine	ND	930	160	ug/kg	
56-55-3	Benzo(a)anthracene	315000 [a]	37000	9000	ug/kg	
50-32-8	Benzo(a)pyrene	305000 [a]	37000	6500	ug/kg	
205-99-2	Benzo(b)fluoranthene	318000 [a]	37000	8500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	201000 [a]	37000	10000	ug/kg	
207-08-9	Benzo(k)fluoranthene	221000 [a]	37000	14000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	370	95	ug/kg	
85-68-7	Butyl benzyl phthalate	1130	370	140	ug/kg	
92-52-4	1,1'-Biphenyl	12900 [a]	37000	9000	ug/kg	J
100-52-7	Benzaldehyde	ND	930	200	ug/kg	
91-58-7	2-Chloronaphthalene	ND	370	260	ug/kg	
106-47-8	4-Chloroaniline	ND	930	120	ug/kg	
86-74-8	Carbazole	99800 [a]	37000	7500	ug/kg	
105-60-2	Caprolactam	ND	370	180	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	343000 [a]	37000	6900	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	370	120	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	370	93	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	370	140	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	370	88	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	370	220	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	370	210	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	930	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	62800 [a]	37000	9800	ug/kg	
132-64-9	Dibenzofuran	122000 [a]	37000	8700	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	160	ug/kg	
84-66-2	Diethyl phthalate	ND	370	80	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	80	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	1640	370	240	ug/kg	
206-44-0	Fluoranthene	855000 [a]	37000	6600	ug/kg	
86-73-7	Fluorene	212000 [a]	37000	7500	ug/kg	
118-74-1	Hexachlorobenzene	ND	370	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	370	120	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3700	130	ug/kg	
67-72-1	Hexachloroethane	ND	930	93	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	179000 [a]	37000	12000	ug/kg	
78-59-1	Isophorone	ND	370	92	ug/kg	
91-57-6	2-Methylnaphthalene	78100 [a]	37000	12000	ug/kg	
88-74-4	2-Nitroaniline	ND	930	120	ug/kg	
99-09-2	3-Nitroaniline	ND	930	140	ug/kg	
100-01-6	4-Nitroaniline	ND	930	130	ug/kg	
91-20-3	Naphthalene	57900 [a]	37000	10000	ug/kg	
98-95-3	Nitrobenzene	ND	370	130	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	370	120	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	930	77	ug/kg	
85-01-8	Phenanthrene	764000 [a]	37000	8200	ug/kg	
129-00-0	Pyrene	614000 [a]	37000	6400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%	0% [b]	33-105%
4165-62-2	Phenol-d5	71%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	214% [c]	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	108%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	128% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	3% [c]	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.37	7400	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	10.06	9300	ug/kg	JN
	Naphthalene dimethyl	11.28	1900	ug/kg	J
	Naphthalene dimethyl	11.48	2100	ug/kg	J
	Naphthalene dimethyl	11.52	1000	ug/kg	J
	1,1'-Biphenyl, -methyl-	13.73	1200	ug/kg	J
	Dibenzofuran, -methyl-	13.94	1200	ug/kg	J
	unknown	17.21	1200	ug/kg	J
	Pyrene methyl	19.80	3200	ug/kg	J
	Pyrene methyl	19.92	1900	ug/kg	J
84-15-1	Terphenyl	20.58	980	ug/kg	JN
	unknown PAH substance	21.00	1200	ug/kg	J
	unknown PAH substance	21.63	960	ug/kg	J
	unknown	21.79	1200	ug/kg	J
	unknown	21.88	1100	ug/kg	J
	Chrysene methyl	22.13	1400	ug/kg	J
	unknown	22.28	930	ug/kg	J
	unknown	22.73	1200	ug/kg	J
	unknown	22.98	940	ug/kg	J
	unknown PAH substance	23.36	1700	ug/kg	J
	unknown PAH substance	23.81	4000	ug/kg	J
	unknown	24.20	2000	ug/kg	J
	unknown PAH substance	25.22	2100	ug/kg	J
	unknown PAH substance	25.66	1000	ug/kg	J
	unknown PAH substance	25.74	1100	ug/kg	J
	unknown	26.85	1700	ug/kg	J
	Total TIC, Semi-Volatile		46510	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to dilution and matrix interference.

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60640.D	1	10/19/06	JSE	10/16/06	OP25141	GAB2738
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	21	ug/kg	
11104-28-2	Aroclor 1221	ND	110	66	ug/kg	
11141-16-5	Aroclor 1232	ND	110	60	ug/kg	
53469-21-9	Aroclor 1242	ND	110	35	ug/kg	
12672-29-6	Aroclor 1248	ND	110	38	ug/kg	
11097-69-1	Aroclor 1254	ND	110	52	ug/kg	
11096-82-5	Aroclor 1260	ND	110	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	657% [a]		37-140%
877-09-8	Tetrachloro-m-xylene	97%		37-140%
2051-24-3	Decachlorobiphenyl	82%		40-151%
2051-24-3	Decachlorobiphenyl	100%		40-151%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7630	21	5.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	10.5	2.1	0.81	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	108	2.1	0.81	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	247	21	0.32	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.26 B	0.54	0.021	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	3.3	0.54	0.11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	8930	540	9.6	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	22.9	1.1	0.47	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	19.8	5.4	0.19	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	388	2.7	0.25	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	34400	11	8.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	1360	2.1	0.34	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	5370	540	1.9	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	149	1.6	0.064	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	2.0	0.34	0.11	mg/kg	10	10/25/06	10/26/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	16.4	4.3	0.34	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	1040	540	9.6	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	12.8	2.1	0.85	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	2.8	1.1	0.24	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	478 B	1100	36	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	4.6 U	5.4	4.6	mg/kg	5	10/24/06	10/28/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	45.7	5.4	0.25	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	248	2.1	0.31	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18258
(2) Instrument QC Batch: MA18262
(3) Instrument QC Batch: MA18270
(4) Prep QC Batch: MP36467
(5) Prep QC Batch: MP36493

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.25 U	1.1	0.25	mg/kg	1	10/26/06 16:16	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	22.9	2.2		mg/kg	1	10/26/06 16:16	IJ	SW846 6010/7196A M
Redox Potential Vs H2	120			mv	1	10/20/06	ST	ASTM D1498-76M
Solids, Percent	88.9			%	1	10/24/06	THS	EPA 160.3 M
pH	11.50			su	1	10/19/06	LMM	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3A
Matrix: SO - Soil
Method: SW846 8260B SW846 1311
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212655.D	1	10/23/06	MAH	10/20/06	GP35977	VL4569
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND		0.0010	0.00021	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		77-121%
17060-07-0	1,2-Dichloroethane-D4	101%		65-133%
2037-26-5	Toluene-D8	93%		80-117%
460-00-4	4-Bromofluorobenzene	90%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3A
Matrix: SO - Soil
Method: SW846 8270C SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55712.D	1	10/25/06	OYA	10/18/06	OP25171	ER1964
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		12-76%
4165-62-2	Phenol-d5	33%		10-59%
118-79-6	2,4,6-Tribromophenol	75%		42-128%
4165-60-0	Nitrobenzene-d5	78%		30-122%
321-60-8	2-Fluorobiphenyl	77%		34-113%
1718-51-0	Terphenyl-d14	87%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3A
Matrix: SO - Soil
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60667.D	1	10/20/06	JSE	10/18/06	OP25172	GAB2739
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	159% [a]		27-140%
877-09-8	Tetrachloro-m-xylene	87%		27-140%
2051-24-3	Decachlorobiphenyl	63%		19-151%
2051-24-3	Decachlorobiphenyl	65%		19-151%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-1.0
Lab Sample ID: J43625-3A
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 88.9

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.064 B		0.50	0.0031	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Barium	0.0062 B		1.0	0.0025	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Cadmium	0.00060 U		0.0050	0.00060	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Lead	0.0026 U		0.50	0.0026	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Mercury	0.000087 B		0.00020	0.000080	mg/l	1	10/17/06	10/18/06	JW	SW846 7470A [1]
Selenium	0.0059 B		0.50	0.0030	mg/l	1	10/18/06	10/30/06	LH	SW846 6010B [3]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18220
(2) Instrument QC Batch: MA18279
(3) Instrument QC Batch: MA18287
(4) Prep QC Batch: MP36381
(5) Prep QC Batch: MP36386

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL17-08-1.0		
Lab Sample ID:	J43625-3R	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
		Percent Solids:	88.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.25 U	1.1	0.25	mg/kg	1	11/10/06 10:11	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C31509.D	1	10/21/06	HSS	10/13/06 08:00	n/a	V1C1237
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.3 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	580	170	ug/kg	
71-43-2	Benzene	ND	58	28	ug/kg	
75-27-4	Bromodichloromethane	ND	290	27	ug/kg	
75-25-2	Bromoform	ND	290	25	ug/kg	
74-83-9	Bromomethane	ND	290	22	ug/kg	
78-93-3	2-Butanone (MEK)	ND	580	160	ug/kg	
75-15-0	Carbon disulfide	ND	290	32	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	55	ug/kg	
108-90-7	Chlorobenzene	ND	290	25	ug/kg	
75-00-3	Chloroethane	ND	290	100	ug/kg	
67-66-3	Chloroform	ND	290	34	ug/kg	
74-87-3	Chloromethane	ND	290	27	ug/kg	
110-82-7	Cyclohexane	ND	290	75	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	580	130	ug/kg	
124-48-1	Dibromochloromethane	ND	290	32	ug/kg	
106-93-4	1,2-Dibromoethane	ND	58	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	290	27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	29	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	290	46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	290	28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	58	32	ug/kg	
75-35-4	1,1-Dichloroethene	ND	290	40	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	290	39	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	290	40	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	23	ug/kg	
100-41-4	Ethylbenzene	ND	58	26	ug/kg	
76-13-1	Freon 113	ND	290	50	ug/kg	
591-78-6	2-Hexanone	ND	290	79	ug/kg	
98-82-8	Isopropylbenzene	ND	290	27	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	290	82	ug/kg	
108-87-2	Methylcyclohexane	ND	290	38	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	58	33	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	290	120	ug/kg	
75-09-2	Methylene chloride	ND	290	40	ug/kg	
100-42-5	Styrene	ND	290	19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	34	ug/kg	
127-18-4	Tetrachloroethene	ND	290	48	ug/kg	
108-88-3	Toluene	ND	58	32	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	35	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	31	ug/kg	
79-01-6	Trichloroethene	ND	290	30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	290	43	ug/kg	
75-01-4	Vinyl chloride	ND	290	38	ug/kg	
	m,p-Xylene	ND	120	51	ug/kg	
95-47-6	o-Xylene	ND	58	29	ug/kg	
1330-20-7	Xylene (total)	ND	120	29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-120%
17060-07-0	1,2-Dichloroethane-D4	105%		61-133%
2037-26-5	Toluene-D8	117%		75-123%
460-00-4	4-Bromofluorobenzene	113%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	14.23	320	ug/kg	J
	Total TIC, Volatile		320	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3358.D	1	10/27/06	OYA	10/19/06	OP25177	E3E119
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	210	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	54	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	71	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	110	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	850	65	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	850	37	ug/kg	
95-48-7	2-Methylphenol	ND	210	42	ug/kg	
	3&4-Methylphenol	ND	210	61	ug/kg	
88-75-5	2-Nitrophenol	ND	210	53	ug/kg	
100-02-7	4-Nitrophenol	ND	850	58	ug/kg	
87-86-5	Pentachlorophenol	ND	850	48	ug/kg	
108-95-2	Phenol	ND	210	53	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	64	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	36	ug/kg	
83-32-9	Acenaphthene	115	85	22	ug/kg	
208-96-8	Acenaphthylene	28.2	85	17	ug/kg	J
98-86-2	Acetophenone	ND	210	27	ug/kg	
120-12-7	Anthracene	327	85	16	ug/kg	
1912-24-9	Atrazine	ND	210	37	ug/kg	
56-55-3	Benzo(a)anthracene	905	85	21	ug/kg	
50-32-8	Benzo(a)pyrene	723	85	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	847	85	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	398	85	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	634	85	32	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	85	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	85	32	ug/kg	
92-52-4	1,1'-Biphenyl	35.9	85	21	ug/kg	J
100-52-7	Benzaldehyde	ND	210	47	ug/kg	
91-58-7	2-Chloronaphthalene	ND	85	60	ug/kg	
106-47-8	4-Chloroaniline	ND	210	26	ug/kg	
86-74-8	Carbazole	94.3	85	17	ug/kg	
105-60-2	Caprolactam	ND	85	41	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-4.0
Lab Sample ID: J43625-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 77.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	998	85	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	85	27	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	85	21	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	85	32	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	85	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	85	49	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	85	49	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	41	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	167	85	22	ug/kg	
132-64-9	Dibenzofuran	91.1	85	20	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	85	27	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	85	36	ug/kg	
84-66-2	Diethyl phthalate	ND	85	18	ug/kg	
131-11-3	Dimethyl phthalate	ND	85	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	178	85	55	ug/kg	
206-44-0	Fluoranthene	2110	85	15	ug/kg	
86-73-7	Fluorene	145	85	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	85	25	ug/kg	
87-68-3	Hexachlorobutadiene	ND	85	28	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	850	31	ug/kg	
67-72-1	Hexachloroethane	ND	210	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	361	85	27	ug/kg	
78-59-1	Isophorone	ND	85	21	ug/kg	
91-57-6	2-Methylnaphthalene	176	85	28	ug/kg	
88-74-4	2-Nitroaniline	ND	210	27	ug/kg	
99-09-2	3-Nitroaniline	ND	210	33	ug/kg	
100-01-6	4-Nitroaniline	ND	210	29	ug/kg	
91-20-3	Naphthalene	265	85	24	ug/kg	
98-95-3	Nitrobenzene	ND	85	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	85	27	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	18	ug/kg	
85-01-8	Phenanthrene	1470	85	19	ug/kg	
129-00-0	Pyrene	1820	85	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		33-105%
4165-62-2	Phenol-d5	63%		34-110%
118-79-6	2,4,6-Tribromophenol	71%		33-124%
4165-60-0	Nitrobenzene-d5	71%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-4.0
Lab Sample ID: J43625-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 77.7

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	97%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.62	220000	ug/kg	J
	alkane	5.56	590	ug/kg	J
	alkane	7.32	470	ug/kg	J
	unknown	10.30	470	ug/kg	J
	unknown	10.54	570	ug/kg	J
	alkane	11.24	450	ug/kg	J
	Naphthalene, -dimethyl-	11.88	400	ug/kg	J
	unknown	12.66	490	ug/kg	J
	unknown	12.95	600	ug/kg	J
	unknown acid	13.24	540	ug/kg	J
	unknown	14.00	510	ug/kg	J
	unknown	14.08	550	ug/kg	J
	alkane	14.82	390	ug/kg	J
	alkane	14.89	390	ug/kg	J
	unknown	15.41	790	ug/kg	J
	alkane	16.91	580	ug/kg	J
	Anthracene, -methyl-	17.33	560	ug/kg	J
10544	Sulfur, mol. (S8)	18.56	2700	ug/kg	JN
	alkane	18.75	530	ug/kg	J
	unknown	19.40	430	ug/kg	J
	alkane	19.53	490	ug/kg	J
	alkane	20.23	490	ug/kg	J
	alkane	20.87	400	ug/kg	J
	alkane	21.66	530	ug/kg	J
	alkane	22.02	580	ug/kg	J
	unknown	22.20	840	ug/kg	J
	Total TIC, Semi-Volatile		15340	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60647.D	1	10/19/06	JSE	10/16/06	OP25141	GAB2739
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	43	8.1	ug/kg	
11104-28-2	Aroclor 1221	ND	43	26	ug/kg	
11141-16-5	Aroclor 1232	ND	43	23	ug/kg	
53469-21-9	Aroclor 1242	ND	43	14	ug/kg	
12672-29-6	Aroclor 1248	ND	43	15	ug/kg	
11097-69-1	Aroclor 1254	ND	43	20	ug/kg	
11096-82-5	Aroclor 1260	ND	43	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		37-140%
877-09-8	Tetrachloro-m-xylene	86%		37-140%
2051-24-3	Decachlorobiphenyl	87%		40-151%
2051-24-3	Decachlorobiphenyl	97%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL17-08-4.0
Lab Sample ID: J43625-4
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 77.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	300	27	6.3	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	205	2.7	1.0	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	1730	2.7	1.0	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	400	27	0.40	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.027 U	0.66	0.027	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	1.0	0.66	0.13	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	264 B	660	12	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	0.58 U	1.3	0.58	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	69.6	6.6	0.24	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	2570	3.3	0.31	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	134000	27	20	mg/kg	2	10/24/06	10/27/06	ND	SW846 6010B [3]	SW846 3050B [4]
Lead	38800	27	4.2	mg/kg	10	10/24/06	10/27/06	ND	SW846 6010B [3]	SW846 3050B [4]
Magnesium	35.7 B	660	2.3	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	27.7	2.0	0.080	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	69.2	3.9	1.3	mg/kg	100	10/25/06	10/26/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	2.4 B	5.3	0.42	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	285 B	660	12	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	302	2.7	1.0	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	25.7	1.3	0.29	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	45 U	1300	45	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium [a]	11 U	13	11	mg/kg	10	10/24/06	10/27/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	2.0 B	6.6	0.31	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc [a]	1940	5.3	0.77	mg/kg	2	10/24/06	10/27/06	ND	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA18258
(2) Instrument QC Batch: MA18262
(3) Instrument QC Batch: MA18265
(4) Prep QC Batch: MP36467
(5) Prep QC Batch: MP36493

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL17-08-4.0
Lab Sample ID: J43625-4
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 77.7

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.28 U	1.3	0.28	mg/kg	1	10/26/06 16:28	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	0.0 B	2.6		mg/kg	1	10/26/06 16:28	IJ	SW846 6010/7196A M
Redox Potential Vs H2	313			mv	1	10/20/06	ST	ASTM D1498-76M
Solids, Percent	77.7			%	1	10/24/06	THS	EPA 160.3 M
pH	6.48			su	1	10/19/06	LMM	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4A	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8260B SW846 1311	**Percent Solids:**	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L212657.D	1	10/23/06	MAH	10/20/06	GP35977	VL4569
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.00061		0.0010	0.00021	mg/l	J
78-93-3	2-Butanone (MEK)	ND		0.010	0.0026	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00022	mg/l	
67-66-3	Chloroform	0.0023		0.0010	0.00022	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00029	mg/l	
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethene	ND		0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND		0.0010	0.00029	mg/l	
75-01-4	Vinyl chloride	ND		0.0050	0.00029	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		77-121%
17060-07-0	1,2-Dichloroethane-D4	98%		65-133%
2037-26-5	Toluene-D8	91%		80-117%
460-00-4	4-Bromofluorobenzene	92%		79-124%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4A	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55732.D	1	10/26/06	OYA	10/18/06	OP25171	ER1964
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN SPLP Leachate **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND		0.050	0.014	mg/l	
	3&4-Methylphenol	ND		0.050	0.013	mg/l	
87-86-5	Pentachlorophenol	ND		0.20	0.019	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND		0.050	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND		0.050	0.013	mg/l	
106-46-7	1,4-Dichlorobenzene	ND		0.020	0.0018	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0086	mg/l	
118-74-1	Hexachlorobenzene	ND		0.020	0.0054	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.020	0.0018	mg/l	
67-72-1	Hexachloroethane	ND		0.050	0.0028	mg/l	
98-95-3	Nitrobenzene	ND		0.020	0.0042	mg/l	
110-86-1	Pyridine	ND		0.020	0.0064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		12-76%
4165-62-2	Phenol-d5	29%		10-59%
118-79-6	2,4,6-Tribromophenol	65%		42-128%
4165-60-0	Nitrobenzene-d5	73%		30-122%
321-60-8	2-Fluorobiphenyl	71%		34-113%
1718-51-0	Terphenyl-d14	81%		42-125%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4A	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60668.D	1	10/20/06	JSE	10/18/06	OP25172	GAB2739
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

PCB List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND		0.0050	0.0015	mg/l	
11104-28-2	Aroclor 1221	ND		0.0050	0.0020	mg/l	
11141-16-5	Aroclor 1232	ND		0.0050	0.0019	mg/l	
53469-21-9	Aroclor 1242	ND		0.0050	0.00060	mg/l	
12672-29-6	Aroclor 1248	ND		0.0050	0.00064	mg/l	
11097-69-1	Aroclor 1254	ND		0.0050	0.00096	mg/l	
11096-82-5	Aroclor 1260	ND		0.0050	0.00061	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		27-140%
877-09-8	Tetrachloro-m-xylene	92%		27-140%
2051-24-3	Decachlorobiphenyl	73%		19-151%
2051-24-3	Decachlorobiphenyl	75%		19-151%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4A	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
		Percent Solids:	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.39 B		0.50	0.0031	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Barium	0.11 B		1.0	0.0025	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Cadmium	0.0023 B		0.0050	0.00060	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Chromium	0.0016 U		0.010	0.0016	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Lead	11.5		0.50	0.0026	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]
Mercury	0.00024		0.00020	0.000080	mg/l	1	10/17/06	10/18/06	JW	SW846 7470A [1]
Selenium	0.0073 B		0.50	0.0030	mg/l	1	10/18/06	10/30/06	LH	SW846 6010B [3]
Silver	0.0019 U		0.010	0.0019	mg/l	1	10/18/06	10/30/06	ND	SW846 6010B [2]

(1) Instrument QC Batch: MA18220
(2) Instrument QC Batch: MA18279
(3) Instrument QC Batch: MA18287
(4) Prep QC Batch: MP36381
(5) Prep QC Batch: MP36386

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL17-08-4.0		
Lab Sample ID:	J43625-4R	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
		Percent Solids:	77.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	4.3	1.3	0.28	mg/kg	1	11/10/06 10:17	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SB-20-6.0
Lab Sample ID: J43625-5
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 85.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4420	24	5.8	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.93 U	2.4	0.93	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	14.0	2.4	0.93	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	52.8	24	0.37	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.71	0.61	0.024	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	2.8	0.61	0.12	mg/kg	1	10/24/06	10/27/06	ND	SW846 6010B [3]	SW846 3050B [4]
Calcium	10500	610	11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	32.1	1.2	0.54	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	11.3	6.1	0.22	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	141	3.1	0.28	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	76900	12	9.2	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	715	2.4	0.39	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	2350	610	2.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	987	1.8	0.073	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.098	0.036	0.012	mg/kg	1	10/25/06	10/26/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	32.3	4.9	0.39	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	345 B	610	11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.5 B	2.4	0.96	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	0.27 U	1.2	0.27	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	113 B	1200	41	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.1 U	1.2	1.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Vanadium	55.6	6.1	0.28	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	218	2.4	0.35	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18258
(2) Instrument QC Batch: MA18262
(3) Instrument QC Batch: MA18265
(4) Prep QC Batch: MP36467
(5) Prep QC Batch: MP36493

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SB-20-19.5
Lab Sample ID: J43625-6
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 84.8

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4530	25	5.9	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Antimony	0.93 U	2.5	0.93	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	1.4 B	2.5	0.93	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Barium	61.8	25	0.37	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	0.27 B	0.61	0.025	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	0.12 U	0.61	0.12	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Calcium	547 B	610	11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	7.0	1.2	0.54	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cobalt	3.6 B	6.1	0.22	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	9.3	3.1	0.28	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Iron	8950	12	9.2	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	5.5	2.5	0.39	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Magnesium	1910	610	2.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Manganese	105	1.8	0.074	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	0.012 U	0.038	0.012	mg/kg	1	10/25/06	10/26/06	JW	SW846 7471A [2]	SW846 7471A [4]
Nickel	8.7	4.9	0.39	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Potassium	544 B	610	11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	0.97 U	2.5	0.97	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	0.27 U	1.2	0.27	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Sodium	174 B	1200	41	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	1.1 U	1.2	1.1	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Vanadium	8.0	6.1	0.28	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	21.8	2.5	0.36	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA18258
(2) Instrument QC Batch: MA18262
(3) Prep QC Batch: MP36467
(4) Prep QC Batch: MP36493

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-19-1.0		
Lab Sample ID:	J43625-7	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	81.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C31508.D	1	10/21/06	HSS	10/13/06 08:00	n/a	V1C1237
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	750	220	ug/kg	
71-43-2	Benzene	ND	75	36	ug/kg	
75-27-4	Bromodichloromethane	ND	380	34	ug/kg	
75-25-2	Bromoform	ND	380	33	ug/kg	
74-83-9	Bromomethane	ND	380	28	ug/kg	
78-93-3	2-Butanone (MEK)	ND	750	210	ug/kg	
75-15-0	Carbon disulfide	ND	380	42	ug/kg	
56-23-5	Carbon tetrachloride	ND	380	72	ug/kg	
108-90-7	Chlorobenzene	ND	380	33	ug/kg	
75-00-3	Chloroethane	ND	380	130	ug/kg	
67-66-3	Chloroform	ND	380	44	ug/kg	
74-87-3	Chloromethane	ND	380	35	ug/kg	
110-82-7	Cyclohexane	ND	380	97	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	750	160	ug/kg	
124-48-1	Dibromochloromethane	ND	380	41	ug/kg	
106-93-4	1,2-Dibromoethane	ND	75	43	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	34	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	37	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	380	35	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	380	60	ug/kg	
75-34-3	1,1-Dichloroethane	ND	380	36	ug/kg	
107-06-2	1,2-Dichloroethane	ND	75	41	ug/kg	
75-35-4	1,1-Dichloroethene	ND	380	52	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	380	51	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	380	52	ug/kg	
78-87-5	1,2-Dichloropropane	ND	380	42	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	380	31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	380	30	ug/kg	
100-41-4	Ethylbenzene	ND	75	34	ug/kg	
76-13-1	Freon 113	ND	380	65	ug/kg	
591-78-6	2-Hexanone	ND	380	100	ug/kg	
98-82-8	Isopropylbenzene	ND	380	35	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19-1.0
Lab Sample ID: J43625-7
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 81.4

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	380	110	ug/kg	
108-87-2	Methylcyclohexane	ND	380	49	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	75	42	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	380	150	ug/kg	
75-09-2	Methylene chloride	ND	380	52	ug/kg	
100-42-5	Styrene	ND	380	25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	380	43	ug/kg	
127-18-4	Tetrachloroethene	ND	380	62	ug/kg	
108-88-3	Toluene	ND	75	41	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	380	26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	380	45	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	380	40	ug/kg	
79-01-6	Trichloroethene	ND	380	39	ug/kg	
75-69-4	Trichlorofluoromethane	ND	380	55	ug/kg	
75-01-4	Vinyl chloride	ND	380	49	ug/kg	
	m,p-Xylene	ND	150	66	ug/kg	
95-47-6	o-Xylene	ND	75	37	ug/kg	
1330-20-7	Xylene (total)	ND	150	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-120%
17060-07-0	1,2-Dichloroethane-D4	102%		61-133%
2037-26-5	Toluene-D8	115%		75-123%
460-00-4	4-Bromofluorobenzene	114%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19-1.0
Lab Sample ID: J43625-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 81.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P25554.D	1	10/26/06	MCR	10/19/06	OP25177	EP1012
Run #2	3E3346.D	40	10/27/06	OYA	10/19/06	OP25177	E3E119

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2	30.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1000	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1000	260	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1000	340	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1000	520	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4100	310	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4100	180	ug/kg	
95-48-7	2-Methylphenol	ND	1000	200	ug/kg	
	3&4-Methylphenol	ND	1000	290	ug/kg	
88-75-5	2-Nitrophenol	ND	1000	250	ug/kg	
100-02-7	4-Nitrophenol	ND	4100	280	ug/kg	
87-86-5	Pentachlorophenol	ND	4100	230	ug/kg	
108-95-2	Phenol	ND	1000	250	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1000	310	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1000	170	ug/kg	
83-32-9	Acenaphthene	53600 [a]	16000	4200	ug/kg	
208-96-8	Acenaphthylene	3520	410	82	ug/kg	
98-86-2	Acetophenone	ND	1000	130	ug/kg	
120-12-7	Anthracene	121000 [a]	16000	3100	ug/kg	
1912-24-9	Atrazine	ND	1000	180	ug/kg	
56-55-3	Benzo(a)anthracene	127000 [a]	16000	3900	ug/kg	
50-32-8	Benzo(a)pyrene	113000 [a]	16000	2800	ug/kg	
205-99-2	Benzo(b)fluoranthene	89900 [a]	16000	3700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	69100 [a]	16000	4500	ug/kg	
207-08-9	Benzo(k)fluoranthene	76900 [a]	16000	6100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	410	100	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	410	150	ug/kg	
92-52-4	1,1'-Biphenyl	4590	410	98	ug/kg	
100-52-7	Benzaldehyde	ND	1000	220	ug/kg	
91-58-7	2-Chloronaphthalene	ND	410	280	ug/kg	
106-47-8	4-Chloroaniline	ND	1000	130	ug/kg	
86-74-8	Carbazole	25600 [a]	16000	3300	ug/kg	
105-60-2	Caprolactam	ND	410	200	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19-1.0
Lab Sample ID: J43625-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 81.4

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	115000 [a]	16000	3000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	410	130	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	410	100	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	410	150	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	410	96	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	410	240	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	410	230	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1000	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20200	410	110	ug/kg	
132-64-9	Dibenzofuran	38600 [a]	16000	3800	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	130	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	410	170	ug/kg	
84-66-2	Diethyl phthalate	ND	410	87	ug/kg	
131-11-3	Dimethyl phthalate	ND	410	87	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	260	ug/kg	
206-44-0	Fluoranthene	379000 [a]	16000	2900	ug/kg	
86-73-7	Fluorene	60200 [a]	16000	3300	ug/kg	
118-74-1	Hexachlorobenzene	ND	410	120	ug/kg	
87-68-3	Hexachlorobutadiene	ND	410	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4100	150	ug/kg	
67-72-1	Hexachloroethane	ND	1000	100	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	62700 [a]	16000	5200	ug/kg	
78-59-1	Isophorone	ND	410	100	ug/kg	
91-57-6	2-Methylnaphthalene	4650	410	130	ug/kg	
88-74-4	2-Nitroaniline	ND	1000	130	ug/kg	
99-09-2	3-Nitroaniline	ND	1000	160	ug/kg	
100-01-6	4-Nitroaniline	ND	1000	140	ug/kg	
91-20-3	Naphthalene	17700	410	110	ug/kg	
98-95-3	Nitrobenzene	ND	410	140	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	410	130	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1000	84	ug/kg	
85-01-8	Phenanthrene	308000 [a]	16000	3600	ug/kg	
129-00-0	Pyrene	295000 [a]	16000	2800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%	0% [b]	33-105%
4165-62-2	Phenol-d5	71%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	115%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	117% [c]	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-19-1.0		
Lab Sample ID:	J43625-7	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	81.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	132% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	134%	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.37	230000	ug/kg	J
	unknown	10.04	14000	ug/kg	J
	Naphthalene, dimethyl-	11.27	10000	ug/kg	J
	Naphthalene, dimethyl-	11.47	13000	ug/kg	J
	Naphthalene, dimethyl-	11.51	5500	ug/kg	J
	Naphthalene, dimethyl-	11.72	6200	ug/kg	J
	Naphthalene, dimethyl-	11.93	5000	ug/kg	J
	Naphthalene, trimethyl-	13.05	4900	ug/kg	J
	Naphthalene, trimethyl-	13.26	6700	ug/kg	J
	unknown	13.66	5900	ug/kg	J
	Biphenyl, methyl-	13.72	16000	ug/kg	J
	Naphthalene, propenyl	13.81	6500	ug/kg	J
	unknown	13.94	16000	ug/kg	J
	unknown	17.19	1800	ug/kg	J
	Pyrene, methyl-	19.76	2500	ug/kg	J
	unknown PAH substance	19.88	2400	ug/kg	J
	unknown	20.98	1800	ug/kg	J
	unknown	21.58	1800	ug/kg	J
	Triphenylene, methyl-	22.10	1500	ug/kg	J
	unknown	22.34	1700	ug/kg	J
	unknown	22.66	15000	ug/kg	J
	unknown	22.94	11000	ug/kg	J
	unknown PAH substance	23.31	18000	ug/kg	J
	Dinaphthofuran	23.44	13000	ug/kg	J
	unknown PAH substance	23.56	43000	ug/kg	J
	unknown	23.94	27000	ug/kg	J
	unknown PAH substance	25.57	5800	ug/kg	J
	Total TIC, Semi-Volatile		256000	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to dilution and matrix interference.

Report of Analysis

Client Sample ID: SB-19-1.0
Lab Sample ID: J43625-7
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 81.4

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5560	24	5.6	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Antimony	15.7	2.4	0.90	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	118	2.4	0.90	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Barium	118	24	0.35	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	0.34 B	0.59	0.024	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	0.12 U	0.59	0.12	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Calcium	19000	590	11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	18.3	1.2	0.52	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cobalt	16.9	5.9	0.21	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	138	3.0	0.27	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Iron	22100	12	8.9	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	1960	2.4	0.38	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Magnesium	1840	590	2.0	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Manganese	117	1.8	0.071	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	10	0.76	0.25	mg/kg	20	10/25/06	10/26/06	JW	SW846 7471A [2]	SW846 7471A [4]
Nickel	17.7	4.7	0.38	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Potassium	535 B	590	11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	28.3	2.4	0.93	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	0.67 B	1.2	0.26	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Sodium	512 B	1200	40	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	1.0 U	1.2	1.0	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Vanadium	31.8	5.9	0.27	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	184	2.4	0.34	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA18258
(2) Instrument QC Batch: MA18262
(3) Prep QC Batch: MP36467
(4) Prep QC Batch: MP36493

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-19-5.0		
Lab Sample ID:	J43625-8	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	83.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1C31613.D	1	10/24/06	HSS	10/13/06 08:00	n/a	V1C1241
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	2.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	36000	10000	ug/kg	
71-43-2	Benzene	1940	3600	1700	ug/kg	J
75-27-4	Bromodichloromethane	ND	18000	1600	ug/kg	
75-25-2	Bromoform	ND	18000	1600	ug/kg	
74-83-9	Bromomethane	ND	18000	1300	ug/kg	
78-93-3	2-Butanone (MEK)	ND	36000	9800	ug/kg	
75-15-0	Carbon disulfide	ND	18000	2000	ug/kg	
56-23-5	Carbon tetrachloride	ND	18000	3400	ug/kg	
108-90-7	Chlorobenzene	ND	18000	1600	ug/kg	
75-00-3	Chloroethane	ND	18000	6300	ug/kg	
67-66-3	Chloroform	ND	18000	2100	ug/kg	
74-87-3	Chloromethane	ND	18000	1700	ug/kg	
110-82-7	Cyclohexane	ND	18000	4600	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	36000	7700	ug/kg	
124-48-1	Dibromochloromethane	ND	18000	2000	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3600	2000	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	18000	1600	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	18000	1800	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	18000	1700	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	18000	2900	ug/kg	
75-34-3	1,1-Dichloroethane	ND	18000	1700	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3600	2000	ug/kg	
75-35-4	1,1-Dichloroethene	ND	18000	2500	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	18000	2400	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	18000	2500	ug/kg	
78-87-5	1,2-Dichloropropane	ND	18000	2000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	18000	1500	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	18000	1400	ug/kg	
100-41-4	Ethylbenzene	29500	3600	1600	ug/kg	
76-13-1	Freon 113	ND	18000	3100	ug/kg	
591-78-6	2-Hexanone	ND	18000	4900	ug/kg	
98-82-8	Isopropylbenzene	19300	18000	1700	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-19-5.0		
Lab Sample ID:	J43625-8	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	83.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	18000	5100	ug/kg	
108-87-2	Methylcyclohexane	ND	18000	2300	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3600	2000	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	18000	7200	ug/kg	
75-09-2	Methylene chloride	ND	18000	2500	ug/kg	
100-42-5	Styrene	ND	18000	1200	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	18000	2100	ug/kg	
127-18-4	Tetrachloroethene	ND	18000	3000	ug/kg	
108-88-3	Toluene	ND	3600	2000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	18000	1300	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	18000	2100	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	18000	1900	ug/kg	
79-01-6	Trichloroethene	ND	18000	1900	ug/kg	
75-69-4	Trichlorofluoromethane	ND	18000	2600	ug/kg	
75-01-4	Vinyl chloride	ND	18000	2300	ug/kg	
	m,p-Xylene	35200	7200	3200	ug/kg	
95-47-6	o-Xylene	23800	3600	1800	ug/kg	
1330-20-7	Xylene (total)	58900	7200	1800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-120%
17060-07-0	1,2-Dichloroethane-D4	102%		61-133%
2037-26-5	Toluene-D8	118%		75-123%
460-00-4	4-Bromofluorobenzene	113%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	17.43	41000	ug/kg	J
	C3 alkyl benzene	17.47	26000	ug/kg	J
	C3 alkyl benzene	17.51	58000	ug/kg	J
	C3 alkyl benzene	17.94	100000	ug/kg	J
496-11-7	Indane	18.72	290000	ug/kg	JN
	1H-indene-dihydro-methyl	19.96	25000	ug/kg	J
	Indene, methyl-	20.26	18000	ug/kg	J
	Indene, methyl-	20.39	29000	ug/kg	J
91-20-3	Naphthalene	21.02	1200000	ug/kg	JN
	Total TIC, Volatile		1787000	ug/kg	J

(a) Diluted due to high concentration of non-target compound.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19-5.0
Lab Sample ID: J43625-8
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 83.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3359.D	10	10/28/06	OYA	10/19/06	OP25177	E3E119
Run #2	3E3348.D	200	10/27/06	OYA	10/19/06	OP25177	E3E119

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2	30.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	9900	1700	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	9900	2500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	9900	3300	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	9900	5100	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	40000	3000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	40000	1700	ug/kg	
95-48-7	2-Methylphenol	ND	9900	1900	ug/kg	
	3&4-Methylphenol	ND	9900	2800	ug/kg	
88-75-5	2-Nitrophenol	ND	9900	2500	ug/kg	
100-02-7	4-Nitrophenol	ND	40000	2700	ug/kg	
87-86-5	Pentachlorophenol	ND	40000	2200	ug/kg	
108-95-2	Phenol	ND	9900	2500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	9900	3000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	9900	1700	ug/kg	
83-32-9	Acenaphthene	501000 [a]	79000	20000	ug/kg	
208-96-8	Acenaphthylene	14800	4000	800	ug/kg	
98-86-2	Acetophenone	ND	9900	1200	ug/kg	
120-12-7	Anthracene	666000 [a]	79000	15000	ug/kg	
1912-24-9	Atrazine	ND	9900	1700	ug/kg	
56-55-3	Benzo(a)anthracene	567000 [a]	79000	19000	ug/kg	
50-32-8	Benzo(a)pyrene	503000 [a]	79000	14000	ug/kg	
205-99-2	Benzo(b)fluoranthene	431000 [a]	79000	18000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	185000	4000	1100	ug/kg	
207-08-9	Benzo(k)fluoranthene	283000 [a]	79000	30000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	4000	1000	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	4000	1500	ug/kg	
92-52-4	1,1'-Biphenyl	66800	4000	950	ug/kg	
100-52-7	Benzaldehyde	ND	9900	2200	ug/kg	
91-58-7	2-Chloronaphthalene	ND	4000	2800	ug/kg	
106-47-8	4-Chloroaniline	ND	9900	1200	ug/kg	
86-74-8	Carbazole	174000	4000	800	ug/kg	
105-60-2	Caprolactam	ND	4000	1900	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19-5.0
Lab Sample ID: J43625-8
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 83.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	517000 [a]	79000	15000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	4000	1300	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	4000	990	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4000	1500	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4000	930	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	4000	2300	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	4000	2300	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	9900	1900	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	69400	4000	1000	ug/kg	
132-64-9	Dibenzofuran	342000 [a]	79000	18000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	4000	1300	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	4000	1700	ug/kg	
84-66-2	Diethyl phthalate	ND	4000	850	ug/kg	
131-11-3	Dimethyl phthalate	ND	4000	850	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4000	2500	ug/kg	
206-44-0	Fluoranthene	1820000 [a]	79000	14000	ug/kg	
86-73-7	Fluorene	518000 [a]	79000	16000	ug/kg	
118-74-1	Hexachlorobenzene	ND	4000	1100	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4000	1300	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	40000	1400	ug/kg	
67-72-1	Hexachloroethane	ND	9900	990	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	175000	4000	1300	ug/kg	
78-59-1	Isophorone	ND	4000	980	ug/kg	
91-57-6	2-Methylnaphthalene	460000 [a]	79000	26000	ug/kg	
88-74-4	2-Nitroaniline	ND	9900	1300	ug/kg	
99-09-2	3-Nitroaniline	ND	9900	1500	ug/kg	
100-01-6	4-Nitroaniline	ND	9900	1400	ug/kg	
91-20-3	Naphthalene	1690000 [a]	79000	22000	ug/kg	
98-95-3	Nitrobenzene	ND	4000	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	4000	1300	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	9900	810	ug/kg	
85-01-8	Phenanthrene	2420000 [a]	79000	17000	ug/kg	
129-00-0	Pyrene	1400000 [a]	79000	14000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%	0% [b]	33-105%
4165-62-2	Phenol-d5	74%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	80%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	83%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-19-5.0		
Lab Sample ID:	J43625-8	**Date Sampled:**	10/12/06
Matrix:	SO - Soil	**Date Received:**	10/12/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	83.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	87%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	165% [c]	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.47	220000	ug/kg	J
	C3 alkyl benzene	5.08	48000	ug/kg	J
	C3 alkyl benzene	5.18	43000	ug/kg	J
	C3 alkyl benzene	5.55	97000	ug/kg	J
	C3 alkyl benzene	5.98	33000	ug/kg	J
	Indane	6.18	260000	ug/kg	J
	Naphthalene ethyl	11.28	50000	ug/kg	J
	Naphthalene dimethyl	11.43	130000	ug/kg	J
	Naphthalene dimethyl	11.62	150000	ug/kg	J
	Naphthalene dimethyl	11.67	79000	ug/kg	J
	Naphthalene dimethyl	11.88	58000	ug/kg	J
	Naphthalene dimethyl	12.08	37000	ug/kg	J
	unknown	12.80	30000	ug/kg	J
	Naphthalene trimethyl	12.95	28000	ug/kg	J
	Naphthalene trimethyl	13.00	30000	ug/kg	J
	Naphthalene trimethyl	13.20	27000	ug/kg	J
	Naphthalene trimethyl	13.41	27000	ug/kg	J
	unknown	13.81	36000	ug/kg	J
	unknown	13.89	100000	ug/kg	J
	Naphthalene, -(-propenyl)-	13.96	45000	ug/kg	J
	Dibenzofuran, -methyl-	14.09	80000	ug/kg	J
	unknown PAH substance	19.88	43000	ug/kg	J
	unknown PAH substance	20.01	28000	ug/kg	J
	unknown PAH substance	23.39	86000	ug/kg	J
	unknown	23.54	35000	ug/kg	J
	unknown PAH substance	23.63	210000	ug/kg	J
	Total TIC, Semi-Volatile		1790000	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to dilution and matrix interference.

Report of Analysis

Client Sample ID: SB-19-5.0
Lab Sample ID: J43625-8
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/12/06
Date Received: 10/12/06
Percent Solids: 83.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1150	23	5.4	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Antimony	0.86 U	2.3	0.86	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	4.0	2.3	0.86	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Barium	20.5 B	23	0.34	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	0.13 B	0.57	0.023	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	0.11 U	0.57	0.11	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Calcium	1840	570	10	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	5.7	1.1	0.50	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cobalt	2.3 B	5.7	0.20	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	16.2	2.8	0.26	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Iron	4790	11	8.6	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	70.4	2.3	0.36	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Magnesium	192 B	570	2.0	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Manganese	21.0	1.7	0.068	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	0.22	0.035	0.011	mg/kg	1	10/25/06	10/26/06	JW	SW846 7471A [2]	SW846 7471A [4]
Nickel	5.7	4.6	0.36	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Potassium	154 B	570	10	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	1.0 B	2.3	0.90	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	0.25 U	1.1	0.25	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Sodium	203 B	1100	38	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	0.98 U	1.1	0.98	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Vanadium	6.7	5.7	0.26	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	39.5	2.3	0.33	mg/kg	1	10/24/06	10/26/06	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA18258
(2) Instrument QC Batch: MA18262
(3) Prep QC Batch: MP36467
(4) Prep QC Batch: MP36493

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TB-101206		
Lab Sample ID:	J43625-9	**Date Sampled:**	10/12/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/12/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A30151.D	1	10/25/06	LY	n/a	n/a	V3A1260
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-101206		
Lab Sample ID:	J43625-9	**Date Sampled:**	10/12/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/12/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		77-121%
17060-07-0	1,2-Dichloroethane-D4	89%		65-133%
2037-26-5	Toluene-D8	91%		80-117%
460-00-4	4-Bromofluorobenzene	86%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SME, SO TB

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

J43625

AESI Ref: 38999.20022
COC# 30916 / 101206-Soil
Lab Proj # (SDG):
Lab ID: ACTD
Site ID: Quanta
Lab Job #:
Authorized User: Honeywell
Text & Excel File to Drive: Excel & Text File Order

Sampling Co.: CH2M HILL
Client Contact: (name, co., address): Jennifer Simms, 1700 Market Street, Suite 1600, Philadelphia, PA 19103
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, [illegible]
Invoice To: jennifer.simms@ch2m.com

Privileged & Confidential
EDD To: amy.klopper@ch2m.com, john.mitchell@ch2m.com
Sampler: Austin Hareclerode
PO #
Analysis Turnaround Time (TAT): Consultant: 10 CH2M
Full Report TAT:

Site Name: Quanta Resources (Edgewater)
Location of Site: Edgewater, NJ
Phase:
Sampling Program: Quanta 2006 ARI [illegible]

Preservative: 9 | 1 | 1 | 10 | 1 | 1 | 7

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample #	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082,	C-61 SW7196			Sampling Method (code)	Lab Sample Numbers
								Units			C	N												
1	TL 17-06	3	5	TL 17-06-4.0	10/12/06	0800	Soil	Soil	Reg	1	C	N			X			X	X		-	1	EX57,	
2	TL 17-07	10	12	TL 17-07-11	10/12/06	0945	Soil	Soil	Reg	1	C	N			X			X	X		-	2	14 CSM,	
3	TL 17-08	0	2	TL 17-08-1.0	10/12/06	1100	Soil	Soil	Reg	6	C	N	X	X	X	X		X	X		-	3	40DZ,	
4	TL 17-08	3	5	TL 17-08-4.0	10/12/06	1110	Soil	Soil	Reg	2	C	N	X	X	X	X		X	X		-	4	2061	
5	SB-20	5	7	SB-20-6.0 Δ	10/12/06	1330	Soil	Soil	Reg	1	C	N			X						-	5		
6	SB-20	19	20	SB-20-19.5	10/12/06	1400	Soil	Soil	Reg	1	C	N			X						-	6		
7	SB-19 Δ	1	3	SB-19-1.0	10/12/06	1445	Soil	Soil	Reg	2	C	N	X	X	X						-	7		
8	SB-19	4	6	SB-19-5.0	10/12/06	1500	Soil	Soil	Reg	2	C	N	X	X	X						-	8		
9	Trip Blank	•	—	TB-101206	10/12/06	—	Aqueous	DI	TB	2	G	N	X								-	9		
10																								
11																								
12																								

~~SW8011ODLI~~ ~~**~~(please hold pending results of MS/MSD Please~~ ~~See worksheet SW8010 analysis for Arsenic (As) and Lead (Pb)~~

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
~~Jen Simms~~	CH2M HILL	10/12/06 1610	Fedex	8/15/06 16:00	10/12/06 1605	Cooler Temp.	
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
Fedex		10-12-06 1745			10/12/06 1745	Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2, 4 Deg C)); 8 (HCl pH<2), 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

• tb Filled 10/11/06 @ 6:30 10/12/06 pvd
* 3 encores per sample 10/12/06 pvd
A 1 encore per sample 10/12/06 pvd

2.8°C
N/A

11

Job Change Order: J43625_10/24/2006

Requested Date:	10/24/2006	**Received Date:**	10/12/2006
Account Name:	CH2M Hill	**Due Date:**	10/26/2006
Project Description:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	21

Sample #:
J43625-3A, 3AD, 3AS, 4A

Change: Cancel the individual Metals (23) and enter the Standard TCLP Metals list (8)

Above Changes Per: QAPP **Date:** 10/24/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Job Change Order: J43625_10/26/2006

Requested Date:	10/26/2006	**Received Date:**	10/12/2006
Account Name:	CH2M Hill	**Due Date:**	10/26/2006
Project Description:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	21

Sample #:
J43625-1 thru 4

Change: Relog for XCRAR

Above Changes Per: Lab **Date:** 10/26/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

New Jersey
ACCUTEST
LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 ARI (SOIL) Edgewater, NJ

PO#917730 COC#30916-101306-Soil

Accutest Job Number: J43818

Sampling Date: 10/13/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **102**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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4.13: J43818-10R: SB-26-14 97
4.14: J43818-11: TB-101306 98
Section 5: Misc. Forms **100**
5.1: Chain of Custody 101

Sample Summary

CH2M Hill

Job No: J43818

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730 COC#30916-101306-Soil

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J43818-1	10/13/06	08:00	AH	10/13/06	SO	Soil	SB-27-1.0
J43818-2	10/13/06	08:15	AH	10/13/06	SO	Soil	SB-27-9.5
J43818-3	10/13/06	07:30	AH	10/13/06	AQ	Equipment Blank	EB-101306
J43818-4	10/13/06	09:30	AH	10/13/06	SO	Soil	SB-21-2.0
J43818-5	10/13/06	09:45	AH	10/13/06	SO	Soil	SB-21-6.0
J43818-6	10/13/06	10:45	AH	10/13/06	SO	Soil	SB-22-2.0
J43818-6R	10/13/06	10:45	AH	10/13/06	SO	Soil	SB-22-2.0
J43818-6RD	10/13/06	10:45	AH	10/13/06	SO	Soil Dup/MSD	SB-22-2.0
J43818-6RS	10/13/06	10:45	AH	10/13/06	SO	Soil Matrix Spike	SB-22-2.0
J43818-7	10/13/06	11:00	AH	10/13/06	SO	Soil	SB-22-16
J43818-7R	10/13/06	11:00	AH	10/13/06	SO	Soil	SB-22-16
J43818-8	10/13/06	13:00	AH	10/13/06	SO	Soil	TL14-10.75-2.0
J43818-9	10/13/06	13:15	AH	10/13/06	SO	Soil	TL14-10.75-15

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

CH2M Hill

Job No: J43818

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730 COC#30916-101306-Soil

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
J43818-10	10/13/06	14:30	AH	10/13/06	SO	Soil	SB-26-14
J43818-10R	10/13/06	14:30	AH	10/13/06	SO	Soil	SB-26-14
J43818-11	10/13/06	14:30	AH	10/13/06	AQ	Trip Blank Soil	TB-101306

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J43818
Site:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Report Date**	11/14/2006 5:34:48 PM

10 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 10/13/2006 and were received at Accutest on 10/13/2006 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of J43818. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** V3A1260

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43799-2MS, J43799-2MSD were used as the QC samples indicated.

Matrix SO **Batch ID:** VY2281

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43818-1MS, J43818-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for Acetone are outside control limits for sample J43818-1MSD. Probable cause due to matrix interference.
- J43818-1: For QC only.

Matrix SO **Batch ID:** VY2282

- All samples were analyzed within the recommended method holding time.
- Sample(s) J44567-5MS, J44567-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- J43818-7: Diluted due to high concentration of non-target compound and turbidity.
- J43818-9: Diluted due to high concentration of non-target compound and turbidity.
- J43818-8: Diluted due to high concentration of non-target compound and turbidity.

Matrix SO **Batch ID:** VY2283

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44000-7MS, J44000-7MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP25165

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43511-7MS, J43511-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,1'-Biphenyl, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-o-cresol, 4-Chloroaniline, 4-Chlorophenyl phenyl ether, 4-Nitrophenol, Acenaphthene, Acetophenone, Benzaldehyde, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Caprolactam, Di-n-octyl phthalate, Dimethyl phthalate, Hexachlorocyclopentadiene, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1'-Biphenyl, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-o-cresol, 4-Chloroaniline, 4-Chlorophenyl phenyl ether, 4-Nitrophenol, Acenaphthene, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Di-n-octyl phthalate, Hexachlorocyclopentadiene, N-Nitroso-di-n-propylamine, Pyrene, 2,4,5-Trichlorophenol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, Naphthalene, Phenol, 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 2,4,5-Trichlorophenol, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, Hexachloroethane, Isophorone, N-Nitrosodiphenylamine are outside control limits for sample OP25165-MSD. Probable cause due to matrix interference.
- OP25165-MSD for Isophorone: Outside control limits due to matrix interference.
- OP25165-MSD for 2-Fluorophenol: Outside of in house control limits.
- OP25165-MSD for Terphenyl-d14: Outside control limits due to matrix interference.
- OP25165-MSD for N-Nitrosodiphenylamine: Outside control limits due to matrix interference.
- OP25165-MSD for Hexachloroethane: Outside control limits due to matrix interference.
- OP25165-MSD for 3-Nitroaniline: Outside control limits due to matrix interference.
- OP25165-MSD for 3,3'-Dichlorobenzidine: Outside control limits due to matrix interference.
- OP25165-MSD for 2-Nitrophenol: Outside control limits due to matrix interference.
- OP25165-MS for Nitrobenzene-d5: Outside control limits due to matrix interference.
- OP25165-MS for 2-Methylnaphthalene: Outside control limits due to matrix interference.
- OP25165-MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.

Matrix SO **Batch ID:** OP25192

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43818-1MS, J43818-1MSD were used as the QC samples indicated.
- Sample(s) J43818-7 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.
- Matrix Spike Recovery(s) for Acenaphthylene, Dibenzo(a,h)anthracene, 2,4-Dinitrophenol, 2-Nitroaniline, Acenaphthene, Di-n-butyl phthalate, Dibenzofuran, Fluorene, Hexachlorocyclopentadiene, Isophorone, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, Acenaphthene, Acenaphthylene, bis(2-Chloroethyl)ether, Fluorene, Hexachlorocyclopentadiene, Naphthalene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Benzo(k)fluoranthene are outside control limits for sample OP25192-MSD. Probable cause due to matrix interference.
- J43818-2 for Terphenyl-d14: Outside control limits due to dilution.
- J43818-2 for Phenol-d5: Outside control limits due to dilution.
- J43818-2 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43818-2 for Terphenyl-d14: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270C

Matrix SO **Batch ID:** OP25192

- J43818-2 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43818-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-7 for Nitrobenzene-d5: Outside control limits due to dilution and matrix interference.
- J43818-4 for Phenol-d5: Outside control limits due to dilution.
- J43818-4 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-4 for Terphenyl-d14: Outside control limits due to dilution and matrix interference.
- J43818-1 for 2-Fluorobiphenyl: Outside of in house control limits, but within reasonable method recovery limits.
- J43818-9 for Terphenyl-d14: Outside control limits due to dilution.
- J43818-7 for Terphenyl-d14: Outside control limits due to dilution and matrix interference.
- J43818-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43818-4 for Phenol-d5: Outside control limits due to dilution.
- J43818-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-8 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43818-9 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43818-9 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43818-7 for 2-Fluorophenol: Outside control limits due to dilution and matrix interference.
- J43818-2 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-2 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43818-2 for Phenol-d5: Outside control limits due to dilution.
- J43818-2 for Terphenyl-d14: Outside control limits due to dilution.
- J43818-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- OP25192-MS for Naphthalene: Outside control limits due to matrix interference.
- J43818-7 for Phenol-d5: Outside control limits due to dilution.
- J43818-8 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43818-8 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43818-8 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-7 for Terphenyl-d14: Outside control limits due to dilution.
- J43818-8 for Phenol-d5: Outside control limits due to dilution.
- J43818-4 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-9 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-4 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43818-7 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43818-7 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-7 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43818-7 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-4 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270C

Matrix SO **Batch ID:** OP25192

- OP25192-MSD for Benzo(k)fluoranthene: Outside control limits due to matrix interference.
- J43818-8 for Terphenyl-d14: Outside control limits due to dilution.
- J43818-9 for Phenol-d5: Outside control limits due to dilution.
- J43818-7 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-9 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43818-7 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-5 for Terphenyl-d14: Outside control limits due to dilution.
- J43818-5 for Phenol-d5: Outside control limits due to dilution.
- OP25192-MS for Isophorone: Outside control limits due to matrix interference.
- J43818-5 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-7 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43818-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J43818-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J43818-4 for Terphenyl-d14: Outside control limits due to dilution.
- J43818-4 for Phenol-d5: Outside control limits due to dilution.
- J43818-4 for Nitrobenzene-d5: Outside control limits due to dilution.
- J43818-4 for 2-Fluorophenol: Outside control limits due to dilution.
- J43818-5 for Nitrobenzene-d5: Outside control limits due to dilution.
- OP25192-MS for Acenaphthene: Outside control limits due to matrix interference.
- OP25192-MS for Hexachlorocyclopentadiene: Outside control limits due to matrix interference.
- OP25192-MS for Fluorene: Outside control limits due to matrix interference.
- J43818-7 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- OP25192-MS for Di-n-butyl phthalate: Outside control limits due to matrix interference.
- J43818-7 for Phenol-d5: Outside control limits due to dilution.
- OP25192-MS for 2-Nitroaniline: Outside control limits due to matrix interference.
- OP25192-MS for 2-Fluorobiphenyl: Outside control limits due to matrix interference.
- OP25192-MS for 2,4-Dinitrophenol: Outside control limits due to matrix interference.
- J43818-9 for Terphenyl-d14: Outside control limits due to dilution and matrix interference.
- J43818-8 for Terphenyl-d14: Outside control limits due to dilution and matrix interference.
- J43818-8 for 2,4,6-Tribromophenol: Outside control limits due to dilution and matrix interference.
- J43818-7 for Terphenyl-d14: Outside control limits due to dilution.
- OP25192-MS for Dibenzofuran: Outside control limits due to matrix interference.

Extractables by GC By Method SW846 8082

Matrix	AQ	Batch ID:	OP25186

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43219-13MS, J43219-13MSD, OP25186-MSMSD were used as the QC samples indicated.
- RPD(s) for MSD for Aroclor 1016, Aroclor 1260 are outside control limits for sample OP25186-MSD.
- OP25186-MSD for Aroclor 1260: Outside of in house control limits,
- OP25186-MSD for Aroclor 1016: Outside of in house control limits,

Matrix	SO	Batch ID:	OP25050

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J42711-1MS, J42711-1MSD, OP25050-MSMSD were used as the QC samples indicated.

Matrix	SO	Batch ID:	OP25189

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43943-5MS, J43943-5MSD, OP25189-MSMSD were used as the QC samples indicated.
- J43818-9 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- J43818-8 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP36404

- All samples were digested within the recommended method holding time.
- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43778-1MS, J43778-1MSD, J43778-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Aluminum, Cadmium, Chromium, Cobalt, Copper, Nickel are outside control limits for sample MP36404-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP36404-SD1 for Sodium: Serial dilution indicates possible matrix interference. Results confirmed with analysis of second dilution.

Matrix SO **Batch ID:** MP36509

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43818-4MS, J43818-4MSD, J43818-4SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Chromium, Lead, Manganese, Nickel, Potassium, Sodium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Chromium, Lead, Iron are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Calcium, Copper, Iron, Magnesium, Zinc are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Aluminum, Calcium, Iron, Magnesium, Potassium are outside control limits for sample MP36509-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Selenium, Silver, Sodium are outside control limits for sample MP36509-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- J43818-8 for Thallium: Elevated detection limit due to dilution required for matrix interference.
- MP36509-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- J43818-6 for Thallium: Elevated detection limit due to dilution required for matrix interference.

Metals By Method SW846 7470A

Matrix AQ **Batch ID:** MP36545

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J42708-32MS, J42708-32MSD were used as the QC samples for metals.

Metals By Method SW846 7471A

Matrix	SO	Batch ID:	MP36551

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43818-4MSD, J43818-4MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method ASTM 4643-00

Matrix	SO	Batch ID:	GN96681

- The data for ASTM 4643-00 meets quality control requirements.

Matrix	SO	Batch ID:	GN96725

- The data for ASTM 4643-00 meets quality control requirements.

Wet Chemistry By Method ASTM D1498-76M

Matrix	SO	Batch ID:	GN96446

- Sample(s) J43625-3DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method EPA 160.3 M

Matrix	SO	Batch ID:	GN96676

- The data for EPA 160.3 M meets quality control requirements.

Wet Chemistry By Method SW846 3060A/NJ7196A

Matrix	SO	Batch ID:	GP36095

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43818-6MS, J43818-6DUP, J43818-6MS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Insoluble XCR matrix spike recovery indicates possible matrix interference. See additional comments on soluble matrix spike recovery.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP36095-D1. RPD acceptable due to low duplicate and sample concentrations.
- GP36095-S1 for Chromium, Hexavalent: Soluble XCR matrix spike recovery indicates possible matrix interference. Low post spike recovery (72.9%) on this sample.Low pH adjusted post-spike recovery (84.3%). Good agreement between the sample and 1;5 dilution.

Matrix	SO	Batch ID:	GP36233

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43818-6RMS, J43818-6RDUP, J43818-6RMS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (88.8%) on this sample.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP36233-D1. RPD acceptable due to low duplicate and sample concentrations.
- GP36233-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 6010/7196A M

Matrix	SO	Batch ID:	R59730

- The data for SW846 6010/7196A M meets quality control requirements.
- J43818-6 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix	SO	Batch ID:	R59731

- The data for SW846 6010/7196A M meets quality control requirements.
- J43818-7 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix	SO	Batch ID:	R59732

- The data for SW846 6010/7196A M meets quality control requirements.
- J43818-10 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Wet Chemistry By Method SW846 9045D

Matrix	SO	Batch ID:	GN96391

- Sample(s) J43625-3DUP were used as the QC samples for pH.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J43818).

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J43818-1	**SB-27-1.0**					
Total TIC, Volatile		25260 J			ug/kg	
Acenaphthene		1630	390	99	ug/kg	SW846 8270C
Acenaphthylene		5060	390	79	ug/kg	SW846 8270C
Anthracene		8770	390	75	ug/kg	SW846 8270C
Benzo(a)anthracene		28300	1900	470	ug/kg	SW846 8270C
Benzo(a)pyrene		27800	1900	340	ug/kg	SW846 8270C
Benzo(b)fluoranthene		27000	1900	440	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		12800	390	110	ug/kg	SW846 8270C
Benzo(k)fluoranthene		19300	1900	730	ug/kg	SW846 8270C
1,1'-Biphenyl		156 J	390	94	ug/kg	SW846 8270C
Carbazole		1200	390	78	ug/kg	SW846 8270C
Chrysene		27100	1900	360	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		5450	390	100	ug/kg	SW846 8270C
Dibenzofuran		1330	390	90	ug/kg	SW846 8270C
Fluoranthene		50200	1900	340	ug/kg	SW846 8270C
Fluorene		2570	390	78	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		13200	390	120	ug/kg	SW846 8270C
2-Methylnaphthalene		610	390	130	ug/kg	SW846 8270C
Naphthalene		985	390	110	ug/kg	SW846 8270C
Phenanthrene		23600	1900	430	ug/kg	SW846 8270C
Pyrene		39800	1900	330	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		97900 J			ug/kg	
J43818-2	**SB-27-9.5**					
Benzene		85.0	55	26	ug/kg	SW846 8260B
Ethylbenzene		105	55	25	ug/kg	SW846 8260B
Toluene		117	55	30	ug/kg	SW846 8260B
m,p-Xylene		122	110	48	ug/kg	SW846 8260B
o-Xylene		47.7 J	55	27	ug/kg	SW846 8260B
Xylene (total)		170	110	27	ug/kg	SW846 8260B
Total TIC, Volatile		26100 J			ug/kg	
2,4-Dimethylphenol		3300	970	500	ug/kg	SW846 8270C
2-Methylphenol		2580	970	190	ug/kg	SW846 8270C
3&4-Methylphenol		5820	970	280	ug/kg	SW846 8270C
Phenol		1520	970	240	ug/kg	SW846 8270C
Acenaphthene		272000	19000	4900	ug/kg	SW846 8270C
Acenaphthylene		4240	390	78	ug/kg	SW846 8270C
Anthracene		407000	19000	3700	ug/kg	SW846 8270C
Benzo(a)anthracene		388000	19000	4700	ug/kg	SW846 8270C
Benzo(a)pyrene		298000	19000	3400	ug/kg	SW846 8270C
Benzo(b)fluoranthene		253000	19000	4400	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		133000	19000	5300	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(k)fluoranthene		185000	19000	7300	ug/kg	SW846 8270C
1,1'-Biphenyl		17700	390	93	ug/kg	SW846 8270C
Carbazole		138000	19000	3900	ug/kg	SW846 8270C
Chrysene		366000	19000	3600	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		55800	19000	5100	ug/kg	SW846 8270C
Dibenzofuran		171000	19000	4500	ug/kg	SW846 8270C
Fluoranthene		1070000	77000	14000	ug/kg	SW846 8270C
Fluorene		285000	19000	3900	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		132000	19000	6100	ug/kg	SW846 8270C
2-Methylnaphthalene		48500	19000	6300	ug/kg	SW846 8270C
Naphthalene		101000	19000	5400	ug/kg	SW846 8270C
Phenanthrene		1490000	77000	17000	ug/kg	SW846 8270C
Pyrene		850000	19000	3300	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		504500 J			ug/kg	
J43818-3	**EB-101306**					
2-Methylnaphthalene		1.0 J	2.7	0.55	ug/l	SW846 8270C
Naphthalene		0.85 J	2.7	0.43	ug/l	SW846 8270C
Total TIC, Semi-Volatile		17 J			ug/l	
Manganese		0.54 B	15	0.40	ug/l	SW846 6010B
Sodium		1150 B	10000	310	ug/l	SW846 6010B
Zinc		6.6 B	20	3.3	ug/l	SW846 6010B
J43818-4	**SB-21-2.0**					
Benzene		134 J	240	120	ug/kg	SW846 8260B
Ethylbenzene		234 J	240	110	ug/kg	SW846 8260B
Toluene		731	240	130	ug/kg	SW846 8260B
m,p-Xylene		643	490	210	ug/kg	SW846 8260B
o-Xylene		250	240	120	ug/kg	SW846 8260B
Xylene (total)		893	490	120	ug/kg	SW846 8260B
Total TIC, Volatile		35400 J			ug/kg	
2,4-Dimethylphenol		5630	880	450	ug/kg	SW846 8270C
2-Methylphenol		5060	880	170	ug/kg	SW846 8270C
3&4-Methylphenol		12600	880	250	ug/kg	SW846 8270C
Phenol		6710	880	220	ug/kg	SW846 8270C
Acenaphthene		313000	35000	9000	ug/kg	SW846 8270C
Acenaphthylene		20700 J	35000	7100	ug/kg	SW846 8270C
Anthracene		295000	35000	6800	ug/kg	SW846 8270C
Benzo(a)anthracene		359000	35000	8500	ug/kg	SW846 8270C
Benzo(a)pyrene		249000	35000	6100	ug/kg	SW846 8270C
Benzo(b)fluoranthene		210000	35000	8000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		116000	35000	9600	ug/kg	SW846 8270C
Benzo(k)fluoranthene		185000	35000	13000	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,1'-Biphenyl		41000	35000	8500	ug/kg	SW846 8270C
Carbazole		132000	35000	7100	ug/kg	SW846 8270C
Chrysene		333000	35000	6500	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		49900	35000	9200	ug/kg	SW846 8270C
Dibenzofuran		280000	35000	8200	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		8370	350	220	ug/kg	SW846 8270C
Fluoranthene		1320000	35000	6200	ug/kg	SW846 8270C
Fluorene		441000	35000	7000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		112000	35000	11000	ug/kg	SW846 8270C
2-Methylnaphthalene		170000	35000	11000	ug/kg	SW846 8270C
Naphthalene		434000	35000	9900	ug/kg	SW846 8270C
Phenanthrene		1860000	70000	15000	ug/kg	SW846 8270C
Pyrene		917000	35000	6100	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		199600 J			ug/kg	
Aluminum		10200	21	4.9	mg/kg	SW846 6010B
Antimony		2.0 B	2.1	0.79	mg/kg	SW846 6010B
Arsenic		17.9	2.1	0.79	mg/kg	SW846 6010B
Barium		93.8	21	0.31	mg/kg	SW846 6010B
Beryllium		1.9	0.52	0.021	mg/kg	SW846 6010B
Calcium		10200	520	9.2	mg/kg	SW846 6010B
Chromium		56.8	1.0	0.45	mg/kg	SW846 6010B
Cobalt		15.7	5.2	0.19	mg/kg	SW846 6010B
Copper		252	2.6	0.24	mg/kg	SW846 6010B
Iron		23600	10	7.8	mg/kg	SW846 6010B
Lead		286	2.1	0.33	mg/kg	SW846 6010B
Magnesium		6750	520	1.8	mg/kg	SW846 6010B
Manganese		233	1.5	0.062	mg/kg	SW846 6010B
Mercury		0.44	0.031	0.010	mg/kg	SW846 7471A
Nickel		82.9	4.1	0.33	mg/kg	SW846 6010B
Potassium		835	520	9.2	mg/kg	SW846 6010B
Selenium		1.1 B	2.1	0.82	mg/kg	SW846 6010B
Sodium		863 B	1000	35	mg/kg	SW846 6010B
Vanadium		34.8	5.2	0.24	mg/kg	SW846 6010B
Zinc		504	2.1	0.30	mg/kg	SW846 6010B
J43818-5	**SB-21-6.0**					
Benzene		2000	99	47	ug/kg	SW846 8260B
cis-1,2-Dichloroethene		85.4 J	490	66	ug/kg	SW846 8260B
trans-1,2-Dichloroethene		81.6 J	490	67	ug/kg	SW846 8260B
Ethylbenzene		663	99	44	ug/kg	SW846 8260B
Isopropylbenzene		373 J	490	46	ug/kg	SW846 8260B
Toluene		2190	99	54	ug/kg	SW846 8260B
Trichloroethene		69.9 J	490	51	ug/kg	SW846 8260B
m,p-Xylene		532	200	87	ug/kg	SW846 8260B

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
o-Xylene	140	99	49	ug/kg	SW846 8260B
Xylene (total)	672	200	49	ug/kg	SW846 8260B
Total TIC, Volatile	64300 J			ug/kg	
2,4-Dimethylphenol	2400	1100	540	ug/kg	SW846 8270C
2-Methylphenol	1440	1100	210	ug/kg	SW846 8270C
3&4-Methylphenol	4020	1100	300	ug/kg	SW846 8270C
Phenol	1630	1100	260	ug/kg	SW846 8270C
Acenaphthene	222000	42000	11000	ug/kg	SW846 8270C
Acenaphthylene	17100	420	85	ug/kg	SW846 8270C
Anthracene	338000	42000	8200	ug/kg	SW846 8270C
Benzo(a)anthracene	375000	42000	10000	ug/kg	SW846 8270C
Benzo(a)pyrene	368000	42000	7300	ug/kg	SW846 8270C
Benzo(b)fluoranthene	288000	42000	9600	ug/kg	SW846 8270C
Benzo(g,h,i)perylene	213000	42000	12000	ug/kg	SW846 8270C
Benzo(k)fluoranthene	228000	42000	16000	ug/kg	SW846 8270C
1,1'-Biphenyl	20100 J	42000	10000	ug/kg	SW846 8270C
Carbazole	94000	42000	8500	ug/kg	SW846 8270C
Chrysene	355000	42000	7800	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	55800	42000	11000	ug/kg	SW846 8270C
Dibenzofuran	160000	42000	9800	ug/kg	SW846 8270C
Fluoranthene	1120000	42000	7500	ug/kg	SW846 8270C
Fluorene	222000	42000	8500	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	186000	42000	13000	ug/kg	SW846 8270C
2-Methylnaphthalene	67700	42000	14000	ug/kg	SW846 8270C
Naphthalene	281000	42000	12000	ug/kg	SW846 8270C
Phenanthrene	1260000	42000	9300	ug/kg	SW846 8270C
Pyrene	872000	42000	7300	ug/kg	SW846 8270C
Total TIC, Semi-Volatile	1050000 J			ug/kg	
Aluminum	4520	26	6.2	mg/kg	SW846 6010B
Arsenic	13.3	2.6	0.98	mg/kg	SW846 6010B
Barium	48.2	26	0.39	mg/kg	SW846 6010B
Beryllium	0.59 B	0.65	0.026	mg/kg	SW846 6010B
Calcium	4360	650	12	mg/kg	SW846 6010B
Chromium	18.3	1.3	0.57	mg/kg	SW846 6010B
Cobalt	5.5 B	6.5	0.23	mg/kg	SW846 6010B
Copper	45.4	3.2	0.30	mg/kg	SW846 6010B
Iron	13700	13	9.7	mg/kg	SW846 6010B
Lead	297	2.6	0.41	mg/kg	SW846 6010B
Magnesium	1280	650	2.2	mg/kg	SW846 6010B
Manganese	94.7	1.9	0.077	mg/kg	SW846 6010B
Mercury	0.25	0.040	0.013	mg/kg	SW846 7471A
Nickel	13.8	5.2	0.41	mg/kg	SW846 6010B
Potassium	422 B	650	12	mg/kg	SW846 6010B
Selenium	1.4 B	2.6	1.0	mg/kg	SW846 6010B
Sodium	372 B	1300	43	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vanadium		14.4	6.5	0.30	mg/kg	SW846 6010B
Zinc		227	2.6	0.37	mg/kg	SW846 6010B
J43818-6	**SB-22-2.0**					
Total TIC, Volatile		340 J			ug/kg	
Acenaphthene		867	82	21	ug/kg	SW846 8270C
Acenaphthylene		443	82	17	ug/kg	SW846 8270C
Anthracene		1850	82	16	ug/kg	SW846 8270C
Benzo(a)anthracene		7710	410	99	ug/kg	SW846 8270C
Benzo(a)pyrene		8450	410	71	ug/kg	SW846 8270C
Benzo(b)fluoranthene		7550	410	93	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		3980	410	110	ug/kg	SW846 8270C
Benzo(k)fluoranthene		6220	410	150	ug/kg	SW846 8270C
1,1'-Biphenyl		26.0 J	82	20	ug/kg	SW846 8270C
Carbazole		514	82	17	ug/kg	SW846 8270C
Chrysene		7400	410	76	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		1710	82	21	ug/kg	SW846 8270C
Dibenzofuran		215	82	19	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		627	82	52	ug/kg	SW846 8270C
Fluoranthene		14100	410	73	ug/kg	SW846 8270C
Fluorene		511	82	16	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		3920	410	130	ug/kg	SW846 8270C
2-Methylnaphthalene		109	82	27	ug/kg	SW846 8270C
Naphthalene		252	82	23	ug/kg	SW846 8270C
Phenanthrene		5690	410	90	ug/kg	SW846 8270C
Pyrene		11600	410	71	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		45580 J			ug/kg	
Aroclor 1260		252	40	8.2	ug/kg	SW846 8082
Aluminum		6740	25	6.0	mg/kg	SW846 6010B
Antimony		41.0	2.5	0.95	mg/kg	SW846 6010B
Arsenic		220	2.5	0.95	mg/kg	SW846 6010B
Barium		195	25	0.38	mg/kg	SW846 6010B
Beryllium		0.29 B	0.63	0.025	mg/kg	SW846 6010B
Calcium		40800	630	11	mg/kg	SW846 6010B
Chromium		84.1	1.3	0.55	mg/kg	SW846 6010B
Cobalt		5.6 B	6.3	0.23	mg/kg	SW846 6010B
Copper		91.1	3.1	0.29	mg/kg	SW846 6010B
Iron		31800	13	9.5	mg/kg	SW846 6010B
Lead		790	2.5	0.40	mg/kg	SW846 6010B
Magnesium		2360	630	2.2	mg/kg	SW846 6010B
Manganese		361	1.9	0.075	mg/kg	SW846 6010B
Mercury		1.3	0.078	0.026	mg/kg	SW846 7471A
Nickel		23.1	5.0	0.40	mg/kg	SW846 6010B
Potassium		1020	630	11	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sodium		369 B	1300	42	mg/kg	SW846 6010B
Vanadium		25.8	6.3	0.29	mg/kg	SW846 6010B
Zinc		117	2.5	0.36	mg/kg	SW846 6010B
Chromium, Trivalent [a]		84.1	2.5		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		386			mv	ASTM D1498-76M
pH		6.83			su	SW846 9045D
J43818-6R	**SB-22-2.0**					
Chromium, Hexavalent		0.50 B	1.2	0.27	mg/kg	SW846 3060A/NJ7196A
J43818-7	**SB-22-16**					
Benzene [b]		2930 J	4100	2000	ug/kg	SW846 8260B
Ethylbenzene [b]		8230	4100	1800	ug/kg	SW846 8260B
Toluene [b]		8190	4100	2200	ug/kg	SW846 8260B
m,p-Xylene [b]		9370	8200	3600	ug/kg	SW846 8260B
o-Xylene [b]		4110	4100	2000	ug/kg	SW846 8260B
Xylene (total) [b]		13500	8200	2000	ug/kg	SW846 8260B
Total TIC, Volatile		704000 J			ug/kg	
2,4-Dimethylphenol		280000 E	1800	940	ug/kg	SW846 8270C
2-Methylphenol		123000 J	370000	72000	ug/kg	SW846 8270C
3&4-Methylphenol		292000 J	370000	110000	ug/kg	SW846 8270C
Phenol		98400 J	370000	91000	ug/kg	SW846 8270C
Acenaphthene		1060000	150000	38000	ug/kg	SW846 8270C
Acenaphthylene		74900 J	150000	30000	ug/kg	SW846 8270C
Anthracene		883000	150000	28000	ug/kg	SW846 8270C
Benzo(a)anthracene		1530000	150000	36000	ug/kg	SW846 8270C
Benzo(a)pyrene		1210000	150000	26000	ug/kg	SW846 8270C
Benzo(b)fluoranthene		1120000	150000	34000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		551000	150000	40000	ug/kg	SW846 8270C
Benzo(k)fluoranthene		839000	150000	55000	ug/kg	SW846 8270C
1,1'-Biphenyl		260000	150000	35000	ug/kg	SW846 8270C
Carbazole		544000	150000	30000	ug/kg	SW846 8270C
Chrysene		1670000	150000	27000	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		220000	150000	39000	ug/kg	SW846 8270C
Dibenzofuran		780000	150000	34000	ug/kg	SW846 8270C
Fluoranthene		4510000	150000	26000	ug/kg	SW846 8270C
Fluorene		1010000	150000	29000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		491000	150000	47000	ug/kg	SW846 8270C
2-Methylnaphthalene		1680000	150000	48000	ug/kg	SW846 8270C
Naphthalene		7250000	290000	83000	ug/kg	SW846 8270C
Phenanthrene		5140000	150000	32000	ug/kg	SW846 8270C
Pyrene		3460000	150000	25000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		537000 J			ug/kg	

Summary of Hits

Job Number: J43818
Account: CH2M Hill
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Collected: 10/13/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Aluminum		938	23	5.5	mg/kg	SW846 6010B
Arsenic		9.4	2.3	0.88	mg/kg	SW846 6010B
Barium		14.5 B	23	0.35	mg/kg	SW846 6010B
Beryllium		0.073 B	0.58	0.023	mg/kg	SW846 6010B
Calcium		1090	580	10	mg/kg	SW846 6010B
Chromium		13.4	1.2	0.51	mg/kg	SW846 6010B
Cobalt		2.0 B	5.8	0.21	mg/kg	SW846 6010B
Copper		16.0	2.9	0.27	mg/kg	SW846 6010B
Iron		3320	12	8.7	mg/kg	SW846 6010B
Lead		55.5	2.3	0.37	mg/kg	SW846 6010B
Magnesium		268 B	580	2.0	mg/kg	SW846 6010B
Manganese		20.9	1.7	0.070	mg/kg	SW846 6010B
Mercury		0.13	0.032	0.011	mg/kg	SW846 7471A
Nickel		5.2	4.6	0.37	mg/kg	SW846 6010B
Potassium		128 B	580	10	mg/kg	SW846 6010B
Selenium		1.8 B	2.3	0.92	mg/kg	SW846 6010B
Sodium		236 B	1200	39	mg/kg	SW846 6010B
Vanadium		3.5 B	5.8	0.27	mg/kg	SW846 6010B
Zinc		24.8	2.3	0.34	mg/kg	SW846 6010B
Chromium, Trivalent [a]		13.4	2.3		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		298			mv	ASTM D1498-76M
pH		8.51			su	SW846 9045D
J43818-7R	**SB-22-16**					
No hits reported in this sample.						
J43818-8	**TL14-10.75-2.0**					
Benzene [b]		13900	4400	2100	ug/kg	SW846 8260B
Ethylbenzene [b]		40100	4400	2000	ug/kg	SW846 8260B
Isopropylbenzene [b]		15700 J	22000	2000	ug/kg	SW846 8260B
Toluene [b]		26600	4400	2400	ug/kg	SW846 8260B
m,p-Xylene [b]		180000	8800	3800	ug/kg	SW846 8260B
o-Xylene [b]		90400	4400	2200	ug/kg	SW846 8260B
Xylene (total) [b]		270000	8800	2200	ug/kg	SW846 8260B
Total TIC, Volatile		4479000 J			ug/kg	
2,4-Dimethylphenol		3230	960	490	ug/kg	SW846 8270C
2-Methylphenol		1190	960	190	ug/kg	SW846 8270C
Acenaphthene		949000	77000	20000	ug/kg	SW846 8270C
Anthracene		1510000	77000	15000	ug/kg	SW846 8270C
Benzo(a)anthracene		396000	77000	19000	ug/kg	SW846 8270C
Benzo(a)pyrene		181000	77000	13000	ug/kg	SW846 8270C
Benzo(b)fluoranthene		183000	77000	18000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		65900 J	77000	21000	ug/kg	SW846 8270C

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(k)fluoranthene	184000	77000	29000	ug/kg	SW846 8270C
1,1'-Biphenyl	120000	77000	19000	ug/kg	SW846 8270C
Carbazole	311000	77000	16000	ug/kg	SW846 8270C
Chrysene	417000	77000	14000	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	26100 J	77000	20000	ug/kg	SW846 8270C
Dibenzofuran	688000	77000	18000	ug/kg	SW846 8270C
Fluoranthene	2430000	77000	14000	ug/kg	SW846 8270C
Fluorene	1080000	77000	15000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	78700	77000	24000	ug/kg	SW846 8270C
2-Methylnaphthalene	764000	77000	25000	ug/kg	SW846 8270C
Naphthalene	1600000	77000	22000	ug/kg	SW846 8270C
Phenanthrene	3620000	77000	17000	ug/kg	SW846 8270C
Pyrene	1530000	77000	13000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile	214900 J			ug/kg	
Aroclor 1254	1660	120	55	ug/kg	SW846 8082
Aroclor 1260	3580	120	23	ug/kg	SW846 8082
Aluminum	5330	22	5.2	mg/kg	SW846 6010B
Antimony	7.1	2.2	0.83	mg/kg	SW846 6010B
Arsenic	111	2.2	0.83	mg/kg	SW846 6010B
Barium	124	22	0.33	mg/kg	SW846 6010B
Beryllium	0.27 B	0.55	0.022	mg/kg	SW846 6010B
Cadmium	1.3	0.55	0.11	mg/kg	SW846 6010B
Calcium	3580	550	9.8	mg/kg	SW846 6010B
Chromium	17.4	1.1	0.48	mg/kg	SW846 6010B
Cobalt	9.5	5.5	0.20	mg/kg	SW846 6010B
Copper	178	2.7	0.25	mg/kg	SW846 6010B
Iron	25300	11	8.3	mg/kg	SW846 6010B
Lead	731	2.2	0.35	mg/kg	SW846 6010B
Magnesium	2490	550	1.9	mg/kg	SW846 6010B
Manganese	101	1.6	0.066	mg/kg	SW846 6010B
Mercury	2.7	0.18	0.059	mg/kg	SW846 7471A
Nickel	22.2	4.4	0.35	mg/kg	SW846 6010B
Potassium	424 B	550	9.8	mg/kg	SW846 6010B
Selenium	3.7	2.2	0.87	mg/kg	SW846 6010B
Silver	1.1	1.1	0.24	mg/kg	SW846 6010B
Sodium	402 B	1100	37	mg/kg	SW846 6010B
Vanadium	47.0	5.5	0.25	mg/kg	SW846 6010B
Zinc	561	2.2	0.32	mg/kg	SW846 6010B
J43818-9 TL14-10.75-15					
Benzene [b]	17700	4600	2200	ug/kg	SW846 8260B
Ethylbenzene [b]	40100	4600	2100	ug/kg	SW846 8260B
Isopropylbenzene [b]	4430 J	23000	2100	ug/kg	SW846 8260B
Toluene [b]	39100	4600	2500	ug/kg	SW846 8260B

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene [b]	42300	9200	4000	ug/kg	SW846 8260B
o-Xylene [b]	16100	4600	2300	ug/kg	SW846 8260B
Xylene (total) [b]	58400	9200	2300	ug/kg	SW846 8260B
Total TIC, Volatile	4317000 J			ug/kg	
2,4-Dimethylphenol	8520	1500	750	ug/kg	SW846 8270C
2-Methylphenol	3370	1500	290	ug/kg	SW846 8270C
3&4-Methylphenol	7420	1500	420	ug/kg	SW846 8270C
Phenol	2830	1500	360	ug/kg	SW846 8270C
Acenaphthene	293000	12000	3000	ug/kg	SW846 8270C
Acenaphthylene	5470	590	120	ug/kg	SW846 8270C
Anthracene	314000	12000	2300	ug/kg	SW846 8270C
Benzo(a)anthracene	247000	12000	2800	ug/kg	SW846 8270C
Benzo(a)pyrene	177000	12000	2000	ug/kg	SW846 8270C
Benzo(b)fluoranthene	154000	12000	2700	ug/kg	SW846 8270C
Benzo(g,h,i)perylene	80200	12000	3200	ug/kg	SW846 8270C
Benzo(k)fluoranthene	118000	12000	4400	ug/kg	SW846 8270C
1,1'-Biphenyl	45600	12000	2800	ug/kg	SW846 8270C
Carbazole	114000 J	120000	24000	ug/kg	SW846 8270C
Chrysene	228000	12000	2200	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	33700	12000	3100	ug/kg	SW846 8270C
Dibenzofuran	218000	12000	2700	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate	1780	590	370	ug/kg	SW846 8270C
Fluoranthene	691000	120000	21000	ug/kg	SW846 8270C
Fluorene	288000	12000	2300	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	83600	12000	3700	ug/kg	SW846 8270C
2-Methylnaphthalene	251000	12000	3800	ug/kg	SW846 8270C
Naphthalene	746000	120000	33000	ug/kg	SW846 8270C
Phenanthrene	1100000	120000	26000	ug/kg	SW846 8270C
Pyrene	572000	12000	2000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile	1560000 J			ug/kg	
Aluminum	6050	34	8.1	mg/kg	SW846 6010B
Arsenic	2.9 B	3.4	1.3	mg/kg	SW846 6010B
Barium	19.8 B	34	0.51	mg/kg	SW846 6010B
Beryllium	0.23 B	0.85	0.034	mg/kg	SW846 6010B
Calcium	8540	850	15	mg/kg	SW846 6010B
Chromium	11.6	1.7	0.75	mg/kg	SW846 6010B
Cobalt	3.3 B	8.5	0.31	mg/kg	SW846 6010B
Copper	12.6	4.2	0.39	mg/kg	SW846 6010B
Iron	9550	17	13	mg/kg	SW846 6010B
Lead	22.9	3.4	0.54	mg/kg	SW846 6010B
Magnesium	2380	850	2.9	mg/kg	SW846 6010B
Manganese	62.7	2.5	0.10	mg/kg	SW846 6010B
Mercury	0.52	0.054	0.018	mg/kg	SW846 7471A
Nickel	7.4	6.8	0.54	mg/kg	SW846 6010B
Potassium	1230	850	15	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sodium		2930	1700	57	mg/kg	SW846 6010B
Vanadium		13.8	8.5	0.39	mg/kg	SW846 6010B
Zinc		27.7	3.4	0.49	mg/kg	SW846 6010B
J43818-10	**SB-26-14**					
Benzene		263	99	47	ug/kg	SW846 8260B
Toluene		66.9 J	99	54	ug/kg	SW846 8260B
Total TIC, Volatile		26420 J			ug/kg	
2-Methylphenol		50.0 J	220	44	ug/kg	SW846 8270C
3&4-Methylphenol		98.3 J	220	64	ug/kg	SW846 8270C
Acenaphthene		9140	450	110	ug/kg	SW846 8270C
Acenaphthylene		2110	89	18	ug/kg	SW846 8270C
Anthracene		23400	2200	430	ug/kg	SW846 8270C
Benzo(a)anthracene		18600	450	110	ug/kg	SW846 8270C
Benzo(a)pyrene		16500	450	77	ug/kg	SW846 8270C
Benzo(b)fluoranthene		14700	450	100	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		6680	450	120	ug/kg	SW846 8270C
Benzo(k)fluoranthene		10500	450	170	ug/kg	SW846 8270C
1,1'-Biphenyl		1110	89	21	ug/kg	SW846 8270C
Carbazole		4220	89	18	ug/kg	SW846 8270C
Chrysene		16800	450	82	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		2580	89	23	ug/kg	SW846 8270C
Dibenzofuran		8180	450	100	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		115	89	57	ug/kg	SW846 8270C
Fluoranthene		53300	2200	390	ug/kg	SW846 8270C
Fluorene		12500	450	89	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		6800	450	140	ug/kg	SW846 8270C
2-Methylnaphthalene		4410	450	140	ug/kg	SW846 8270C
Naphthalene		12100	450	130	ug/kg	SW846 8270C
Phenanthrene		50200	2200	490	ug/kg	SW846 8270C
Pyrene		42900	2200	380	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		52150 J			ug/kg	
Aluminum		5700	26	6.2	mg/kg	SW846 6010B
Arsenic		124	2.6	0.99	mg/kg	SW846 6010B
Barium		44.5	26	0.39	mg/kg	SW846 6010B
Beryllium		0.18 B	0.65	0.026	mg/kg	SW846 6010B
Calcium		8670	650	12	mg/kg	SW846 6010B
Chromium		14.2	1.3	0.57	mg/kg	SW846 6010B
Cobalt		7.8	6.5	0.23	mg/kg	SW846 6010B
Copper		29.9	3.3	0.30	mg/kg	SW846 6010B
Iron		15500	13	9.8	mg/kg	SW846 6010B
Lead		15.1	2.6	0.42	mg/kg	SW846 6010B
Magnesium		2220	650	2.3	mg/kg	SW846 6010B
Manganese		61.5	2.0	0.078	mg/kg	SW846 6010B

Summary of Hits

Job Number: J43818
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/13/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Mercury		0.038 B	0.043	0.014	mg/kg	SW846 7471A
Nickel		19.3	5.2	0.42	mg/kg	SW846 6010B
Potassium		356 B	650	12	mg/kg	SW846 6010B
Sodium		634 B	1300	44	mg/kg	SW846 6010B
Vanadium		19.8	6.5	0.30	mg/kg	SW846 6010B
Zinc		22.4	2.6	0.38	mg/kg	SW846 6010B
Chromium, Trivalent [a]		14.2	2.6		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		240			mv	ASTM D1498-76M
pH		8.73			su	SW846 9045D

J43818-10R **SB-26-14**

No hits reported in this sample.

J43818-11 **TB-101306**

No hits reported in this sample.

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)
(b) Diluted due to high concentration of non-target compound and turbidity.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-27-1.0		
Lab Sample ID:	J43818-1	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56484.D	1	10/27/06	MMC	10/14/06 10:00	n/a	VY2283
Run #2 [a]	Y56448.D	1	10/26/06	MMC	10/14/06 10:00	n/a	VY2281

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.4 g	5.0 ml	100 ul
Run #2	6.4 g	5.0 ml	20.0 ul

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	540	150	ug/kg	
71-43-2	Benzene	ND	54	26	ug/kg	
75-27-4	Bromodichloromethane	ND	270	25	ug/kg	
75-25-2	Bromoform	ND	270	23	ug/kg	
74-83-9	Bromomethane	ND	270	20	ug/kg	
78-93-3	2-Butanone (MEK)	ND	540	150	ug/kg	
75-15-0	Carbon disulfide	ND	270	30	ug/kg	
56-23-5	Carbon tetrachloride	ND	270	51	ug/kg	
108-90-7	Chlorobenzene	ND	270	23	ug/kg	
75-00-3	Chloroethane	ND	270	94	ug/kg	
67-66-3	Chloroform	ND	270	31	ug/kg	
74-87-3	Chloromethane	ND	270	25	ug/kg	
110-82-7	Cyclohexane	ND	270	69	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	540	120	ug/kg	
124-48-1	Dibromochloromethane	ND	270	30	ug/kg	
106-93-4	1,2-Dibromoethane	ND	54	31	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	270	25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	270	26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	270	25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	270	43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	54	29	ug/kg	
75-35-4	1,1-Dichloroethene	ND	270	37	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	270	36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	270	37	ug/kg	
78-87-5	1,2-Dichloropropane	ND	270	30	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	21	ug/kg	
100-41-4	Ethylbenzene	ND	54	24	ug/kg	
76-13-1	Freon 113	ND	270	46	ug/kg	
591-78-6	2-Hexanone	ND	270	74	ug/kg	
98-82-8	Isopropylbenzene	ND	270	25	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-27-1.0		
Lab Sample ID:	J43818-1	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	270	76	ug/kg	
108-87-2	Methylcyclohexane	ND	270	35	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	54	30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	270	110	ug/kg	
75-09-2	Methylene chloride	ND	270	37	ug/kg	
100-42-5	Styrene	ND	270	18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	31	ug/kg	
127-18-4	Tetrachloroethene	ND	270	44	ug/kg	
108-88-3	Toluene	ND	54	29	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	270	19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	32	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	29	ug/kg	
79-01-6	Trichloroethene	ND	270	28	ug/kg	
75-69-4	Trichlorofluoromethane	ND	270	39	ug/kg	
75-01-4	Vinyl chloride	ND	270	35	ug/kg	
	m,p-Xylene	ND	110	47	ug/kg	
95-47-6	o-Xylene	ND	54	27	ug/kg	
1330-20-7	Xylene (total)	ND	110	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%	97%	70-120%
17060-07-0	1,2-Dichloroethane-D4	74%	75%	61-133%
2037-26-5	Toluene-D8	95%	97%	75-123%
460-00-4	4-Bromofluorobenzene	102%	98%	65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1H-indene-dihydro-methyl	16.44	460	ug/kg	J
91-20-3	Naphthalene	16.98	9600	ug/kg	JN
	C5 alkyl benzene	17.51	280	ug/kg	J
	Naphthalene methyl	17.95	5600	ug/kg	J
	Naphthalene methyl	18.14	3900	ug/kg	J
92-52-4	Biphenyl	18.65	580	ug/kg	JN
	Naphthalene ethyl	18.88	570	ug/kg	J
	Naphthalene dimethyl	19.00	1400	ug/kg	J
	Naphthalene dimethyl	19.19	1400	ug/kg	J
	Naphthalene dimethyl	19.23	650	ug/kg	J
111-82-0	Dodecanoic acid, methyl ester	19.31	290	ug/kg	JN
	Naphthalene dimethyl	19.49	530	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-27-1.0		
Lab Sample ID:	J43818-1	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		25260	ug/kg	J

(a) For QC only.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-27-1.0		
Lab Sample ID:	J43818-1	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3335.D	1	10/26/06	OYA	10/20/06	OP25192	E3E118
Run #2	3E3350.D	5	10/27/06	OYA	10/20/06	OP25192	E3E119

	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2	30.1 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	970	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	970	250	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	970	320	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	970	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3900	290	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3900	170	ug/kg	
95-48-7	2-Methylphenol	ND	970	190	ug/kg	
	3&4-Methylphenol	ND	970	280	ug/kg	
88-75-5	2-Nitrophenol	ND	970	240	ug/kg	
100-02-7	4-Nitrophenol	ND	3900	260	ug/kg	
87-86-5	Pentachlorophenol	ND	3900	220	ug/kg	
108-95-2	Phenol	ND	970	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	970	290	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	970	160	ug/kg	
83-32-9	Acenaphthene	1630	390	99	ug/kg	
208-96-8	Acenaphthylene	5060	390	79	ug/kg	
98-86-2	Acetophenone	ND	970	120	ug/kg	
120-12-7	Anthracene	8770	390	75	ug/kg	
1912-24-9	Atrazine	ND	970	170	ug/kg	
56-55-3	Benzo(a)anthracene	28300 [a]	1900	470	ug/kg	
50-32-8	Benzo(a)pyrene	27800 [a]	1900	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	27000 [a]	1900	440	ug/kg	
191-24-2	Benzo(g,h,i)perylene	12800	390	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	19300 [a]	1900	730	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	390	99	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	150	ug/kg	
92-52-4	1,1'-Biphenyl	156	390	94	ug/kg	J
100-52-7	Benzaldehyde	ND	970	210	ug/kg	
91-58-7	2-Chloronaphthalene	ND	390	270	ug/kg	
106-47-8	4-Chloroaniline	ND	970	120	ug/kg	
86-74-8	Carbazole	1200	390	78	ug/kg	
105-60-2	Caprolactam	ND	390	190	ug/kg	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-27-1.0
Lab Sample ID: J43818-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 85.6

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	27100 [a]	1900	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	390	120	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	390	97	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	390	150	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	390	91	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	390	230	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	390	220	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	970	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	5450	390	100	ug/kg	
132-64-9	Dibenzofuran	1330	390	90	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	170	ug/kg	
84-66-2	Diethyl phthalate	ND	390	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	250	ug/kg	
206-44-0	Fluoranthene	50200 [a]	1900	340	ug/kg	
86-73-7	Fluorene	2570	390	78	ug/kg	
118-74-1	Hexachlorobenzene	ND	390	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	390	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3900	140	ug/kg	
67-72-1	Hexachloroethane	ND	970	97	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	13200	390	120	ug/kg	
78-59-1	Isophorone	ND	390	96	ug/kg	
91-57-6	2-Methylnaphthalene	610	390	130	ug/kg	
88-74-4	2-Nitroaniline	ND	970	120	ug/kg	
99-09-2	3-Nitroaniline	ND	970	150	ug/kg	
100-01-6	4-Nitroaniline	ND	970	130	ug/kg	
91-20-3	Naphthalene	985	390	110	ug/kg	
98-95-3	Nitrobenzene	ND	390	140	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	390	120	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	970	80	ug/kg	
85-01-8	Phenanthrene	23600 [a]	1900	430	ug/kg	
129-00-0	Pyrene	39800 [a]	1900	330	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	96%	72%	33-105%
4165-62-2	Phenol-d5	90%	55%	34-110%
118-79-6	2,4,6-Tribromophenol	93%	73%	33-124%
4165-60-0	Nitrobenzene-d5	98%	53%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-27-1.0
Lab Sample ID: J43818-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 85.6

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	107% [b]	87%	40-106%
1718-51-0	Terphenyl-d14	99%	98%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.47	110000	ug/kg	J
	system artifact/aldol-condensation	3.51	130000	ug/kg	J
	Dibenzothiophene	15.59	2100	ug/kg	J
	Anthracene methyl	17.07	3600	ug/kg	J
	Anthracene methyl	17.13	5100	ug/kg	J
	Phenanthrene methyl	17.22	3000	ug/kg	J
	Cyclopenta[def]phenanthrene	17.32	8100	ug/kg	J
	Anthracene methyl	17.38	3100	ug/kg	J
	Phenylnaphthalene	17.81	3400	ug/kg	J
	Phenanthrene dimethyl	18.41	2400	ug/kg	J
	unknown	18.46	2900	ug/kg	J
	Cyclopenta(def)phenanthrenone	18.54	2300	ug/kg	J
	unknown PAH substance	19.87	2300	ug/kg	J
	unknown	22.75	2800	ug/kg	J
	unknown	23.02	3500	ug/kg	J
	unknown	23.17	1900	ug/kg	J
	unknown PAH substance	23.40	7100	ug/kg	J
	unknown	23.54	4600	ug/kg	J
	unknown PAH substance	23.64	18000	ug/kg	J
	unknown	23.88	3300	ug/kg	J
	unknown	24.03	3600	ug/kg	J
	unknown	24.09	2000	ug/kg	J
	unknown	24.45	2400	ug/kg	J
	unknown	25.27	2300	ug/kg	J
	unknown PAH substance	25.67	2700	ug/kg	J
	unknown PAH substance	25.74	2800	ug/kg	J
	unknown PAH substance	26.20	2600	ug/kg	J
	Total TIC, Semi-Volatile		97900	ug/kg	J

(a) Result is from Run# 2
(b) Outside of in house control limits, but within reasonable method recovery limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-27-9.5		
Lab Sample ID:	J43818-2	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56485.D	1	10/27/06	MMC	10/14/06 10:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.2 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	550	160	ug/kg	
71-43-2	Benzene	85.0	55	26	ug/kg	
75-27-4	Bromodichloromethane	ND	280	25	ug/kg	
75-25-2	Bromoform	ND	280	24	ug/kg	
74-83-9	Bromomethane	ND	280	20	ug/kg	
78-93-3	2-Butanone (MEK)	ND	550	150	ug/kg	
75-15-0	Carbon disulfide	ND	280	30	ug/kg	
56-23-5	Carbon tetrachloride	ND	280	52	ug/kg	
108-90-7	Chlorobenzene	ND	280	24	ug/kg	
75-00-3	Chloroethane	ND	280	96	ug/kg	
67-66-3	Chloroform	ND	280	32	ug/kg	
74-87-3	Chloromethane	ND	280	25	ug/kg	
110-82-7	Cyclohexane	ND	280	71	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	550	120	ug/kg	
124-48-1	Dibromochloromethane	ND	280	30	ug/kg	
106-93-4	1,2-Dibromoethane	ND	55	31	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	280	25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	280	44	ug/kg	
75-34-3	1,1-Dichloroethane	ND	280	26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	55	30	ug/kg	
75-35-4	1,1-Dichloroethene	ND	280	38	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	280	37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	280	38	ug/kg	
78-87-5	1,2-Dichloropropane	ND	280	31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	280	23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	280	22	ug/kg	
100-41-4	Ethylbenzene	105	55	25	ug/kg	
76-13-1	Freon 113	ND	280	47	ug/kg	
591-78-6	2-Hexanone	ND	280	75	ug/kg	
98-82-8	Isopropylbenzene	ND	280	26	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-27-9.5		
Lab Sample ID:	J43818-2	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	280	78	ug/kg	
108-87-2	Methylcyclohexane	ND	280	36	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	55	31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	280	110	ug/kg	
75-09-2	Methylene chloride	ND	280	38	ug/kg	
100-42-5	Styrene	ND	280	18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	280	32	ug/kg	
127-18-4	Tetrachloroethene	ND	280	45	ug/kg	
108-88-3	Toluene	117	55	30	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	280	33	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	280	30	ug/kg	
79-01-6	Trichloroethene	ND	280	29	ug/kg	
75-69-4	Trichlorofluoromethane	ND	280	40	ug/kg	
75-01-4	Vinyl chloride	ND	280	36	ug/kg	
	m,p-Xylene	122	110	48	ug/kg	
95-47-6	o-Xylene	47.7	55	27	ug/kg	J
1330-20-7	Xylene (total)	170	110	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-120%
17060-07-0	1,2-Dichloroethane-D4	74%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	103%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	15.29	1600	ug/kg	JN
	1H-indene-dihydro-methyl	16.29	520	ug/kg	J
	1H-indene-dihydro-methyl	16.43	590	ug/kg	J
	unknown	16.58	520	ug/kg	J
	1H-Indene-dihydro-dimethyl	16.67	590	ug/kg	J
91-20-3	Naphthalene	16.98	4600	ug/kg	JN
	1H-Indene-dihydro-dimethyl	17.41	470	ug/kg	J
	unknown	17.55	740	ug/kg	J
	Naphthalene methyl	17.95	2300	ug/kg	J
	Naphthalene methyl	18.14	7500	ug/kg	J
92-52-4	Biphenyl	18.66	510	ug/kg	JN
	Naphthalene ethyl	18.88	460	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-27-9.5		
Lab Sample ID:	J43818-2	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene dimethyl	19.00	2000	ug/kg	J
	Naphthalene dimethyl	19.19	2700	ug/kg	J
	Naphthalene dimethyl	19.48	1000	ug/kg	J
	Total TIC, Volatile		26100	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-27-9.5
Lab Sample ID: J43818-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 85.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3336.D	1	10/26/06	OYA	10/20/06	OP25192	E3E118
Run #2	3E3349.D	50	10/27/06	OYA	10/20/06	OP25192	E3E119
Run #3	3E3387.D	200	10/30/06	OYA	10/20/06	OP25192	E3E121

	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2	30.1 g	5.0 ml
Run #3	30.1 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	970	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	970	250	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	970	320	ug/kg	
105-67-9	2,4-Dimethylphenol	3300	970	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3900	290	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3900	170	ug/kg	
95-48-7	2-Methylphenol	2580	970	190	ug/kg	
	3&4-Methylphenol	5820	970	280	ug/kg	
88-75-5	2-Nitrophenol	ND	970	240	ug/kg	
100-02-7	4-Nitrophenol	ND	3900	260	ug/kg	
87-86-5	Pentachlorophenol	ND	3900	220	ug/kg	
108-95-2	Phenol	1520	970	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	970	290	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	970	160	ug/kg	
83-32-9	Acenaphthene	272000 [a]	19000	4900	ug/kg	
208-96-8	Acenaphthylene	4240	390	78	ug/kg	
98-86-2	Acetophenone	ND	970	120	ug/kg	
120-12-7	Anthracene	407000 [a]	19000	3700	ug/kg	
1912-24-9	Atrazine	ND	970	170	ug/kg	
56-55-3	Benzo(a)anthracene	388000 [a]	19000	4700	ug/kg	
50-32-8	Benzo(a)pyrene	298000 [a]	19000	3400	ug/kg	
205-99-2	Benzo(b)fluoranthene	253000 [a]	19000	4400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	133000 [a]	19000	5300	ug/kg	
207-08-9	Benzo(k)fluoranthene	185000 [a]	19000	7300	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	390	98	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	150	ug/kg	
92-52-4	1,1'-Biphenyl	17700	390	93	ug/kg	
100-52-7	Benzaldehyde	ND	970	210	ug/kg	
91-58-7	2-Chloronaphthalene	ND	390	270	ug/kg	
106-47-8	4-Chloroaniline	ND	970	120	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-27-9.5
Lab Sample ID: J43818-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 85.9

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	138000 [a]	19000	3900	ug/kg	
105-60-2	Caprolactam	ND	390	190	ug/kg	
218-01-9	Chrysene	366000 [a]	19000	3600	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	390	120	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	390	96	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	390	140	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	390	91	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	390	220	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	390	220	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	970	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	55800 [a]	19000	5100	ug/kg	
132-64-9	Dibenzofuran	171000 [a]	19000	4500	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	170	ug/kg	
84-66-2	Diethyl phthalate	ND	390	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	250	ug/kg	
206-44-0	Fluoranthene	1070000 [b]	77000	14000	ug/kg	
86-73-7	Fluorene	285000 [a]	19000	3900	ug/kg	
118-74-1	Hexachlorobenzene	ND	390	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	390	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3900	140	ug/kg	
67-72-1	Hexachloroethane	ND	970	97	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	132000 [a]	19000	6100	ug/kg	
78-59-1	Isophorone	ND	390	96	ug/kg	
91-57-6	2-Methylnaphthalene	48500 [a]	19000	6300	ug/kg	
88-74-4	2-Nitroaniline	ND	970	120	ug/kg	
99-09-2	3-Nitroaniline	ND	970	150	ug/kg	
100-01-6	4-Nitroaniline	ND	970	130	ug/kg	
91-20-3	Naphthalene	101000 [a]	19000	5400	ug/kg	
98-95-3	Nitrobenzene	ND	390	130	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	390	120	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	970	80	ug/kg	
85-01-8	Phenanthrene	1490000 [b]	77000	17000	ug/kg	
129-00-0	Pyrene	850000 [a]	19000	3300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	92%	0% [c]	0% [c]	33-105%
4165-62-2	Phenol-d5	94%	0% [c]	0% [c]	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-27-9.5
Lab Sample ID: J43818-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 85.9

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	73%	0% [c]	0% [c]	33-124%
4165-60-0	Nitrobenzene-d5	103%	0% [c]	0% [c]	26-113%
321-60-8	2-Fluorobiphenyl	102%	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	201% [d]	0% [c]	0% [c]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.52	230000	ug/kg	J
	Indane	6.19	17000	ug/kg	J
	Naphthalene, -methyl-	10.25	8500	ug/kg	J
	Fluorene, -methyl-	15.04	18000	ug/kg	J
	Fluorene, -methyl-	15.12	9600	ug/kg	J
	Fluorene, -methyl-	15.24	10000	ug/kg	J
	unknown	15.42	11000	ug/kg	J
	unknown	15.48	10000	ug/kg	J
	unknown	15.60	9400	ug/kg	J
	Dibenzothiophene	15.66	20000	ug/kg	J
	Dibenzothiophene	15.68	19000	ug/kg	J
	Naphthalene, -phenyl-	16.75	11000	ug/kg	J
	unknown	16.90	10000	ug/kg	J
	Anthracene, -methyl-	17.19	35000	ug/kg	J
	Anthracene, -methyl-	17.28	47000	ug/kg	J
	Phenanthrene, -methyl-	17.38	27000	ug/kg	J
	Phenanthrene, -methyl-	17.48	70000	ug/kg	J
	Anthracene, -methyl-	17.54	23000	ug/kg	J
	Phenylnaphthalene	17.91	26000	ug/kg	J
	Phenanthrene, -dimethyl-	18.51	12000	ug/kg	J
	unknown	18.56	15000	ug/kg	J
	Phenanthrene, -dimethyl-	18.60	8400	ug/kg	J
206	Fluoranthene	18.91	31000	ug/kg	JN
	unknown PAH substance	19.36	31000	ug/kg	J
	unknown PAH substance	23.46	8600	ug/kg	J
	unknown PAH substance	23.71	17000	ug/kg	J
	Total TIC, Semi-Volatile		504500	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.
(d) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101306		
Lab Sample ID:	J43818-3	**Date Sampled:**	10/13/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/13/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A30149.D	1	10/25/06	LY	n/a	n/a	V3A1260
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101306		
Lab Sample ID:	J43818-3	**Date Sampled:**	10/13/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/13/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		77-121%
17060-07-0	1,2-Dichloroethane-D4	85%		65-133%
2037-26-5	Toluene-D8	90%		80-117%
460-00-4	4-Bromofluorobenzene	86%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101306		
Lab Sample ID:	J43818-3	**Date Sampled:**	10/13/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55778.D	1	10/27/06	OYA	10/18/06	OP25165	ER1966
Run #2							

	Initial Volume	Final Volume
Run #1	740 ml	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6.8	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.8	1.6	ug/l	
120-83-2	2,4-Dichlorophenol	ND	6.8	2.1	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.8	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	27	1.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	27	0.97	ug/l	
95-48-7	2-Methylphenol	ND	6.8	1.8	ug/l	
	3&4-Methylphenol	ND	6.8	1.7	ug/l	
88-75-5	2-Nitrophenol	ND	6.8	2.4	ug/l	
100-02-7	4-Nitrophenol	ND	27	1.1	ug/l	
87-86-5	Pentachlorophenol	ND	27	2.6	ug/l	
108-95-2	Phenol	ND	6.8	0.67	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.8	2.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.8	1.7	ug/l	
83-32-9	Acenaphthene	ND	2.7	0.47	ug/l	
208-96-8	Acenaphthylene	ND	2.7	0.51	ug/l	
98-86-2	Acetophenone	ND	6.8	0.51	ug/l	
120-12-7	Anthracene	ND	2.7	0.54	ug/l	
1912-24-9	Atrazine	ND	6.8	0.22	ug/l	
100-52-7	Benzaldehyde	ND	6.8	0.36	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.7	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.7	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.7	0.80	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.7	0.57	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.7	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.7	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.7	0.80	ug/l	
92-52-4	1,1'-Biphenyl	ND	2.7	0.44	ug/l	
91-58-7	2-Chloronaphthalene	ND	6.8	1.3	ug/l	
106-47-8	4-Chloroaniline	ND	6.8	0.54	ug/l	
86-74-8	Carbazole	ND	2.7	0.49	ug/l	
105-60-2	Caprolactam	ND	2.7	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101306
Lab Sample ID: J43818-3
Matrix: AQ - Equipment Blank
Method: SW846 8270C SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: n/a

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	2.7	0.34	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.7	0.88	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.7	0.72	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.7	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.7	0.58	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.7	1.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.7	0.76	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	6.8	1.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.7	0.74	ug/l	
132-64-9	Dibenzofuran	ND	6.8	0.46	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.7	0.80	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.7	0.77	ug/l	
84-66-2	Diethyl phthalate	ND	2.7	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	2.7	0.44	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.7	0.89	ug/l	
206-44-0	Fluoranthene	ND	2.7	0.34	ug/l	
86-73-7	Fluorene	ND	2.7	0.61	ug/l	
118-74-1	Hexachlorobenzene	ND	2.7	0.73	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.7	0.24	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	27	0.55	ug/l	
67-72-1	Hexachloroethane	ND	6.8	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.7	0.41	ug/l	
78-59-1	Isophorone	ND	2.7	0.80	ug/l	
91-57-6	2-Methylnaphthalene	1.0	2.7	0.55	ug/l	J
88-74-4	2-Nitroaniline	ND	6.8	0.89	ug/l	
99-09-2	3-Nitroaniline	ND	6.8	1.7	ug/l	
100-01-6	4-Nitroaniline	ND	6.8	0.98	ug/l	
91-20-3	Naphthalene	0.85	2.7	0.43	ug/l	J
98-95-3	Nitrobenzene	ND	2.7	0.57	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.7	0.63	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.8	0.70	ug/l	
85-01-8	Phenanthrene	ND	2.7	0.49	ug/l	
129-00-0	Pyrene	ND	2.7	0.45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		12-76%
4165-62-2	Phenol-d5	39%		10-59%
118-79-6	2,4,6-Tribromophenol	71%		42-128%
4165-60-0	Nitrobenzene-d5	77%		30-122%

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101306		
Lab Sample ID:	J43818-3	**Date Sampled:**	10/13/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	76%		34-113%
1718-51-0	Terphenyl-d14	91%		42-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	cycloalkane/alkene	4.94	7.1	ug/l	J
	system artifact/aldol condensation	5.05	34	ug/l	J
	unknown	25.81	9.9	ug/l	J
	Total TIC, Semi-Volatile		17	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101306
Lab Sample ID: J43818-3
Matrix: AQ - Equipment Blank
Method: SW846 8082 SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13897.D	1	10/21/06	JSE	10/19/06	OP25186	G2G569
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.57	0.11	ug/l	
11104-28-2	Aroclor 1221	ND	0.57	0.53	ug/l	
11141-16-5	Aroclor 1232	ND	0.57	0.44	ug/l	
53469-21-9	Aroclor 1242	ND	0.57	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.57	0.17	ug/l	
11097-69-1	Aroclor 1254	ND	0.57	0.12	ug/l	
11096-82-5	Aroclor 1260	ND	0.57	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		38-133%
877-09-8	Tetrachloro-m-xylene	77%		38-133%
2051-24-3	Decachlorobiphenyl	56%		18-156%
2051-24-3	Decachlorobiphenyl	56%		18-156%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101306
Lab Sample ID: J43818-3
Matrix: AQ - Equipment Blank
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	110 U	200	110	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Antimony	4.4 U	6.0	4.4	ug/l	1	10/19/06	11/01/06	ND	SW846 6010B [4]	SW846 3010A [5]
Arsenic	0.79 U	2.0	0.79	ug/l	1	10/19/06	10/25/06	LH	SW846 6010B [2]	SW846 3010A [5]
Barium	2.5 U	200	2.5	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Beryllium	0.50 U	1.0	0.50	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Cadmium	0.60 U	4.0	0.60	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Calcium	62 U	5000	62	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Chromium	1.6 U	10	1.6	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Cobalt	1.7 U	50	1.7	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Copper	2.3 U	25	2.3	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Iron	67 U	100	67	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Lead	2.6 U	3.0	2.6	ug/l	1	10/19/06	11/01/06	ND	SW846 6010B [4]	SW846 3010A [5]
Magnesium	16 U	5000	16	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Manganese	0.54 B	15	0.40	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Mercury	0.080 U	0.20	0.080	ug/l	1	10/27/06	10/28/06	YL	SW846 7470A [3]	SW846 7470A [6]
Nickel	1.6 U	40	1.6	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Potassium	65 U	5000	65	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Selenium	3.0 U	10	3.0	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Silver	1.9 U	10	1.9	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Sodium	1150 B	10000	310	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Thallium	1.3 U	2.0	1.3	ug/l	1	10/19/06	10/25/06	LH	SW846 6010B [2]	SW846 3010A [5]
Vanadium	1.9 U	50	1.9	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]
Zinc	6.6 B	20	3.3	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [5]

(1) Instrument QC Batch: MA18243
(2) Instrument QC Batch: MA18259
(3) Instrument QC Batch: MA18276
(4) Instrument QC Batch: MA18284
(5) Prep QC Batch: MP36404
(6) Prep QC Batch: MP36545

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-21-2.0		
Lab Sample ID:	J43818-4	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	94.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56486.D	1	10/27/06	MMC	10/14/06 10:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.7 g	5.0 ml	20.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2400	700	ug/kg	
71-43-2	Benzene	134	240	120	ug/kg	J
75-27-4	Bromodichloromethane	ND	1200	110	ug/kg	
75-25-2	Bromoform	ND	1200	110	ug/kg	
74-83-9	Bromomethane	ND	1200	90	ug/kg	
78-93-3	2-Butanone (MEK)	ND	2400	670	ug/kg	
75-15-0	Carbon disulfide	ND	1200	130	ug/kg	
56-23-5	Carbon tetrachloride	ND	1200	230	ug/kg	
108-90-7	Chlorobenzene	ND	1200	110	ug/kg	
75-00-3	Chloroethane	ND	1200	430	ug/kg	
67-66-3	Chloroform	ND	1200	140	ug/kg	
74-87-3	Chloromethane	ND	1200	110	ug/kg	
110-82-7	Cyclohexane	ND	1200	310	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2400	530	ug/kg	
124-48-1	Dibromochloromethane	ND	1200	130	ug/kg	
106-93-4	1,2-Dibromoethane	ND	240	140	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1200	110	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1200	120	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1200	110	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	1200	190	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1200	120	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	130	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1200	170	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1200	160	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1200	170	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1200	140	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1200	100	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1200	96	ug/kg	
100-41-4	Ethylbenzene	234	240	110	ug/kg	J
76-13-1	Freon 113	ND	1200	210	ug/kg	
591-78-6	2-Hexanone	ND	1200	330	ug/kg	
98-82-8	Isopropylbenzene	ND	1200	110	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21-2.0
Lab Sample ID: J43818-4
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 94.9

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	1200	340	ug/kg	
108-87-2	Methylcyclohexane	ND	1200	160	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	240	140	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1200	490	ug/kg	
75-09-2	Methylene chloride	ND	1200	170	ug/kg	
100-42-5	Styrene	ND	1200	80	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1200	140	ug/kg	
127-18-4	Tetrachloroethene	ND	1200	200	ug/kg	
108-88-3	Toluene	731	240	130	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1200	86	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1200	140	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1200	130	ug/kg	
79-01-6	Trichloroethene	ND	1200	130	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1200	180	ug/kg	
75-01-4	Vinyl chloride	ND	1200	160	ug/kg	
	m,p-Xylene	643	490	210	ug/kg	
95-47-6	o-Xylene	250	240	120	ug/kg	
1330-20-7	Xylene (total)	893	490	120	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-120%
17060-07-0	1,2-Dichloroethane-D4	74%		61-133%
2037-26-5	Toluene-D8	96%		75-123%
460-00-4	4-Bromofluorobenzene	104%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	16.99	5700	ug/kg	JN
	unknown	17.83	1800	ug/kg	J
	Naphthalene methyl	17.95	3500	ug/kg	J
	Naphthalene methyl	18.15	8600	ug/kg	J
	Naphthalene dimethyl	19.00	4600	ug/kg	J
	Naphthalene dimethyl	19.19	6900	ug/kg	J
	Naphthalene dimethyl	19.49	2700	ug/kg	J
	Naphthalene dimethyl	19.69	1600	ug/kg	J
	Total TIC, Volatile		35400	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21-2.0
Lab Sample ID: J43818-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 94.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3337.D	1	10/26/06	OYA	10/20/06	OP25192	E3E118
Run #2	3E3351.D	100	10/27/06	OYA	10/20/06	OP25192	E3E119
Run #3	3E3388.D	200	10/30/06	OYA	10/20/06	OP25192	E3E121

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2	30.0 g	5.0 ml
Run #3	30.0 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	880	150	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	880	220	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	880	290	ug/kg	
105-67-9	2,4-Dimethylphenol	5630	880	450	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3500	270	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3500	150	ug/kg	
95-48-7	2-Methylphenol	5060	880	170	ug/kg	
	3&4-Methylphenol	12600	880	250	ug/kg	
88-75-5	2-Nitrophenol	ND	880	220	ug/kg	
100-02-7	4-Nitrophenol	ND	3500	240	ug/kg	
87-86-5	Pentachlorophenol	ND	3500	200	ug/kg	
108-95-2	Phenol	6710	880	220	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	880	260	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	880	150	ug/kg	
83-32-9	Acenaphthene	313000 [a]	35000	9000	ug/kg	
208-96-8	Acenaphthylene	20700 [a]	35000	7100	ug/kg	J
98-86-2	Acetophenone	ND	880	110	ug/kg	
120-12-7	Anthracene	295000 [a]	35000	6800	ug/kg	
1912-24-9	Atrazine	ND	880	150	ug/kg	
56-55-3	Benzo(a)anthracene	359000 [a]	35000	8500	ug/kg	
50-32-8	Benzo(a)pyrene	249000 [a]	35000	6100	ug/kg	
205-99-2	Benzo(b)fluoranthene	210000 [a]	35000	8000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	116000 [a]	35000	9600	ug/kg	
207-08-9	Benzo(k)fluoranthene	185000 [a]	35000	13000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	350	89	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	350	130	ug/kg	
92-52-4	1,1'-Biphenyl	41000 [a]	35000	8500	ug/kg	
100-52-7	Benzaldehyde	ND	880	190	ug/kg	
91-58-7	2-Chloronaphthalene	ND	350	250	ug/kg	
106-47-8	4-Chloroaniline	ND	880	110	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21-2.0
Lab Sample ID: J43818-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 94.9

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	132000 [a]	35000	7100	ug/kg	
105-60-2	Caprolactam	ND	350	170	ug/kg	
218-01-9	Chrysene	333000 [a]	35000	6500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	350	110	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	350	87	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	350	130	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	83	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	350	200	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	350	200	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	880	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	49900 [a]	35000	9200	ug/kg	
132-64-9	Dibenzofuran	280000 [a]	35000	8200	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	350	110	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	350	150	ug/kg	
84-66-2	Diethyl phthalate	ND	350	75	ug/kg	
131-11-3	Dimethyl phthalate	ND	350	75	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	8370	350	220	ug/kg	
206-44-0	Fluoranthene	1320000 [a]	35000	6200	ug/kg	
86-73-7	Fluorene	441000 [a]	35000	7000	ug/kg	
118-74-1	Hexachlorobenzene	ND	350	100	ug/kg	
87-68-3	Hexachlorobutadiene	ND	350	120	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3500	130	ug/kg	
67-72-1	Hexachloroethane	ND	880	88	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	112000 [a]	35000	11000	ug/kg	
78-59-1	Isophorone	ND	350	87	ug/kg	
91-57-6	2-Methylnaphthalene	170000 [a]	35000	11000	ug/kg	
88-74-4	2-Nitroaniline	ND	880	110	ug/kg	
99-09-2	3-Nitroaniline	ND	880	140	ug/kg	
100-01-6	4-Nitroaniline	ND	880	120	ug/kg	
91-20-3	Naphthalene	434000 [a]	35000	9900	ug/kg	
98-95-3	Nitrobenzene	ND	350	120	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	350	110	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	880	72	ug/kg	
85-01-8	Phenanthrene	1860000 [b]	70000	15000	ug/kg	
129-00-0	Pyrene	917000 [a]	35000	6100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	109% [c]	0% [c]	0% [c]	33-105%
4165-62-2	Phenol-d5	116% [c]	0% [c]	0% [c]	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-21-2.0		
Lab Sample ID:	J43818-4	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	97%	0% [c]	0% [c]	33-124%
4165-60-0	Nitrobenzene-d5	106%	0% [c]	0% [c]	26-113%
321-60-8	2-Fluorobiphenyl	113% [c]	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	233% [d]	0% [c]	0% [c]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.53	220000	ug/kg	J
	C3 alkyl benzene	5.56	7800	ug/kg	J
	Indane	6.19	6600	ug/kg	J
	Indene	6.32	25000	ug/kg	J
	Indene, methylene-	8.51	7000	ug/kg	J
	Naphthalene, -methyl-	10.27	2300	ug/kg	J
	Naphthalene dimethyl	11.48	3100	ug/kg	J
	Naphthalene dimethyl	11.69	4000	ug/kg	J
	Naphthalene dimethyl	11.73	1700	ug/kg	J
	unknown	12.53	7000	ug/kg	J
	unknown	13.98	3700	ug/kg	J
	Dibenzofuran, -methyl	14.18	3100	ug/kg	J
	unknown PAH substance	18.92	36000	ug/kg	J
	unknown PAH substance	19.36	30000	ug/kg	J
	unknown PAH substance	19.76	2200	ug/kg	J
	unknown PAH substance	20.00	6500	ug/kg	J
	unknown PAH substance	20.12	4300	ug/kg	J
	unknown PAH substance	23.46	7700	ug/kg	J
	unknown	23.59	2900	ug/kg	J
	unknown PAH substance	23.71	17000	ug/kg	J
	unknown	24.09	4200	ug/kg	J
	unknown	24.16	5400	ug/kg	J
	Dibenzphenanthrene	25.33	2200	ug/kg	J
	unknown PAH substance	25.74	3100	ug/kg	J
	Dibenzphenanthrene	25.82	3900	ug/kg	J
	unknown PAH substance	26.31	2900	ug/kg	J
	Total TIC, Semi-Volatile		199600	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.
(d) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21-2.0
Lab Sample ID: J43818-4
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 94.9

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10200	21	4.9	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	2.0 B	2.1	0.79	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	17.9	2.1	0.79	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	93.8	21	0.31	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	1.9	0.52	0.021	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.10 U	0.52	0.10	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	10200	520	9.2	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	56.8	1.0	0.45	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	15.7	5.2	0.19	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	252	2.6	0.24	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	23600	10	7.8	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	286	2.1	0.33	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	6750	520	1.8	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	233	1.5	0.062	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.44	0.031	0.010	mg/kg	1	10/28/06	10/29/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	82.9	4.1	0.33	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	835	520	9.2	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.1 B	2.1	0.82	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	0.23 U	1.0	0.23	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	863 B	1000	35	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	0.89 U	1.0	0.89	mg/kg	1	10/26/06	10/30/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	34.8	5.2	0.24	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	504	2.1	0.30	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18270
(2) Instrument QC Batch: MA18277
(3) Instrument QC Batch: MA18283
(4) Prep QC Batch: MP36509
(5) Prep QC Batch: MP36551

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-21-6.0		
Lab Sample ID:	J43818-5	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56487.D	1	10/27/06	MMC	10/14/06 10:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.7 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	990	280	ug/kg	
71-43-2	Benzene	2000	99	47	ug/kg	
75-27-4	Bromodichloromethane	ND	490	45	ug/kg	
75-25-2	Bromoform	ND	490	43	ug/kg	
74-83-9	Bromomethane	ND	490	36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	990	270	ug/kg	
75-15-0	Carbon disulfide	ND	490	55	ug/kg	
56-23-5	Carbon tetrachloride	ND	490	94	ug/kg	
108-90-7	Chlorobenzene	ND	490	43	ug/kg	
75-00-3	Chloroethane	ND	490	170	ug/kg	
67-66-3	Chloroform	ND	490	58	ug/kg	
74-87-3	Chloromethane	ND	490	46	ug/kg	
110-82-7	Cyclohexane	ND	490	130	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	990	210	ug/kg	
124-48-1	Dibromochloromethane	ND	490	54	ug/kg	
106-93-4	1,2-Dibromoethane	ND	99	56	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	490	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	490	48	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	490	45	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	490	78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	490	47	ug/kg	
107-06-2	1,2-Dichloroethane	ND	99	54	ug/kg	
75-35-4	1,1-Dichloroethene	ND	490	68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	85.4	490	66	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	81.6	490	67	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	490	55	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	490	41	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	490	39	ug/kg	
100-41-4	Ethylbenzene	663	99	44	ug/kg	
76-13-1	Freon 113	ND	490	85	ug/kg	
591-78-6	2-Hexanone	ND	490	130	ug/kg	
98-82-8	Isopropylbenzene	373	490	46	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-21-6.0		
Lab Sample ID:	J43818-5	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	490	140	ug/kg	
108-87-2	Methylcyclohexane	ND	490	64	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	99	55	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	490	200	ug/kg	
75-09-2	Methylene chloride	ND	490	68	ug/kg	
100-42-5	Styrene	ND	490	32	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	490	57	ug/kg	
127-18-4	Tetrachloroethene	ND	490	81	ug/kg	
108-88-3	Toluene	2190	99	54	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	490	35	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	490	59	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	490	53	ug/kg	
79-01-6	Trichloroethene	69.9	490	51	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	490	72	ug/kg	
75-01-4	Vinyl chloride	ND	490	64	ug/kg	
	m,p-Xylene	532	200	87	ug/kg	
95-47-6	o-Xylene	140	99	49	ug/kg	
1330-20-7	Xylene (total)	672	200	49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-120%
17060-07-0	1,2-Dichloroethane-D4	73%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	111%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	15.28	13000	ug/kg	JN
	Naphthalene decahydro	15.35	2100	ug/kg	J
	1H-indene-dihydro-methyl	15.78	3400	ug/kg	J
	C4 alkyl benzene	15.99	2400	ug/kg	J
	C5 alkyl benzene	16.09	1700	ug/kg	J
	1H-indene-dihydro-methyl	16.29	1700	ug/kg	J
	1H-indene-dihydro-methyl	16.43	2200	ug/kg	J
	1H-Indene-dihydro-dimethyl	16.66	2700	ug/kg	J
	1H-Indene-dihydro-dimethyl	16.79	2200	ug/kg	J
91-20-3	Naphthalene	16.98	12000	ug/kg	JN
	Naphthalene methyl	17.95	2900	ug/kg	J
	Naphthalene methyl	18.14	7700	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-21-6.0		
Lab Sample ID:	J43818-5	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene dimethyl	19.00	3900	ug/kg	J
	Naphthalene dimethyl	19.18	4200	ug/kg	J
	Naphthalene dimethyl	19.48	2200	ug/kg	J
	Total TIC, Volatile		64300	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-21-6.0		
Lab Sample ID:	J43818-5	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	79.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3338.D	1	10/26/06	OYA	10/20/06	OP25192	E3E118
Run #2	3E3352.D	100	10/27/06	OYA	10/20/06	OP25192	E3E119

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2	30.0 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1100	180	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	270	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	350	ug/kg	
105-67-9	2,4-Dimethylphenol	2400	1100	540	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4200	320	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4200	180	ug/kg	
95-48-7	2-Methylphenol	1440	1100	210	ug/kg	
	3&4-Methylphenol	4020	1100	300	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	260	ug/kg	
100-02-7	4-Nitrophenol	ND	4200	290	ug/kg	
87-86-5	Pentachlorophenol	ND	4200	240	ug/kg	
108-95-2	Phenol	1630	1100	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	320	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	180	ug/kg	
83-32-9	Acenaphthene	222000 [a]	42000	11000	ug/kg	
208-96-8	Acenaphthylene	17100	420	85	ug/kg	
98-86-2	Acetophenone	ND	1100	130	ug/kg	
120-12-7	Anthracene	338000 [a]	42000	8200	ug/kg	
1912-24-9	Atrazine	ND	1100	180	ug/kg	
56-55-3	Benzo(a)anthracene	375000 [a]	42000	10000	ug/kg	
50-32-8	Benzo(a)pyrene	368000 [a]	42000	7300	ug/kg	
205-99-2	Benzo(b)fluoranthene	288000 [a]	42000	9600	ug/kg	
191-24-2	Benzo(g,h,i)perylene	213000 [a]	42000	12000	ug/kg	
207-08-9	Benzo(k)fluoranthene	228000 [a]	42000	16000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	420	110	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	160	ug/kg	
92-52-4	1,1'-Biphenyl	20100 [a]	42000	10000	ug/kg	J
100-52-7	Benzaldehyde	ND	1100	230	ug/kg	
91-58-7	2-Chloronaphthalene	ND	420	300	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	130	ug/kg	
86-74-8	Carbazole	94000 [a]	42000	8500	ug/kg	
105-60-2	Caprolactam	ND	420	200	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21-6.0
Lab Sample ID: J43818-5
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 79.0

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	355000 [a]	42000	7800	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	420	140	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	420	110	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	420	160	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	420	99	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	420	240	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	420	240	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1100	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	55800 [a]	42000	11000	ug/kg	
132-64-9	Dibenzofuran	160000 [a]	42000	9800	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	130	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	180	ug/kg	
84-66-2	Diethyl phthalate	ND	420	90	ug/kg	
131-11-3	Dimethyl phthalate	ND	420	91	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	270	ug/kg	
206-44-0	Fluoranthene	1120000 [a]	42000	7500	ug/kg	
86-73-7	Fluorene	222000 [a]	42000	8500	ug/kg	
118-74-1	Hexachlorobenzene	ND	420	120	ug/kg	
87-68-3	Hexachlorobutadiene	ND	420	140	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4200	150	ug/kg	
67-72-1	Hexachloroethane	ND	1100	110	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	186000 [a]	42000	13000	ug/kg	
78-59-1	Isophorone	ND	420	100	ug/kg	
91-57-6	2-Methylnaphthalene	67700 [a]	42000	14000	ug/kg	
88-74-4	2-Nitroaniline	ND	1100	130	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	160	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	150	ug/kg	
91-20-3	Naphthalene	281000 [a]	42000	12000	ug/kg	
98-95-3	Nitrobenzene	ND	420	150	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	420	140	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1100	87	ug/kg	
85-01-8	Phenanthrene	1260000 [a]	42000	9300	ug/kg	
129-00-0	Pyrene	872000 [a]	42000	7300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%	0% [b]	33-105%
4165-62-2	Phenol-d5	89%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	73%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	90%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-21-6.0		
Lab Sample ID:	J43818-5	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	79.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	93%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	59%	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.52	190000	ug/kg	J
	Indane	6.19	56000	ug/kg	J
	Naphthalene ethyl	11.30	24000	ug/kg	J
	Naphthalene dimethyl	11.47	66000	ug/kg	J
	Naphthalene dimethyl	11.67	85000	ug/kg	J
	Naphthalene dimethyl	11.71	27000	ug/kg	J
	Naphthalene dimethyl	11.91	35000	ug/kg	J
	Naphthalene dimethyl	12.11	22000	ug/kg	J
	Benzene, [-(,-cyclopentadien--ylidene)et	12.83	19000	ug/kg	J
	Naphthalene trimethyl	13.05	22000	ug/kg	J
	Naphthalene trimethyl	13.24	20000	ug/kg	J
	Naphthalene trimethyl	13.28	17000	ug/kg	J
	Naphthalene trimethyl	13.45	18000	ug/kg	J
	unknown	13.86	25000	ug/kg	J
	unknown	13.95	69000	ug/kg	J
	Naphthalene, -(-propenyl)-	14.02	28000	ug/kg	J
	unknown	14.15	60000	ug/kg	J
	unknown PAH substance	19.97	24000	ug/kg	J
	unknown PAH substance	23.45	70000	ug/kg	J
	unknown	23.58	23000	ug/kg	J
	unknown PAH substance	23.71	180000	ug/kg	J
	Benzaceanthrylene, -methyl-	24.08	27000	ug/kg	J
	unknown PAH substance	25.33	19000	ug/kg	J
	unknown PAH substance	25.74	30000	ug/kg	J
	unknown PAH substance	25.82	34000	ug/kg	J
	unknown PAH substance	26.32	50000	ug/kg	J
	Total TIC, Semi-Volatile		1050000	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21-6.0
Lab Sample ID: J43818-5
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 79.0

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4520	26	6.2	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.98 U	2.6	0.98	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	13.3	2.6	0.98	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	48.2	26	0.39	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.59 B	0.65	0.026	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.13 U	0.65	0.13	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	4360	650	12	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	18.3	1.3	0.57	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	5.5 B	6.5	0.23	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	45.4	3.2	0.30	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	13700	13	9.7	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	297	2.6	0.41	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	1280	650	2.2	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	94.7	1.9	0.077	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.25	0.040	0.013	mg/kg	1	10/28/06	10/29/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	13.8	5.2	0.41	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	422 B	650	12	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.4 B	2.6	1.0	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	0.28 U	1.3	0.28	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	372 B	1300	43	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.1 U	1.3	1.1	mg/kg	1	10/26/06	10/30/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	14.4	6.5	0.30	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	227	2.6	0.37	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18270
(2) Instrument QC Batch: MA18277
(3) Instrument QC Batch: MA18283
(4) Prep QC Batch: MP36509
(5) Prep QC Batch: MP36551

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-22-2.0		
Lab Sample ID:	J43818-6	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	81.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56452.D	1	10/26/06	MMC	10/14/06 10:00	n/a	VY2281
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.5 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	670	190	ug/kg	
71-43-2	Benzene	ND	67	32	ug/kg	
75-27-4	Bromodichloromethane	ND	340	31	ug/kg	
75-25-2	Bromoform	ND	340	29	ug/kg	
74-83-9	Bromomethane	ND	340	25	ug/kg	
78-93-3	2-Butanone (MEK)	ND	670	180	ug/kg	
75-15-0	Carbon disulfide	ND	340	37	ug/kg	
56-23-5	Carbon tetrachloride	ND	340	64	ug/kg	
108-90-7	Chlorobenzene	ND	340	29	ug/kg	
75-00-3	Chloroethane	ND	340	120	ug/kg	
67-66-3	Chloroform	ND	340	39	ug/kg	
74-87-3	Chloromethane	ND	340	31	ug/kg	
110-82-7	Cyclohexane	ND	340	86	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	670	140	ug/kg	
124-48-1	Dibromochloromethane	ND	340	37	ug/kg	
106-93-4	1,2-Dibromoethane	ND	67	38	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	340	31	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	340	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	340	31	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	340	54	ug/kg	
75-34-3	1,1-Dichloroethane	ND	340	32	ug/kg	
107-06-2	1,2-Dichloroethane	ND	67	37	ug/kg	
75-35-4	1,1-Dichloroethene	ND	340	46	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	340	45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	340	46	ug/kg	
78-87-5	1,2-Dichloropropane	ND	340	37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	340	28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	340	26	ug/kg	
100-41-4	Ethylbenzene	ND	67	30	ug/kg	
76-13-1	Freon 113	ND	340	58	ug/kg	
591-78-6	2-Hexanone	ND	340	92	ug/kg	
98-82-8	Isopropylbenzene	ND	340	31	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-22-2.0		
Lab Sample ID:	J43818-6	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	81.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	340	95	ug/kg	
108-87-2	Methylcyclohexane	ND	340	43	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	67	38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	340	130	ug/kg	
75-09-2	Methylene chloride	ND	340	47	ug/kg	
100-42-5	Styrene	ND	340	22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	340	39	ug/kg	
127-18-4	Tetrachloroethene	ND	340	55	ug/kg	
108-88-3	Toluene	ND	67	37	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	340	24	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	340	40	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	340	36	ug/kg	
79-01-6	Trichloroethene	ND	340	35	ug/kg	
75-69-4	Trichlorofluoromethane	ND	340	49	ug/kg	
75-01-4	Vinyl chloride	ND	340	44	ug/kg	
	m,p-Xylene	ND	130	59	ug/kg	
95-47-6	o-Xylene	ND	67	33	ug/kg	
1330-20-7	Xylene (total)	ND	130	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-120%
17060-07-0	1,2-Dichloroethane-D4	78%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	103%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene dimethyl	19.20	340	ug/kg	J
	Total TIC, Volatile		340	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-2.0
Lab Sample ID: J43818-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 81.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3339.D	1	10/26/06	OYA	10/20/06	OP25192	E3E118
Run #2	3E3353.D	5	10/27/06	OYA	10/20/06	OP25192	E3E119

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2	30.0 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	210	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	52	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	68	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	100	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	62	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	820	36	ug/kg	
95-48-7	2-Methylphenol	ND	210	40	ug/kg	
	3&4-Methylphenol	ND	210	59	ug/kg	
88-75-5	2-Nitrophenol	ND	210	51	ug/kg	
100-02-7	4-Nitrophenol	ND	820	56	ug/kg	
87-86-5	Pentachlorophenol	ND	820	46	ug/kg	
108-95-2	Phenol	ND	210	51	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	62	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	34	ug/kg	
83-32-9	Acenaphthene	867	82	21	ug/kg	
208-96-8	Acenaphthylene	443	82	17	ug/kg	
98-86-2	Acetophenone	ND	210	26	ug/kg	
120-12-7	Anthracene	1850	82	16	ug/kg	
1912-24-9	Atrazine	ND	210	35	ug/kg	
56-55-3	Benzo(a)anthracene	7710 [a]	410	99	ug/kg	
50-32-8	Benzo(a)pyrene	8450 [a]	410	71	ug/kg	
205-99-2	Benzo(b)fluoranthene	7550 [a]	410	93	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3980 [a]	410	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	6220 [a]	410	150	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	82	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	82	31	ug/kg	
92-52-4	1,1'-Biphenyl	26.0	82	20	ug/kg	J
100-52-7	Benzaldehyde	ND	210	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	82	57	ug/kg	
106-47-8	4-Chloroaniline	ND	210	25	ug/kg	
86-74-8	Carbazole	514	82	17	ug/kg	
105-60-2	Caprolactam	ND	82	39	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-2.0
Lab Sample ID: J43818-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 81.3

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	7400 [a]	410	76	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	82	26	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	82	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	82	31	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	82	19	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	82	48	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	82	47	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	39	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1710	82	21	ug/kg	
132-64-9	Dibenzofuran	215	82	19	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	82	26	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	82	35	ug/kg	
84-66-2	Diethyl phthalate	ND	82	18	ug/kg	
131-11-3	Dimethyl phthalate	ND	82	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	627	82	52	ug/kg	
206-44-0	Fluoranthene	14100 [a]	410	73	ug/kg	
86-73-7	Fluorene	511	82	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	82	24	ug/kg	
87-68-3	Hexachlorobutadiene	ND	82	27	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	820	29	ug/kg	
67-72-1	Hexachloroethane	ND	210	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3920 [a]	410	130	ug/kg	
78-59-1	Isophorone	ND	82	20	ug/kg	
91-57-6	2-Methylnaphthalene	109	82	27	ug/kg	
88-74-4	2-Nitroaniline	ND	210	26	ug/kg	
99-09-2	3-Nitroaniline	ND	210	32	ug/kg	
100-01-6	4-Nitroaniline	ND	210	28	ug/kg	
91-20-3	Naphthalene	252	82	23	ug/kg	
98-95-3	Nitrobenzene	ND	82	29	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	82	26	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	17	ug/kg	
85-01-8	Phenanthrene	5690 [a]	410	90	ug/kg	
129-00-0	Pyrene	11600 [a]	410	71	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%	76%	33-105%
4165-62-2	Phenol-d5	68%	70%	34-110%
118-79-6	2,4,6-Tribromophenol	75%	76%	33-124%
4165-60-0	Nitrobenzene-d5	78%	74%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-2.0
Lab Sample ID: J43818-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 81.3

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	83%	81%	40-106%
1718-51-0	Terphenyl-d14	115%	85%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.60	180000	ug/kg	J
	Anthracene, -methyl-	17.08	1100	ug/kg	J
	Anthracene, -methyl-	17.14	1300	ug/kg	J
	Anthracene, methyl-	17.23	670	ug/kg	J
	unknown	17.33	2300	ug/kg	J
	Anthracene, -methyl-	17.40	830	ug/kg	J
	Phenylnaphthalene	17.82	780	ug/kg	J
	Phenanthrene, -dimethyl-	18.42	700	ug/kg	J
	unknown	18.48	750	ug/kg	J
	Cyclopenta(def)phenanthrenone	18.57	610	ug/kg	J
	unknown PAH substance	19.88	710	ug/kg	J
	unknown PAH substance	22.46	600	ug/kg	J
	unknown PAH substance	22.83	8100	ug/kg	J
	unknown	23.04	4100	ug/kg	J
	unknown	23.19	630	ug/kg	J
	unknown PAH substance	23.41	3300	ug/kg	J
	alkane	23.51	890	ug/kg	J
	unknown	23.55	570	ug/kg	J
	unknown PAH substance	23.65	4700	ug/kg	J
	unknown	24.05	1100	ug/kg	J
	unknown	24.11	2000	ug/kg	J
	unknown PAH substance	24.40	4600	ug/kg	J
	unknown	24.47	2400	ug/kg	J
	unknown PAH substance	25.70	760	ug/kg	J
	unknown PAH substance	25.77	1100	ug/kg	J
	unknown PAH substance	26.24	980	ug/kg	J
	Total TIC, Semi-Volatile		45580	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-2.0
Lab Sample ID: J43818-6
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 81.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G13855.D	1	10/20/06	JSE	10/17/06	OP25050	G2G566
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	7.7	ug/kg	
11104-28-2	Aroclor 1221	ND	40	24	ug/kg	
11141-16-5	Aroclor 1232	ND	40	22	ug/kg	
53469-21-9	Aroclor 1242	ND	40	13	ug/kg	
12672-29-6	Aroclor 1248	ND	40	14	ug/kg	
11097-69-1	Aroclor 1254	ND	40	19	ug/kg	
11096-82-5	Aroclor 1260	252	40	8.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		37-140%
877-09-8	Tetrachloro-m-xylene	97%		37-140%
2051-24-3	Decachlorobiphenyl	90%		40-151%
2051-24-3	Decachlorobiphenyl	99%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-2.0
Lab Sample ID: J43818-6
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 81.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6740	25	6.0	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	41.0	2.5	0.95	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	220	2.5	0.95	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	195	25	0.38	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.29 B	0.63	0.025	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.13 U	0.63	0.13	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	40800	630	11	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	84.1	1.3	0.55	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	5.6 B	6.3	0.23	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	91.1	3.1	0.29	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	31800	13	9.5	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	790	2.5	0.40	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	2360	630	2.2	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	361	1.9	0.075	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	1.3	0.078	0.026	mg/kg	2	10/28/06	10/29/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	23.1	5.0	0.40	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	1020	630	11	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	0.99 U	2.5	0.99	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	0.28 U	1.3	0.28	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	369 B	1300	42	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium [a]	11 U	13	11	mg/kg	10	10/26/06	11/01/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	25.8	6.3	0.29	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	117	2.5	0.36	mg/kg	1	10/26/06	10/27/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18270
(2) Instrument QC Batch: MA18277
(3) Instrument QC Batch: MA18284
(4) Prep QC Batch: MP36509
(5) Prep QC Batch: MP36551

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SB-22-2.0
Lab Sample ID: J43818-6
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 81.3

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.27 U	1.2	0.27	mg/kg	1	10/28/06 10:48	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	84.1	2.5		mg/kg	1	10/28/06 10:48	IJ	SW846 6010/7196A M
Redox Potential Vs H2	386			mv	1	10/20/06	ST	ASTM D1498-76M
Solids, Percent	81.3			%	1	10/26/06	HF	EPA 160.3 M
pH	6.83			su	1	10/19/06	LMM	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-22-2.0		
Lab Sample ID:	J43818-6R	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
		Percent Solids:	81.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.50 B	1.2	0.27	mg/kg	1	11/10/06 16:55	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-22-16		
Lab Sample ID:	J43818-7	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	90.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y56465.D	1	10/27/06	MMC	10/14/06 10:00	n/a	VY2282
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.6 g	5.0 ml	2.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	41000	12000	ug/kg	
71-43-2	Benzene	2930	4100	2000	ug/kg	J
75-27-4	Bromodichloromethane	ND	20000	1900	ug/kg	
75-25-2	Bromoform	ND	20000	1800	ug/kg	
74-83-9	Bromomethane	ND	20000	1500	ug/kg	
78-93-3	2-Butanone (MEK)	ND	41000	11000	ug/kg	
75-15-0	Carbon disulfide	ND	20000	2300	ug/kg	
56-23-5	Carbon tetrachloride	ND	20000	3900	ug/kg	
108-90-7	Chlorobenzene	ND	20000	1800	ug/kg	
75-00-3	Chloroethane	ND	20000	7100	ug/kg	
67-66-3	Chloroform	ND	20000	2400	ug/kg	
74-87-3	Chloromethane	ND	20000	1900	ug/kg	
110-82-7	Cyclohexane	ND	20000	5200	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	41000	8800	ug/kg	
124-48-1	Dibromochloromethane	ND	20000	2200	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4100	2300	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	20000	1900	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	20000	2000	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	20000	1900	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	20000	3200	ug/kg	
75-34-3	1,1-Dichloroethane	ND	20000	2000	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4100	2200	ug/kg	
75-35-4	1,1-Dichloroethene	ND	20000	2800	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	20000	2700	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	20000	2800	ug/kg	
78-87-5	1,2-Dichloropropane	ND	20000	2300	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	20000	1700	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	20000	1600	ug/kg	
100-41-4	Ethylbenzene	8230	4100	1800	ug/kg	
76-13-1	Freon 113	ND	20000	3500	ug/kg	
591-78-6	2-Hexanone	ND	20000	5600	ug/kg	
98-82-8	Isopropylbenzene	ND	20000	1900	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-16
Lab Sample ID: J43818-7
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 90.7

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	20000	5800	ug/kg	
108-87-2	Methylcyclohexane	ND	20000	2600	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4100	2300	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20000	8100	ug/kg	
75-09-2	Methylene chloride	ND	20000	2800	ug/kg	
100-42-5	Styrene	ND	20000	1300	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20000	2300	ug/kg	
127-18-4	Tetrachloroethene	ND	20000	3400	ug/kg	
108-88-3	Toluene	8190	4100	2200	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	20000	1400	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	20000	2400	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	20000	2200	ug/kg	
79-01-6	Trichloroethene	ND	20000	2100	ug/kg	
75-69-4	Trichlorofluoromethane	ND	20000	3000	ug/kg	
75-01-4	Vinyl chloride	ND	20000	2600	ug/kg	
	m,p-Xylene	9370	8200	3600	ug/kg	
95-47-6	o-Xylene	4110	4100	2000	ug/kg	
1330-20-7	Xylene (total)	13500	8200	2000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-120%
17060-07-0	1,2-Dichloroethane-D4	85%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	103%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	15.29	47000	ug/kg	JN
91-20-3	Naphthalene	16.98	540000	ug/kg	JN
	Naphthalene methyl	17.96	78000	ug/kg	J
	Naphthalene methyl	18.16	39000	ug/kg	J
	Total TIC, Volatile		704000	ug/kg	J

(a) Diluted due to high concentration of non-target compound and turbidity.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-16
Lab Sample ID: J43818-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 90.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3340.D	1	10/26/06	OYA	10/20/06	OP25192	E3E118
Run #2	3E3354.D	200	10/27/06	OYA	10/20/06	OP25192	E3E119
Run #3	3E3389.D	400	10/30/06	OYA	10/20/06	OP25192	E3E121

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2	30.0 g	10.0 ml
Run #3	30.0 g	10.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1800	310	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1800	470	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1800	610	ug/kg	
105-67-9	2,4-Dimethylphenol	280000	1800	940	ug/kg	E
105-67-9	2,4-Dimethylphenol	ND [a]	370000	190000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	7400	560	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	7400	320	ug/kg	
95-48-7	2-Methylphenol	123000 [a]	370000	72000	ug/kg	J
	3&4-Methylphenol	292000 [a]	370000	110000	ug/kg	J
88-75-5	2-Nitrophenol	ND	1800	460	ug/kg	
100-02-7	4-Nitrophenol	ND	7400	500	ug/kg	
87-86-5	Pentachlorophenol	ND	7400	410	ug/kg	
108-95-2	Phenol	98400 [a]	370000	91000	ug/kg	J
95-95-4	2,4,5-Trichlorophenol	ND	1800	550	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1800	310	ug/kg	
83-32-9	Acenaphthene	1060000 [a]	150000	38000	ug/kg	
208-96-8	Acenaphthylene	74900 [a]	150000	30000	ug/kg	J
98-86-2	Acetophenone	ND	1800	230	ug/kg	
120-12-7	Anthracene	883000 [a]	150000	28000	ug/kg	
1912-24-9	Atrazine	ND	1800	320	ug/kg	
56-55-3	Benzo(a)anthracene	1530000 [a]	150000	36000	ug/kg	
50-32-8	Benzo(a)pyrene	1210000 [a]	150000	26000	ug/kg	
205-99-2	Benzo(b)fluoranthene	1120000 [a]	150000	34000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	551000 [a]	150000	40000	ug/kg	
207-08-9	Benzo(k)fluoranthene	839000 [a]	150000	55000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	740	190	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	740	280	ug/kg	
92-52-4	1,1'-Biphenyl	260000 [a]	150000	35000	ug/kg	
100-52-7	Benzaldehyde	ND	1800	400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	740	510	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-16
Lab Sample ID: J43818-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 90.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	1800	230	ug/kg	
86-74-8	Carbazole	544000 [a]	150000	30000	ug/kg	
105-60-2	Caprolactam	ND	740	350	ug/kg	
218-01-9	Chrysene	1670000 [a]	150000	27000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	740	240	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	740	180	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	740	280	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	740	170	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	740	430	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	740	420	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1800	350	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	220000 [a]	150000	39000	ug/kg	
132-64-9	Dibenzofuran	780000 [a]	150000	34000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	740	230	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	740	310	ug/kg	
84-66-2	Diethyl phthalate	ND	740	160	ug/kg	
131-11-3	Dimethyl phthalate	ND	740	160	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	740	470	ug/kg	
206-44-0	Fluoranthene	4510000 [a]	150000	26000	ug/kg	
86-73-7	Fluorene	1010000 [a]	150000	29000	ug/kg	
118-74-1	Hexachlorobenzene	ND	740	210	ug/kg	
87-68-3	Hexachlorobutadiene	ND	740	240	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	7400	260	ug/kg	
67-72-1	Hexachloroethane	ND	1800	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	491000 [a]	150000	47000	ug/kg	
78-59-1	Isophorone	ND	740	180	ug/kg	
91-57-6	2-Methylnaphthalene	1680000 [a]	150000	48000	ug/kg	
88-74-4	2-Nitroaniline	ND	1800	230	ug/kg	
99-09-2	3-Nitroaniline	ND	1800	280	ug/kg	
100-01-6	4-Nitroaniline	ND	1800	250	ug/kg	
91-20-3	Naphthalene	7250000 [b]	290000	83000	ug/kg	
98-95-3	Nitrobenzene	ND	740	260	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	740	240	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1800	150	ug/kg	
85-01-8	Phenanthrene	5140000 [a]	150000	32000	ug/kg	
129-00-0	Pyrene	3460000 [a]	150000	25000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	149% [c]	0% [d]	0% [d]	33-105%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-22-16		
Lab Sample ID:	J43818-7	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	90.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
4165-62-2	Phenol-d5	104%	0% [d]	0% [d]	34-110%
118-79-6	2,4,6-Tribromophenol	92%	0% [d]	0% [d]	33-124%
4165-60-0	Nitrobenzene-d5	152% [c]	0% [d]	0% [d]	26-113%
321-60-8	2-Fluorobiphenyl	97%	0% [d]	0% [d]	40-106%
1718-51-0	Terphenyl-d14	151% [c]	0% [d]	0% [d]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.49	26000	ug/kg	J
	C3 alkyl benzene	5.11	20000	ug/kg	J
	C3 alkyl benzene	5.20	8500	ug/kg	J
	C3 alkyl benzene	5.60	33000	ug/kg	J
	Benzofuran	5.64	10000	ug/kg	J
	C3 alkyl benzene	6.02	15000	ug/kg	J
	Indane	6.25	88000	ug/kg	J
	Indene	6.37	37000	ug/kg	J
	Indan, -methyl-	6.98	15000	ug/kg	J
	Propenal, -phenyl-	7.16	6500	ug/kg	J
	Benzofuran, -methyl-	7.24	28000	ug/kg	J
	unknown	7.97	33000	ug/kg	J
	unknown PAH substance	8.85	15000	ug/kg	J
	Isoquinoline	9.32	5900	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	10.41	54000	ug/kg	J
	Naphthalene dimethyl	11.58	7700	ug/kg	J
	Naphthalene dimethyl	11.79	9600	ug/kg	J
	unknown PAH substance	18.97	53000	ug/kg	J
	unknown PAH substance	19.43	52000	ug/kg	J
	unknown PAH substance	19.81	6100	ug/kg	J
	unknown PAH substance	20.06	16000	ug/kg	J
	unknown PAH substance	20.17	8700	ug/kg	J
	unknown PAH substance	20.24	5800	ug/kg	J
	unknown PAH substance	23.75	9200	ug/kg	J
	Total TIC, Semi-Volatile		537000	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution and matrix interference.
(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-22-16
Lab Sample ID: J43818-7
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 90.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	938	23	5.5	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.88 U	2.3	0.88	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	9.4	2.3	0.88	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	14.5 B	23	0.35	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.073 B	0.58	0.023	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.12 U	0.58	0.12	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	1090	580	10	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	13.4	1.2	0.51	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	2.0 B	5.8	0.21	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	16.0	2.9	0.27	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	3320	12	8.7	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	55.5	2.3	0.37	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	268 B	580	2.0	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	20.9	1.7	0.070	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.13	0.032	0.011	mg/kg	1	10/28/06	10/29/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	5.2	4.6	0.37	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	128 B	580	10	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.8 B	2.3	0.92	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	0.26 U	1.2	0.26	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	236 B	1200	39	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.0 U	1.2	1.0	mg/kg	1	10/26/06	10/30/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	3.5 B	5.8	0.27	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	24.8	2.3	0.34	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18270
(2) Instrument QC Batch: MA18277
(3) Instrument QC Batch: MA18283
(4) Prep QC Batch: MP36509
(5) Prep QC Batch: MP36551

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SB-22-16
Lab Sample ID: J43818-7
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 90.7

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.24 U	1.1	0.24	mg/kg	1	10/28/06 11:07	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	13.4	2.3		mg/kg	1	10/28/06 11:07	IJ	SW846 6010/7196A M
Redox Potential Vs H2	298			mv	1	10/20/06	ST	ASTM D1498-76M
Solids, Percent	90.7			%	1	10/26/06	HF	EPA 160.3 M
pH	8.51			su	1	10/19/06	LMM	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-22-16		
Lab Sample ID:	J43818-7R	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
		Percent Solids:	90.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.24 U	1.1	0.24	mg/kg	1	11/10/06 16:58	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL14-10.75-2.0
Lab Sample ID: J43818-8
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 86.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y56466.D	1	10/27/06	MMC	10/14/06 10:00	n/a	VY2282
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.6 g	5.0 ml	2.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	44000	13000	ug/kg	
71-43-2	Benzene	13900	4400	2100	ug/kg	
75-27-4	Bromodichloromethane	ND	22000	2000	ug/kg	
75-25-2	Bromoform	ND	22000	1900	ug/kg	
74-83-9	Bromomethane	ND	22000	1600	ug/kg	
78-93-3	2-Butanone (MEK)	ND	44000	12000	ug/kg	
75-15-0	Carbon disulfide	ND	22000	2400	ug/kg	
56-23-5	Carbon tetrachloride	ND	22000	4200	ug/kg	
108-90-7	Chlorobenzene	ND	22000	1900	ug/kg	
75-00-3	Chloroethane	ND	22000	7600	ug/kg	
67-66-3	Chloroform	ND	22000	2500	ug/kg	
74-87-3	Chloromethane	ND	22000	2000	ug/kg	
110-82-7	Cyclohexane	ND	22000	5600	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	44000	9400	ug/kg	
124-48-1	Dibromochloromethane	ND	22000	2400	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4400	2500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	22000	2000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	22000	2100	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	22000	2000	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	22000	3500	ug/kg	
75-34-3	1,1-Dichloroethane	ND	22000	2100	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4400	2400	ug/kg	
75-35-4	1,1-Dichloroethene	ND	22000	3000	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	22000	2900	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	22000	3000	ug/kg	
78-87-5	1,2-Dichloropropane	ND	22000	2400	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	22000	1800	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	22000	1700	ug/kg	
100-41-4	Ethylbenzene	40100	4400	2000	ug/kg	
76-13-1	Freon 113	ND	22000	3700	ug/kg	
591-78-6	2-Hexanone	ND	22000	6000	ug/kg	
98-82-8	Isopropylbenzene	15700	22000	2000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-10.75-2.0
Lab Sample ID: J43818-8
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 86.8

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	22000	6200	ug/kg	
108-87-2	Methylcyclohexane	ND	22000	2800	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4400	2400	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	22000	8700	ug/kg	
75-09-2	Methylene chloride	ND	22000	3000	ug/kg	
100-42-5	Styrene	ND	22000	1400	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	22000	2500	ug/kg	
127-18-4	Tetrachloroethene	ND	22000	3600	ug/kg	
108-88-3	Toluene	26600	4400	2400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	22000	1500	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	22000	2600	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	22000	2300	ug/kg	
79-01-6	Trichloroethene	ND	22000	2300	ug/kg	
75-69-4	Trichlorofluoromethane	ND	22000	3200	ug/kg	
75-01-4	Vinyl chloride	ND	22000	2800	ug/kg	
	m,p-Xylene	180000	8800	3800	ug/kg	
95-47-6	o-Xylene	90400	4400	2200	ug/kg	
1330-20-7	Xylene (total)	270000	8800	2200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-120%
17060-07-0	1,2-Dichloroethane-D4	86%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	101%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	14.20	48000	ug/kg	J
	C3 alkyl benzene	14.66	66000	ug/kg	J
496-11-7	Indane	15.29	350000	ug/kg	JN
91-20-3	Naphthalene	16.98	2500000	ug/kg	JN
95-15-8	Benzo[b]thiophene	17.10	71000	ug/kg	JN
	Naphthalene methyl	17.95	850000	ug/kg	J
	Naphthalene methyl	18.14	410000	ug/kg	J
92-52-4	Biphenyl	18.66	55000	ug/kg	JN
	Naphthalene dimethyl	19.01	67000	ug/kg	J
	Naphthalene dimethyl	19.19	62000	ug/kg	J
	Total TIC, Volatile		4479000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-10.75-2.0		
Lab Sample ID:	J43818-8	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Diluted due to high concentration of non-target compound and turbidity.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-10.75-2.0
Lab Sample ID: J43818-8
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 86.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3356.D	1	10/27/06	OYA	10/20/06	OP25192	E3E119
Run #2	3E3391.D	200	10/30/06	OYA	10/20/06	OP25192	E3E121

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2	30.0 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	960	160	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	960	240	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	960	320	ug/kg	
105-67-9	2,4-Dimethylphenol	3230	960	490	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3800	290	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3800	170	ug/kg	
95-48-7	2-Methylphenol	1190	960	190	ug/kg	
	3&4-Methylphenol	ND	960	270	ug/kg	
88-75-5	2-Nitrophenol	ND	960	240	ug/kg	
100-02-7	4-Nitrophenol	ND	3800	260	ug/kg	
87-86-5	Pentachlorophenol	ND	3800	220	ug/kg	
108-95-2	Phenol	ND	960	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	960	290	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	960	160	ug/kg	
83-32-9	Acenaphthene	949000 [a]	77000	20000	ug/kg	
208-96-8	Acenaphthylene	ND	380	78	ug/kg	
98-86-2	Acetophenone	ND	960	120	ug/kg	
120-12-7	Anthracene	1510000 [a]	77000	15000	ug/kg	
1912-24-9	Atrazine	ND	960	170	ug/kg	
56-55-3	Benzo(a)anthracene	396000 [a]	77000	19000	ug/kg	
50-32-8	Benzo(a)pyrene	181000 [a]	77000	13000	ug/kg	
205-99-2	Benzo(b)fluoranthene	183000 [a]	77000	18000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	65900 [a]	77000	21000	ug/kg	J
207-08-9	Benzo(k)fluoranthene	184000 [a]	77000	29000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	98	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	150	ug/kg	
92-52-4	1,1'-Biphenyl	120000 [a]	77000	19000	ug/kg	
100-52-7	Benzaldehyde	ND	960	210	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	270	ug/kg	
106-47-8	4-Chloroaniline	ND	960	120	ug/kg	
86-74-8	Carbazole	311000 [a]	77000	16000	ug/kg	
105-60-2	Caprolactam	ND	380	180	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-10.75-2.0
Lab Sample ID: J43818-8
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 86.8

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	417000 [a]	77000	14000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	120	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	96	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	140	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	90	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	380	220	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	380	220	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	960	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	26100 [a]	77000	20000	ug/kg	J
132-64-9	Dibenzofuran	688000 [a]	77000	18000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	120	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	160	ug/kg	
84-66-2	Diethyl phthalate	ND	380	82	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	82	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	250	ug/kg	
206-44-0	Fluoranthene	2430000 [a]	77000	14000	ug/kg	
86-73-7	Fluorene	1080000 [a]	77000	15000	ug/kg	
118-74-1	Hexachlorobenzene	ND	380	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	380	130	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3800	140	ug/kg	
67-72-1	Hexachloroethane	ND	960	96	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	78700 [a]	77000	24000	ug/kg	
78-59-1	Isophorone	ND	380	95	ug/kg	
91-57-6	2-Methylnaphthalene	764000 [a]	77000	25000	ug/kg	
88-74-4	2-Nitroaniline	ND	960	120	ug/kg	
99-09-2	3-Nitroaniline	ND	960	150	ug/kg	
100-01-6	4-Nitroaniline	ND	960	130	ug/kg	
91-20-3	Naphthalene	1600000 [a]	77000	22000	ug/kg	
98-95-3	Nitrobenzene	ND	380	130	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	380	120	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	960	79	ug/kg	
85-01-8	Phenanthrene	3620000 [a]	77000	17000	ug/kg	
129-00-0	Pyrene	1530000 [a]	77000	13000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	92%	0% [b]	33-105%
4165-62-2	Phenol-d5	93%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	135% [c]	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	97%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-10.75-2.0		
Lab Sample ID:	J43818-8	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	86.8
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	79%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	257% [c]	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.53	55000	ug/kg	J
	C3 alkyl benzene	5.09	9900	ug/kg	J
	C3 alkyl benzene	5.18	8600	ug/kg	J
	C3 alkyl benzene	5.56	21000	ug/kg	J
	C3 alkyl benzene	5.99	7700	ug/kg	J
	Indane	6.24	76000	ug/kg	J
	Indene	6.33	5400	ug/kg	J
	C4 alkyl benzene	6.51	4400	ug/kg	J
	alkane	7.09	5500	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	10.21	5800	ug/kg	J
	unknown PAH substance	19.64	4500	ug/kg	J
	unknown	19.86	6500	ug/kg	J
	unknown PAH substance	20.08	15000	ug/kg	J
	unknown PAH substance	20.19	11000	ug/kg	J
	unknown PAH substance	21.21	3800	ug/kg	J
	unknown	23.09	4600	ug/kg	J
	unknown PAH substance	23.47	8200	ug/kg	J
	unknown PAH substance	23.71	17000	ug/kg	J
	Total TIC, Semi-Volatile		214900	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to dilution and matrix interference.

Report of Analysis

Client Sample ID: TL14-10.75-2.0
Lab Sample ID: J43818-8
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 86.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60699.D	1	10/21/06	JSE	10/19/06	OP25189	GAB2740
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	120	22	ug/kg	
11104-28-2	Aroclor 1221	ND	120	69	ug/kg	
11141-16-5	Aroclor 1232	ND	120	63	ug/kg	
53469-21-9	Aroclor 1242	ND	120	37	ug/kg	
12672-29-6	Aroclor 1248	ND	120	40	ug/kg	
11097-69-1	Aroclor 1254	1660	120	55	ug/kg	
11096-82-5	Aroclor 1260	3580	120	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	793% [a]		37-140%
877-09-8	Tetrachloro-m-xylene	118%		37-140%
2051-24-3	Decachlorobiphenyl	74%		40-151%
2051-24-3	Decachlorobiphenyl	88%		40-151%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-10.75-2.0
Lab Sample ID: J43818-8
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 86.8

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5330	22	5.2	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	7.1	2.2	0.83	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	111	2.2	0.83	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	124	22	0.33	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.27 B	0.55	0.022	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	1.3	0.55	0.11	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	3580	550	9.8	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	17.4	1.1	0.48	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	9.5	5.5	0.20	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	178	2.7	0.25	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	25300	11	8.3	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	731	2.2	0.35	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	2490	550	1.9	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	101	1.6	0.066	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	2.7	0.18	0.059	mg/kg	5	10/28/06	10/29/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	22.2	4.4	0.35	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	424 B	550	9.8	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	3.7	2.2	0.87	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	1.1	1.1	0.24	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	402 B	1100	37	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium [a]	4.7 U	5.5	4.7	mg/kg	5	10/26/06	11/01/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	47.0	5.5	0.25	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	561	2.2	0.32	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18270
(2) Instrument QC Batch: MA18277
(3) Instrument QC Batch: MA18284
(4) Prep QC Batch: MP36509
(5) Prep QC Batch: MP36551

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL14-10.75-15		
Lab Sample ID:	J43818-9	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y56467.D	1	10/27/06	MMC	10/14/06 11:00	n/a	VY2282
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	2.3 g	5.0 ml	5.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	46000	13000	ug/kg	
71-43-2	Benzene	17700	4600	2200	ug/kg	
75-27-4	Bromodichloromethane	ND	23000	2100	ug/kg	
75-25-2	Bromoform	ND	23000	2000	ug/kg	
74-83-9	Bromomethane	ND	23000	1700	ug/kg	
78-93-3	2-Butanone (MEK)	ND	46000	13000	ug/kg	
75-15-0	Carbon disulfide	ND	23000	2500	ug/kg	
56-23-5	Carbon tetrachloride	ND	23000	4400	ug/kg	
108-90-7	Chlorobenzene	ND	23000	2000	ug/kg	
75-00-3	Chloroethane	ND	23000	8000	ug/kg	
67-66-3	Chloroform	ND	23000	2700	ug/kg	
74-87-3	Chloromethane	ND	23000	2100	ug/kg	
110-82-7	Cyclohexane	ND	23000	5900	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	46000	9900	ug/kg	
124-48-1	Dibromochloromethane	ND	23000	2500	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4600	2600	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	23000	2100	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	23000	2200	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	23000	2100	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	23000	3700	ug/kg	
75-34-3	1,1-Dichloroethane	ND	23000	2200	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4600	2500	ug/kg	
75-35-4	1,1-Dichloroethene	ND	23000	3200	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	23000	3100	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	23000	3100	ug/kg	
78-87-5	1,2-Dichloropropane	ND	23000	2600	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	23000	1900	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	23000	1800	ug/kg	
100-41-4	Ethylbenzene	40100	4600	2100	ug/kg	
76-13-1	Freon 113	ND	23000	3900	ug/kg	
591-78-6	2-Hexanone	ND	23000	6300	ug/kg	
98-82-8	Isopropylbenzene	4430	23000	2100	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-10.75-15
Lab Sample ID: J43818-9
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 56.6

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	23000	6500	ug/kg	
108-87-2	Methylcyclohexane	ND	23000	3000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4600	2600	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	23000	9200	ug/kg	
75-09-2	Methylene chloride	ND	23000	3200	ug/kg	
100-42-5	Styrene	ND	23000	1500	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	23000	2600	ug/kg	
127-18-4	Tetrachloroethene	ND	23000	3800	ug/kg	
108-88-3	Toluene	39100	4600	2500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	23000	1600	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	23000	2700	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	23000	2500	ug/kg	
79-01-6	Trichloroethene	ND	23000	2400	ug/kg	
75-69-4	Trichlorofluoromethane	ND	23000	3400	ug/kg	
75-01-4	Vinyl chloride	ND	23000	3000	ug/kg	
	m,p-Xylene	42300	9200	4000	ug/kg	
95-47-6	o-Xylene	16100	4600	2300	ug/kg	
1330-20-7	Xylene (total)	58400	9200	2300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-120%
17060-07-0	1,2-Dichloroethane-D4	82%		61-133%
2037-26-5	Toluene-D8	96%		75-123%
460-00-4	4-Bromofluorobenzene	100%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	14.21	40000	ug/kg	J
496-11-7	Indane	15.29	250000	ug/kg	JN
95-13-6	Indene	15.51	32000	ug/kg	JN
	1H-indene-dihydro-methyl	16.29	35000	ug/kg	J
	1H-indene-dihydro-methyl	16.43	41000	ug/kg	J
91-20-3	Naphthalene	16.98	2600000	ug/kg	JN
	Benzo[ ]thiophene	17.10	110000	ug/kg	J
	Naphthalene methyl	17.95	580000	ug/kg	J
	Naphthalene methyl	18.14	280000	ug/kg	J
92-52-4	Biphenyl	18.65	62000	ug/kg	JN
	Naphthalene ethyl	18.88	59000	ug/kg	J
	Naphthalene dimethyl	19.00	80000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-10.75-15		
Lab Sample ID:	J43818-9	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene dimethyl	19.19	77000	ug/kg	J
	Naphthalene dimethyl	19.24	42000	ug/kg	J
	Naphthalene dimethyl	19.49	29000	ug/kg	J
	Total TIC, Volatile		4317000	ug/kg	J

(a) Diluted due to high concentration of non-target compound and turbidity.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-10.75-15		
Lab Sample ID:	J43818-9	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3357.D	1	10/27/06	OYA	10/20/06	OP25192	E3E119
Run #2	3E3419.D	20	10/31/06	OYA	10/20/06	OP25192	E3E122
Run #3	3E3392.D	200	10/30/06	OYA	10/20/06	OP25192	E3E121

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2	30.2 g	5.0 ml
Run #3	30.2 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	250	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1500	370	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1500	490	ug/kg	
105-67-9	2,4-Dimethylphenol	8520	1500	750	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5900	440	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	5900	250	ug/kg	
95-48-7	2-Methylphenol	3370	1500	290	ug/kg	
	3&4-Methylphenol	7420	1500	420	ug/kg	
88-75-5	2-Nitrophenol	ND	1500	360	ug/kg	
100-02-7	4-Nitrophenol	ND	5900	400	ug/kg	
87-86-5	Pentachlorophenol	ND	5900	330	ug/kg	
108-95-2	Phenol	2830	1500	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1500	440	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1500	250	ug/kg	
83-32-9	Acenaphthene	293000 [a]	12000	3000	ug/kg	
208-96-8	Acenaphthylene	5470	590	120	ug/kg	
98-86-2	Acetophenone	ND	1500	180	ug/kg	
120-12-7	Anthracene	314000 [a]	12000	2300	ug/kg	
1912-24-9	Atrazine	ND	1500	250	ug/kg	
56-55-3	Benzo(a)anthracene	247000 [a]	12000	2800	ug/kg	
50-32-8	Benzo(a)pyrene	177000 [a]	12000	2000	ug/kg	
205-99-2	Benzo(b)fluoranthene	154000 [a]	12000	2700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	80200 [a]	12000	3200	ug/kg	
207-08-9	Benzo(k)fluoranthene	118000 [a]	12000	4400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	590	150	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	590	220	ug/kg	
92-52-4	1,1'-Biphenyl	45600 [a]	12000	2800	ug/kg	
100-52-7	Benzaldehyde	ND	1500	320	ug/kg	
91-58-7	2-Chloronaphthalene	ND	590	410	ug/kg	
106-47-8	4-Chloroaniline	ND	1500	180	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-10.75-15
Lab Sample ID: J43818-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 56.6

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	114000 [b]	120000	24000	ug/kg	J
86-74-8	Carbazole	ND [a]	12000	2400	ug/kg	
105-60-2	Caprolactam	ND	590	280	ug/kg	
218-01-9	Chrysene	228000 [a]	12000	2200	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	590	190	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	590	150	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	590	220	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	590	140	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	340	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	330	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	280	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33700 [a]	12000	3100	ug/kg	
132-64-9	Dibenzofuran	218000 [a]	12000	2700	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	590	190	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	590	250	ug/kg	
84-66-2	Diethyl phthalate	ND	590	130	ug/kg	
131-11-3	Dimethyl phthalate	ND	590	130	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	1780	590	370	ug/kg	
206-44-0	Fluoranthene	691000 [b]	120000	21000	ug/kg	
86-73-7	Fluorene	288000 [a]	12000	2300	ug/kg	
118-74-1	Hexachlorobenzene	ND	590	170	ug/kg	
87-68-3	Hexachlorobutadiene	ND	590	190	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	5900	210	ug/kg	
67-72-1	Hexachloroethane	ND	1500	150	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	83600 [a]	12000	3700	ug/kg	
78-59-1	Isophorone	ND	590	150	ug/kg	
91-57-6	2-Methylnaphthalene	251000 [a]	12000	3800	ug/kg	
88-74-4	2-Nitroaniline	ND	1500	180	ug/kg	
99-09-2	3-Nitroaniline	ND	1500	230	ug/kg	
100-01-6	4-Nitroaniline	ND	1500	200	ug/kg	
91-20-3	Naphthalene	746000 [b]	120000	33000	ug/kg	
98-95-3	Nitrobenzene	ND	590	200	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	590	190	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	120	ug/kg	
85-01-8	Phenanthrene	1100000 [b]	120000	26000	ug/kg	
129-00-0	Pyrene	572000 [a]	12000	2000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	85%	78%	0% [c]	33-105%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-10.75-15		
Lab Sample ID:	J43818-9	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
4165-62-2	Phenol-d5	89%	49%	0% [c]	34-110%
118-79-6	2,4,6-Tribromophenol	70%	53%	0% [c]	33-124%
4165-60-0	Nitrobenzene-d5	79%	91%	0% [c]	26-113%
321-60-8	2-Fluorobiphenyl	92%	74%	0% [c]	40-106%
1718-51-0	Terphenyl-d14	158% [d]	95%	0% [c]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.52	310000	ug/kg	J
	C3 alkyl benzene	5.08	21000	ug/kg	J
	C3 alkyl benzene	5.55	21000	ug/kg	J
	Indane	6.19	100000	ug/kg	J
	Naphthalene ethyl	11.30	59000	ug/kg	J
	Naphthalene dimethyl	11.46	130000	ug/kg	J
	Naphthalene dimethyl	11.66	150000	ug/kg	J
	Naphthalene dimethyl	11.71	79000	ug/kg	J
	Naphthalene dimethyl	11.90	56000	ug/kg	J
	Naphthalene dimethyl	11.94	21000	ug/kg	J
	Naphthalene dimethyl	12.09	40000	ug/kg	J
	unknown	12.50	220000	ug/kg	J
	Naphthalenecarbonitrile	12.65	25000	ug/kg	J
	Naphthalene, -(-methylethyl)-	12.70	19000	ug/kg	J
	-Naphthalenol	12.77	17000	ug/kg	J
	unknown	12.82	29000	ug/kg	J
	Naphthalene trimethyl	13.04	31000	ug/kg	J
	Naphthalene trimethyl	13.23	28000	ug/kg	J
	Naphthalene trimethyl	13.27	24000	ug/kg	J
	Naphthalene trimethyl	13.43	33000	ug/kg	J
	unknown	13.85	46000	ug/kg	J
	unknown	13.94	150000	ug/kg	J
	Naphthalene, -(-propenyl)-	14.01	94000	ug/kg	J
	unknown	14.14	120000	ug/kg	J
	unknown PAH substance	14.19	15000	ug/kg	J
	unknown PAH substance	23.66	32000	ug/kg	J
	Total TIC, Semi-Volatile		1560000	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.
(d) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14-10.75-15		
Lab Sample ID:	J43818-9	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	56.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60700.D	1	10/21/06	JSE	10/19/06	OP25189	GAB2740
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	170	32	ug/kg	
11104-28-2	Aroclor 1221	ND	170	100	ug/kg	
11141-16-5	Aroclor 1232	ND	170	92	ug/kg	
53469-21-9	Aroclor 1242	ND	170	54	ug/kg	
12672-29-6	Aroclor 1248	ND	170	59	ug/kg	
11097-69-1	Aroclor 1254	ND	170	81	ug/kg	
11096-82-5	Aroclor 1260	ND	170	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	505% [a]		37-140%
877-09-8	Tetrachloro-m-xylene	119%		37-140%
2051-24-3	Decachlorobiphenyl	100%		40-151%
2051-24-3	Decachlorobiphenyl	108%		40-151%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14-10.75-15
Lab Sample ID: J43818-9
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 56.6

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6050	34	8.1	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	1.3 U	3.4	1.3	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	2.9 B	3.4	1.3	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	19.8 B	34	0.51	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.23 B	0.85	0.034	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.17 U	0.85	0.17	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	8540	850	15	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	11.6	1.7	0.75	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	3.3 B	8.5	0.31	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	12.6	4.2	0.39	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	9550	17	13	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	22.9	3.4	0.54	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	2380	850	2.9	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	62.7	2.5	0.10	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.52	0.054	0.018	mg/kg	1	10/28/06	10/29/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	7.4	6.8	0.54	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	1230	850	15	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.3 U	3.4	1.3	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	0.37 U	1.7	0.37	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	2930	1700	57	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.5 U	1.7	1.5	mg/kg	1	10/26/06	10/30/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	13.8	8.5	0.39	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	27.7	3.4	0.49	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18270
(2) Instrument QC Batch: MA18277
(3) Instrument QC Batch: MA18283
(4) Prep QC Batch: MP36509
(5) Prep QC Batch: MP36551

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-26-14		
Lab Sample ID:	J43818-10	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56488.D	1	10/27/06	MMC	10/14/06 11:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.1 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	990	280	ug/kg	
71-43-2	Benzene	263	99	47	ug/kg	
75-27-4	Bromodichloromethane	ND	500	45	ug/kg	
75-25-2	Bromoform	ND	500	43	ug/kg	
74-83-9	Bromomethane	ND	500	37	ug/kg	
78-93-3	2-Butanone (MEK)	ND	990	270	ug/kg	
75-15-0	Carbon disulfide	ND	500	55	ug/kg	
56-23-5	Carbon tetrachloride	ND	500	94	ug/kg	
108-90-7	Chlorobenzene	ND	500	43	ug/kg	
75-00-3	Chloroethane	ND	500	170	ug/kg	
67-66-3	Chloroform	ND	500	58	ug/kg	
74-87-3	Chloromethane	ND	500	46	ug/kg	
110-82-7	Cyclohexane	ND	500	130	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	990	210	ug/kg	
124-48-1	Dibromochloromethane	ND	500	54	ug/kg	
106-93-4	1,2-Dibromoethane	ND	99	56	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	500	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	500	48	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	500	46	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	500	79	ug/kg	
75-34-3	1,1-Dichloroethane	ND	500	47	ug/kg	
107-06-2	1,2-Dichloroethane	ND	99	54	ug/kg	
75-35-4	1,1-Dichloroethene	ND	500	68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	500	67	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	500	68	ug/kg	
78-87-5	1,2-Dichloropropane	ND	500	55	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	500	41	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	500	39	ug/kg	
100-41-4	Ethylbenzene	ND	99	45	ug/kg	
76-13-1	Freon 113	ND	500	85	ug/kg	
591-78-6	2-Hexanone	ND	500	130	ug/kg	
98-82-8	Isopropylbenzene	ND	500	46	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-26-14		
Lab Sample ID:	J43818-10	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	500	140	ug/kg	
108-87-2	Methylcyclohexane	ND	500	64	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	99	55	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	200	ug/kg	
75-09-2	Methylene chloride	ND	500	69	ug/kg	
100-42-5	Styrene	ND	500	32	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	57	ug/kg	
127-18-4	Tetrachloroethene	ND	500	82	ug/kg	
108-88-3	Toluene	66.9	99	54	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	500	35	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	500	59	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	500	53	ug/kg	
79-01-6	Trichloroethene	ND	500	52	ug/kg	
75-69-4	Trichlorofluoromethane	ND	500	72	ug/kg	
75-01-4	Vinyl chloride	ND	500	64	ug/kg	
	m,p-Xylene	ND	200	87	ug/kg	
95-47-6	o-Xylene	ND	99	49	ug/kg	
1330-20-7	Xylene (total)	ND	200	49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-120%
17060-07-0	1,2-Dichloroethane-D4	73%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	102%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	15.29	1500	ug/kg	JN
91-20-3	Naphthalene	16.99	6500	ug/kg	JN
	Naphthalene methyl	17.95	4300	ug/kg	J
	Naphthalene methyl	18.15	4600	ug/kg	J
	Naphthalene ethyl	18.88	550	ug/kg	J
	Naphthalene dimethyl	19.00	2600	ug/kg	J
	Naphthalene dimethyl	19.19	3500	ug/kg	J
	Naphthalene dimethyl	19.48	1900	ug/kg	J
	Naphthalene dimethyl	19.69	970	ug/kg	J
	Total TIC, Volatile		26420	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-26-14		
Lab Sample ID:	J43818-10	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3420.D	1	10/31/06	OYA	10/20/06	OP25192	E3E122
Run #2	3E3355.D	5	10/27/06	OYA	10/20/06	OP25192	E3E119
Run #3	3E3390.D	25	10/30/06	OYA	10/20/06	OP25192	E3E121

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2	30.2 g	1.0 ml
Run #3	30.2 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	220	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	57	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	74	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	110	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	890	68	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	890	39	ug/kg	
95-48-7	2-Methylphenol	50.0	220	44	ug/kg	J
	3&4-Methylphenol	98.3	220	64	ug/kg	J
88-75-5	2-Nitrophenol	ND	220	55	ug/kg	
100-02-7	4-Nitrophenol	ND	890	61	ug/kg	
87-86-5	Pentachlorophenol	ND	890	50	ug/kg	
108-95-2	Phenol	ND	220	55	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	67	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	37	ug/kg	
83-32-9	Acenaphthene	9140 [a]	450	110	ug/kg	
208-96-8	Acenaphthylene	2110	89	18	ug/kg	
98-86-2	Acetophenone	ND	220	28	ug/kg	
120-12-7	Anthracene	23400 [b]	2200	430	ug/kg	
1912-24-9	Atrazine	ND	220	38	ug/kg	
56-55-3	Benzo(a)anthracene	18600 [a]	450	110	ug/kg	
50-32-8	Benzo(a)pyrene	16500 [a]	450	77	ug/kg	
205-99-2	Benzo(b)fluoranthene	14700 [a]	450	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	6680 [a]	450	120	ug/kg	
207-08-9	Benzo(k)fluoranthene	10500 [a]	450	170	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	89	23	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	89	34	ug/kg	
92-52-4	1,1'-Biphenyl	1110	89	21	ug/kg	
100-52-7	Benzaldehyde	ND	220	49	ug/kg	
91-58-7	2-Chloronaphthalene	ND	89	62	ug/kg	
106-47-8	4-Chloroaniline	ND	220	28	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-26-14
Lab Sample ID: J43818-10
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 74.4

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	4220	89	18	ug/kg	
105-60-2	Caprolactam	ND	89	43	ug/kg	
218-01-9	Chrysene	16800 [a]	450	82	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	89	29	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	89	22	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	89	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	89	21	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	89	52	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	89	51	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	220	42	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2580	89	23	ug/kg	
132-64-9	Dibenzofuran	8180 [a]	450	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	89	28	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	89	38	ug/kg	
84-66-2	Diethyl phthalate	ND	89	19	ug/kg	
131-11-3	Dimethyl phthalate	ND	89	19	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	115	89	57	ug/kg	
206-44-0	Fluoranthene	53300 [b]	2200	390	ug/kg	
86-73-7	Fluorene	12500 [a]	450	89	ug/kg	
118-74-1	Hexachlorobenzene	ND	89	26	ug/kg	
87-68-3	Hexachlorobutadiene	ND	89	29	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	890	32	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	6800 [a]	450	140	ug/kg	
78-59-1	Isophorone	ND	89	22	ug/kg	
91-57-6	2-Methylnaphthalene	4410 [a]	450	140	ug/kg	
88-74-4	2-Nitroaniline	ND	220	28	ug/kg	
99-09-2	3-Nitroaniline	ND	220	34	ug/kg	
100-01-6	4-Nitroaniline	ND	220	31	ug/kg	
91-20-3	Naphthalene	12100 [a]	450	130	ug/kg	
98-95-3	Nitrobenzene	ND	89	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	89	29	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	18	ug/kg	
85-01-8	Phenanthrene	50200 [b]	2200	490	ug/kg	
129-00-0	Pyrene	42900 [b]	2200	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	70%	66%	41%	33-105%
4165-62-2	Phenol-d5	69%	58%	55%	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-26-14
Lab Sample ID: J43818-10
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 74.4

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	72%	62%	56%	33-124%
4165-60-0	Nitrobenzene-d5	78%	72%	67%	26-113%
321-60-8	2-Fluorobiphenyl	80%	73%	74%	40-106%
1718-51-0	Terphenyl-d14	82%	67%	79%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.52	110000	ug/kg	J
90-12-0	Naphthalene,1-methyl-	10.16	4500	ug/kg	J
	Naphthalene dimethyl	11.39	3000	ug/kg	J
	Naphthalene dimethyl	11.59	3800	ug/kg	J
	Naphthalene dimethyl	11.62	1500	ug/kg	J
	Naphthalene dimethyl	11.84	1700	ug/kg	J
	Naphthalene dimethyl	12.04	1000	ug/kg	J
	Naphthalene trimethyl	12.90	1000	ug/kg	J
	Naphthalene trimethyl	12.97	1200	ug/kg	J
	Naphthalene trimethyl	13.16	1000	ug/kg	J
	Naphthalene trimethyl	13.20	1000	ug/kg	J
	Naphthalene trimethyl	13.37	900	ug/kg	J
	unknown	13.77	1200	ug/kg	J
	Benzene, '-(chloromethylene)bis	13.84	3000	ug/kg	J
	Biphenyl,-methyl-	13.92	1200	ug/kg	J
	Dibenzofuran, -methyl-	14.05	2800	ug/kg	J
	unknown	22.72	1300	ug/kg	J
	unknown	22.99	1400	ug/kg	J
	unknown PAH substance	23.35	3500	ug/kg	J
	unknown	23.50	1500	ug/kg	J
	unknown PAH substance	23.60	8600	ug/kg	J
	unknown	23.98	1500	ug/kg	J
	unknown PAH substance	25.20	950	ug/kg	J
	unknown PAH substance	25.60	1200	ug/kg	J
	unknown PAH substance	25.67	1300	ug/kg	J
	unknown PAH substance	26.12	2100	ug/kg	J
	Total TIC, Semi-Volatile		52150	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-26-14
Lab Sample ID: J43818-10
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 74.4

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5700	26	6.2	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.99 U	2.6	0.99	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	124	2.6	0.99	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	44.5	26	0.39	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.18 B	0.65	0.026	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.13 U	0.65	0.13	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	8670	650	12	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	14.2	1.3	0.57	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	7.8	6.5	0.23	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	29.9	3.3	0.30	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	15500	13	9.8	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	15.1	2.6	0.42	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	2220	650	2.3	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	61.5	2.0	0.078	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.038 B	0.043	0.014	mg/kg	1	10/28/06	10/29/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	19.3	5.2	0.42	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	356 B	650	12	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.0 U	2.6	1.0	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Silver	0.29 U	1.3	0.29	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	634 B	1300	44	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.1 U	1.3	1.1	mg/kg	1	10/26/06	10/30/06	ND	SW846 6010B [3]	SW846 3050B [4]
Vanadium	19.8	6.5	0.30	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	22.4	2.6	0.38	mg/kg	1	10/26/06	10/28/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18270
(2) Instrument QC Batch: MA18277
(3) Instrument QC Batch: MA18283
(4) Prep QC Batch: MP36509
(5) Prep QC Batch: MP36551

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SB-26-14
Lab Sample ID: J43818-10
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/13/06
Date Received: 10/13/06
Percent Solids: 74.4

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.30 U	1.3	0.30	mg/kg	1	10/28/06 11:07	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	14.2	2.6		mg/kg	1	10/28/06 11:07	IJ	SW846 6010/7196A M
Redox Potential Vs H2	240			mv	1	10/20/06	ST	ASTM D1498-76M
Solids, Percent	74.4			%	1	10/26/06	HF	EPA 160.3 M
pH	8.73			su	1	10/19/06	LMM	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-26-14		
Lab Sample ID:	J43818-10R	**Date Sampled:**	10/13/06
Matrix:	SO - Soil	**Date Received:**	10/13/06
		Percent Solids:	74.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.30 U	1.3	0.30	mg/kg	1	11/10/06 16:58	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TB-101306		
Lab Sample ID:	J43818-11	**Date Sampled:**	10/13/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/13/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A30150.D	1	10/25/06	LY	n/a	n/a	V3A1260
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-101306		
Lab Sample ID:	J43818-11	**Date Sampled:**	10/13/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/13/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		77-121%
17060-07-0	1,2-Dichloroethane-D4	87%		65-133%
2037-26-5	Toluene-D8	91%		80-117%
460-00-4	4-Bromofluorobenzene	87%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SME, FB, TB

J43818

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 38999.20022
COC# 30916-101306-Soil

Sampling Co.:	CH2M HILL	Privileged & Confidential	Site Name: Quanta Resources (Edgewater)
Client Contact: (name, co., address)		EDD To: amy.klopper@ch2m.com, john.mitchell@ch2m.com	Location of Site: Edgewater, NJ
Jennifer Simms		Sampler: Austin Hareclerode	Phase:
1700 Market Street, Suite 1600		PO #	Sampling Program: Quanta 2006 ARI
Philadelphia, PA 19103		Analysis Turnaround Time (TAT): 10	Lab Proj # (SDG):
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com		Consultant: CH2M	Lab ID: ACTD
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com			Site ID: Quanta
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, [illegible]		Full Report TAT:	Lab Job #:
Invoice To: jennifer.simms@ch2m.com			Authorized User: Honeywell

Text & Excel File Drive — Excel & Text File Order

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082	Gr 61 SW7196	Sampling Method (code)	Lab Sample Numbers
											Units											
1	SB-27	0	2	SB-27-1.0	10/13/06	0900	Soil	Soil	Reg	2	C	N	X	X						1	10-11-06 CG 20
2	SB-27	9	10	SB-27-9.5	10/13/06	0915	Soil	Soil	Reg	2	C	N	X	X						2	10-12-06 JM
3	Equip Blank	—	—	EB-101306	10/13/06	0730	Aqueous	DI	EB	7	G	N	X	X	X	X				3	0 1 6 NC/S Amb
4	SB-21	1	3	SB-21-2.0	10/13/06	0930	Soil	Soil	Reg	2	C	N	X	X	X					4	10-13-06 JM
5	SB-21	5	7	SB-21-6.0	10/13/06	0945	Soil	Soil	Reg	2	C	N	X	X	X					5	
6	SB-22	1	3	SB-22-2.0	10/13/06	1045	Soil	Soil	Reg	2	C	N	X	X	X	X			X	6	EX62, 14 JBM
7	SB-22	15	17	SB-22-16	10/13/06	1100	Soil	Soil	Reg	2	C	N	X	X	X	(AA)			X	7	EX13, MS24, 20990
8	TL 14-10.75	1	3	TL 14-10.75-2.0	10/13/06	1300	Soil	Soil	Reg	2	C	N	X	X	X	X				8	
9	TL 14-10.75	14	16	TL 14-10.75-15	10/13/06	1315	Soil	Soil	Reg	2	C	N	X	X	X	X				9	
10	SB-26	13	15	SB-26-14	10/13/06	1430	Soil	Soil	Reg	2	C	N	X	X	X				X	10	
11	Trip Blank	—	—	TB-101306	10/13/06	—	Aqueous	DI	TB	2	G	N	X							11	
12																					

See worksheet SW6010 - Sample for Mobile Prep and Analysis (Pb)

Relinquished by	Company	Received by	Company	Date/Time	Condition		Custody Seals Intact	
[illegible]	CH2M HILL			10/13/06 1705	Cooler Temp.			
Relinquished by	Company	Received by	Company	Date/Time	Condition		Custody Seals Intact	
	10/13/06 2130			10-13-06 2130	Cooler Temp.			

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2), 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

IA

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

3.6°C

J43818: Chain of Custody
Page 1 of 2

Job Change Order: J43818_10/30/2006

Requested Date:	10/30/2006	**Received Date:**	10/13/2006
Account Name:	CH2M Hill	**Due Date:**	10/27/2006
Project Description:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	14

Sample #:
J43818-6, 7, 10

Change: Relog for XXCRAR

Sample #:
J43818-6

Change: Relog for XXCRAR as the QC sample as well.

SB-22-2.0

Above Changes Per: Lab **Date:** 10/30/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

J43818: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 ARI (SOIL) Edgewater, NJ

PO#917730 COC#30916-101606

Accutest Job Number: J44000

Sampling Dates: 10/16/06 - 10/17/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **96**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J44000

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730 COC#30916-101606

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44000-1	10/16/06	08:30	AH	10/17/06	AQ	Equipment Blank	EB-101606
J44000-2	10/16/06	08:45	AH	10/17/06	SO	Soil	TL15-10.75-1.0
J44000-3	10/16/06	08:50	AH	10/17/06	SO	Soil	TL15-10.75-8.0
J44000-4	10/16/06	11:00	AH	10/17/06	SO	Soil	TL15-10.75-47
J44000-5	10/16/06	10:30	AH	10/17/06	SO	Soil	TL15-10.75-41
J44000-6	10/16/06	13:45	AH	10/17/06	SO	Soil	SB-24-1.0
J44000-6R	10/16/06	13:45	AH	10/17/06	SO	Soil	SB-24-1.0
J44000-6RD	10/16/06	13:45	AH	10/17/06	SO	Soil Dup/MSD	SB-24-1.0
J44000-6RS	10/16/06	13:45	AH	10/17/06	SO	Soil Matrix Spike	SB-24-1.0
J44000-7	10/16/06	14:30	AH	10/17/06	SO	Soil	SB-24-11
J44000-7R	10/16/06	14:30	AH	10/17/06	SO	Soil	SB-24-11
J44000-8	10/16/06	14:45	AH	10/17/06	SO	Soil	TL14.5-11.25-2.0
J44000-9	10/16/06	15:15	AH	10/17/06	SO	Soil	TL14.5-11.25-9.0

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

CH2M Hill

Job No: J44000

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730 COC#30916-101606

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44000-10	10/17/06	13:15	AH	10/17/06	AQ	Trip Blank Soil	TB-101606
J44000-11	10/17/06	08:00	AH	10/17/06	SO	Soil	SB-25-1.0
J44000-12	10/17/06	08:15	AH	10/17/06	SO	Soil	SB-25-8.0
J44000-13	10/17/06	10:45	AH	10/17/06	SO	Soil	TL12.5-11.75-22
J44000-14	10/17/06	12:45	AH	10/17/06	SO	Soil	TL12-10.75-1.0
J44000-15	10/17/06	13:00	AH	10/17/06	SO	Soil	TL12-10.75-14.5
J44000-16	10/17/06	13:15	AH	10/17/06	SO	Soil	TL12-10.75-7.0

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J44000
Site:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Report Date**	11/14/2006 3:37:36 PM

15 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on between 10/16/2006 and 10/17/2006 and were received at Accutest on 10/17/2006 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of J44000. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VA3891

- All method blanks for this batch meet method specific criteria.
- Sample(s) J43968-1MS, J43968-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 2-Butanone (MEK), Acetone, Tetrachloroethene are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for Dichlorodifluoromethane, Styrene are outside control limits.
- Matrix Spike Duplicate Recovery(s) for Dichlorodifluoromethane, Styrene are outside control limits.
- RPD(s) for MSD for Styrene are outside control limits for sample J43968-1MSD. Outside control limits.

Matrix SO **Batch ID:** VY2283

- All samples were analyzed within the recommended method holding time.
- Sample(s) J44000-7MS, J44000-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- J44000-12: Diluted due to high concentration of non-target compound.
- J44000-15: Diluted due to high concentration of non-target compound.

Matrix SO **Batch ID:** VY2288

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44197-1MS, J44197-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP25205

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44364-1MS, J44364-1MSD were used as the QC samples indicated.

Matrix SO **Batch ID:** OP25218

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44000-6MS, J44000-6MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 2-Methylphenol, Benzo(b)fluoranthene, Benzo(k)fluoranthene, bis(2-Chloroethyl)ether, Di-n-butyl phthalate, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Hexachlorocyclopentadiene, Benzaldehyde are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2-Methylphenol, 4-Nitrophenol, Benzaldehyde, Di-n-butyl phthalate, Hexachlorobenzene, Pentachlorophenol, Phenol are outside control limits for sample OP25218-MSD. Outside control limits due to matrix interference.
- Sample(s) J44000-12, J44000-15, OP25218-MS have surrogates outside control limits. Probable cause due to matrix interference.
- J44000-15 for Phenol-d5: Outside control limits due to dilution.
- J44000-12 for Nitrobenzene-d5: Outside control limits due to dilution.
- J44000-12 for 2-Fluorophenol: Outside control limits due to dilution.
- OP25218-MS for Nitrobenzene-d5: Outside control limits due to matrix interference.
- J44000-12 for Phenol-d5: Outside control limits due to dilution.
- J44000-15 for Terphenyl-d14: Outside control limits due to dilution.
- J44000-12 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J44000-15 for Nitrobenzene-d5: Outside control limits due to dilution.
- J44000-15 for 2-Fluorophenol: Outside control limits due to dilution.
- J44000-15 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J44000-15 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J44000-12 for Terphenyl-d14: Outside control limits due to dilution.
- J44000-12 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP25198

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43998-1MS, J43998-1MSD, OP25198-MSMSD were used as the QC samples indicated.

Matrix SO **Batch ID:** OP25196

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J44186-5MS, J44186-5MSD, OP25196-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44000-14 have surrogates outside control limits. Probable cause due to matrix interference.
- J44000-14 for Decachlorobiphenyl: Outside control limits due to matrix interference.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP36404

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43778-1MS, J43778-1MSD, J43778-1SDL were used as the QC samples for metals.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Sodium, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Aluminum, Cadmium, Chromium, Cobalt, Copper, Nickel are outside control limits for sample MP36404-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- RPD(s) for Serial Dilution for Sodium are outside control limits for sample MP36404-SD1. Serial dilution indicates possible matrix interference. Results confirmed with analysis of second dilution.

Matrix SO **Batch ID:** MP36519

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44000-6MS, J44000-6MSD, J44000-6SDL were used as the QC samples for metals.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Antimony, Lead, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Calcium, Copper, Iron, Magnesium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Calcium, Copper, Lead, Magnesium are outside control limits for sample MP36519-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Beryllium, Cadmium, Selenium, Silver, Sodium are outside control limits for sample MP36519-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- RPD(s) for Serial Dilution for Arsenic, Cobalt, Lead, Nickel, Zinc are outside control limits for sample MP36519-SD1. Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix	AQ	Batch ID:	MP36582

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J43435-3MS, J43435-3MSD were used as the QC samples for metals.

Metals By Method SW846 7471A

Matrix	SO	Batch ID:	MP36563

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44000-7MS, J44000-7MSD were used as the QC samples for metals.

Wet Chemistry By Method ASTM 4643-00

Matrix	SO	Batch ID:	GN96720

- The data for ASTM 4643-00 meets quality control requirements.

Matrix	SO	Batch ID:	GN96739

- The data for ASTM 4643-00 meets quality control requirements.

Wet Chemistry By Method ASTM D1498-76M

Matrix	SO	Batch ID:	GN96823

- Sample(s) J44000-6DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method EPA 160.3 M

Matrix	SO	Batch ID:	GN96676

- The data for EPA 160.3 M meets quality control requirements.

Wet Chemistry By Method SW846 3060A/NJ7196A

Matrix	SO	Batch ID:	GP36116

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44000-6DUP, J44000-6MS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Low post spike recovery (72.0%) on this sample.Low pH adjusted post-spike (81.1%). Good agreement between the sample and 1:5 dilution.
- GP36116-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Matrix	SO	Batch ID:	GP36315

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44000-6RMS, J44000-6RDUP, J44000-6RMS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Low post spike recovery (51.5%) and pH adjusted post-spike recovery (51.7%) on this sample. Reasonable agreement between sample and 1:5 dilution.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP36315-D1. High RPD due to possible sample nonhomogeneity.
- GP36315-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 6010/7196A M

Matrix	SO	Batch ID:	R59751

- The data for SW846 6010/7196A M meets quality control requirements.
- J44000-7 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix	SO	Batch ID:	R59790

- The data for SW846 6010/7196A M meets quality control requirements.
- J44000-6 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Wet Chemistry By Method SW846 9045D

Matrix	SO	Batch ID:	GN96517

- Sample(s) J44000-6DUP were used as the QC samples for pH.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J44000).

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44000-1	**EB-101606**					
bis(2-Ethylhexyl)phthalate		1.3 J	2.1	0.70	ug/l	SW846 8270C
Lead		2.7 B	3.0	2.6	ug/l	SW846 6010B
Sodium		1050 B	10000	310	ug/l	SW846 6010B
Zinc		4.9 B	20	3.3	ug/l	SW846 6010B
J44000-2	**TL15-10.75-1.0**					
Aluminum		6400	23	5.5	mg/kg	SW846 6010B
Antimony		1.9 B	2.3	0.88	mg/kg	SW846 6010B
Arsenic		32.1	2.3	0.88	mg/kg	SW846 6010B
Barium		75.2	23	0.35	mg/kg	SW846 6010B
Beryllium		0.37 B	0.58	0.023	mg/kg	SW846 6010B
Cadmium		1.2	0.58	0.12	mg/kg	SW846 6010B
Calcium		10400	580	10	mg/kg	SW846 6010B
Chromium		16.3	1.2	0.51	mg/kg	SW846 6010B
Cobalt		9.3	5.8	0.21	mg/kg	SW846 6010B
Copper		133	2.9	0.27	mg/kg	SW846 6010B
Iron		20600	12	8.8	mg/kg	SW846 6010B
Lead		320	2.3	0.37	mg/kg	SW846 6010B
Magnesium		4090	580	2.0	mg/kg	SW846 6010B
Manganese		196	1.7	0.070	mg/kg	SW846 6010B
Mercury		0.66	0.034	0.011	mg/kg	SW846 7471A
Nickel		25.1	4.6	0.37	mg/kg	SW846 6010B
Potassium		868	580	10	mg/kg	SW846 6010B
Selenium		1.1 B	2.3	0.92	mg/kg	SW846 6010B
Silver		0.66 B	1.2	0.26	mg/kg	SW846 6010B
Sodium		595 B	1200	39	mg/kg	SW846 6010B
Vanadium		31.5	5.8	0.27	mg/kg	SW846 6010B
Zinc		204	2.3	0.34	mg/kg	SW846 6010B
J44000-3	**TL15-10.75-8.0**					
Aluminum		2390	24	5.7	mg/kg	SW846 6010B
Arsenic		4.7	2.4	0.90	mg/kg	SW846 6010B
Barium		35.4	24	0.36	mg/kg	SW846 6010B
Beryllium		0.26 B	0.59	0.024	mg/kg	SW846 6010B
Cadmium		0.48 B	0.59	0.12	mg/kg	SW846 6010B
Calcium		6470	590	11	mg/kg	SW846 6010B
Chromium		8.2	1.2	0.52	mg/kg	SW846 6010B
Cobalt		4.7 B	5.9	0.21	mg/kg	SW846 6010B
Copper		25.5	3.0	0.27	mg/kg	SW846 6010B
Iron		15600	12	8.9	mg/kg	SW846 6010B
Lead		53.8	2.4	0.38	mg/kg	SW846 6010B

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Magnesium		1020	590	2.1	mg/kg	SW846 6010B
Manganese		154	1.8	0.071	mg/kg	SW846 6010B
Mercury		0.18	0.038	0.013	mg/kg	SW846 7471A
Nickel		12.5	4.7	0.38	mg/kg	SW846 6010B
Potassium		344 B	590	11	mg/kg	SW846 6010B
Selenium		1.1 B	2.4	0.94	mg/kg	SW846 6010B
Sodium		277 B	1200	40	mg/kg	SW846 6010B
Vanadium		17.2	5.9	0.27	mg/kg	SW846 6010B
Zinc		50.2	2.4	0.34	mg/kg	SW846 6010B
J44000-4	**TL15-10.75-47**					
No hits reported in this sample.						
J44000-5	**TL15-10.75-41**					
No hits reported in this sample.						
J44000-6	**SB-24-1.0**					
Total TIC, Volatile		540 J			ug/kg	
Acenaphthene		1870 J	5700	1500	ug/kg	SW846 8270C
Acenaphthylene		2970 J	5700	1200	ug/kg	SW846 8270C
Anthracene		5820	5700	1100	ug/kg	SW846 8270C
Benzo(a)anthracene		32400	5700	1400	ug/kg	SW846 8270C
Benzo(a)pyrene		38900	5700	990	ug/kg	SW846 8270C
Benzo(b)fluoranthene		37600	5700	1300	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		24400	5700	1600	ug/kg	SW846 8270C
Benzo(k)fluoranthene		30500	5700	2100	ug/kg	SW846 8270C
Carbazole		1880 J	5700	1200	ug/kg	SW846 8270C
Chrysene		34500	5700	1100	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		8600	5700	1500	ug/kg	SW846 8270C
Fluoranthene		56100	5700	1000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		23200	5700	1800	ug/kg	SW846 8270C
Phenanthrene		15200	5700	1300	ug/kg	SW846 8270C
Pyrene		42700	5700	980	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		125000 J			ug/kg	
Aluminum		5050	23	5.4	mg/kg	SW846 6010B
Antimony		3.9	2.3	0.86	mg/kg	SW846 6010B
Arsenic		37.6	2.3	0.86	mg/kg	SW846 6010B
Barium		73.3	23	0.34	mg/kg	SW846 6010B
Beryllium		0.20 B	0.56	0.023	mg/kg	SW846 6010B
Cadmium		0.72	0.56	0.11	mg/kg	SW846 6010B
Calcium		11100	560	10	mg/kg	SW846 6010B
Chromium		11.9	1.1	0.50	mg/kg	SW846 6010B

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cobalt		6.7	5.6	0.20	mg/kg	SW846 6010B
Copper		262	2.8	0.26	mg/kg	SW846 6010B
Iron		25300	11	8.5	mg/kg	SW846 6010B
Lead		323	2.3	0.36	mg/kg	SW846 6010B
Magnesium		6530	560	2.0	mg/kg	SW846 6010B
Manganese		221	1.7	0.068	mg/kg	SW846 6010B
Mercury		0.58	0.034	0.011	mg/kg	SW846 7471A
Nickel		19.1	4.5	0.36	mg/kg	SW846 6010B
Potassium		541 B	560	10	mg/kg	SW846 6010B
Selenium		1.5 B	2.3	0.89	mg/kg	SW846 6010B
Silver		0.75 B	1.1	0.25	mg/kg	SW846 6010B
Sodium		282 B	1100	38	mg/kg	SW846 6010B
Vanadium		35.4	5.6	0.26	mg/kg	SW846 6010B
Zinc		181	2.3	0.33	mg/kg	SW846 6010B
Chromium, Hexavalent		0.56 B	1.1	0.25	mg/kg	SW846 3060A/NJ7196A
Chromium, Trivalent [a]		11.9	2.2		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		483			mv	ASTM D1498-76M
pH		7.24			su	SW846 9045D
J44000-6R	**SB-24-1.0**					
Chromium, Hexavalent		3.1	1.1	0.25	mg/kg	SW846 3060A/NJ7196A
J44000-7	**SB-24-11**					
bis(2-Ethylhexyl)phthalate		62.1 J	87	56	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		210 J			ug/kg	
Aluminum		8560	27	6.4	mg/kg	SW846 6010B
Arsenic		2.5 B	2.7	1.0	mg/kg	SW846 6010B
Barium		11.6 B	27	0.40	mg/kg	SW846 6010B
Beryllium		0.42 B	0.67	0.027	mg/kg	SW846 6010B
Cadmium		0.31 B	0.67	0.13	mg/kg	SW846 6010B
Calcium		295 B	670	12	mg/kg	SW846 6010B
Chromium		9.8	1.3	0.59	mg/kg	SW846 6010B
Cobalt		8.9	6.7	0.24	mg/kg	SW846 6010B
Copper		14.0	3.4	0.31	mg/kg	SW846 6010B
Iron		13200	13	10	mg/kg	SW846 6010B
Lead		5.7	2.7	0.43	mg/kg	SW846 6010B
Magnesium		3360	670	2.3	mg/kg	SW846 6010B
Manganese		94.9	2.0	0.081	mg/kg	SW846 6010B
Nickel		16.5	5.4	0.43	mg/kg	SW846 6010B
Potassium		798	670	12	mg/kg	SW846 6010B
Sodium		128 B	1300	45	mg/kg	SW846 6010B
Vanadium		12.3	6.7	0.31	mg/kg	SW846 6010B
Zinc		34.9	2.7	0.39	mg/kg	SW846 6010B

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chromium, Hexavalent		0.43 B	1.3	0.29	mg/kg	SW846 3060A/NJ7196A
Chromium, Trivalent [a]		9.8	2.6		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		382			mv	ASTM D1498-76M
pH		7.41			su	SW846 9045D
J44000-7R	**SB-24-11**					
Chromium, Hexavalent		0.47 B	1.3	0.29	mg/kg	SW846 3060A/NJ7196A
J44000-8	**TL14.5-11.25-2.0**					
Benzene		40.5 J	66	32	ug/kg	SW846 8260B
Acenaphthene		2480	430	110	ug/kg	SW846 8270C
Acenaphthylene		4540	430	87	ug/kg	SW846 8270C
Anthracene		10200	430	83	ug/kg	SW846 8270C
Benzo(a)anthracene		39600	2200	520	ug/kg	SW846 8270C
Benzo(a)pyrene		55600	2200	380	ug/kg	SW846 8270C
Benzo(b)fluoranthene		61000	2200	490	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		49700	2200	590	ug/kg	SW846 8270C
Benzo(k)fluoranthene		32200	2200	810	ug/kg	SW846 8270C
1,1'-Biphenyl		168 J	430	100	ug/kg	SW846 8270C
Carbazole		3890	430	87	ug/kg	SW846 8270C
Chrysene		44400	2200	400	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		12700	430	110	ug/kg	SW846 8270C
Dibenzofuran		1780	430	100	ug/kg	SW846 8270C
Fluoranthene		74600	2200	380	ug/kg	SW846 8270C
Fluorene		2700	430	86	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		47300	2200	680	ug/kg	SW846 8270C
2-Methylnaphthalene		336 J	430	140	ug/kg	SW846 8270C
Naphthalene		1650	430	120	ug/kg	SW846 8270C
Phenanthrene		21200	430	95	ug/kg	SW846 8270C
Pyrene		56400	2200	370	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		129700 J			ug/kg	
J44000-9	**TL14.5-11.25-9.0**					
Benzene		384	140	68	ug/kg	SW846 8260B
Carbon disulfide		201 J	710	79	ug/kg	SW846 8260B
Ethylbenzene		254	140	64	ug/kg	SW846 8260B
Isopropylbenzene		291 J	710	66	ug/kg	SW846 8260B
Methyl Acetate		1460	710	200	ug/kg	SW846 8260B
m,p-Xylene		276 J	290	130	ug/kg	SW846 8260B
o-Xylene		103 J	140	70	ug/kg	SW846 8260B
Xylene (total)		379	290	70	ug/kg	SW846 8260B
Total TIC, Volatile		132700 J			ug/kg	

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Acenaphthene		130	120	31	ug/kg	SW846 8270C
Anthracene		94.1 J	120	23	ug/kg	SW846 8270C
Benzo(a)anthracene		94.2 J	120	29	ug/kg	SW846 8270C
Benzo(a)pyrene		79.0 J	120	21	ug/kg	SW846 8270C
Benzo(b)fluoranthene		51.8 J	120	28	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		41.7 J	120	33	ug/kg	SW846 8270C
Benzo(k)fluoranthene		63.3 J	120	45	ug/kg	SW846 8270C
Carbazole		54.1 J	120	24	ug/kg	SW846 8270C
Chrysene		103 J	120	22	ug/kg	SW846 8270C
Dibenzofuran		48.7 J	120	28	ug/kg	SW846 8270C
Fluoranthene		249	120	21	ug/kg	SW846 8270C
Fluorene		63.3 J	120	24	ug/kg	SW846 8270C
2-Methylnaphthalene		167	120	39	ug/kg	SW846 8270C
Naphthalene		7980	240	68	ug/kg	SW846 8270C
Phenanthrene		297	120	26	ug/kg	SW846 8270C
Pyrene		188	120	21	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		16740 J			ug/kg	
J44000-10	**TB-101606**					
No hits reported in this sample.						
J44000-11	**SB-25-1.0**					
Toluene		38.5 J	70	38	ug/kg	SW846 8260B
Xylene (total)		36.2 J	140	35	ug/kg	SW846 8260B
Total TIC, Volatile		380 J			ug/kg	
Acenaphthene		4390	780	200	ug/kg	SW846 8270C
Acenaphthylene		1570	780	160	ug/kg	SW846 8270C
Anthracene		5030	780	150	ug/kg	SW846 8270C
Benzo(a)anthracene		27500	780	190	ug/kg	SW846 8270C
Benzo(a)pyrene		37900	780	140	ug/kg	SW846 8270C
Benzo(b)fluoranthene		35200	780	180	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		23700	780	210	ug/kg	SW846 8270C
Benzo(k)fluoranthene		27100	780	290	ug/kg	SW846 8270C
Carbazole		1980	780	160	ug/kg	SW846 8270C
Chrysene		30900	780	140	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		8460	780	200	ug/kg	SW846 8270C
Dibenzofuran		556 J	780	180	ug/kg	SW846 8270C
Fluoranthene		44800	3100	550	ug/kg	SW846 8270C
Fluorene		1430	780	160	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		21500	780	250	ug/kg	SW846 8270C
2-Methylnaphthalene		488 J	780	250	ug/kg	SW846 8270C
Naphthalene		574 J	780	220	ug/kg	SW846 8270C
Phenanthrene		17200	780	170	ug/kg	SW846 8270C

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Pyrene		37900	780	130	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		128300 J			ug/kg	
J44000-12	**SB-25-8.0**					
Benzene [b]		3880	1900	890	ug/kg	SW846 8260B
Ethylbenzene [b]		50500	1900	840	ug/kg	SW846 8260B
Isopropylbenzene [b]		18300	9300	870	ug/kg	SW846 8260B
Methylcyclohexane [b]		1580 J	9300	1200	ug/kg	SW846 8260B
Toluene [b]		3990	1900	1000	ug/kg	SW846 8260B
m,p-Xylene [b]		52300	3700	1600	ug/kg	SW846 8260B
o-Xylene [b]		38400	1900	920	ug/kg	SW846 8260B
Xylene (total) [b]		90700	3700	920	ug/kg	SW846 8260B
Total TIC, Volatile		4238000 J			ug/kg	
Acenaphthene		294000	47000	12000	ug/kg	SW846 8270C
Acenaphthylene		19400	4700	940	ug/kg	SW846 8270C
Anthracene		354000	47000	9000	ug/kg	SW846 8270C
Benzo(a)anthracene		228000	4700	1100	ug/kg	SW846 8270C
Benzo(a)pyrene		205000	4700	810	ug/kg	SW846 8270C
Benzo(b)fluoranthene		162000	4700	1100	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		94100	4700	1300	ug/kg	SW846 8270C
Benzo(k)fluoranthene		105000	4700	1800	ug/kg	SW846 8270C
1,1'-Biphenyl		79600	4700	1100	ug/kg	SW846 8270C
Carbazole		94100	4700	940	ug/kg	SW846 8270C
Chrysene		229000	4700	860	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		28800	4700	1200	ug/kg	SW846 8270C
Dibenzofuran		164000	4700	1100	ug/kg	SW846 8270C
Fluoranthene		684000	47000	8200	ug/kg	SW846 8270C
Fluorene		257000	47000	9300	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		84300	4700	1500	ug/kg	SW846 8270C
2-Methylnaphthalene		288000	47000	15000	ug/kg	SW846 8270C
Naphthalene		1840000	47000	13000	ug/kg	SW846 8270C
Phenanthrene		1130000	47000	10000	ug/kg	SW846 8270C
Pyrene		635000	47000	8000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		2523000 J			ug/kg	
J44000-13	**TL12.5-11.75-22**					
Total TIC, Volatile		49550 J			ug/kg	
Acenaphthene		438	130	33	ug/kg	SW846 8270C
Anthracene		295	130	25	ug/kg	SW846 8270C
Benzo(a)anthracene		156	130	32	ug/kg	SW846 8270C
Benzo(a)pyrene		108 J	130	23	ug/kg	SW846 8270C
Benzo(b)fluoranthene		70.2 J	130	30	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		58.3 J	130	36	ug/kg	SW846 8270C

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(k)fluoranthene		84.1 J	130	49	ug/kg	SW846 8270C
1,1'-Biphenyl		81.3 J	130	32	ug/kg	SW846 8270C
Carbazole		77.7 J	130	26	ug/kg	SW846 8270C
Chrysene		153	130	24	ug/kg	SW846 8270C
Dibenzofuran		322	130	30	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		119 J	130	84	ug/kg	SW846 8270C
Fluoranthene		665	130	23	ug/kg	SW846 8270C
Fluorene		413	130	26	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		53.9 J	130	41	ug/kg	SW846 8270C
2-Methylnaphthalene		361	130	43	ug/kg	SW846 8270C
Naphthalene		1060	130	37	ug/kg	SW846 8270C
Phenanthrene		1310	130	29	ug/kg	SW846 8270C
Pyrene		465	130	23	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		3200 J			ug/kg	
J44000-14	**TL12-10.75-1.0**					
No hits reported in this sample.						
J44000-15	**TL12-10.75-14.5**					
Benzene [b]		29300	4900	2400	ug/kg	SW846 8260B
Ethylbenzene [b]		174000	4900	2200	ug/kg	SW846 8260B
Isopropylbenzene [b]		30300	25000	2300	ug/kg	SW846 8260B
Toluene [b]		70700	4900	2700	ug/kg	SW846 8260B
m,p-Xylene [b]		195000	9800	4300	ug/kg	SW846 8260B
o-Xylene [b]		93100	4900	2400	ug/kg	SW846 8260B
Xylene (total) [b]		288000	9800	2400	ug/kg	SW846 8260B
Total TIC, Volatile		12680000 J			ug/kg	
2,4-Dimethylphenol		8340	6300	3200	ug/kg	SW846 8270C
Acenaphthene		1050000	130000	32000	ug/kg	SW846 8270C
Acenaphthylene		54200	2500	510	ug/kg	SW846 8270C
Anthracene		646000	130000	24000	ug/kg	SW846 8270C
Benzo(a)anthracene		399000	130000	30000	ug/kg	SW846 8270C
Benzo(a)pyrene		240000	130000	22000	ug/kg	SW846 8270C
Benzo(b)fluoranthene		165000	130000	29000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		77800	2500	690	ug/kg	SW846 8270C
Benzo(k)fluoranthene		202000	130000	47000	ug/kg	SW846 8270C
1,1'-Biphenyl		237000	130000	30000	ug/kg	SW846 8270C
Carbazole		198000	130000	25000	ug/kg	SW846 8270C
Chrysene		337000	130000	23000	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		31400	2500	660	ug/kg	SW846 8270C
Dibenzofuran		797000	130000	29000	ug/kg	SW846 8270C
Fluoranthene		1710000	130000	22000	ug/kg	SW846 8270C
Fluorene		1080000	130000	25000	ug/kg	SW846 8270C

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Indeno(1,2,3-cd)pyrene		81900	2500	800	ug/kg	SW846 8270C
2-Methylnaphthalene		1480000	130000	41000	ug/kg	SW846 8270C
Naphthalene		5360000	130000	35000	ug/kg	SW846 8270C
Phenanthrene		3310000	130000	28000	ug/kg	SW846 8270C
Pyrene		1170000	130000	22000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		3053000 J			ug/kg	
Aluminum		5070	25	6.0	mg/kg	SW846 6010B
Arsenic		13.9	2.5	0.95	mg/kg	SW846 6010B
Barium		35.1	25	0.38	mg/kg	SW846 6010B
Beryllium		0.42 B	0.63	0.025	mg/kg	SW846 6010B
Cadmium		0.28 B	0.63	0.13	mg/kg	SW846 6010B
Calcium		2300	630	11	mg/kg	SW846 6010B
Chromium		15.5	1.3	0.55	mg/kg	SW846 6010B
Cobalt		6.8	6.3	0.23	mg/kg	SW846 6010B
Copper		25.1	3.1	0.29	mg/kg	SW846 6010B
Iron		14200	13	9.5	mg/kg	SW846 6010B
Lead		26.0	2.5	0.40	mg/kg	SW846 6010B
Magnesium		2740	630	2.2	mg/kg	SW846 6010B
Manganese		174	1.9	0.075	mg/kg	SW846 6010B
Mercury		0.11	0.042	0.014	mg/kg	SW846 7471A
Nickel		15.6	5.0	0.40	mg/kg	SW846 6010B
Potassium		844	630	11	mg/kg	SW846 6010B
Selenium		2.2 B	2.5	0.99	mg/kg	SW846 6010B
Sodium		1240 B	1300	42	mg/kg	SW846 6010B
Vanadium		18.3	6.3	0.29	mg/kg	SW846 6010B
Zinc		35.6	2.5	0.36	mg/kg	SW846 6010B
J44000-16	**TL12-10.75-7.0**					
Benzene		2700	92	44	ug/kg	SW846 8260B
Ethylbenzene		2720	92	42	ug/kg	SW846 8260B
Isopropylbenzene		238 J	460	43	ug/kg	SW846 8260B
Toluene		296	92	50	ug/kg	SW846 8260B
m,p-Xylene		786	180	81	ug/kg	SW846 8260B
o-Xylene		296	92	46	ug/kg	SW846 8260B
Xylene (total)		1080	180	46	ug/kg	SW846 8260B
Total TIC, Volatile		104100 J			ug/kg	
Acenaphthene		14100	410	110	ug/kg	SW846 8270C
Acenaphthylene		470	83	17	ug/kg	SW846 8270C
Anthracene		1230	83	16	ug/kg	SW846 8270C
Benzo(a)anthracene		1900	83	20	ug/kg	SW846 8270C
Benzo(a)pyrene		1800	83	14	ug/kg	SW846 8270C
Benzo(b)fluoranthene		2020	83	19	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		956	83	23	ug/kg	SW846 8270C
Benzo(k)fluoranthene		1310	83	31	ug/kg	SW846 8270C

Summary of Hits

Job Number: J44000
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/16/06 thru 10/17/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,1'-Biphenyl		330	83	20	ug/kg	SW846 8270C
Carbazole		3080	83	17	ug/kg	SW846 8270C
Chrysene		1870	83	15	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		410	83	22	ug/kg	SW846 8270C
Dibenzofuran		8860	410	96	ug/kg	SW846 8270C
Fluoranthene		3350	83	15	ug/kg	SW846 8270C
Fluorene		10300	410	83	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		995	83	26	ug/kg	SW846 8270C
2-Methylnaphthalene		741	83	27	ug/kg	SW846 8270C
Naphthalene		11000	410	120	ug/kg	SW846 8270C
Phenanthrene		14000	410	91	ug/kg	SW846 8270C
Pyrene		2170	83	14	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		74270 J			ug/kg	
Aluminum		2110	25	6.0	mg/kg	SW846 6010B
Arsenic		30.0	2.5	0.96	mg/kg	SW846 6010B
Barium		30.7	25	0.38	mg/kg	SW846 6010B
Beryllium		0.22 B	0.63	0.025	mg/kg	SW846 6010B
Cadmium		0.22 B	0.63	0.13	mg/kg	SW846 6010B
Calcium		857	630	11	mg/kg	SW846 6010B
Chromium		8.1	1.3	0.55	mg/kg	SW846 6010B
Cobalt		4.7 B	6.3	0.23	mg/kg	SW846 6010B
Copper		50.0	3.2	0.29	mg/kg	SW846 6010B
Iron		6960	13	9.5	mg/kg	SW846 6010B
Lead		106	2.5	0.40	mg/kg	SW846 6010B
Magnesium		513 B	630	2.2	mg/kg	SW846 6010B
Manganese		71.1	1.9	0.076	mg/kg	SW846 6010B
Mercury		0.11	0.040	0.013	mg/kg	SW846 7471A
Nickel		15.0	5.0	0.40	mg/kg	SW846 6010B
Potassium		403 B	630	11	mg/kg	SW846 6010B
Selenium		1.7 B	2.5	1.0	mg/kg	SW846 6010B
Sodium		233 B	1300	42	mg/kg	SW846 6010B
Vanadium		14.0	6.3	0.29	mg/kg	SW846 6010B
Zinc		36.1	2.5	0.37	mg/kg	SW846 6010B

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)
(b) Diluted due to high concentration of non-target compound.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	EB-101606		
Lab Sample ID:	J44000-1	**Date Sampled:**	10/16/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A115726.D	1	10/26/06	ET	n/a	n/a	VA3891
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101606		
Lab Sample ID:	J44000-1	**Date Sampled:**	10/16/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		77-121%
17060-07-0	1,2-Dichloroethane-D4	101%		65-133%
2037-26-5	Toluene-D8	101%		80-117%
460-00-4	4-Bromofluorobenzene	96%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101606		
Lab Sample ID:	J44000-1	**Date Sampled:**	10/16/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3429.D	1	11/01/06	OYA	10/21/06	OP25205	E3E123
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	1.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	1.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	0.94	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	0.76	ug/l	
95-48-7	2-Methylphenol	ND	5.3	1.4	ug/l	
	3&4-Methylphenol	ND	5.3	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.89	ug/l	
87-86-5	Pentachlorophenol	ND	21	2.0	ug/l	
108-95-2	Phenol	ND	5.3	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	1.3	ug/l	
83-32-9	Acenaphthene	ND	2.1	0.37	ug/l	
208-96-8	Acenaphthylene	ND	2.1	0.40	ug/l	
98-86-2	Acetophenone	ND	5.3	0.39	ug/l	
120-12-7	Anthracene	ND	2.1	0.42	ug/l	
1912-24-9	Atrazine	ND	5.3	0.17	ug/l	
100-52-7	Benzaldehyde	ND	5.3	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.1	0.37	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.1	0.39	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.1	0.62	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.1	0.44	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.1	0.44	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.31	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.62	ug/l	
92-52-4	1,1'-Biphenyl	ND	2.1	0.34	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.42	ug/l	
86-74-8	Carbazole	ND	2.1	0.38	ug/l	
105-60-2	Caprolactam	ND	2.1	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101606
Lab Sample ID: J44000-1
Matrix: AQ - Equipment Blank
Method: SW846 8270C SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: n/a

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	2.1	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.69	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.56	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.78	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.45	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.91	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.59	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	1.3	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.1	0.57	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.36	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.60	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.41	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.3	2.1	0.70	ug/l	J
206-44-0	Fluoranthene	ND	2.1	0.26	ug/l	
86-73-7	Fluorene	ND	2.1	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	2.1	0.57	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.1	0.18	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	21	0.43	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.1	0.32	ug/l	
78-59-1	Isophorone	ND	2.1	0.62	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	0.70	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	0.76	ug/l	
91-20-3	Naphthalene	ND	2.1	0.34	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.44	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.54	ug/l	
85-01-8	Phenanthrene	ND	2.1	0.38	ug/l	
129-00-0	Pyrene	ND	2.1	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		12-76%
4165-62-2	Phenol-d5	23%		10-59%
118-79-6	2,4,6-Tribromophenol	71%		42-128%
4165-60-0	Nitrobenzene-d5	78%		30-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101606
Lab Sample ID: J44000-1
Matrix: AQ - Equipment Blank
Method: SW846 8270C SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: n/a

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	74%		34-113%
1718-51-0	Terphenyl-d14	94%		42-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.44	25	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101606		
Lab Sample ID:	J44000-1	**Date Sampled:**	10/16/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/17/06
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60846.D	1	10/31/06	JSE	10/20/06	OP25198	GAB2747
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.53	0.10	ug/l	
11104-28-2	Aroclor 1221	ND	0.53	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.53	0.41	ug/l	
53469-21-9	Aroclor 1242	ND	0.53	0.17	ug/l	
12672-29-6	Aroclor 1248	ND	0.53	0.16	ug/l	
11097-69-1	Aroclor 1254	ND	0.53	0.12	ug/l	
11096-82-5	Aroclor 1260	ND	0.53	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		38-133%
877-09-8	Tetrachloro-m-xylene	81%		38-133%
2051-24-3	Decachlorobiphenyl	43%		18-156%
2051-24-3	Decachlorobiphenyl	45%		18-156%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101606
Lab Sample ID: J44000-1
Matrix: AQ - Equipment Blank
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	110 U	200	110	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Antimony	4.4 U	6.0	4.4	ug/l	1	10/19/06	10/27/06	ND	SW846 6010B [3]	SW846 3010A [6]
Arsenic	0.79 U	2.0	0.79	ug/l	1	10/19/06	10/25/06	LH	SW846 6010B [2]	SW846 3010A [6]
Barium	2.5 U	200	2.5	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Beryllium	0.50 U	1.0	0.50	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Cadmium	0.60 U	4.0	0.60	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Calcium	62 U	5000	62	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Chromium	1.6 U	10	1.6	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Cobalt	1.7 U	50	1.7	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Copper	2.3 U	25	2.3	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Iron	67 U	100	67	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Lead	2.7 B	3.0	2.6	ug/l	1	10/19/06	10/27/06	ND	SW846 6010B [3]	SW846 3010A [6]
Magnesium	16 U	5000	16	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Manganese	0.40 U	15	0.40	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Mercury	0.080 U	0.20	0.080	ug/l	1	10/30/06	10/31/06	YL	SW846 7470A [5]	SW846 7470A [7]
Nickel	1.6 U	40	1.6	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Potassium	65 U	5000	65	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Selenium	3.0 U	10	3.0	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Silver	1.9 U	10	1.9	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Sodium	1050 B	10000	310	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Thallium	1.3 U	2.0	1.3	ug/l	1	10/19/06	10/27/06	LH	SW846 6010B [4]	SW846 3010A [6]
Vanadium	1.9 U	50	1.9	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]
Zinc	4.9 B	20	3.3	ug/l	1	10/19/06	10/21/06	KL	SW846 6010B [1]	SW846 3010A [6]

(1) Instrument QC Batch: MA18243
(2) Instrument QC Batch: MA18259
(3) Instrument QC Batch: MA18270
(4) Instrument QC Batch: MA18271
(5) Instrument QC Batch: MA18288
(6) Prep QC Batch: MP36404
(7) Prep QC Batch: MP36582

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL15-10.75-1.0
Lab Sample ID: J44000-2
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 88.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6400	23	5.5	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	1.9 B	2.3	0.88	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	32.1	2.3	0.88	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Barium	75.2	23	0.35	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Beryllium	0.37 B	0.58	0.023	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Cadmium	1.2	0.58	0.12	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	10400	580	10	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	16.3	1.2	0.51	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	9.3	5.8	0.21	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	133	2.9	0.27	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	20600	12	8.8	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	320	2.3	0.37	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	4090	580	2.0	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	196	1.7	0.070	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.66	0.034	0.011	mg/kg	1	10/30/06	10/30/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	25.1	4.6	0.37	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	868	580	10	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Selenium	1.1 B	2.3	0.92	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Silver	0.66 B	1.2	0.26	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	595 B	1200	39	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.0 U	1.2	1.0	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Vanadium	31.5	5.8	0.27	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	204	2.3	0.34	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18279
(2) Instrument QC Batch: MA18282
(3) Instrument QC Batch: MA18287
(4) Prep QC Batch: MP36519
(5) Prep QC Batch: MP36563

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL15-10.75-8.0
Lab Sample ID: J44000-3
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 83.4

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2390	24	5.7	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.90 U	2.4	0.90	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	4.7	2.4	0.90	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Barium	35.4	24	0.36	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Beryllium	0.26 B	0.59	0.024	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Cadmium	0.48 B	0.59	0.12	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	6470	590	11	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	8.2	1.2	0.52	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	4.7 B	5.9	0.21	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	25.5	3.0	0.27	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	15600	12	8.9	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	53.8	2.4	0.38	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	1020	590	2.1	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	154	1.8	0.071	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.18	0.038	0.013	mg/kg	1	10/30/06	10/30/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	12.5	4.7	0.38	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	344 B	590	11	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Selenium	1.1 B	2.4	0.94	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Silver	0.26 U	1.2	0.26	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	277 B	1200	40	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.0 U	1.2	1.0	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Vanadium	17.2	5.9	0.27	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	50.2	2.4	0.34	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18279
(2) Instrument QC Batch: MA18282
(3) Instrument QC Batch: MA18287
(4) Prep QC Batch: MP36519
(5) Prep QC Batch: MP36563

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: TL15-10.75-47
Lab Sample ID: J44000-4
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 80.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14130.D	1	10/30/06	JSE	10/20/06	OP25196	G2G578
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	7.8	ug/kg	
11104-28-2	Aroclor 1221	ND	41	25	ug/kg	
11141-16-5	Aroclor 1232	ND	41	22	ug/kg	
53469-21-9	Aroclor 1242	ND	41	13	ug/kg	
12672-29-6	Aroclor 1248	ND	41	14	ug/kg	
11097-69-1	Aroclor 1254	ND	41	19	ug/kg	
11096-82-5	Aroclor 1260	ND	41	8.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		37-140%
877-09-8	Tetrachloro-m-xylene	89%		37-140%
2051-24-3	Decachlorobiphenyl	78%		40-151%
2051-24-3	Decachlorobiphenyl	80%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL15-10.75-41
Lab Sample ID: J44000-5
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 81.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14131.D	1	10/30/06	JSE	10/20/06	OP25196	G2G578
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	7.7	ug/kg	
11104-28-2	Aroclor 1221	ND	40	24	ug/kg	
11141-16-5	Aroclor 1232	ND	40	22	ug/kg	
53469-21-9	Aroclor 1242	ND	40	13	ug/kg	
12672-29-6	Aroclor 1248	ND	40	14	ug/kg	
11097-69-1	Aroclor 1254	ND	40	19	ug/kg	
11096-82-5	Aroclor 1260	ND	40	8.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		37-140%
877-09-8	Tetrachloro-m-xylene	88%		37-140%
2051-24-3	Decachlorobiphenyl	77%		40-151%
2051-24-3	Decachlorobiphenyl	83%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-24-1.0		
Lab Sample ID:	J44000-6	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	87.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56492.D	1	10/27/06	MMC	10/18/06 07:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.3 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	730	210	ug/kg	
71-43-2	Benzene	ND	73	35	ug/kg	
75-27-4	Bromodichloromethane	ND	370	33	ug/kg	
75-25-2	Bromoform	ND	370	32	ug/kg	
74-83-9	Bromomethane	ND	370	27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	730	200	ug/kg	
75-15-0	Carbon disulfide	ND	370	40	ug/kg	
56-23-5	Carbon tetrachloride	ND	370	70	ug/kg	
108-90-7	Chlorobenzene	ND	370	32	ug/kg	
75-00-3	Chloroethane	ND	370	130	ug/kg	
67-66-3	Chloroform	ND	370	43	ug/kg	
74-87-3	Chloromethane	ND	370	34	ug/kg	
110-82-7	Cyclohexane	ND	370	94	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	730	160	ug/kg	
124-48-1	Dibromochloromethane	ND	370	40	ug/kg	
106-93-4	1,2-Dibromoethane	ND	73	41	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	370	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	370	36	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	370	34	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	370	58	ug/kg	
75-34-3	1,1-Dichloroethane	ND	370	35	ug/kg	
107-06-2	1,2-Dichloroethane	ND	73	40	ug/kg	
75-35-4	1,1-Dichloroethene	ND	370	50	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	370	49	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	370	50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	370	41	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	370	30	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	370	29	ug/kg	
100-41-4	Ethylbenzene	ND	73	33	ug/kg	
76-13-1	Freon 113	ND	370	63	ug/kg	
591-78-6	2-Hexanone	ND	370	100	ug/kg	
98-82-8	Isopropylbenzene	ND	370	34	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-24-1.0		
Lab Sample ID:	J44000-6	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	87.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	370	100	ug/kg	
108-87-2	Methylcyclohexane	ND	370	47	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	73	41	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	370	150	ug/kg	
75-09-2	Methylene chloride	ND	370	51	ug/kg	
100-42-5	Styrene	ND	370	24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	370	42	ug/kg	
127-18-4	Tetrachloroethene	ND	370	60	ug/kg	
108-88-3	Toluene	ND	73	40	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	370	26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	370	43	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	370	39	ug/kg	
79-01-6	Trichloroethene	ND	370	38	ug/kg	
75-69-4	Trichlorofluoromethane	ND	370	53	ug/kg	
75-01-4	Vinyl chloride	ND	370	47	ug/kg	
	m,p-Xylene	ND	150	64	ug/kg	
95-47-6	o-Xylene	ND	73	36	ug/kg	
1330-20-7	Xylene (total)	ND	150	36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-120%
17060-07-0	1,2-Dichloroethane-D4	72%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	103%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	17.01	540	ug/kg	JN
	Total TIC, Volatile		540	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-24-1.0
Lab Sample ID: J44000-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 87.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3438.D	1	11/01/06	OYA	10/23/06	OP25218	E3E123
Run #2							

	Initial Weight	Final Volume
Run #1	2.0 g	5.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	14000	2400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	14000	3600	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	14000	4800	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	14000	7300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	57000	4300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	57000	2500	ug/kg	
95-48-7	2-Methylphenol	ND	14000	2800	ug/kg	
	3&4-Methylphenol	ND	14000	4100	ug/kg	
88-75-5	2-Nitrophenol	ND	14000	3500	ug/kg	
100-02-7	4-Nitrophenol	ND	57000	3900	ug/kg	
87-86-5	Pentachlorophenol	ND	57000	3200	ug/kg	
108-95-2	Phenol	ND	14000	3500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	14000	4300	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	14000	2400	ug/kg	
83-32-9	Acenaphthene	1870	5700	1500	ug/kg	J
208-96-8	Acenaphthylene	2970	5700	1200	ug/kg	J
98-86-2	Acetophenone	ND	14000	1800	ug/kg	
120-12-7	Anthracene	5820	5700	1100	ug/kg	
1912-24-9	Atrazine	ND	14000	2500	ug/kg	
56-55-3	Benzo(a)anthracene	32400	5700	1400	ug/kg	
50-32-8	Benzo(a)pyrene	38900	5700	990	ug/kg	
205-99-2	Benzo(b)fluoranthene	37600	5700	1300	ug/kg	
191-24-2	Benzo(g,h,i)perylene	24400	5700	1600	ug/kg	
207-08-9	Benzo(k)fluoranthene	30500	5700	2100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	5700	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	5700	2200	ug/kg	
92-52-4	1,1'-Biphenyl	ND	5700	1400	ug/kg	
100-52-7	Benzaldehyde	ND	14000	3100	ug/kg	
91-58-7	2-Chloronaphthalene	ND	5700	4000	ug/kg	
106-47-8	4-Chloroaniline	ND	14000	1800	ug/kg	
86-74-8	Carbazole	1880	5700	1200	ug/kg	J
105-60-2	Caprolactam	ND	5700	2700	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-24-1.0
Lab Sample ID: J44000-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 87.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	34500	5700	1100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	5700	1800	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	5700	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5700	2100	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5700	1300	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	5700	3300	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	5700	3200	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	14000	2700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	8600	5700	1500	ug/kg	
132-64-9	Dibenzofuran	ND	5700	1300	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	5700	1800	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	5700	2400	ug/kg	
84-66-2	Diethyl phthalate	ND	5700	1200	ug/kg	
131-11-3	Dimethyl phthalate	ND	5700	1200	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5700	3600	ug/kg	
206-44-0	Fluoranthene	56100	5700	1000	ug/kg	
86-73-7	Fluorene	ND	5700	1100	ug/kg	
118-74-1	Hexachlorobenzene	ND	5700	1600	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5700	1900	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	57000	2000	ug/kg	
67-72-1	Hexachloroethane	ND	14000	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	23200	5700	1800	ug/kg	
78-59-1	Isophorone	ND	5700	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	5700	1900	ug/kg	
88-74-4	2-Nitroaniline	ND	14000	1800	ug/kg	
99-09-2	3-Nitroaniline	ND	14000	2200	ug/kg	
100-01-6	4-Nitroaniline	ND	14000	2000	ug/kg	
91-20-3	Naphthalene	ND	5700	1600	ug/kg	
98-95-3	Nitrobenzene	ND	5700	2000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	5700	1800	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	14000	1200	ug/kg	
85-01-8	Phenanthrene	15200	5700	1300	ug/kg	
129-00-0	Pyrene	42700	5700	980	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		33-105%
4165-62-2	Phenol-d5	74%		34-110%
118-79-6	2,4,6-Tribromophenol	73%		33-124%
4165-60-0	Nitrobenzene-d5	71%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-24-1.0
Lab Sample ID: J44000-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 87.7

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	85%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.42	960000	ug/kg	J
	system artifact/aldol-condensation	3.46	1300000	ug/kg	J
	unknown PAH substance	19.79	13000	ug/kg	J
	Dibenzpyrene	21.95	36000	ug/kg	J
	unknown PAH substance	23.32	26000	ug/kg	J
	unknown PAH substance	23.55	28000	ug/kg	J
	unknown	23.99	22000	ug/kg	J
	Total TIC, Semi-Volatile		125000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-24-1.0
Lab Sample ID: J44000-6
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 87.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5050	23	5.4	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	3.9	2.3	0.86	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Arsenic	37.6	2.3	0.86	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	73.3	23	0.34	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.20 B	0.56	0.023	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.72	0.56	0.11	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Calcium	11100	560	10	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	11.9	1.1	0.50	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Cobalt	6.7	5.6	0.20	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	262	2.8	0.26	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Iron	25300	11	8.5	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	323	2.3	0.36	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	6530	560	2.0	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	221	1.7	0.068	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Mercury	0.58	0.034	0.011	mg/kg	1	10/30/06	10/30/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	19.1	4.5	0.36	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	541 B	560	10	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.5 B	2.3	0.89	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Silver	0.75 B	1.1	0.25	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	282 B	1100	38	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	0.97 U	1.1	0.97	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]
Vanadium	35.4	5.6	0.26	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	181	2.3	0.33	mg/kg	1	10/27/06	10/30/06	LH	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA18279
(2) Instrument QC Batch: MA18282
(3) Instrument QC Batch: MA18287
(4) Prep QC Batch: MP36519
(5) Prep QC Batch: MP36563

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SB-24-1.0
Lab Sample ID: J44000-6
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 87.7

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.56 B	1.1	0.25	mg/kg	1	10/30/06 14:56	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	11.9	2.2		mg/kg	1	10/30/06 22:44	LH	SW846 6010/7196A M
Redox Potential Vs H2	483			mv	1	10/31/06	JOO	ASTM D1498-76M
Solids, Percent	87.7			%	1	10/26/06	HF	EPA 160.3 M
pH	7.24			su	1	10/23/06	JOO	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-24-1.0		
Lab Sample ID:	J44000-6R	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
		Percent Solids:	87.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	3.1	1.1	0.25	mg/kg	1	11/11/06 15:25	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-24-11		
Lab Sample ID:	J44000-7	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56493.D	1	10/27/06	MMC	10/18/06 07:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	800	230	ug/kg	
71-43-2	Benzene	ND	80	38	ug/kg	
75-27-4	Bromodichloromethane	ND	400	36	ug/kg	
75-25-2	Bromoform	ND	400	35	ug/kg	
74-83-9	Bromomethane	ND	400	29	ug/kg	
78-93-3	2-Butanone (MEK)	ND	800	220	ug/kg	
75-15-0	Carbon disulfide	ND	400	44	ug/kg	
56-23-5	Carbon tetrachloride	ND	400	76	ug/kg	
108-90-7	Chlorobenzene	ND	400	34	ug/kg	
75-00-3	Chloroethane	ND	400	140	ug/kg	
67-66-3	Chloroform	ND	400	46	ug/kg	
74-87-3	Chloromethane	ND	400	37	ug/kg	
110-82-7	Cyclohexane	ND	400	100	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	800	170	ug/kg	
124-48-1	Dibromochloromethane	ND	400	44	ug/kg	
106-93-4	1,2-Dibromoethane	ND	80	45	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	400	36	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	400	39	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	400	37	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	400	63	ug/kg	
75-34-3	1,1-Dichloroethane	ND	400	38	ug/kg	
107-06-2	1,2-Dichloroethane	ND	80	43	ug/kg	
75-35-4	1,1-Dichloroethene	ND	400	55	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	400	53	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	400	54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	400	44	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	400	33	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	400	31	ug/kg	
100-41-4	Ethylbenzene	ND	80	36	ug/kg	
76-13-1	Freon 113	ND	400	68	ug/kg	
591-78-6	2-Hexanone	ND	400	110	ug/kg	
98-82-8	Isopropylbenzene	ND	400	37	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-24-11		
Lab Sample ID:	J44000-7	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	400	110	ug/kg	
108-87-2	Methylcyclohexane	ND	400	51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	80	44	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	400	160	ug/kg	
75-09-2	Methylene chloride	ND	400	55	ug/kg	
100-42-5	Styrene	ND	400	26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	400	46	ug/kg	
127-18-4	Tetrachloroethene	ND	400	65	ug/kg	
108-88-3	Toluene	ND	80	43	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	400	28	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	400	47	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	400	43	ug/kg	
79-01-6	Trichloroethene	ND	400	41	ug/kg	
75-69-4	Trichlorofluoromethane	ND	400	58	ug/kg	
75-01-4	Vinyl chloride	ND	400	51	ug/kg	
	m,p-Xylene	ND	160	70	ug/kg	
95-47-6	o-Xylene	ND	80	39	ug/kg	
1330-20-7	Xylene (total)	ND	160	39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-120%
17060-07-0	1,2-Dichloroethane-D4	74%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	104%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-24-11		
Lab Sample ID:	J44000-7	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3432.D	1	11/01/06	OYA	10/23/06	OP25218	E3E123
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	220	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	55	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	73	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	110	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	870	66	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	870	38	ug/kg	
95-48-7	2-Methylphenol	ND	220	43	ug/kg	
	3&4-Methylphenol	ND	220	62	ug/kg	
88-75-5	2-Nitrophenol	ND	220	54	ug/kg	
100-02-7	4-Nitrophenol	ND	870	59	ug/kg	
87-86-5	Pentachlorophenol	ND	870	49	ug/kg	
108-95-2	Phenol	ND	220	54	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	65	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	37	ug/kg	
83-32-9	Acenaphthene	ND	87	22	ug/kg	
208-96-8	Acenaphthylene	ND	87	18	ug/kg	
98-86-2	Acetophenone	ND	220	28	ug/kg	
120-12-7	Anthracene	ND	87	17	ug/kg	
1912-24-9	Atrazine	ND	220	38	ug/kg	
56-55-3	Benzo(a)anthracene	ND	87	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	87	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	87	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	87	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	87	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	87	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	87	33	ug/kg	
92-52-4	1,1'-Biphenyl	ND	87	21	ug/kg	
100-52-7	Benzaldehyde	ND	220	48	ug/kg	
91-58-7	2-Chloronaphthalene	ND	87	61	ug/kg	
106-47-8	4-Chloroaniline	ND	220	27	ug/kg	
86-74-8	Carbazole	ND	87	18	ug/kg	
105-60-2	Caprolactam	ND	87	42	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-24-11		
Lab Sample ID:	J44000-7	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	87	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	87	28	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	87	22	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	87	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	87	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	87	51	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	87	50	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	220	42	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	87	23	ug/kg	
132-64-9	Dibenzofuran	ND	87	20	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	87	28	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	87	37	ug/kg	
84-66-2	Diethyl phthalate	ND	87	19	ug/kg	
131-11-3	Dimethyl phthalate	ND	87	19	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	62.1	87	56	ug/kg	J
206-44-0	Fluoranthene	ND	87	15	ug/kg	
86-73-7	Fluorene	ND	87	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	87	25	ug/kg	
87-68-3	Hexachlorobutadiene	ND	87	29	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	870	31	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	87	28	ug/kg	
78-59-1	Isophorone	ND	87	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	87	28	ug/kg	
88-74-4	2-Nitroaniline	ND	220	28	ug/kg	
99-09-2	3-Nitroaniline	ND	220	34	ug/kg	
100-01-6	4-Nitroaniline	ND	220	30	ug/kg	
91-20-3	Naphthalene	ND	87	25	ug/kg	
98-95-3	Nitrobenzene	ND	87	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	87	28	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	18	ug/kg	
85-01-8	Phenanthrene	ND	87	19	ug/kg	
129-00-0	Pyrene	ND	87	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		33-105%
4165-62-2	Phenol-d5	57%		34-110%
118-79-6	2,4,6-Tribromophenol	64%		33-124%
4165-60-0	Nitrobenzene-d5	64%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-24-11		
Lab Sample ID:	J44000-7	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	78%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.54	150000	ug/kg	J
	system artifact/aldol-condensation	4.39	180	ug/kg	J
10544-50-0	Sulfur (S8)	18.42	210	ug/kg	J
	Total TIC, Semi-Volatile		210	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-24-11
Lab Sample ID: J44000-7
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 75.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8560	27	6.4	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	1.0 U	2.7	1.0	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	2.5 B	2.7	1.0	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Barium	11.6 B	27	0.40	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Beryllium	0.42 B	0.67	0.027	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Cadmium	0.31 B	0.67	0.13	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	295 B	670	12	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	9.8	1.3	0.59	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	8.9	6.7	0.24	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	14.0	3.4	0.31	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Iron	13200	13	10	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	5.7	2.7	0.43	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	3360	670	2.3	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	94.9	2.0	0.081	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.013 U	0.040	0.013	mg/kg	1	10/30/06	10/30/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	16.5	5.4	0.43	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	798	670	12	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Selenium	1.1 U	2.7	1.1	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Silver	0.30 U	1.3	0.30	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	128 B	1300	45	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.2 U	1.3	1.2	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Vanadium	12.3	6.7	0.31	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	34.9	2.7	0.39	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18279
(2) Instrument QC Batch: MA18282
(3) Instrument QC Batch: MA18287
(4) Prep QC Batch: MP36519
(5) Prep QC Batch: MP36563

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-24-11		
Lab Sample ID:	J44000-7	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
		Percent Solids:	75.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.43 B	1.3	0.29	mg/kg	1	10/30/06 15:06	IJ	SW846 3060A/NJ7196A
Chromium, Trivalent [a]	9.8	2.6		mg/kg	1	10/30/06 15:06	IJ	SW846 6010/7196A M
Redox Potential Vs H2	382			mv	1	10/31/06	JOO	ASTM D1498-76M
Solids, Percent	75.7			%	1	10/26/06	HF	EPA 160.3 M
pH	7.41			su	1	10/23/06	JOO	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-24-11		
Lab Sample ID:	J44000-7R	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
		Percent Solids:	75.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.47 B	1.3	0.29	mg/kg	1	11/11/06 15:29	IJ	SW846 3060A/NJ7196A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL14.5-11.25-2.0		
Lab Sample ID:	J44000-8	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56494.D	1	10/27/06	MMC	10/18/06 07:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	660	190	ug/kg	
71-43-2	Benzene	40.5	66	32	ug/kg	J
75-27-4	Bromodichloromethane	ND	330	30	ug/kg	
75-25-2	Bromoform	ND	330	29	ug/kg	
74-83-9	Bromomethane	ND	330	25	ug/kg	
78-93-3	2-Butanone (MEK)	ND	660	180	ug/kg	
75-15-0	Carbon disulfide	ND	330	37	ug/kg	
56-23-5	Carbon tetrachloride	ND	330	63	ug/kg	
108-90-7	Chlorobenzene	ND	330	29	ug/kg	
75-00-3	Chloroethane	ND	330	120	ug/kg	
67-66-3	Chloroform	ND	330	39	ug/kg	
74-87-3	Chloromethane	ND	330	31	ug/kg	
110-82-7	Cyclohexane	ND	330	85	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	660	140	ug/kg	
124-48-1	Dibromochloromethane	ND	330	36	ug/kg	
106-93-4	1,2-Dibromoethane	ND	66	38	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	330	30	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	330	32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	330	31	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	330	53	ug/kg	
75-34-3	1,1-Dichloroethane	ND	330	32	ug/kg	
107-06-2	1,2-Dichloroethane	ND	66	36	ug/kg	
75-35-4	1,1-Dichloroethene	ND	330	46	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	330	45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	330	45	ug/kg	
78-87-5	1,2-Dichloropropane	ND	330	37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	330	27	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	330	26	ug/kg	
100-41-4	Ethylbenzene	ND	66	30	ug/kg	
76-13-1	Freon 113	ND	330	57	ug/kg	
591-78-6	2-Hexanone	ND	330	90	ug/kg	
98-82-8	Isopropylbenzene	ND	330	31	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14.5-11.25-2.0
Lab Sample ID: J44000-8
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 85.9

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	330	94	ug/kg	
108-87-2	Methylcyclohexane	ND	330	43	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	66	37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	330	130	ug/kg	
75-09-2	Methylene chloride	ND	330	46	ug/kg	
100-42-5	Styrene	ND	330	22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	330	38	ug/kg	
127-18-4	Tetrachloroethene	ND	330	55	ug/kg	
108-88-3	Toluene	ND	66	36	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	330	23	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	330	39	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	330	36	ug/kg	
79-01-6	Trichloroethene	ND	330	35	ug/kg	
75-69-4	Trichlorofluoromethane	ND	330	48	ug/kg	
75-01-4	Vinyl chloride	ND	330	43	ug/kg	
	m,p-Xylene	ND	130	58	ug/kg	
95-47-6	o-Xylene	ND	66	33	ug/kg	
1330-20-7	Xylene (total)	ND	130	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-120%
17060-07-0	1,2-Dichloroethane-D4	74%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	102%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14.5-11.25-2.0		
Lab Sample ID:	J44000-8	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3439.D	1	11/01/06	OYA	10/23/06	OP25218	E3E123
Run #2	3E3449.D	5	11/02/06	OYA	10/23/06	OP25218	E3E124

	Initial Weight	Final Volume
Run #1	5.4 g	1.0 ml
Run #2	5.4 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1100	180	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	270	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	550	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4300	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4300	190	ug/kg	
95-48-7	2-Methylphenol	ND	1100	210	ug/kg	
	3&4-Methylphenol	ND	1100	310	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	270	ug/kg	
100-02-7	4-Nitrophenol	ND	4300	290	ug/kg	
87-86-5	Pentachlorophenol	ND	4300	240	ug/kg	
108-95-2	Phenol	ND	1100	270	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	320	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	180	ug/kg	
83-32-9	Acenaphthene	2480	430	110	ug/kg	
208-96-8	Acenaphthylene	4540	430	87	ug/kg	
98-86-2	Acetophenone	ND	1100	140	ug/kg	
120-12-7	Anthracene	10200	430	83	ug/kg	
1912-24-9	Atrazine	ND	1100	190	ug/kg	
56-55-3	Benzo(a)anthracene	39600 [a]	2200	520	ug/kg	
50-32-8	Benzo(a)pyrene	55600 [a]	2200	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	61000 [a]	2200	490	ug/kg	
191-24-2	Benzo(g,h,i)perylene	49700 [a]	2200	590	ug/kg	
207-08-9	Benzo(k)fluoranthene	32200 [a]	2200	810	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	430	110	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	430	160	ug/kg	
92-52-4	1,1'-Biphenyl	168	430	100	ug/kg	J
100-52-7	Benzaldehyde	ND	1100	240	ug/kg	
91-58-7	2-Chloronaphthalene	ND	430	300	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	130	ug/kg	
86-74-8	Carbazole	3890	430	87	ug/kg	
105-60-2	Caprolactam	ND	430	210	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14.5-11.25-2.0
Lab Sample ID: J44000-8
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 85.9

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	44400 [a]	2200	400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	430	140	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	430	110	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	430	160	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	430	100	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	430	250	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	430	250	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1100	210	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	12700	430	110	ug/kg	
132-64-9	Dibenzofuran	1780	430	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	140	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	430	180	ug/kg	
84-66-2	Diethyl phthalate	ND	430	92	ug/kg	
131-11-3	Dimethyl phthalate	ND	430	92	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	280	ug/kg	
206-44-0	Fluoranthene	74600 [a]	2200	380	ug/kg	
86-73-7	Fluorene	2700	430	86	ug/kg	
118-74-1	Hexachlorobenzene	ND	430	120	ug/kg	
87-68-3	Hexachlorobutadiene	ND	430	140	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4300	150	ug/kg	
67-72-1	Hexachloroethane	ND	1100	110	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	47300 [a]	2200	680	ug/kg	
78-59-1	Isophorone	ND	430	110	ug/kg	
91-57-6	2-Methylnaphthalene	336	430	140	ug/kg	J
88-74-4	2-Nitroaniline	ND	1100	140	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	170	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	150	ug/kg	
91-20-3	Naphthalene	1650	430	120	ug/kg	
98-95-3	Nitrobenzene	ND	430	150	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	430	140	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1100	89	ug/kg	
85-01-8	Phenanthrene	21200	430	95	ug/kg	
129-00-0	Pyrene	56400 [a]	2200	370	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%	74%	33-105%
4165-62-2	Phenol-d5	77%	63%	34-110%
118-79-6	2,4,6-Tribromophenol	81%	68%	33-124%
4165-60-0	Nitrobenzene-d5	81%	69%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14.5-11.25-2.0		
Lab Sample ID:	J44000-8	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.9
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	81%	82%	40-106%
1718-51-0	Terphenyl-d14	93%	83%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.51	520000	ug/kg	J
	unknown PAH substance	15.36	1700	ug/kg	J
	Dibenzothiophene	15.52	2200	ug/kg	J
	unknown PAH substance	17.00	3100	ug/kg	J
	unknown PAH substance	17.06	4400	ug/kg	J
	unknown PAH substance	17.15	3100	ug/kg	J
	unknown	17.25	12000	ug/kg	J
	unknown PAH substance	17.31	2800	ug/kg	J
	Phenylnaphthalene	17.74	3400	ug/kg	J
	Phenanthrene, dimethyl-	18.17	1700	ug/kg	J
	Phenanthrene, -dimethyl-	18.34	2300	ug/kg	J
	unknown	18.40	3200	ug/kg	J
	Cyclopenta(def)phenanthrenone	18.49	2700	ug/kg	J
	unknown	18.52	2100	ug/kg	J
	unknown PAH substance	19.81	4400	ug/kg	J
	unknown PAH substance	19.94	1900	ug/kg	J
	unknown PAH substance	21.04	1800	ug/kg	J
	unknown	22.97	5800	ug/kg	J
	unknown PAH substance	23.34	12000	ug/kg	J
	unknown	23.47	6000	ug/kg	J
	unknown PAH substance	23.59	30000	ug/kg	J
	unknown	23.97	3200	ug/kg	J
	unknown PAH substance	25.20	4400	ug/kg	J
	unknown PAH substance	25.59	3600	ug/kg	J
	unknown PAH substance	25.66	6800	ug/kg	J
	unknown PAH substance	26.11	5100	ug/kg	J
	Total TIC, Semi-Volatile		129700	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14.5-11.25-9.0		
Lab Sample ID:	J44000-9	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	54.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56587.D	1	10/30/06	MMC	10/18/06 07:00	n/a	VY2288
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.5 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1400	410	ug/kg	
71-43-2	Benzene	384	140	68	ug/kg	
75-27-4	Bromodichloromethane	ND	710	65	ug/kg	
75-25-2	Bromoform	ND	710	62	ug/kg	
74-83-9	Bromomethane	ND	710	53	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1400	390	ug/kg	
75-15-0	Carbon disulfide	201	710	79	ug/kg	J
56-23-5	Carbon tetrachloride	ND	710	140	ug/kg	
108-90-7	Chlorobenzene	ND	710	62	ug/kg	
75-00-3	Chloroethane	ND	710	250	ug/kg	
67-66-3	Chloroform	ND	710	83	ug/kg	
74-87-3	Chloromethane	ND	710	66	ug/kg	
110-82-7	Cyclohexane	ND	710	180	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1400	310	ug/kg	
124-48-1	Dibromochloromethane	ND	710	78	ug/kg	
106-93-4	1,2-Dibromoethane	ND	140	81	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	710	65	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	710	70	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	710	66	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	710	110	ug/kg	
75-34-3	1,1-Dichloroethane	ND	710	68	ug/kg	
107-06-2	1,2-Dichloroethane	ND	140	78	ug/kg	
75-35-4	1,1-Dichloroethene	ND	710	98	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	710	96	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	710	98	ug/kg	
78-87-5	1,2-Dichloropropane	ND	710	79	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	710	59	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	710	56	ug/kg	
100-41-4	Ethylbenzene	254	140	64	ug/kg	
76-13-1	Freon 113	ND	710	120	ug/kg	
591-78-6	2-Hexanone	ND	710	190	ug/kg	
98-82-8	Isopropylbenzene	291	710	66	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14.5-11.25-9.0
Lab Sample ID: J44000-9
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 54.7

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	1460	710	200	ug/kg	
108-87-2	Methylcyclohexane	ND	710	92	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	140	80	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	710	280	ug/kg	
75-09-2	Methylene chloride	ND	710	99	ug/kg	
100-42-5	Styrene	ND	710	47	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	710	82	ug/kg	
127-18-4	Tetrachloroethene	ND	710	120	ug/kg	
108-88-3	Toluene	ND	140	77	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	710	50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	710	85	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	710	77	ug/kg	
79-01-6	Trichloroethene	ND	710	74	ug/kg	
75-69-4	Trichlorofluoromethane	ND	710	100	ug/kg	
75-01-4	Vinyl chloride	ND	710	92	ug/kg	
	m,p-Xylene	276	290	130	ug/kg	J
95-47-6	o-Xylene	103	140	70	ug/kg	J
1330-20-7	Xylene (total)	379	290	70	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-120%
17060-07-0	1,2-Dichloroethane-D4	81%		61-133%
2037-26-5	Toluene-D8	96%		75-123%
460-00-4	4-Bromofluorobenzene	103%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	15.28	17000	ug/kg	JN
	1H-indene-dihydro-methyl	15.78	2100	ug/kg	J
	1H-indene-dihydro-methyl	16.29	3300	ug/kg	J
	1H-indene-dihydro-methyl	16.43	4700	ug/kg	J
	1H-Indene-dihydro-dimethyl	16.79	1800	ug/kg	J
91-20-3	Naphthalene	16.98	29000	ug/kg	JN
	unknown	17.06	2700	ug/kg	J
	1H-Indene-dihydro-dimethyl	17.40	1600	ug/kg	J
	Naphthalene methyl	17.95	34000	ug/kg	J
	Naphthalene methyl	18.14	20000	ug/kg	J
	Naphthalene ethyl	18.87	4000	ug/kg	J
	Naphthalene dimethyl	19.00	4700	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL14.5-11.25-9.0		
Lab Sample ID:	J44000-9	**Date Sampled:**	10/16/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	54.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene dimethyl	19.19	4400	ug/kg	J
	unknown	19.23	1700	ug/kg	J
	Naphthalene dimethyl	19.49	1700	ug/kg	J
	Total TIC, Volatile		132700	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14.5-11.25-9.0
Lab Sample ID: J44000-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 54.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3433.D	1	11/01/06	OYA	10/23/06	OP25218	E3E123
Run #2	3E3445.D	2	11/02/06	OYA	10/23/06	OP25218	E3E124

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2	30.3 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	52	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	300	77	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	300	100	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	300	150	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	92	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1200	52	ug/kg	
95-48-7	2-Methylphenol	ND	300	59	ug/kg	
	3&4-Methylphenol	ND	300	86	ug/kg	
88-75-5	2-Nitrophenol	ND	300	75	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	82	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	68	ug/kg	
108-95-2	Phenol	ND	300	75	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	300	91	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	300	51	ug/kg	
83-32-9	Acenaphthene	130	120	31	ug/kg	
208-96-8	Acenaphthylene	ND	120	24	ug/kg	
98-86-2	Acetophenone	ND	300	38	ug/kg	
120-12-7	Anthracene	94.1	120	23	ug/kg	J
1912-24-9	Atrazine	ND	300	52	ug/kg	
56-55-3	Benzo(a)anthracene	94.2	120	29	ug/kg	J
50-32-8	Benzo(a)pyrene	79.0	120	21	ug/kg	J
205-99-2	Benzo(b)fluoranthene	51.8	120	28	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	41.7	120	33	ug/kg	J
207-08-9	Benzo(k)fluoranthene	63.3	120	45	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	120	31	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	120	46	ug/kg	
92-52-4	1,1'-Biphenyl	ND	120	29	ug/kg	
100-52-7	Benzaldehyde	ND	300	66	ug/kg	
91-58-7	2-Chloronaphthalene	ND	120	84	ug/kg	
106-47-8	4-Chloroaniline	ND	300	37	ug/kg	
86-74-8	Carbazole	54.1	120	24	ug/kg	J
105-60-2	Caprolactam	ND	120	58	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14.5-11.25-9.0
Lab Sample ID: J44000-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 54.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	103	120	22	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	120	39	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	120	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	120	45	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	120	28	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	120	70	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	120	69	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	57	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	32	ug/kg	
132-64-9	Dibenzofuran	48.7	120	28	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	120	38	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	120	52	ug/kg	
84-66-2	Diethyl phthalate	ND	120	26	ug/kg	
131-11-3	Dimethyl phthalate	ND	120	26	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	120	77	ug/kg	
206-44-0	Fluoranthene	249	120	21	ug/kg	
86-73-7	Fluorene	63.3	120	24	ug/kg	J
118-74-1	Hexachlorobenzene	ND	120	35	ug/kg	
87-68-3	Hexachlorobutadiene	ND	120	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1200	43	ug/kg	
67-72-1	Hexachloroethane	ND	300	30	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	38	ug/kg	
78-59-1	Isophorone	ND	120	30	ug/kg	
91-57-6	2-Methylnaphthalene	167	120	39	ug/kg	
88-74-4	2-Nitroaniline	ND	300	38	ug/kg	
99-09-2	3-Nitroaniline	ND	300	47	ug/kg	
100-01-6	4-Nitroaniline	ND	300	42	ug/kg	
91-20-3	Naphthalene	7980 [a]	240	68	ug/kg	
98-95-3	Nitrobenzene	ND	120	42	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	120	39	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	25	ug/kg	
85-01-8	Phenanthrene	297	120	26	ug/kg	
129-00-0	Pyrene	188	120	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%	63%	33-105%
4165-62-2	Phenol-d5	65%	63%	34-110%
118-79-6	2,4,6-Tribromophenol	68%	72%	33-124%
4165-60-0	Nitrobenzene-d5	69%	62%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL14.5-11.25-9.0
Lab Sample ID: J44000-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/16/06
Date Received: 10/17/06
Percent Solids: 54.7

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	69%	72%	40-106%
1718-51-0	Terphenyl-d14	73%	82%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.53	190000	ug/kg	J
	Indane	6.14	2100	ug/kg	J
	Benzo[]thiophene	8.47	480	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	10.14	370	ug/kg	J
	unknown	20.67	1000	ug/kg	J
	unknown	21.03	680	ug/kg	J
	unknown	21.33	590	ug/kg	J
	unknown	23.95	290	ug/kg	J
	unknown	24.40	250	ug/kg	J
	unknown	24.57	280	ug/kg	J
	unknown	25.78	2700	ug/kg	J
	unknown	26.15	1100	ug/kg	J
	unknown	26.31	2800	ug/kg	J
	unknown	26.55	1400	ug/kg	J
	unknown	26.65	1500	ug/kg	J
	unknown	26.88	1200	ug/kg	J
	Total TIC, Semi-Volatile		16740	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-101606		
Lab Sample ID:	J44000-10	**Date Sampled:**	10/17/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A115727.D	1	10/26/06	ET	n/a	n/a	VA3891
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-101606		
Lab Sample ID:	J44000-10	**Date Sampled:**	10/17/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		77-121%
17060-07-0	1,2-Dichloroethane-D4	103%		65-133%
2037-26-5	Toluene-D8	102%		80-117%
460-00-4	4-Bromofluorobenzene	96%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-25-1.0		
Lab Sample ID:	J44000-11	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56496.D	1	10/27/06	MMC	10/18/06 07:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	700	200	ug/kg	
71-43-2	Benzene	ND	70	34	ug/kg	
75-27-4	Bromodichloromethane	ND	350	32	ug/kg	
75-25-2	Bromoform	ND	350	30	ug/kg	
74-83-9	Bromomethane	ND	350	26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	700	190	ug/kg	
75-15-0	Carbon disulfide	ND	350	39	ug/kg	
56-23-5	Carbon tetrachloride	ND	350	67	ug/kg	
108-90-7	Chlorobenzene	ND	350	30	ug/kg	
75-00-3	Chloroethane	ND	350	120	ug/kg	
67-66-3	Chloroform	ND	350	41	ug/kg	
74-87-3	Chloromethane	ND	350	32	ug/kg	
110-82-7	Cyclohexane	ND	350	90	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	700	150	ug/kg	
124-48-1	Dibromochloromethane	ND	350	38	ug/kg	
106-93-4	1,2-Dibromoethane	ND	70	40	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	350	32	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	350	34	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	350	32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	350	56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	350	34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	70	38	ug/kg	
75-35-4	1,1-Dichloroethene	ND	350	48	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	350	47	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	350	48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	350	39	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	350	29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	350	27	ug/kg	
100-41-4	Ethylbenzene	ND	70	32	ug/kg	
76-13-1	Freon 113	ND	350	60	ug/kg	
591-78-6	2-Hexanone	ND	350	95	ug/kg	
98-82-8	Isopropylbenzene	ND	350	33	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-25-1.0		
Lab Sample ID:	J44000-11	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	350	99	ug/kg	
108-87-2	Methylcyclohexane	ND	350	45	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	70	39	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	350	140	ug/kg	
75-09-2	Methylene chloride	ND	350	48	ug/kg	
100-42-5	Styrene	ND	350	23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	350	40	ug/kg	
127-18-4	Tetrachloroethene	ND	350	58	ug/kg	
108-88-3	Toluene	38.5	70	38	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	350	25	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	350	41	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	350	38	ug/kg	
79-01-6	Trichloroethene	ND	350	36	ug/kg	
75-69-4	Trichlorofluoromethane	ND	350	51	ug/kg	
75-01-4	Vinyl chloride	ND	350	45	ug/kg	
	m,p-Xylene	ND	140	61	ug/kg	
95-47-6	o-Xylene	ND	70	35	ug/kg	
1330-20-7	Xylene (total)	36.2	140	35	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-120%
17060-07-0	1,2-Dichloroethane-D4	76%		61-133%
2037-26-5	Toluene-D8	94%		75-123%
460-00-4	4-Bromofluorobenzene	104%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	17.01	380	ug/kg	JN
	Total TIC, Volatile		380	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-25-1.0		
Lab Sample ID:	J44000-11	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3437.D	1	11/01/06	OYA	10/23/06	OP25218	E3E123
Run #2	3E3448.D	4	11/02/06	OYA	10/23/06	OP25218	E3E124

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2	30.3 g	10.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1900	330	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1900	490	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1900	650	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1900	990	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	7800	590	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	7800	340	ug/kg	
95-48-7	2-Methylphenol	ND	1900	380	ug/kg	
	3&4-Methylphenol	ND	1900	560	ug/kg	
88-75-5	2-Nitrophenol	ND	1900	480	ug/kg	
100-02-7	4-Nitrophenol	ND	7800	530	ug/kg	
87-86-5	Pentachlorophenol	ND	7800	430	ug/kg	
108-95-2	Phenol	ND	1900	480	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1900	580	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1900	330	ug/kg	
83-32-9	Acenaphthene	4390	780	200	ug/kg	
208-96-8	Acenaphthylene	1570	780	160	ug/kg	
98-86-2	Acetophenone	ND	1900	250	ug/kg	
120-12-7	Anthracene	5030	780	150	ug/kg	
1912-24-9	Atrazine	ND	1900	340	ug/kg	
56-55-3	Benzo(a)anthracene	27500	780	190	ug/kg	
50-32-8	Benzo(a)pyrene	37900	780	140	ug/kg	
205-99-2	Benzo(b)fluoranthene	35200	780	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	23700	780	210	ug/kg	
207-08-9	Benzo(k)fluoranthene	27100	780	290	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	780	200	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	780	290	ug/kg	
92-52-4	1,1'-Biphenyl	ND	780	190	ug/kg	
100-52-7	Benzaldehyde	ND	1900	430	ug/kg	
91-58-7	2-Chloronaphthalene	ND	780	540	ug/kg	
106-47-8	4-Chloroaniline	ND	1900	240	ug/kg	
86-74-8	Carbazole	1980	780	160	ug/kg	
105-60-2	Caprolactam	ND	780	370	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-25-1.0
Lab Sample ID: J44000-11
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 85.0

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	30900	780	140	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	780	250	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	780	190	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	780	290	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	780	180	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	780	450	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	780	440	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1900	370	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	8460	780	200	ug/kg	
132-64-9	Dibenzofuran	556	780	180	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	780	250	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	780	330	ug/kg	
84-66-2	Diethyl phthalate	ND	780	170	ug/kg	
131-11-3	Dimethyl phthalate	ND	780	170	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	780	500	ug/kg	
206-44-0	Fluoranthene	44800 [a]	3100	550	ug/kg	
86-73-7	Fluorene	1430	780	160	ug/kg	
118-74-1	Hexachlorobenzene	ND	780	220	ug/kg	
87-68-3	Hexachlorobutadiene	ND	780	260	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	7800	280	ug/kg	
67-72-1	Hexachloroethane	ND	1900	190	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	21500	780	250	ug/kg	
78-59-1	Isophorone	ND	780	190	ug/kg	
91-57-6	2-Methylnaphthalene	488	780	250	ug/kg	J
88-74-4	2-Nitroaniline	ND	1900	250	ug/kg	
99-09-2	3-Nitroaniline	ND	1900	300	ug/kg	
100-01-6	4-Nitroaniline	ND	1900	270	ug/kg	
91-20-3	Naphthalene	574	780	220	ug/kg	J
98-95-3	Nitrobenzene	ND	780	270	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	780	250	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1900	160	ug/kg	
85-01-8	Phenanthrene	17200	780	170	ug/kg	
129-00-0	Pyrene	37900	780	130	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%	54%	33-105%
4165-62-2	Phenol-d5	58%	60%	34-110%
118-79-6	2,4,6-Tribromophenol	66%	64%	33-124%
4165-60-0	Nitrobenzene-d5	64%	79%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-25-1.0
Lab Sample ID: J44000-11
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 85.0

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	75%	59%	40-106%
1718-51-0	Terphenyl-d14	79%	89%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.45	210000	ug/kg	J
	unknown PAH substance	16.99	3300	ug/kg	J
	unknown PAH substance	17.06	4400	ug/kg	J
	unknown	17.24	6600	ug/kg	J
	unknown PAH substance	17.30	3000	ug/kg	J
	Phenylnaphthalene	17.74	2400	ug/kg	J
	unknown PAH substance	19.80	4200	ug/kg	J
	unknown	21.03	2400	ug/kg	J
	unknown PAH substance	22.14	3100	ug/kg	J
	unknown	22.68	3200	ug/kg	J
	unknown	22.96	5500	ug/kg	J
	unknown	23.11	2700	ug/kg	J
	unknown PAH substance	23.33	8900	ug/kg	J
	unknown	23.48	5000	ug/kg	J
	unknown PAH substance	23.57	28000	ug/kg	J
	unknown	23.81	3000	ug/kg	J
	unknown	23.87	2300	ug/kg	J
	unknown	23.96	5500	ug/kg	J
	unknown	24.17	2800	ug/kg	J
	unknown	24.37	4700	ug/kg	J
	unknown	24.55	2800	ug/kg	J
	unknown PAH substance	25.18	3800	ug/kg	J
	unknown PAH substance	25.57	4300	ug/kg	J
	unknown PAH substance	25.64	6400	ug/kg	J
	unknown PAH substance	26.08	4300	ug/kg	J
	unknown	26.28	2500	ug/kg	J
	unknown	26.72	3200	ug/kg	J
	Total TIC, Semi-Volatile		128300	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-25-8.0		
Lab Sample ID:	J44000-12	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y56497.D	1	10/27/06	MMC	10/18/06 07:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.9 g	5.0 ml	5.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	19000	5300	ug/kg	
71-43-2	Benzene	3880	1900	890	ug/kg	
75-27-4	Bromodichloromethane	ND	9300	850	ug/kg	
75-25-2	Bromoform	ND	9300	810	ug/kg	
74-83-9	Bromomethane	ND	9300	690	ug/kg	
78-93-3	2-Butanone (MEK)	ND	19000	5100	ug/kg	
75-15-0	Carbon disulfide	ND	9300	1000	ug/kg	
56-23-5	Carbon tetrachloride	ND	9300	1800	ug/kg	
108-90-7	Chlorobenzene	ND	9300	810	ug/kg	
75-00-3	Chloroethane	ND	9300	3200	ug/kg	
67-66-3	Chloroform	ND	9300	1100	ug/kg	
74-87-3	Chloromethane	ND	9300	860	ug/kg	
110-82-7	Cyclohexane	ND	9300	2400	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	19000	4000	ug/kg	
124-48-1	Dibromochloromethane	ND	9300	1000	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1900	1100	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	9300	850	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	9300	910	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	9300	860	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	9300	1500	ug/kg	
75-34-3	1,1-Dichloroethane	ND	9300	890	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1900	1000	ug/kg	
75-35-4	1,1-Dichloroethene	ND	9300	1300	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	9300	1300	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	9300	1300	ug/kg	
78-87-5	1,2-Dichloropropane	ND	9300	1000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	9300	770	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	9300	730	ug/kg	
100-41-4	Ethylbenzene	50500	1900	840	ug/kg	
76-13-1	Freon 113	ND	9300	1600	ug/kg	
591-78-6	2-Hexanone	ND	9300	2500	ug/kg	
98-82-8	Isopropylbenzene	18300	9300	870	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-25-8.0
Lab Sample ID: J44000-12
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 79.6

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	9300	2600	ug/kg	
108-87-2	Methylcyclohexane	1580	9300	1200	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1900	1000	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	9300	3700	ug/kg	
75-09-2	Methylene chloride	ND	9300	1300	ug/kg	
100-42-5	Styrene	ND	9300	610	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	9300	1100	ug/kg	
127-18-4	Tetrachloroethene	ND	9300	1500	ug/kg	
108-88-3	Toluene	3990	1900	1000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	9300	650	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	9300	1100	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	9300	1000	ug/kg	
79-01-6	Trichloroethene	ND	9300	970	ug/kg	
75-69-4	Trichlorofluoromethane	ND	9300	1400	ug/kg	
75-01-4	Vinyl chloride	ND	9300	1200	ug/kg	
	m,p-Xylene	52300	3700	1600	ug/kg	
95-47-6	o-Xylene	38400	1900	920	ug/kg	
1330-20-7	Xylene (total)	90700	3700	920	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-120%
17060-07-0	1,2-Dichloroethane-D4	77%		61-133%
2037-26-5	Toluene-D8	97%		75-123%
460-00-4	4-Bromofluorobenzene	105%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	14.19	81000	ug/kg	J
	C3 alkyl benzene	14.28	38000	ug/kg	J
	C3 alkyl benzene	14.66	99000	ug/kg	J
496-11-7	Indane	15.28	330000	ug/kg	JN
	1H-indene-dihydro-methyl	15.78	43000	ug/kg	J
	Benzofuran,-methyl-	16.09	49000	ug/kg	J
	1H-indene-dihydro-methyl	16.28	59000	ug/kg	J
	unknown	16.49	52000	ug/kg	J
	unknown	16.58	91000	ug/kg	J
	unknown	16.67	46000	ug/kg	J
91-20-3	Naphthalene	16.98	2600000	ug/kg	JN
	Benzo[ ]thiophene	17.10	84000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-25-8.0		
Lab Sample ID:	J44000-12	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene methyl	17.95	370000	ug/kg	J
	Naphthalene methyl	18.14	260000	ug/kg	J
	Naphthalene dimethyl	19.19	36000	ug/kg	J
	Total TIC, Volatile		4238000	ug/kg	J

(a) Diluted due to high concentration of non-target compound.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-25-8.0		
Lab Sample ID:	J44000-12	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	79.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3435.D	1	11/01/06	OYA	10/23/06	OP25218	E3E123
Run #2	3E3446.D	10	11/02/06	OYA	10/23/06	OP25218	E3E124

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2	5.4 g	10.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	12000	2000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	12000	3000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	12000	3900	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	12000	6000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	47000	3500	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	47000	2000	ug/kg	
95-48-7	2-Methylphenol	ND	12000	2300	ug/kg	
	3&4-Methylphenol	ND	12000	3300	ug/kg	
88-75-5	2-Nitrophenol	ND	12000	2900	ug/kg	
100-02-7	4-Nitrophenol	ND	47000	3200	ug/kg	
87-86-5	Pentachlorophenol	ND	47000	2600	ug/kg	
108-95-2	Phenol	ND	12000	2900	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	12000	3500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	12000	2000	ug/kg	
83-32-9	Acenaphthene	294000 [a]	47000	12000	ug/kg	
208-96-8	Acenaphthylene	19400	4700	940	ug/kg	
98-86-2	Acetophenone	ND	12000	1500	ug/kg	
120-12-7	Anthracene	354000 [a]	47000	9000	ug/kg	
1912-24-9	Atrazine	ND	12000	2000	ug/kg	
56-55-3	Benzo(a)anthracene	228000	4700	1100	ug/kg	
50-32-8	Benzo(a)pyrene	205000	4700	810	ug/kg	
205-99-2	Benzo(b)fluoranthene	162000	4700	1100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	94100	4700	1300	ug/kg	
207-08-9	Benzo(k)fluoranthene	105000	4700	1800	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	4700	1200	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	4700	1800	ug/kg	
92-52-4	1,1'-Biphenyl	79600	4700	1100	ug/kg	
100-52-7	Benzaldehyde	ND	12000	2600	ug/kg	
91-58-7	2-Chloronaphthalene	ND	4700	3300	ug/kg	
106-47-8	4-Chloroaniline	ND	12000	1400	ug/kg	
86-74-8	Carbazole	94100	4700	940	ug/kg	
105-60-2	Caprolactam	ND	4700	2200	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-25-8.0
Lab Sample ID: J44000-12
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 79.6

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	229000	4700	860	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	4700	1500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	4700	1200	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4700	1700	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4700	1100	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	4700	2700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	4700	2700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	12000	2200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	28800	4700	1200	ug/kg	
132-64-9	Dibenzofuran	164000	4700	1100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	4700	1500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	4700	2000	ug/kg	
84-66-2	Diethyl phthalate	ND	4700	1000	ug/kg	
131-11-3	Dimethyl phthalate	ND	4700	1000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4700	3000	ug/kg	
206-44-0	Fluoranthene	684000 [a]	47000	8200	ug/kg	
86-73-7	Fluorene	257000 [a]	47000	9300	ug/kg	
118-74-1	Hexachlorobenzene	ND	4700	1300	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4700	1500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	47000	1700	ug/kg	
67-72-1	Hexachloroethane	ND	12000	1200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	84300	4700	1500	ug/kg	
78-59-1	Isophorone	ND	4700	1200	ug/kg	
91-57-6	2-Methylnaphthalene	288000 [a]	47000	15000	ug/kg	
88-74-4	2-Nitroaniline	ND	12000	1500	ug/kg	
99-09-2	3-Nitroaniline	ND	12000	1800	ug/kg	
100-01-6	4-Nitroaniline	ND	12000	1600	ug/kg	
91-20-3	Naphthalene	1840000 [a]	47000	13000	ug/kg	
98-95-3	Nitrobenzene	ND	4700	1600	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	4700	1500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	12000	960	ug/kg	
85-01-8	Phenanthrene	1130000 [a]	47000	10000	ug/kg	
129-00-0	Pyrene	635000 [a]	47000	8000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%	0% [b]	33-105%
4165-62-2	Phenol-d5	67%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	73%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	70%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-25-8.0		
Lab Sample ID:	J44000-12	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	79.6
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	83%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	73%	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.45	1100000	ug/kg	J
	Indane	6.14	110000	ug/kg	J
	Naphthalene ethyl	11.23	65000	ug/kg	J
	Naphthalene dimethyl	11.37	120000	ug/kg	J
	Naphthalene dimethyl	11.57	170000	ug/kg	J
	Naphthalene dimethyl	11.61	88000	ug/kg	J
	Naphthalene dimethyl	11.82	80000	ug/kg	J
	Naphthalene trimethyl	13.38	58000	ug/kg	J
	Fluorene, -dihydro	13.82	84000	ug/kg	J
	Dibenzofuran, -methyl-	14.03	52000	ug/kg	J
	unknown PAH substance	14.92	76000	ug/kg	J
	unknown PAH substance	14.99	53000	ug/kg	J
	Dibenzothiophene	15.53	89000	ug/kg	J
	unknown PAH substance	16.60	55000	ug/kg	J
	unknown PAH substance	17.00	150000	ug/kg	J
	unknown PAH substance	17.07	170000	ug/kg	J
	Anthracene, -methyl-	17.16	79000	ug/kg	J
203	4H-Cyclopenta[def]phenanthrene	17.26	280000	ug/kg	JN
	unknown PAH substance	17.32	110000	ug/kg	J
	unknown PAH substance	17.74	110000	ug/kg	J
	Phenanthrene, -dimethyl-	18.18	43000	ug/kg	J
	Phenanthrene, -dimethyl-	18.35	92000	ug/kg	J
	Phenylnaphthalene	18.40	110000	ug/kg	J
10544-50-0	Sulfur (S8)	18.46	99000	ug/kg	J
	unknown PAH substance	23.32	50000	ug/kg	J
	unknown PAH substance	23.56	130000	ug/kg	J
	Total TIC, Semi-Volatile		2523000	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12.5-11.75-22		
Lab Sample ID:	J44000-13	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	50.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56498.D	1	10/27/06	MMC	10/18/06 07:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.6 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1900	540	ug/kg	
71-43-2	Benzene	ND	190	90	ug/kg	
75-27-4	Bromodichloromethane	ND	940	85	ug/kg	
75-25-2	Bromoform	ND	940	81	ug/kg	
74-83-9	Bromomethane	ND	940	69	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1900	510	ug/kg	
75-15-0	Carbon disulfide	ND	940	100	ug/kg	
56-23-5	Carbon tetrachloride	ND	940	180	ug/kg	
108-90-7	Chlorobenzene	ND	940	81	ug/kg	
75-00-3	Chloroethane	ND	940	330	ug/kg	
67-66-3	Chloroform	ND	940	110	ug/kg	
74-87-3	Chloromethane	ND	940	86	ug/kg	
110-82-7	Cyclohexane	ND	940	240	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1900	400	ug/kg	
124-48-1	Dibromochloromethane	ND	940	100	ug/kg	
106-93-4	1,2-Dibromoethane	ND	190	110	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	940	85	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	940	91	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	940	86	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	940	150	ug/kg	
75-34-3	1,1-Dichloroethane	ND	940	90	ug/kg	
107-06-2	1,2-Dichloroethane	ND	190	100	ug/kg	
75-35-4	1,1-Dichloroethene	ND	940	130	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	940	130	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	940	130	ug/kg	
78-87-5	1,2-Dichloropropane	ND	940	100	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	940	78	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	940	73	ug/kg	
100-41-4	Ethylbenzene	ND	190	84	ug/kg	
76-13-1	Freon 113	ND	940	160	ug/kg	
591-78-6	2-Hexanone	ND	940	250	ug/kg	
98-82-8	Isopropylbenzene	ND	940	87	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12.5-11.75-22
Lab Sample ID: J44000-13
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 50.3

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	940	260	ug/kg	
108-87-2	Methylcyclohexane	ND	940	120	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	190	100	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	940	370	ug/kg	
75-09-2	Methylene chloride	ND	940	130	ug/kg	
100-42-5	Styrene	ND	940	61	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	940	110	ug/kg	
127-18-4	Tetrachloroethene	ND	940	150	ug/kg	
108-88-3	Toluene	ND	190	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	940	66	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	940	110	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	940	100	ug/kg	
79-01-6	Trichloroethene	ND	940	97	ug/kg	
75-69-4	Trichlorofluoromethane	ND	940	140	ug/kg	
75-01-4	Vinyl chloride	ND	940	120	ug/kg	
	m,p-Xylene	ND	370	160	ug/kg	
95-47-6	o-Xylene	ND	190	92	ug/kg	
1330-20-7	Xylene (total)	ND	370	92	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-120%
17060-07-0	1,2-Dichloroethane-D4	72%		61-133%
2037-26-5	Toluene-D8	94%		75-123%
460-00-4	4-Bromofluorobenzene	102%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	15.30	950	ug/kg	JN
91-20-3	Naphthalene	16.98	18000	ug/kg	JN
	Naphthalene methyl	17.95	8100	ug/kg	J
	Naphthalene methyl	18.15	7000	ug/kg	J
92-52-4	Biphenyl	18.65	2100	ug/kg	JN
	Naphthalene ethyl	18.88	2000	ug/kg	J
	Naphthalene dimethyl	19.00	2500	ug/kg	J
	Naphthalene dimethyl	19.19	3700	ug/kg	J
	Naphthalene dimethyl	19.23	1800	ug/kg	J
	Naphthalene dimethyl	19.48	2000	ug/kg	J
	Naphthalene dimethyl	19.70	1400	ug/kg	J
	Total TIC, Volatile		49550	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12.5-11.75-22		
Lab Sample ID:	J44000-13	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	50.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3434.D	1	11/01/06	OYA	10/23/06	OP25218	E3E123
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	330	56	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	330	83	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	330	110	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	330	170	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1300	99	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1300	57	ug/kg	
95-48-7	2-Methylphenol	ND	330	64	ug/kg	
	3&4-Methylphenol	ND	330	94	ug/kg	
88-75-5	2-Nitrophenol	ND	330	81	ug/kg	
100-02-7	4-Nitrophenol	ND	1300	89	ug/kg	
87-86-5	Pentachlorophenol	ND	1300	73	ug/kg	
108-95-2	Phenol	ND	330	81	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	330	98	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	330	55	ug/kg	
83-32-9	Acenaphthene	438	130	33	ug/kg	
208-96-8	Acenaphthylene	ND	130	26	ug/kg	
98-86-2	Acetophenone	ND	330	41	ug/kg	
120-12-7	Anthracene	295	130	25	ug/kg	
1912-24-9	Atrazine	ND	330	57	ug/kg	
56-55-3	Benzo(a)anthracene	156	130	32	ug/kg	
50-32-8	Benzo(a)pyrene	108	130	23	ug/kg	J
205-99-2	Benzo(b)fluoranthene	70.2	130	30	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	58.3	130	36	ug/kg	J
207-08-9	Benzo(k)fluoranthene	84.1	130	49	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	130	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	130	49	ug/kg	
92-52-4	1,1'-Biphenyl	81.3	130	32	ug/kg	J
100-52-7	Benzaldehyde	ND	330	72	ug/kg	
91-58-7	2-Chloronaphthalene	ND	130	92	ug/kg	
106-47-8	4-Chloroaniline	ND	330	41	ug/kg	
86-74-8	Carbazole	77.7	130	26	ug/kg	J
105-60-2	Caprolactam	ND	130	63	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12.5-11.75-22
Lab Sample ID: J44000-13
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 50.3

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	153	130	24	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	130	42	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	130	33	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	130	49	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	130	31	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	130	76	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	130	75	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	62	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	130	34	ug/kg	
132-64-9	Dibenzofuran	322	130	30	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	130	42	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	130	56	ug/kg	
84-66-2	Diethyl phthalate	ND	130	28	ug/kg	
131-11-3	Dimethyl phthalate	ND	130	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	119	130	84	ug/kg	J
206-44-0	Fluoranthene	665	130	23	ug/kg	
86-73-7	Fluorene	413	130	26	ug/kg	
118-74-1	Hexachlorobenzene	ND	130	38	ug/kg	
87-68-3	Hexachlorobutadiene	ND	130	43	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1300	47	ug/kg	
67-72-1	Hexachloroethane	ND	330	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	53.9	130	41	ug/kg	J
78-59-1	Isophorone	ND	130	32	ug/kg	
91-57-6	2-Methylnaphthalene	361	130	43	ug/kg	
88-74-4	2-Nitroaniline	ND	330	41	ug/kg	
99-09-2	3-Nitroaniline	ND	330	51	ug/kg	
100-01-6	4-Nitroaniline	ND	330	45	ug/kg	
91-20-3	Naphthalene	1060	130	37	ug/kg	
98-95-3	Nitrobenzene	ND	130	46	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	130	42	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	330	27	ug/kg	
85-01-8	Phenanthrene	1310	130	29	ug/kg	
129-00-0	Pyrene	465	130	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		33-105%
4165-62-2	Phenol-d5	69%		34-110%
118-79-6	2,4,6-Tribromophenol	72%		33-124%
4165-60-0	Nitrobenzene-d5	67%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12.5-11.75-22
Lab Sample ID: J44000-13
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 50.3

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	78%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.55	220000	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	10.14	470	ug/kg	J
	unknown	18.74	550	ug/kg	J
	unknown	22.17	510	ug/kg	JN
	alkene	22.64	440	ug/kg	JN
	Vitamin E	24.75	300	ug/kg	J
	unknown	25.21	560	ug/kg	J
	unknown	26.66	370	ug/kg	J
	Total TIC, Semi-Volatile		3200	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-1.0		
Lab Sample ID:	J44000-14	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	80.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14153.D	1	10/31/06	JSE	10/20/06	OP25196	G2G579
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	7.9	ug/kg	
11104-28-2	Aroclor 1221	ND	41	25	ug/kg	
11141-16-5	Aroclor 1232	ND	41	23	ug/kg	
53469-21-9	Aroclor 1242	ND	41	13	ug/kg	
12672-29-6	Aroclor 1248	ND	41	14	ug/kg	
11097-69-1	Aroclor 1254	ND	41	20	ug/kg	
11096-82-5	Aroclor 1260	ND	41	8.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		37-140%
877-09-8	Tetrachloro-m-xylene	61%		37-140%
2051-24-3	Decachlorobiphenyl	64%		40-151%
2051-24-3	Decachlorobiphenyl	1502% [a]		40-151%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-14.5		
Lab Sample ID:	J44000-15	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	78.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y56499.D	1	10/27/06	MMC	10/18/06 07:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.8 g	5.0 ml	2.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	49000	14000	ug/kg	
71-43-2	Benzene	29300	4900	2400	ug/kg	
75-27-4	Bromodichloromethane	ND	25000	2200	ug/kg	
75-25-2	Bromoform	ND	25000	2100	ug/kg	
74-83-9	Bromomethane	ND	25000	1800	ug/kg	
78-93-3	2-Butanone (MEK)	ND	49000	13000	ug/kg	
75-15-0	Carbon disulfide	ND	25000	2700	ug/kg	
56-23-5	Carbon tetrachloride	ND	25000	4700	ug/kg	
108-90-7	Chlorobenzene	ND	25000	2100	ug/kg	
75-00-3	Chloroethane	ND	25000	8500	ug/kg	
67-66-3	Chloroform	ND	25000	2900	ug/kg	
74-87-3	Chloromethane	ND	25000	2300	ug/kg	
110-82-7	Cyclohexane	ND	25000	6300	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	49000	11000	ug/kg	
124-48-1	Dibromochloromethane	ND	25000	2700	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4900	2800	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	25000	2200	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	25000	2400	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	25000	2300	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	25000	3900	ug/kg	
75-34-3	1,1-Dichloroethane	ND	25000	2400	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4900	2700	ug/kg	
75-35-4	1,1-Dichloroethene	ND	25000	3400	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	25000	3300	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	25000	3400	ug/kg	
78-87-5	1,2-Dichloropropane	ND	25000	2700	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	25000	2000	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	25000	1900	ug/kg	
100-41-4	Ethylbenzene	174000	4900	2200	ug/kg	
76-13-1	Freon 113	ND	25000	4200	ug/kg	
591-78-6	2-Hexanone	ND	25000	6700	ug/kg	
98-82-8	Isopropylbenzene	30300	25000	2300	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-10.75-14.5
Lab Sample ID: J44000-15
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 78.1

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	25000	6900	ug/kg	
108-87-2	Methylcyclohexane	ND	25000	3200	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4900	2700	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25000	9800	ug/kg	
75-09-2	Methylene chloride	ND	25000	3400	ug/kg	
100-42-5	Styrene	ND	25000	1600	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25000	2800	ug/kg	
127-18-4	Tetrachloroethene	ND	25000	4000	ug/kg	
108-88-3	Toluene	70700	4900	2700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	25000	1700	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	25000	2900	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	25000	2600	ug/kg	
79-01-6	Trichloroethene	ND	25000	2600	ug/kg	
75-69-4	Trichlorofluoromethane	ND	25000	3600	ug/kg	
75-01-4	Vinyl chloride	ND	25000	3200	ug/kg	
	m,p-Xylene	195000	9800	4300	ug/kg	
95-47-6	o-Xylene	93100	4900	2400	ug/kg	
1330-20-7	Xylene (total)	288000	9800	2400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-120%
17060-07-0	1,2-Dichloroethane-D4	73%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	103%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	14.20	200000	ug/kg	J
	C3 alkyl benzene	14.66	200000	ug/kg	J
496-11-7	Indane	15.28	1100000	ug/kg	JN
95-13-6	Indene	15.50	110000	ug/kg	JN
	1H-indene-dihydro-methyl	16.43	120000	ug/kg	J
	unknown	16.48	140000	ug/kg	J
	unknown	16.58	180000	ug/kg	J
91-20-3	Naphthalene	16.98	7300000	ug/kg	JN
	Benzo[ ]thiophene	17.10	240000	ug/kg	J
	Naphthalene methyl	17.95	1700000	ug/kg	J
	Naphthalene methyl	18.14	850000	ug/kg	J
92-52-4	Biphenyl	18.65	130000	ug/kg	JN

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-14.5		
Lab Sample ID:	J44000-15	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	78.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene ethyl	18.87	110000	ug/kg	J
	Naphthalene dimethyl	19.00	160000	ug/kg	J
	Naphthalene dimethyl	19.18	140000	ug/kg	J
	Total TIC, Volatile		12680000	ug/kg	J

(a) Diluted due to high concentration of non-target compound.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-14.5		
Lab Sample ID:	J44000-15	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	78.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3440.D	1	11/02/06	OYA	10/23/06	OP25218	E3E123
Run #2	3E3444.D	50	11/02/06	OYA	10/23/06	OP25218	E3E124

	Initial Weight	Final Volume
Run #1	5.1 g	5.0 ml
Run #2	5.1 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6300	1100	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	6300	1600	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	6300	2100	ug/kg	
105-67-9	2,4-Dimethylphenol	8340	6300	3200	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	25000	1900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	25000	1100	ug/kg	
95-48-7	2-Methylphenol	ND	6300	1200	ug/kg	
	3&4-Methylphenol	ND	6300	1800	ug/kg	
88-75-5	2-Nitrophenol	ND	6300	1600	ug/kg	
100-02-7	4-Nitrophenol	ND	25000	1700	ug/kg	
87-86-5	Pentachlorophenol	ND	25000	1400	ug/kg	
108-95-2	Phenol	ND	6300	1600	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	6300	1900	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	6300	1100	ug/kg	
83-32-9	Acenaphthene	1050000 [a]	130000	32000	ug/kg	
208-96-8	Acenaphthylene	54200	2500	510	ug/kg	
98-86-2	Acetophenone	ND	6300	790	ug/kg	
120-12-7	Anthracene	646000 [a]	130000	24000	ug/kg	
1912-24-9	Atrazine	ND	6300	1100	ug/kg	
56-55-3	Benzo(a)anthracene	399000 [a]	130000	30000	ug/kg	
50-32-8	Benzo(a)pyrene	240000 [a]	130000	22000	ug/kg	
205-99-2	Benzo(b)fluoranthene	165000 [a]	130000	29000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	77800	2500	690	ug/kg	
207-08-9	Benzo(k)fluoranthene	202000 [a]	130000	47000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	2500	640	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	2500	950	ug/kg	
92-52-4	1,1'-Biphenyl	237000 [a]	130000	30000	ug/kg	
100-52-7	Benzaldehyde	ND	6300	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	2500	1800	ug/kg	
106-47-8	4-Chloroaniline	ND	6300	780	ug/kg	
86-74-8	Carbazole	198000 [a]	130000	25000	ug/kg	
105-60-2	Caprolactam	ND	2500	1200	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-14.5		
Lab Sample ID:	J44000-15	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	78.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	337000 [a]	130000	23000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	2500	810	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	2500	630	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2500	940	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2500	590	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2500	1500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2500	1400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	6300	1200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	31400	2500	660	ug/kg	
132-64-9	Dibenzofuran	797000 [a]	130000	29000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2500	800	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	2500	1100	ug/kg	
84-66-2	Diethyl phthalate	ND	2500	540	ug/kg	
131-11-3	Dimethyl phthalate	ND	2500	540	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2500	1600	ug/kg	
206-44-0	Fluoranthene	1710000 [a]	130000	22000	ug/kg	
86-73-7	Fluorene	1080000 [a]	130000	25000	ug/kg	
118-74-1	Hexachlorobenzene	ND	2500	720	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2500	830	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	25000	900	ug/kg	
67-72-1	Hexachloroethane	ND	6300	630	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	81900	2500	800	ug/kg	
78-59-1	Isophorone	ND	2500	620	ug/kg	
91-57-6	2-Methylnaphthalene	1480000 [a]	130000	41000	ug/kg	
88-74-4	2-Nitroaniline	ND	6300	790	ug/kg	
99-09-2	3-Nitroaniline	ND	6300	970	ug/kg	
100-01-6	4-Nitroaniline	ND	6300	870	ug/kg	
91-20-3	Naphthalene	5360000 [a]	130000	35000	ug/kg	
98-95-3	Nitrobenzene	ND	2500	870	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	2500	810	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	6300	520	ug/kg	
85-01-8	Phenanthrene	3310000 [a]	130000	28000	ug/kg	
129-00-0	Pyrene	1170000 [a]	130000	22000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%	0% [b]	33-105%
4165-62-2	Phenol-d5	79%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	70%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	76%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-14.5		
Lab Sample ID:	J44000-15	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	78.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	85%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	88%	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.43	340000	ug/kg	J
	system artifact/aldol-condensation	3.48	650000	ug/kg	J
	C3 alkyl benzene	5.04	52000	ug/kg	J
	C3 alkyl benzene	5.51	81000	ug/kg	J
	Indane	6.15	310000	ug/kg	J
	Indene	6.28	70000	ug/kg	J
	Naphthalene ethyl	11.24	150000	ug/kg	J
	Naphthalene dimethyl	11.41	360000	ug/kg	J
	Naphthalene dimethyl	11.60	400000	ug/kg	J
	Naphthalene dimethyl	11.65	200000	ug/kg	J
	Naphthalene dimethyl	11.84	150000	ug/kg	J
	Naphthalene dimethyl	11.89	50000	ug/kg	J
	Naphthalene dimethyl	12.04	93000	ug/kg	J
	Naphthalene, -(-methylethyl)-	12.64	52000	ug/kg	J
	Benzene, [-(-cyclopentadien--ylidene)eth	12.76	51000	ug/kg	J
	Naphthalene trimethyl	12.91	62000	ug/kg	J
	Naphthalene trimethyl	12.97	70000	ug/kg	J
	Naphthalene trimethyl	13.16	64000	ug/kg	J
	Naphthalene trimethyl	13.20	54000	ug/kg	J
	Naphthalene trimethyl	13.39	100000	ug/kg	J
	unknown	13.78	77000	ug/kg	J
	unknown	13.85	210000	ug/kg	J
	Naphthalene, -(-propenyl)-	13.93	85000	ug/kg	J
	Dibenzofuran, -methyl-	14.06	170000	ug/kg	J
	unknown PAH substance	23.34	54000	ug/kg	J
	unknown PAH substance	23.58	88000	ug/kg	J
	Total TIC, Semi-Volatile		3053000	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-14.5		
Lab Sample ID:	J44000-15	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	78.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14146.D	1	10/31/06	JSE	10/20/06	OP25196	G2G578
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	130	24	ug/kg	
11104-28-2	Aroclor 1221	ND	130	76	ug/kg	
11141-16-5	Aroclor 1232	ND	130	68	ug/kg	
53469-21-9	Aroclor 1242	ND	130	40	ug/kg	
12672-29-6	Aroclor 1248	ND	130	43	ug/kg	
11097-69-1	Aroclor 1254	ND	130	60	ug/kg	
11096-82-5	Aroclor 1260	ND	130	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		37-140%
877-09-8	Tetrachloro-m-xylene	84%		37-140%
2051-24-3	Decachlorobiphenyl	100%		40-151%
2051-24-3	Decachlorobiphenyl	60%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-10.75-14.5
Lab Sample ID: J44000-15
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 78.1

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5070	25	6.0	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.95 U	2.5	0.95	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	13.9	2.5	0.95	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	35.1	25	0.38	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.42 B	0.63	0.025	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.28 B	0.63	0.13	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	2300	630	11	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	15.5	1.3	0.55	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	6.8	6.3	0.23	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	25.1	3.1	0.29	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Iron	14200	13	9.5	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	26.0	2.5	0.40	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	2740	630	2.2	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	174	1.9	0.075	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.11	0.042	0.014	mg/kg	1	10/30/06	10/30/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	15.6	5.0	0.40	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	844	630	11	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	2.2 B	2.5	0.99	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Silver	0.28 U	1.3	0.28	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	1240 B	1300	42	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.1 U	1.3	1.1	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Vanadium	18.3	6.3	0.29	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	35.6	2.5	0.36	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18279
(2) Instrument QC Batch: MA18282
(3) Instrument QC Batch: MA18287
(4) Prep QC Batch: MP36519
(5) Prep QC Batch: MP36563

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL12-10.75-7.0		
Lab Sample ID:	J44000-16	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	80.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y56500.D	1	10/27/06	MMC	10/18/06 07:00	n/a	VY2283
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.9 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	920	260	ug/kg	
71-43-2	Benzene	2700	92	44	ug/kg	
75-27-4	Bromodichloromethane	ND	460	42	ug/kg	
75-25-2	Bromoform	ND	460	40	ug/kg	
74-83-9	Bromomethane	ND	460	34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	920	250	ug/kg	
75-15-0	Carbon disulfide	ND	460	51	ug/kg	
56-23-5	Carbon tetrachloride	ND	460	88	ug/kg	
108-90-7	Chlorobenzene	ND	460	40	ug/kg	
75-00-3	Chloroethane	ND	460	160	ug/kg	
67-66-3	Chloroform	ND	460	54	ug/kg	
74-87-3	Chloromethane	ND	460	43	ug/kg	
110-82-7	Cyclohexane	ND	460	120	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	920	200	ug/kg	
124-48-1	Dibromochloromethane	ND	460	51	ug/kg	
106-93-4	1,2-Dibromoethane	ND	92	52	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	460	42	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	460	45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	460	43	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	460	73	ug/kg	
75-34-3	1,1-Dichloroethane	ND	460	44	ug/kg	
107-06-2	1,2-Dichloroethane	ND	92	50	ug/kg	
75-35-4	1,1-Dichloroethene	ND	460	64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	460	62	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	460	63	ug/kg	
78-87-5	1,2-Dichloropropane	ND	460	51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	460	38	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	460	36	ug/kg	
100-41-4	Ethylbenzene	2720	92	42	ug/kg	
76-13-1	Freon 113	ND	460	79	ug/kg	
591-78-6	2-Hexanone	ND	460	130	ug/kg	
98-82-8	Isopropylbenzene	238	460	43	ug/kg	J

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-10.75-7.0
Lab Sample ID: J44000-16
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 80.1

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	460	130	ug/kg	
108-87-2	Methylcyclohexane	ND	460	60	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	92	52	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	460	180	ug/kg	
75-09-2	Methylene chloride	ND	460	64	ug/kg	
100-42-5	Styrene	ND	460	30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	460	53	ug/kg	
127-18-4	Tetrachloroethene	ND	460	76	ug/kg	
108-88-3	Toluene	296	92	50	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	460	32	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	460	55	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	460	50	ug/kg	
79-01-6	Trichloroethene	ND	460	48	ug/kg	
75-69-4	Trichlorofluoromethane	ND	460	67	ug/kg	
75-01-4	Vinyl chloride	ND	460	60	ug/kg	
	m,p-Xylene	786	180	81	ug/kg	
95-47-6	o-Xylene	296	92	46	ug/kg	
1330-20-7	Xylene (total)	1080	180	46	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-120%
17060-07-0	1,2-Dichloroethane-D4	71%		61-133%
2037-26-5	Toluene-D8	95%		75-123%
460-00-4	4-Bromofluorobenzene	102%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	15.28	8900	ug/kg	JN
	Benzofuran, methyl-	16.09	1400	ug/kg	J
	1H-indene-dihydro-methyl	16.29	870	ug/kg	J
	unknown	16.49	930	ug/kg	J
	unknown	16.58	1300	ug/kg	J
91-20-3	Naphthalene	16.98	53000	ug/kg	JN
	Benzo[ ]thiophene	17.10	2000	ug/kg	J
	Naphthalene methyl	17.95	10000	ug/kg	J
	Naphthalene methyl	18.14	13000	ug/kg	J
92-52-4	Biphenyl	18.65	1500	ug/kg	JN
	Naphthalene ethyl	18.87	1200	ug/kg	J
	Naphthalene dimethyl	19.00	3600	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-7.0		
Lab Sample ID:	J44000-16	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	80.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene dimethyl	19.18	3700	ug/kg	J
	Naphthalene dimethyl	19.23	1300	ug/kg	J
	Naphthalene dimethyl	19.48	1400	ug/kg	J
	Total TIC, Volatile		104100	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-7.0		
Lab Sample ID:	J44000-16	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	80.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E3436.D	1	11/01/06	OYA	10/23/06	OP25218	E3E123
Run #2	3E3447.D	5	11/02/06	OYA	10/23/06	OP25218	E3E124

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2	30.2 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	210	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	53	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	69	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	110	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	63	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	830	36	ug/kg	
95-48-7	2-Methylphenol	ND	210	41	ug/kg	
	3&4-Methylphenol	ND	210	59	ug/kg	
88-75-5	2-Nitrophenol	ND	210	51	ug/kg	
100-02-7	4-Nitrophenol	ND	830	56	ug/kg	
87-86-5	Pentachlorophenol	ND	830	46	ug/kg	
108-95-2	Phenol	ND	210	51	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	62	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	35	ug/kg	
83-32-9	Acenaphthene	14100 [a]	410	110	ug/kg	
208-96-8	Acenaphthylene	470	83	17	ug/kg	
98-86-2	Acetophenone	ND	210	26	ug/kg	
120-12-7	Anthracene	1230	83	16	ug/kg	
1912-24-9	Atrazine	ND	210	36	ug/kg	
56-55-3	Benzo(a)anthracene	1900	83	20	ug/kg	
50-32-8	Benzo(a)pyrene	1800	83	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	2020	83	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	956	83	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	1310	83	31	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	83	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	83	31	ug/kg	
92-52-4	1,1'-Biphenyl	330	83	20	ug/kg	
100-52-7	Benzaldehyde	ND	210	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	83	58	ug/kg	
106-47-8	4-Chloroaniline	ND	210	26	ug/kg	
86-74-8	Carbazole	3080	83	17	ug/kg	
105-60-2	Caprolactam	ND	83	40	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-10.75-7.0
Lab Sample ID: J44000-16
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 80.1

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	1870	83	15	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	83	27	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	83	21	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	83	31	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	83	19	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	83	48	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	83	47	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	39	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	410	83	22	ug/kg	
132-64-9	Dibenzofuran	8860 [a]	410	96	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	83	26	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	83	35	ug/kg	
84-66-2	Diethyl phthalate	ND	83	18	ug/kg	
131-11-3	Dimethyl phthalate	ND	83	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	83	53	ug/kg	
206-44-0	Fluoranthene	3350	83	15	ug/kg	
86-73-7	Fluorene	10300 [a]	410	83	ug/kg	
118-74-1	Hexachlorobenzene	ND	83	24	ug/kg	
87-68-3	Hexachlorobutadiene	ND	83	27	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	830	30	ug/kg	
67-72-1	Hexachloroethane	ND	210	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	995	83	26	ug/kg	
78-59-1	Isophorone	ND	83	21	ug/kg	
91-57-6	2-Methylnaphthalene	741	83	27	ug/kg	
88-74-4	2-Nitroaniline	ND	210	26	ug/kg	
99-09-2	3-Nitroaniline	ND	210	32	ug/kg	
100-01-6	4-Nitroaniline	ND	210	29	ug/kg	
91-20-3	Naphthalene	11000 [a]	410	120	ug/kg	
98-95-3	Nitrobenzene	ND	83	29	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	83	27	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	17	ug/kg	
85-01-8	Phenanthrene	14000 [a]	410	91	ug/kg	
129-00-0	Pyrene	2170	83	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%	70%	33-105%
4165-62-2	Phenol-d5	78%	63%	34-110%
118-79-6	2,4,6-Tribromophenol	80%	69%	33-124%
4165-60-0	Nitrobenzene-d5	78%	66%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-10.75-7.0
Lab Sample ID: J44000-16
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 80.1

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	81%	81%	40-106%
1718-51-0	Terphenyl-d14	79%	89%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.55	160000	ug/kg	J
	Indane	6.14	1900	ug/kg	J
90-12-0	Naphthalene,1-methyl-	10.15	9700	ug/kg	J
	Naphthalene dimethyl	11.38	3800	ug/kg	J
	Naphthalene dimethyl	11.57	5000	ug/kg	J
	Naphthalene dimethyl	11.61	1400	ug/kg	J
	Naphthalene dimethyl	11.82	1800	ug/kg	J
	Naphthalene dimethyl	11.86	990	ug/kg	J
	Naphthalene dimethyl	12.03	1200	ug/kg	J
	unknown	13.82	1600	ug/kg	J
	Naphthalene, -(-propenyl)-	13.90	1000	ug/kg	J
	Dibenzofuran, methyl-	14.03	1100	ug/kg	J
	unknown PAH substance	14.92	800	ug/kg	J
	Dibenzothiophene	15.52	1500	ug/kg	J
	unknown	16.57	950	ug/kg	J
	unknown	17.25	1200	ug/kg	J
	unknown	17.59	2800	ug/kg	J
	unknown	17.88	9700	ug/kg	J
	unknown	18.19	3300	ug/kg	J
10544-50-0	Sulfur (S8)	18.45	1600	ug/kg	J
	unknown	18.90	16000	ug/kg	J
	unknown PAH substance	19.80	2000	ug/kg	J
	unknown PAH substance	19.87	1900	ug/kg	J
	unknown PAH substance	20.70	890	ug/kg	J
	unknown PAH substance	23.32	840	ug/kg	J
	unknown PAH substance	23.56	1300	ug/kg	J
	Total TIC, Semi-Volatile		74270	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-10.75-7.0		
Lab Sample ID:	J44000-16	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/17/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	80.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14147.D	1	10/31/06	JSE	10/20/06	OP25196	G2G578
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	7.9	ug/kg	
11104-28-2	Aroclor 1221	ND	41	25	ug/kg	
11141-16-5	Aroclor 1232	ND	41	22	ug/kg	
53469-21-9	Aroclor 1242	ND	41	13	ug/kg	
12672-29-6	Aroclor 1248	ND	41	14	ug/kg	
11097-69-1	Aroclor 1254	ND	41	20	ug/kg	
11096-82-5	Aroclor 1260	ND	41	8.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		37-140%
877-09-8	Tetrachloro-m-xylene	67%		37-140%
2051-24-3	Decachlorobiphenyl	70%		40-151%
2051-24-3	Decachlorobiphenyl	102%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-10.75-7.0
Lab Sample ID: J44000-16
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/17/06
Percent Solids: 80.1

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2110	25	6.0	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.96 U	2.5	0.96	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Arsenic	30.0	2.5	0.96	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Barium	30.7	25	0.38	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.22 B	0.63	0.025	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.22 B	0.63	0.13	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Calcium	857	630	11	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Chromium	8.1	1.3	0.55	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Cobalt	4.7 B	6.3	0.23	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Copper	50.0	3.2	0.29	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Iron	6960	13	9.5	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Lead	106	2.5	0.40	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Magnesium	513 B	630	2.2	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Manganese	71.1	1.9	0.076	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.11	0.040	0.013	mg/kg	1	10/30/06	10/30/06	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	15.0	5.0	0.40	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Potassium	403 B	630	11	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.7 B	2.5	1.0	mg/kg	1	10/27/06	10/31/06	LH	SW846 6010B [3]	SW846 3050B [4]
Silver	0.28 U	1.3	0.28	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Sodium	233 B	1300	42	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Thallium	1.1 U	1.3	1.1	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Vanadium	14.0	6.3	0.29	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]
Zinc	36.1	2.5	0.37	mg/kg	1	10/27/06	10/29/06	ND	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA18279
(2) Instrument QC Batch: MA18282
(3) Instrument QC Batch: MA18287
(4) Prep QC Batch: MP36519
(5) Prep QC Batch: MP36563

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FB TD JME

J441000

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 39006.23661
COC# 38716 / 101606-SW
SOIL

Sampling Co.:	CH2M HILL	Privileged & Confidential	
Client Contact: (name, co., address)		EDD To:	amy.klopper@ch2m.com, john.mitchell@ch2m.com
Jennifer Simms		Sampler:	Austin Harclerode
1700 Market Street, Suite 1600		PO #	
Philadelphia, PA 19103		Analysis Turnaround Time (TAT):	10
Preliminary Data To	amy.klopper@ch2m.com,	Consultant	CH2M
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com	Full Report TAT:	
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road,		
Invoice To:	jennifer.simms@ch2m.com		

Site Name: Quanta Resources (Edgewater) — Phase:
Location of Site: Edgewater, NJ — Sampling Program: Quanta 2006 SI

Lab Proj # (SDG):
Lab ID: ACTD
Site ID: Quanta
Lab Job #
Authorized User: Honeywell
Text & Excel File Drive: Excel & Text File Order

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	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082	Cr 6+ SW7196						Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID																						
											Units															
1	Equip Blank	—	—	EB-101606	10/16/06	0830	Aqueous	DI	EB	7	G	N	X	X	X	X	-	1							01A labeled	
2	TL 15-10.75	0	2	TL 15-10.75-1.0	10/16/06	0845	Soil	Soil	Reg	1	G	N			X		-	2							TL15-10.75-42	
3	TL 15-10.75	8	8.5	TL 15-10.75-8.0	10/16/06	0850	Soil	Soil	Reg	1	G	N			X		-	3							K 1 ENCL SAMPLE	
4	TL 15-10.75	47	47.5	TL 15-10.75-47	10/16/06	1100	Soil	Soil	Reg	1	G	N				X	-	4							10-17-06 DA	
5	TL 15-10.75	40.5	41.5	TL 15-10.75-41 Δ	10/16/06	1030	Soil	Soil	Reg	1	G	N				X	-	5								
6	SB-24	0	2	SB-24-1.0 *	10/16/06	1345	Soil	Soil	Reg	2	G	N	X	X	X		-	6	X						EX5, AMET6,	
7	SB-24	10	12	SB-24-11	10/16/06	1430	Soil	Soil	Reg	2	C	N	X	X	X		-	7	X						EX42, 146BM,	
8	TL 14.5-11.25	1	3	TL 14.5-11.25-2.0	10/16/06	1445	Soil	Soil	Reg	2	C	N	X	X			-	8							425	
9	TL 14.5-11.25	8.5	9	TL 14.5-11.25-9.0	10/16/06	1515	Soil	Soil	Reg	2	G	N	X	X			-	9							# on KB & JEN Simms	
10	Trip Blank	—	—	TB-101606	10/16/06	—	Aqueous	DI	TB	2	G	N	X				-	10							CORRECT TA SAMPLE-S =	
11	SB-25	0	2	SB-25-1.0 *	10/17/06	0800	Soil	Soil	Reg	2	C	N	X	X			-	11							TL15-10.75-41@1030	
12	SB-25	7	9	SB-25-8.0 *	10/17/06	0815	Soil	Soil	Reg	2	C	N	X	X			-	12							Rec'd / Cooler Ended 10/18/06	

SW6010^LLI

See worksheet SW6010 analytes (Ag and Lead only)

Relinquished by	Company: CH2M HILL	Received by	Company: Accutest	Condition		Custody Seals Intact	# 342	
Date/Time: 10/16/06 1510		Date/Time: 10/17/06 1510		Cooler Temp.	2.0C		Intact	
Relinquished by	Company: Accutest	Received by	Company:	Condition		Custody Seals Intact		
Date/Time: 10/17/06 1743		Date/Time: 10/17/06 09:23		Cooler Temp.				

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

1B

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

5.1 5

J44000: Chain of Custody
Page 1 of 3

FB to SME

J44000

Accutest Labs
235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell

Chain Of Custody / Analysis Request

AESI Ref: 39006.23661
COC# 30916 - 101706 - Soil
Lab Proj # (SDG):
Lab ID: ACTD
Site ID: Quanta
Lab Job #:
Authorized User: Honeywell
Text & Excel File Drive: Excel & Text File Order

Privileged & Confidential
Site Name: Quanta Resources (Edgewater)
Phase:
Sampling Program: Quanta 2006 SI ~~Groundwater~~
Sampling Co.: CH2M HILL
EDD To: amy.klopper@ch2m.com, john.mitchell@ch2m.com
Location of Site: Edgewater, NJ
Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103
Sampler: Austin Harclerode
PO #
Analysis Turnaround Time (TAT): 10
Consultant: CH2M
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To: jennifer.simms@ch2m.com
Full Report TAT:

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082,	Sampling Method (code)	Lab Sample Numbers
											Units									
1	TL 12.5-11.75	21	23	TL 12.5-11.75-22	10-17-06	1045	Soil	Soil	Reg	2	C	N	X	X				-13	Kleinsamle	
2	TL 12-10.75	0	2	TL 12-10.75-1.0	10-17-06	1245	Soil	Soil	Reg	1	C	N				X		-14	10-17-06	
3	TL 12-10.75	13.5	15.5	TL 12-10.75-14.5	10-17-06	1300	Soil	Soil	Reg	2	C	N	X	X	X	X		-15		
4	TL 12-10.75	6.5	7.5	TL 12-10.76-7.0	10-17-06	1315	Soil	Soil	Reg	2	C	N	X	X	X	X		-16		
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Sample Identification

SW6010^LLI

~~Cooler Contact SW6010 - analyze for Arsenic (As) and Lead (Pb)~~

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
[signature]	CH2M HILL 10/17/06 1510	[signature]	Accutest 10/17/06 1515	Cooler Temp. 2.0C	#342 Intact
[signature]	Accutest 10/17/06 1723	PDOT	10/17/06 1723		

Preservatives: (Other; Specify): 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

5.1

5

J44000: Chain of Custody
Page 2 of 3

Job Change Order: J44000_10/31/2006

Requested Date:	10/31/2006	**Received Date:**	10/17/2006
Account Name:	CH2M Hill	**Due Date:**	10/31/2006
Project Description:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	21

Sample #:
J44000-6 & 7

Change: Relog for XXCRAR

Sample #:
J44000-6

Change: Relof for XXCRAR (as the QC sample in the batch)

SB-24-1.0

Above Changes Per: Lab **Date:** 10/31/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

J44000: Chain of Custody
Page 3 of 3

New Jersey ACCUTEST LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 ARI (SOIL) Edgewater, NJ

PO#917730 Quanta 2006 SI

Accutest Job Number: J44121

Sampling Dates: 10/17/06 - 10/18/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **83**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J44121

Quanta 2006 ARI (SOIL) Edgewater, NJ
Project No: PO#917730 Quanta 2006 SI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44121-1	10/17/06	15:30	AH	10/18/06	SO	Soil	TL12-11.75-18
J44121-2	10/18/06	08:30	AH	10/18/06	SO	Soil	TL12.5-12.25-20
J44121-3	10/18/06	09:30	AH	10/18/06	SO	Soil	SB-23-1.0
J44121-4	10/18/06	09:45	AH	10/18/06	SO	Soil	SB-23-3.0
J44121-5	10/18/06	10:00	AH	10/18/06	SO	Soil	SB-23-11
J44121-6	10/18/06	00:00	AH	10/18/06	SO	Soil	DUP-101806
J44121-7	10/18/06	12:45	AH	10/18/06	SO	Soil	TL19-0.5-29
J44121-8	10/18/06	13:45	AH	10/18/06	SO	Soil	TL18.5-0.5-16
J44121-9	10/18/06	14:00	AH	10/18/06	SO	Soil	TL18.5-0.5-29.5
J44121-10	10/18/06	14:50	AH	10/18/06	SO	Soil	TL18.5-1.5-24.5
J44121-11	10/18/06	15:30	AH	10/18/06	AQ	Trip Blank Soil	TB-101806
J44121-12	10/18/06	15:30	AH	10/18/06	AQ	Equipment Blank	EB-101806

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J44121
Site:	Quanta 2006 ARI (SOIL) Edgewater, NJ	**Report Date**	11/14/2006 4:27:52 PM

11 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on between 10/17/2006 and 10/18/2006 and were received at Accutest on 10/18/2006 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of J44121. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** V1A1871

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44438-29MS, J44438-29MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene, Methylene chloride are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Trichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 1,1,1-Trichloroethane, 1,2-Dichloroethane, Carbon tetrachloride, Chloroform, Trichloroethene, Trichlorofluoromethane are outside control limits for sample J44438-29MSD. Probable cause due to matrix interference.
- J44438-29MS for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

Matrix SO **Batch ID:** VD4748

- All samples were analyzed within the recommended method holding time.
- Sample(s) J44121-1MS, J44121-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for Bromomethane, Chloroethane are outside control limits for sample J44121-1MSD. Probable cause due to matrix interference.
- J44121-1MSD for Bromomethane: Outside control limits due to matrix interference. Refer to Blank Spike.
- J44121-1MSD for Chloroethane: Outside control limits due to matrix interference. Refer to Blank Spike.

Matrix SO **Batch ID:** VD4752

- All samples were analyzed within the recommended method holding time.
- Sample(s) J44683-1MS, J44683-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for Bromomethane are outside control limits for sample J44683-1MSD. Probable cause due tomatrix interference.
- J44683-1MSD for Bromomethane: Outside control limits due to matrix interference. Refer to Blank Spike.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP25211

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44123-31MS, J44123-31MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, 4,6-Dinitro-o-cresol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Di-n-octyl phthalate, Pyrene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine, 4,6-Dinitro-o-cresol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Di-n-octyl phthalate, Pyrene are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Caprolactam are outside control limits for sample OP25211-MSD. Probable cause due to matrix interference.
- OP25211-MS for Terphenyl-d14: Outside control limits due to matrix interference.
- OP25211-MSD for Terphenyl-d14: Outside control limits due to matrix interference.

Matrix SO **Batch ID:** OP25218

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44000-6MS, J44000-6MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 2-Methylphenol, Benzo(b)fluoranthene, Benzo(k)fluoranthene, bis(2-Chloroethyl)ether, Di-n-butyl phthalate, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, Benzo(k)fluoranthene, Hexachlorocyclopentadiene, Benzaldehyde are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2-Methylphenol, 4-Nitrophenol, Benzaldehyde, Di-n-butyl phthalate, Hexachlorobenzene, Pentachlorophenol, Phenol are outside control limits for sample OP25218-MSD. Probable cause due to matrix interference.
- J44121-5 for 2-Fluorophenol: Outside control limits due to dilution.
- J44121-8 for 2-Fluorophenol: Outside control limits due to dilution.
- J44121-8 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J44121-8 for Nitrobenzene-d5: Outside control limits due to dilution.
- J44121-8 for Phenol-d5: Outside control limits due to dilution.
- J44121-8 for Phenol-d5: Outside control limits due to dilution.
- J44121-8 for Terphenyl-d14: Outside control limits due to dilution.
- J44121-8 for Terphenyl-d14: Outside control limits due to dilution and matrix interference.
- J44121-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J44121-8 for Nitrobenzene-d5: Outside control limits due to dilution.
- J44121-5 for Nitrobenzene-d5: Outside control limits due to dilution.
- J44121-5 for Phenol-d5: Outside control limits due to dilution.
- J44121-5 for Terphenyl-d14: Outside control limits due to dilution.
- OP25218-MS for Nitrobenzene-d5: Outside control limits due to matrix interference.
- J44121-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J44121-4 for Nitrobenzene-d5: Outside control limits due to dilution.
- J44121-8 for 2-Fluorobiphenyl: Outside control limits due to dilution and matrix interference.
- J44121-8 for 2,4,6-Tribromophenol: Outside control limits due to dilution and matrix interference.
- J44121-4 for Terphenyl-d14: Outside control limits due to dilution and matrix interference.
- J44121-8 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270C

Matrix SO **Batch ID:** OP25218

- J44121-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J44121-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- J44121-4 for 2-Fluorophenol: Outside control limits due to dilution.
- J44121-8 for 2-Fluorophenol: Outside control limits due to dilution.
- J44121-4 for Phenol-d5: Outside control limits due to dilution.
- J44121-4 for Terphenyl-d14: Outside control limits due to dilution.
- J44121-9 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J44121-8 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- J44121-8 for Terphenyl-d14: Outside control limits due to dilution.
- J44121-8 for 2-Fluorobiphenyl: Outside control limits due to dilution.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP25198

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J43998-1MS, J43998-1MSD, OP25198-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP25198-BS2 for Aroclor 1260: Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (15%) so using for confirmation only.
- OP25198-BS2 for Aroclor 1016: Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (15%) so using for confirmation only.

Matrix SO **Batch ID:** OP25217

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) J44121-3MS, OP25217-MSMSD, J44121-3MS, J44121-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Aroclor 1016, Aroclor 1260 are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aroclor 1016 are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Aroclor 1016, Aroclor 1260 are outside control limits for sample OP25217-MSD. Probable cause due to matrix interference.
- J44121-8 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Metals By Method SW846 6010B

Matrix	AQ	Batch ID:	MP36537

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix	SO	Batch ID:	MP36554

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44682-2MS, J44682-2MSD, J44682-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Copper, Iron, Magnesium, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Potassium are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Copper are outside control limits for sample MP36554-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Arsenic, Sodium, Thallium are outside control limits for sample MP36554-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP36554-SD1 for Calcium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix	AQ	Batch ID:	MP36583

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44681-1MS, J44681-1MSD were used as the QC samples for metals.

Metals By Method SW846 7471A

Matrix	SO	Batch ID:	MP36593

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44121-4MS, J44121-4MSD were used as the QC samples for metals.

Wet Chemistry By Method ASTM 4643-00

Matrix	SO	Batch ID:	GN96740

- The data for ASTM 4643-00 meets quality control requirements.

Wet Chemistry By Method EPA 160.3 M

Matrix	SO	Batch ID:	GN96747

- The data for EPA 160.3 M meets quality control requirements.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J44121).

Summary of Hits

Job Number: J44121
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/17/06 thru 10/18/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44121-1	**TL12-11.75-18**					
Methyl Acetate		321 J	1000	280	ug/kg	SW846 8260B
Acenaphthene		96.5 J	140	36	ug/kg	SW846 8270C
Anthracene		79.6 J	140	28	ug/kg	SW846 8270C
Benzo(a)anthracene		82.8 J	140	34	ug/kg	SW846 8270C
Benzo(a)pyrene		55.2 J	140	25	ug/kg	SW846 8270C
Benzo(b)fluoranthene		40.8 J	140	32	ug/kg	SW846 8270C
Chrysene		72.7 J	140	26	ug/kg	SW846 8270C
Dibenzofuran		76.1 J	140	33	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		147	140	91	ug/kg	SW846 8270C
Fluoranthene		276	140	25	ug/kg	SW846 8270C
Fluorene		104 J	140	29	ug/kg	SW846 8270C
2-Methylnaphthalene		65.1 J	140	46	ug/kg	SW846 8270C
Naphthalene		215	140	40	ug/kg	SW846 8270C
Phenanthrene		402	140	31	ug/kg	SW846 8270C
Pyrene		209	140	25	ug/kg	SW846 8270C
J44121-2	**TL12.5-12.25-20**					
Acenaphthene		357	97	25	ug/kg	SW846 8270C
Acenaphthylene		26.7 J	97	20	ug/kg	SW846 8270C
Anthracene		84.5 J	97	19	ug/kg	SW846 8270C
Benzo(a)anthracene		473	97	23	ug/kg	SW846 8270C
Benzo(a)pyrene		392	97	17	ug/kg	SW846 8270C
Benzo(b)fluoranthene		373	97	22	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		221	97	27	ug/kg	SW846 8270C
Benzo(k)fluoranthene		278	97	37	ug/kg	SW846 8270C
Chrysene		543	97	18	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		53.3 J	97	25	ug/kg	SW846 8270C
Dibenzofuran		30.8 J	97	23	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		65.1 J	97	62	ug/kg	SW846 8270C
Fluoranthene		653	97	17	ug/kg	SW846 8270C
Fluorene		83.7 J	97	19	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		137	97	31	ug/kg	SW846 8270C
Naphthalene		80.6 J	97	27	ug/kg	SW846 8270C
Phenanthrene		185	97	21	ug/kg	SW846 8270C
Pyrene		714	97	17	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		24760 J			ug/kg	
J44121-3	**SB-23-1.0**					

No hits reported in this sample.

Summary of Hits

Job Number: J44121
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/17/06 thru 10/18/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44121-4	**SB-23-3.0**					
Benzene		2750	1300	630	ug/kg	SW846 8260B
Ethylbenzene		2420	1300	590	ug/kg	SW846 8260B
Toluene		1130 J	1300	710	ug/kg	SW846 8260B
m,p-Xylene		2630	2600	1100	ug/kg	SW846 8260B
o-Xylene		1060 J	1300	650	ug/kg	SW846 8260B
Xylene (total)		3700	2600	650	ug/kg	SW846 8260B
Total TIC, Volatile		115000 J			ug/kg	
2,4-Dimethylphenol		6490	2400	1200	ug/kg	SW846 8270C
2-Methylphenol		2080 J	2400	470	ug/kg	SW846 8270C
3&4-Methylphenol		6310	2400	690	ug/kg	SW846 8270C
Acenaphthene		345000	48000	12000	ug/kg	SW846 8270C
Acenaphthylene		12800	960	200	ug/kg	SW846 8270C
Anthracene		516000	48000	9300	ug/kg	SW846 8270C
Benzo(a)anthracene		507000	48000	12000	ug/kg	SW846 8270C
Benzo(a)pyrene		455000	48000	8400	ug/kg	SW846 8270C
Benzo(b)fluoranthene		332000	48000	11000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		178000	48000	13000	ug/kg	SW846 8270C
Benzo(k)fluoranthene		347000	48000	18000	ug/kg	SW846 8270C
1,1'-Biphenyl		43900	960	230	ug/kg	SW846 8270C
Carbazole		205000	48000	9700	ug/kg	SW846 8270C
Chrysene		474000	48000	8900	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		66700	48000	13000	ug/kg	SW846 8270C
Dibenzofuran		279000	48000	11000	ug/kg	SW846 8270C
Fluoranthene		1210000	48000	8500	ug/kg	SW846 8270C
Fluorene		338000	48000	9700	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		203000	48000	15000	ug/kg	SW846 8270C
2-Methylnaphthalene		136000	48000	16000	ug/kg	SW846 8270C
Naphthalene		396000	48000	14000	ug/kg	SW846 8270C
Phenanthrene		1460000	48000	11000	ug/kg	SW846 8270C
Pyrene		1050000	48000	8300	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		393800 J			ug/kg	
Aluminum		7010	29	6.9	mg/kg	SW846 6010B
Arsenic		27.1	2.9	1.1	mg/kg	SW846 6010B
Barium		123	29	0.43	mg/kg	SW846 6010B
Beryllium		0.36 B	0.72	0.029	mg/kg	SW846 6010B
Calcium		6290	720	13	mg/kg	SW846 6010B
Chromium		35.8	1.4	0.64	mg/kg	SW846 6010B
Cobalt		7.4	7.2	0.26	mg/kg	SW846 6010B
Copper		96.4	3.6	0.33	mg/kg	SW846 6010B
Iron		17100	14	11	mg/kg	SW846 6010B
Lead		181	2.9	0.46	mg/kg	SW846 6010B
Magnesium		2280	720	2.5	mg/kg	SW846 6010B
Manganese		141	2.2	0.087	mg/kg	SW846 6010B

Summary of Hits

Job Number: J44121
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/17/06 thru 10/18/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Mercury		0.65	0.044	0.014	mg/kg	SW846 7471A
Nickel		17.4	5.8	0.46	mg/kg	SW846 6010B
Potassium		957	720	13	mg/kg	SW846 6010B
Selenium		3.2	2.9	1.1	mg/kg	SW846 6010B
Sodium		599 B	1400	49	mg/kg	SW846 6010B
Vanadium		23.4	7.2	0.33	mg/kg	SW846 6010B
Zinc		120	2.9	0.42	mg/kg	SW846 6010B
J44121-5	**SB-23-11**					
Benzene		3740 J	5400	2600	ug/kg	SW846 8260B
Ethylbenzene		9640	5400	2400	ug/kg	SW846 8260B
Toluene		4810 J	5400	3000	ug/kg	SW846 8260B
m,p-Xylene		5920 J	11000	4800	ug/kg	SW846 8260B
Xylene (total)		7770 J	11000	2700	ug/kg	SW846 8260B
Total TIC, Volatile		4645000 J			ug/kg	
2,4-Dimethylphenol		14300	6500	3300	ug/kg	SW846 8270C
2-Methylphenol		3020 J	6500	1300	ug/kg	SW846 8270C
3&4-Methylphenol		8630	6500	1900	ug/kg	SW846 8270C
Acenaphthene		360000	52000	13000	ug/kg	SW846 8270C
Acenaphthylene		3520	2600	530	ug/kg	SW846 8270C
Anthracene		426000	52000	10000	ug/kg	SW846 8270C
Benzo(a)anthracene		374000	52000	13000	ug/kg	SW846 8270C
Benzo(a)pyrene		308000	52000	9000	ug/kg	SW846 8270C
Benzo(b)fluoranthene		247000	52000	12000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		156000	52000	14000	ug/kg	SW846 8270C
Benzo(k)fluoranthene		212000	52000	20000	ug/kg	SW846 8270C
1,1'-Biphenyl		72700	2600	630	ug/kg	SW846 8270C
Carbazole		164000	52000	10000	ug/kg	SW846 8270C
Chrysene		335000	52000	9600	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		44600	2600	680	ug/kg	SW846 8270C
Dibenzofuran		375000	52000	12000	ug/kg	SW846 8270C
Fluoranthene		977000	52000	9200	ug/kg	SW846 8270C
Fluorene		370000	52000	10000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		116000	2600	820	ug/kg	SW846 8270C
2-Methylnaphthalene		408000	52000	17000	ug/kg	SW846 8270C
Naphthalene		2560000	52000	15000	ug/kg	SW846 8270C
Phenanthrene		1370000	52000	11000	ug/kg	SW846 8270C
Pyrene		824000	52000	9000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		7370000 J			ug/kg	
Aluminum		2210	26	6.3	mg/kg	SW846 6010B
Arsenic		20.4	2.6	1.0	mg/kg	SW846 6010B
Barium		150	26	0.39	mg/kg	SW846 6010B
Beryllium		0.14 B	0.66	0.026	mg/kg	SW846 6010B
Calcium		2150	660	12	mg/kg	SW846 6010B

Summary of Hits

Job Number: J44121
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/17/06 thru 10/18/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chromium		13.5	1.3	0.58	mg/kg	SW846 6010B
Cobalt		3.7 B	6.6	0.24	mg/kg	SW846 6010B
Copper		28.7	3.3	0.30	mg/kg	SW846 6010B
Iron		8530	13	9.9	mg/kg	SW846 6010B
Lead		35.5	2.6	0.42	mg/kg	SW846 6010B
Magnesium		782	660	2.3	mg/kg	SW846 6010B
Manganese		60.6	2.0	0.079	mg/kg	SW846 6010B
Mercury		0.15	0.041	0.014	mg/kg	SW846 7471A
Nickel		9.5	5.2	0.42	mg/kg	SW846 6010B
Potassium		302 B	660	12	mg/kg	SW846 6010B
Selenium		2.1 B	2.6	1.0	mg/kg	SW846 6010B
Sodium		336 B	1300	44	mg/kg	SW846 6010B
Vanadium		9.8	6.6	0.30	mg/kg	SW846 6010B
Zinc		41.0	2.6	0.38	mg/kg	SW846 6010B
J44121-6	**DUP-101806**					
Benzene		2330 J	4000	1900	ug/kg	SW846 8260B
Ethylbenzene		6210	4000	1800	ug/kg	SW846 8260B
Xylene (total)		4650 J	8000	2000	ug/kg	SW846 8260B
Total TIC, Volatile		1800000 J			ug/kg	
2,4-Dimethylphenol		5570 J	5600	2900	ug/kg	SW846 8270C
2-Methylphenol		1720 J	5600	1100	ug/kg	SW846 8270C
3&4-Methylphenol		4820 J	5600	1600	ug/kg	SW846 8270C
Acenaphthene		247000	22000	5700	ug/kg	SW846 8270C
Acenaphthylene		2040 J	2200	450	ug/kg	SW846 8270C
Anthracene		301000	22000	4300	ug/kg	SW846 8270C
Benzo(a)anthracene		293000	22000	5400	ug/kg	SW846 8270C
Benzo(a)pyrene		243000	22000	3900	ug/kg	SW846 8270C
Benzo(b)fluoranthene		192000	22000	5100	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		78100	2200	610	ug/kg	SW846 8270C
Benzo(k)fluoranthene		184000	22000	8400	ug/kg	SW846 8270C
1,1'-Biphenyl		34000	2200	540	ug/kg	SW846 8270C
Carbazole		88800	2200	450	ug/kg	SW846 8270C
Chrysene		269000	22000	4100	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		29700	2200	580	ug/kg	SW846 8270C
Dibenzofuran		229000	22000	5200	ug/kg	SW846 8270C
Fluoranthene		684000	22000	3900	ug/kg	SW846 8270C
Fluorene		249000	22000	4500	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		80400	2200	710	ug/kg	SW846 8270C
2-Methylnaphthalene		213000	22000	7300	ug/kg	SW846 8270C
Naphthalene		1320000	45000	13000	ug/kg	SW846 8270C
Phenanthrene		879000	22000	4900	ug/kg	SW846 8270C
Pyrene		599000	22000	3800	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		4907000 J			ug/kg	

Summary of Hits

Job Number: J44121
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/17/06 thru 10/18/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Aluminum		1950	24	5.7	mg/kg	SW846 6010B
Arsenic		15.8	2.4	0.91	mg/kg	SW846 6010B
Barium		23.0 B	24	0.36	mg/kg	SW846 6010B
Beryllium		0.60	0.60	0.024	mg/kg	SW846 6010B
Calcium		2120	600	11	mg/kg	SW846 6010B
Chromium		10	1.2	0.52	mg/kg	SW846 6010B
Cobalt		2.7 B	6.0	0.21	mg/kg	SW846 6010B
Copper		23.7	3.0	0.27	mg/kg	SW846 6010B
Iron		7240	12	9.0	mg/kg	SW846 6010B
Lead		24.3	2.4	0.38	mg/kg	SW846 6010B
Magnesium		680	600	2.1	mg/kg	SW846 6010B
Manganese		55.1	1.8	0.071	mg/kg	SW846 6010B
Mercury		0.78	0.037	0.012	mg/kg	SW846 7471A
Nickel		7.5	4.8	0.38	mg/kg	SW846 6010B
Potassium		236 B	600	11	mg/kg	SW846 6010B
Selenium		1.1 B	2.4	0.94	mg/kg	SW846 6010B
Sodium		274 B	1200	40	mg/kg	SW846 6010B
Vanadium		8.8	6.0	0.27	mg/kg	SW846 6010B
Zinc		34.9	2.4	0.35	mg/kg	SW846 6010B
J44121-7	**TL19-0.5-29**					
Acenaphthene		480	160	41	ug/kg	SW846 8270C
Acenaphthylene		191	160	33	ug/kg	SW846 8270C
Anthracene		723	160	31	ug/kg	SW846 8270C
Benzo(a)anthracene		3620	160	39	ug/kg	SW846 8270C
Benzo(a)pyrene		2280	160	28	ug/kg	SW846 8270C
Benzo(b)fluoranthene		2130	160	37	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		498	160	44	ug/kg	SW846 8270C
Benzo(k)fluoranthene		2060	160	61	ug/kg	SW846 8270C
Carbazole		47.4 J	160	33	ug/kg	SW846 8270C
Chrysene		3400	160	30	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		229	160	42	ug/kg	SW846 8270C
Dibenzofuran		174	160	37	ug/kg	SW846 8270C
Fluoranthene		14800	320	57	ug/kg	SW846 8270C
Fluorene		88.6 J	160	32	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		615	160	51	ug/kg	SW846 8270C
Naphthalene		233	160	45	ug/kg	SW846 8270C
Phenanthrene		404	160	35	ug/kg	SW846 8270C
Pyrene		11900	320	56	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		35510 J			ug/kg	
J44121-8	**TL18.5-0.5-16**					
Benzene		854	120	58	ug/kg	SW846 8260B

Summary of Hits

Job Number: J44121
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/17/06 thru 10/18/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Carbon disulfide		435 J	600	66	ug/kg	SW846 8260B
Ethylbenzene		2710	120	54	ug/kg	SW846 8260B
Isopropylbenzene		2230	600	56	ug/kg	SW846 8260B
Methyl Acetate		192 J	600	170	ug/kg	SW846 8260B
Methylcyclohexane		116 J	600	77	ug/kg	SW846 8260B
Toluene		757	120	65	ug/kg	SW846 8260B
m,p-Xylene		1070	240	110	ug/kg	SW846 8260B
o-Xylene		1060	120	59	ug/kg	SW846 8260B
Xylene (total)		2120	240	59	ug/kg	SW846 8260B
Total TIC, Volatile		101800 J			ug/kg	
Acenaphthene		3480000	140000	36000	ug/kg	SW846 8270C
Acenaphthylene		125000	2800	570	ug/kg	SW846 8270C
Anthracene		2660000	140000	27000	ug/kg	SW846 8270C
Benzo(a)anthracene		1980000	140000	34000	ug/kg	SW846 8270C
Benzo(a)pyrene		1110000	140000	24000	ug/kg	SW846 8270C
Benzo(b)fluoranthene		851000	140000	32000	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		376000	140000	38000	ug/kg	SW846 8270C
Benzo(k)fluoranthene		971000	140000	53000	ug/kg	SW846 8270C
1,1'-Biphenyl		571000	140000	34000	ug/kg	SW846 8270C
Carbazole		230000	140000	28000	ug/kg	SW846 8270C
Chrysene		1680000	140000	26000	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		160000	140000	37000	ug/kg	SW846 8270C
Dibenzofuran		2800000	140000	33000	ug/kg	SW846 8270C
Fluoranthene		5520000	140000	25000	ug/kg	SW846 8270C
Fluorene		4160000	140000	28000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		421000	140000	44000	ug/kg	SW846 8270C
2-Methylnaphthalene		3490000	140000	46000	ug/kg	SW846 8270C
Naphthalene		4120000	140000	39000	ug/kg	SW846 8270C
Phenanthrene		10700000	280000	61000	ug/kg	SW846 8270C
Pyrene		4680000	140000	24000	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		1024000 J			ug/kg	
Aroclor 1254		46400	1400	680	ug/kg	SW846 8082
J44121-9	**TL18.5-0.5-29.5**					
Benzene		7310	1400	660	ug/kg	SW846 8260B
Ethylbenzene		21600	1400	620	ug/kg	SW846 8260B
Isopropylbenzene		2690 J	6900	640	ug/kg	SW846 8260B
Toluene		13400	1400	750	ug/kg	SW846 8260B
m,p-Xylene		47500	2800	1200	ug/kg	SW846 8260B
o-Xylene		17000	1400	680	ug/kg	SW846 8260B
Xylene (total)		64400	2800	680	ug/kg	SW846 8260B
Total TIC, Volatile		856900 J			ug/kg	
2,4-Dimethylphenol		1430	290	150	ug/kg	SW846 8270C
3&4-Methylphenol		331	290	82	ug/kg	SW846 8270C

Summary of Hits

Job Number: J44121
Account: CH2M Hill
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ
Collected: 10/17/06 thru 10/18/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Acenaphthene		19600	2300	580	ug/kg	SW846 8270C
Acenaphthylene		412	110	23	ug/kg	SW846 8270C
Anthracene		9870	2300	440	ug/kg	SW846 8270C
Benzo(a)anthracene		3080	110	28	ug/kg	SW846 8270C
Benzo(a)pyrene		2430	110	20	ug/kg	SW846 8270C
Benzo(b)fluoranthene		2410	110	26	ug/kg	SW846 8270C
Benzo(g,h,i)perylene		646	110	31	ug/kg	SW846 8270C
Benzo(k)fluoranthene		1900	110	43	ug/kg	SW846 8270C
1,1'-Biphenyl		5590	110	28	ug/kg	SW846 8270C
Carbazole		2370	110	23	ug/kg	SW846 8270C
Chrysene		2790	110	21	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene		251	110	30	ug/kg	SW846 8270C
Dibenzofuran		17400	2300	530	ug/kg	SW846 8270C
Fluoranthene		13500	2300	400	ug/kg	SW846 8270C
Fluorene		15900	2300	460	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		712	110	36	ug/kg	SW846 8270C
2-Methylnaphthalene		28400	2300	740	ug/kg	SW846 8270C
Naphthalene		129000	4600	1300	ug/kg	SW846 8270C
Phenanthrene		36500	2300	500	ug/kg	SW846 8270C
Pyrene		10700	2300	390	ug/kg	SW846 8270C
Total TIC, Semi-Volatile		89200 J			ug/kg	
J44121-10	**TL18.5-1.5-24.5**					
Methyl Acetate		272 J	640	180	ug/kg	SW846 8260B
Anthracene		27.4 J	110	21	ug/kg	SW846 8270C
Benzo(a)anthracene		57.8 J	110	26	ug/kg	SW846 8270C
Benzo(a)pyrene		44.5 J	110	19	ug/kg	SW846 8270C
Benzo(b)fluoranthene		27.8 J	110	25	ug/kg	SW846 8270C
Chrysene		51.5 J	110	20	ug/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		163	110	70	ug/kg	SW846 8270C
Fluoranthene		90.9 J	110	19	ug/kg	SW846 8270C
Naphthalene		51.8 J	110	31	ug/kg	SW846 8270C
Phenanthrene		66.7 J	110	24	ug/kg	SW846 8270C
Pyrene		87.8 J	110	19	ug/kg	SW846 8270C
Chromium		26.2	1.6	0.73	mg/kg	SW846 6010B
J44121-11	**TB-101806**					
No hits reported in this sample.						
J44121-12	**EB-101806**					
Aluminum		24.8 B	200	23	ug/l	SW846 6010B
Silver		1.5 B	10	1.0	ug/l	SW846 6010B

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TL12-11.75-18		
Lab Sample ID:	J44121-1	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	46.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119066.D	1	10/27/06	YL	10/19/06 11:00	n/a	VD4748
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.7 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2000	580	ug/kg	
71-43-2	Benzene	ND	200	97	ug/kg	
75-27-4	Bromodichloromethane	ND	1000	92	ug/kg	
75-25-2	Bromoform	ND	1000	88	ug/kg	
74-83-9	Bromomethane	ND	1000	74	ug/kg	
78-93-3	2-Butanone (MEK)	ND	2000	550	ug/kg	
75-15-0	Carbon disulfide	ND	1000	110	ug/kg	
56-23-5	Carbon tetrachloride	ND	1000	190	ug/kg	
108-90-7	Chlorobenzene	ND	1000	87	ug/kg	
75-00-3	Chloroethane	ND	1000	350	ug/kg	
67-66-3	Chloroform	ND	1000	120	ug/kg	
74-87-3	Chloromethane	ND	1000	93	ug/kg	
110-82-7	Cyclohexane	ND	1000	260	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2000	430	ug/kg	
124-48-1	Dibromochloromethane	ND	1000	110	ug/kg	
106-93-4	1,2-Dibromoethane	ND	200	110	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1000	92	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1000	98	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1000	93	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	1000	160	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1000	97	ug/kg	
107-06-2	1,2-Dichloroethane	ND	200	110	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1000	140	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1000	140	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1000	140	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1000	110	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	84	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	79	ug/kg	
100-41-4	Ethylbenzene	ND	200	91	ug/kg	
76-13-1	Freon 113	ND	1000	170	ug/kg	
591-78-6	2-Hexanone	ND	1000	270	ug/kg	
98-82-8	Isopropylbenzene	ND	1000	94	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-11.75-18
Lab Sample ID: J44121-1
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/18/06
Percent Solids: 46.7

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	321	1000	280	ug/kg	J
108-87-2	Methylcyclohexane	ND	1000	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	200	110	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1000	400	ug/kg	
75-09-2	Methylene chloride	ND	1000	140	ug/kg	
100-42-5	Styrene	ND	1000	66	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	120	ug/kg	
127-18-4	Tetrachloroethene	ND	1000	170	ug/kg	
108-88-3	Toluene	ND	200	110	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1000	71	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1000	120	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1000	110	ug/kg	
79-01-6	Trichloroethene	ND	1000	100	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1000	150	ug/kg	
75-01-4	Vinyl chloride	ND	1000	130	ug/kg	
	m,p-Xylene	ND	400	180	ug/kg	
95-47-6	o-Xylene	ND	200	99	ug/kg	
1330-20-7	Xylene (total)	ND	400	99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	114%		61-133%
2037-26-5	Toluene-D8	97%		75-123%
460-00-4	4-Bromofluorobenzene	98%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-11.75-18
Lab Sample ID: J44121-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/18/06
Percent Solids: 46.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55858.D	1	11/01/06	OYA	10/23/06	OP25218	ER1970
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	360	61	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	90	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	120	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	360	180	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1400	110	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1400	62	ug/kg	
95-48-7	2-Methylphenol	ND	360	70	ug/kg	
	3&4-Methylphenol	ND	360	100	ug/kg	
88-75-5	2-Nitrophenol	ND	360	88	ug/kg	
100-02-7	4-Nitrophenol	ND	1400	97	ug/kg	
87-86-5	Pentachlorophenol	ND	1400	80	ug/kg	
108-95-2	Phenol	ND	360	88	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	110	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	60	ug/kg	
83-32-9	Acenaphthene	96.5	140	36	ug/kg	J
208-96-8	Acenaphthylene	ND	140	29	ug/kg	
98-86-2	Acetophenone	ND	360	45	ug/kg	
120-12-7	Anthracene	79.6	140	28	ug/kg	J
1912-24-9	Atrazine	ND	360	61	ug/kg	
56-55-3	Benzo(a)anthracene	82.8	140	34	ug/kg	J
50-32-8	Benzo(a)pyrene	55.2	140	25	ug/kg	J
205-99-2	Benzo(b)fluoranthene	40.8	140	32	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	140	39	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	140	54	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	140	36	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	140	54	ug/kg	
92-52-4	1,1'-Biphenyl	ND	140	34	ug/kg	
100-52-7	Benzaldehyde	ND	360	78	ug/kg	
91-58-7	2-Chloronaphthalene	ND	140	100	ug/kg	
106-47-8	4-Chloroaniline	ND	360	44	ug/kg	
86-74-8	Carbazole	ND	140	29	ug/kg	
105-60-2	Caprolactam	ND	140	69	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12-11.75-18
Lab Sample ID: J44121-1
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/17/06
Date Received: 10/18/06
Percent Solids: 46.7

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	72.7	140	26	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	140	46	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	140	35	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	140	53	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	140	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	140	83	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	140	81	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	360	68	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	140	37	ug/kg	
132-64-9	Dibenzofuran	76.1	140	33	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	140	45	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	140	61	ug/kg	
84-66-2	Diethyl phthalate	ND	140	30	ug/kg	
131-11-3	Dimethyl phthalate	ND	140	31	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	147	140	91	ug/kg	
206-44-0	Fluoranthene	276	140	25	ug/kg	
86-73-7	Fluorene	104	140	29	ug/kg	J
118-74-1	Hexachlorobenzene	ND	140	41	ug/kg	
87-68-3	Hexachlorobutadiene	ND	140	47	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1400	51	ug/kg	
67-72-1	Hexachloroethane	ND	360	36	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	140	45	ug/kg	
78-59-1	Isophorone	ND	140	35	ug/kg	
91-57-6	2-Methylnaphthalene	65.1	140	46	ug/kg	J
88-74-4	2-Nitroaniline	ND	360	45	ug/kg	
99-09-2	3-Nitroaniline	ND	360	55	ug/kg	
100-01-6	4-Nitroaniline	ND	360	49	ug/kg	
91-20-3	Naphthalene	215	140	40	ug/kg	
98-95-3	Nitrobenzene	ND	140	50	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	140	46	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	29	ug/kg	
85-01-8	Phenanthrene	402	140	31	ug/kg	
129-00-0	Pyrene	209	140	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		33-105%
4165-62-2	Phenol-d5	58%		34-110%
118-79-6	2,4,6-Tribromophenol	60%		33-124%
4165-60-0	Nitrobenzene-d5	57%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12-11.75-18		
Lab Sample ID:	J44121-1	**Date Sampled:**	10/17/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	46.7
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	72%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	5.35	120000	ug/kg	J
	system artifact/aldol-condensation	6.50	410	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL12.5-12.25-20		
Lab Sample ID:	J44121-2	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	68.2
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119067.D	1	10/27/06	YL	10/19/06 11:00	n/a	VD4748
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.5 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1000	300	ug/kg	
71-43-2	Benzene	ND	100	50	ug/kg	
75-27-4	Bromodichloromethane	ND	520	48	ug/kg	
75-25-2	Bromoform	ND	520	45	ug/kg	
74-83-9	Bromomethane	ND	520	39	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1000	290	ug/kg	
75-15-0	Carbon disulfide	ND	520	58	ug/kg	
56-23-5	Carbon tetrachloride	ND	520	99	ug/kg	
108-90-7	Chlorobenzene	ND	520	45	ug/kg	
75-00-3	Chloroethane	ND	520	180	ug/kg	
67-66-3	Chloroform	ND	520	61	ug/kg	
74-87-3	Chloromethane	ND	520	48	ug/kg	
110-82-7	Cyclohexane	ND	520	130	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1000	230	ug/kg	
124-48-1	Dibromochloromethane	ND	520	58	ug/kg	
106-93-4	1,2-Dibromoethane	ND	100	59	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	520	48	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	520	51	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	520	48	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	520	83	ug/kg	
75-34-3	1,1-Dichloroethane	ND	520	50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	100	57	ug/kg	
75-35-4	1,1-Dichloroethene	ND	520	72	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	520	70	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	520	72	ug/kg	
78-87-5	1,2-Dichloropropane	ND	520	58	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	520	43	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	520	41	ug/kg	
100-41-4	Ethylbenzene	ND	100	47	ug/kg	
76-13-1	Freon 113	ND	520	90	ug/kg	
591-78-6	2-Hexanone	ND	520	140	ug/kg	
98-82-8	Isopropylbenzene	ND	520	49	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12.5-12.25-20
Lab Sample ID: J44121-2
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 68.2

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	520	150	ug/kg	
108-87-2	Methylcyclohexane	ND	520	67	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	100	59	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	520	210	ug/kg	
75-09-2	Methylene chloride	ND	520	72	ug/kg	
100-42-5	Styrene	ND	520	34	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	520	60	ug/kg	
127-18-4	Tetrachloroethene	ND	520	86	ug/kg	
108-88-3	Toluene	ND	100	57	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	520	37	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	520	62	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	520	56	ug/kg	
79-01-6	Trichloroethene	ND	520	54	ug/kg	
75-69-4	Trichlorofluoromethane	ND	520	76	ug/kg	
75-01-4	Vinyl chloride	ND	520	68	ug/kg	
	m,p-Xylene	ND	210	92	ug/kg	
95-47-6	o-Xylene	ND	100	52	ug/kg	
1330-20-7	Xylene (total)	ND	210	52	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-120%
17060-07-0	1,2-Dichloroethane-D4	115%		61-133%
2037-26-5	Toluene-D8	97%		75-123%
460-00-4	4-Bromofluorobenzene	98%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12.5-12.25-20
Lab Sample ID: J44121-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 68.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55883.D	1	11/02/06	OYA	10/23/06	OP25218	ER1971
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	240	42	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	240	62	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	240	81	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	240	120	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	970	74	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	970	42	ug/kg	
95-48-7	2-Methylphenol	ND	240	48	ug/kg	
	3&4-Methylphenol	ND	240	69	ug/kg	
88-75-5	2-Nitrophenol	ND	240	60	ug/kg	
100-02-7	4-Nitrophenol	ND	970	66	ug/kg	
87-86-5	Pentachlorophenol	ND	970	54	ug/kg	
108-95-2	Phenol	ND	240	60	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	240	73	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	240	41	ug/kg	
83-32-9	Acenaphthene	357	97	25	ug/kg	
208-96-8	Acenaphthylene	26.7	97	20	ug/kg	J
98-86-2	Acetophenone	ND	240	31	ug/kg	
120-12-7	Anthracene	84.5	97	19	ug/kg	J
1912-24-9	Atrazine	ND	240	42	ug/kg	
56-55-3	Benzo(a)anthracene	473	97	23	ug/kg	
50-32-8	Benzo(a)pyrene	392	97	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	373	97	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	221	97	27	ug/kg	
207-08-9	Benzo(k)fluoranthene	278	97	37	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	97	25	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	97	37	ug/kg	
92-52-4	1,1'-Biphenyl	ND	97	23	ug/kg	
100-52-7	Benzaldehyde	ND	240	53	ug/kg	
91-58-7	2-Chloronaphthalene	ND	97	68	ug/kg	
106-47-8	4-Chloroaniline	ND	240	30	ug/kg	
86-74-8	Carbazole	ND	97	20	ug/kg	
105-60-2	Caprolactam	ND	97	47	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12.5-12.25-20
Lab Sample ID: J44121-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 68.2

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	543	97	18	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	97	31	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	97	24	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	97	36	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	97	23	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	97	56	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	97	55	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	240	46	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	53.3	97	25	ug/kg	J
132-64-9	Dibenzofuran	30.8	97	23	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	97	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	97	42	ug/kg	
84-66-2	Diethyl phthalate	ND	97	21	ug/kg	
131-11-3	Dimethyl phthalate	ND	97	21	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	65.1	97	62	ug/kg	J
206-44-0	Fluoranthene	653	97	17	ug/kg	
86-73-7	Fluorene	83.7	97	19	ug/kg	J
118-74-1	Hexachlorobenzene	ND	97	28	ug/kg	
87-68-3	Hexachlorobutadiene	ND	97	32	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	970	35	ug/kg	
67-72-1	Hexachloroethane	ND	240	24	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	137	97	31	ug/kg	
78-59-1	Isophorone	ND	97	24	ug/kg	
91-57-6	2-Methylnaphthalene	ND	97	32	ug/kg	
88-74-4	2-Nitroaniline	ND	240	31	ug/kg	
99-09-2	3-Nitroaniline	ND	240	38	ug/kg	
100-01-6	4-Nitroaniline	ND	240	34	ug/kg	
91-20-3	Naphthalene	80.6	97	27	ug/kg	J
98-95-3	Nitrobenzene	ND	97	34	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	97	31	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	20	ug/kg	
85-01-8	Phenanthrene	185	97	21	ug/kg	
129-00-0	Pyrene	714	97	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		33-105%
4165-62-2	Phenol-d5	67%		34-110%
118-79-6	2,4,6-Tribromophenol	63%		33-124%
4165-60-0	Nitrobenzene-d5	60%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL12.5-12.25-20
Lab Sample ID: J44121-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 68.2

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	83%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	4.25	280	ug/kg	J
	system artifact/aldol-condensation	5.31	84000	ug/kg	J
	system artifact/aldol-condensation	6.49	320	ug/kg	J
	unknown	20.80	490	ug/kg	J
10544-50-0	Sulfur (S8)	21.75	330	ug/kg	J
	unknown PAH substance	22.76	680	ug/kg	J
	unknown PAH substance	22.92	270	ug/kg	J
	unknown PAH substance	23.76	7200	ug/kg	J
	alkane	24.07	700	ug/kg	J
	alkane	24.58	1900	ug/kg	J
	unknown PAH substance	24.76	620	ug/kg	J
	unknown PAH substance	24.82	920	ug/kg	J
	alkane	25.07	11000	ug/kg	J
	unknown PAH substance	26.17	280	ug/kg	J
	unknown	27.19	370	ug/kg	J
	Total TIC, Semi-Volatile		24760	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-23-1.0
Lab Sample ID: J44121-3
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 67.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14176.D	1	11/01/06	JSE	10/23/06	OP25217	G2G579
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	49	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	49	29	ug/kg	
11141-16-5	Aroclor 1232	ND	49	27	ug/kg	
53469-21-9	Aroclor 1242	ND	49	16	ug/kg	
12672-29-6	Aroclor 1248	ND	49	17	ug/kg	
11097-69-1	Aroclor 1254	ND	49	23	ug/kg	
11096-82-5	Aroclor 1260	ND	49	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		37-140%
877-09-8	Tetrachloro-m-xylene	70%		37-140%
2051-24-3	Decachlorobiphenyl	87%		40-151%
2051-24-3	Decachlorobiphenyl	103%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-23-3.0		
Lab Sample ID:	J44121-4	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	68.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119168.D	1	10/30/06	YL	10/19/06 11:00	n/a	VD4752
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.4 g	5.0 ml	10.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13000	3700	ug/kg	
71-43-2	Benzene	2750	1300	630	ug/kg	
75-27-4	Bromodichloromethane	ND	6500	600	ug/kg	
75-25-2	Bromoform	ND	6500	570	ug/kg	
74-83-9	Bromomethane	ND	6500	480	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13000	3600	ug/kg	
75-15-0	Carbon disulfide	ND	6500	720	ug/kg	
56-23-5	Carbon tetrachloride	ND	6500	1200	ug/kg	
108-90-7	Chlorobenzene	ND	6500	570	ug/kg	
75-00-3	Chloroethane	ND	6500	2300	ug/kg	
67-66-3	Chloroform	ND	6500	760	ug/kg	
74-87-3	Chloromethane	ND	6500	600	ug/kg	
110-82-7	Cyclohexane	ND	6500	1700	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13000	2800	ug/kg	
124-48-1	Dibromochloromethane	ND	6500	720	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1300	740	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6500	600	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6500	640	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6500	600	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6500	1000	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6500	630	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1300	710	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6500	900	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6500	880	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6500	890	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6500	720	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6500	540	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6500	510	ug/kg	
100-41-4	Ethylbenzene	2420	1300	590	ug/kg	
76-13-1	Freon 113	ND	6500	1100	ug/kg	
591-78-6	2-Hexanone	ND	6500	1800	ug/kg	
98-82-8	Isopropylbenzene	ND	6500	610	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-23-3.0		
Lab Sample ID:	J44121-4	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	68.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	6500	1800	ug/kg	
108-87-2	Methylcyclohexane	ND	6500	840	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1300	730	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6500	2600	ug/kg	
75-09-2	Methylene chloride	ND	6500	900	ug/kg	
100-42-5	Styrene	ND	6500	430	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6500	750	ug/kg	
127-18-4	Tetrachloroethene	ND	6500	1100	ug/kg	
108-88-3	Toluene	1130	1300	710	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	6500	460	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6500	770	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6500	700	ug/kg	
79-01-6	Trichloroethene	ND	6500	680	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6500	950	ug/kg	
75-01-4	Vinyl chloride	ND	6500	850	ug/kg	
	m,p-Xylene	2630	2600	1100	ug/kg	
95-47-6	o-Xylene	1060	1300	650	ug/kg	J
1330-20-7	Xylene (total)	3700	2600	650	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-120%
17060-07-0	1,2-Dichloroethane-D4	110%		61-133%
2037-26-5	Toluene-D8	97%		75-123%
460-00-4	4-Bromofluorobenzene	96%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	17.16	23000	ug/kg	JN
91-20-3	Naphthalene	19.42	92000	ug/kg	JN
	Total TIC, Volatile		115000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-23-3.0		
Lab Sample ID:	J44121-4	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	68.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55860.D	1	11/01/06	OYA	10/23/06	OP25218	ER1970
Run #2	R55871.D	50	11/02/06	OYA	10/23/06	OP25218	ER1971

	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2	30.4 g	10.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	2400	410	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2400	610	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2400	800	ug/kg	
105-67-9	2,4-Dimethylphenol	6490	2400	1200	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	9600	730	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	9600	420	ug/kg	
95-48-7	2-Methylphenol	2080	2400	470	ug/kg	J
	3&4-Methylphenol	6310	2400	690	ug/kg	
88-75-5	2-Nitrophenol	ND	2400	600	ug/kg	
100-02-7	4-Nitrophenol	ND	9600	660	ug/kg	
87-86-5	Pentachlorophenol	ND	9600	540	ug/kg	
108-95-2	Phenol	ND	2400	600	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2400	720	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2400	400	ug/kg	
83-32-9	Acenaphthene	345000 [a]	48000	12000	ug/kg	
208-96-8	Acenaphthylene	12800	960	200	ug/kg	
98-86-2	Acetophenone	ND	2400	300	ug/kg	
120-12-7	Anthracene	516000 [a]	48000	9300	ug/kg	
1912-24-9	Atrazine	ND	2400	420	ug/kg	
56-55-3	Benzo(a)anthracene	507000 [a]	48000	12000	ug/kg	
50-32-8	Benzo(a)pyrene	455000 [a]	48000	8400	ug/kg	
205-99-2	Benzo(b)fluoranthene	332000 [a]	48000	11000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	178000 [a]	48000	13000	ug/kg	
207-08-9	Benzo(k)fluoranthene	347000 [a]	48000	18000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	960	240	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	960	360	ug/kg	
92-52-4	1,1'-Biphenyl	43900	960	230	ug/kg	
100-52-7	Benzaldehyde	ND	2400	530	ug/kg	
91-58-7	2-Chloronaphthalene	ND	960	670	ug/kg	
106-47-8	4-Chloroaniline	ND	2400	300	ug/kg	
86-74-8	Carbazole	205000 [a]	48000	9700	ug/kg	
105-60-2	Caprolactam	ND	960	460	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-23-3.0
Lab Sample ID: J44121-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 68.3

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	474000 [a]	48000	8900	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	960	310	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	960	240	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	960	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	960	230	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	960	560	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	960	550	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2400	460	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	66700 [a]	48000	13000	ug/kg	
132-64-9	Dibenzofuran	279000 [a]	48000	11000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	960	310	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	960	410	ug/kg	
84-66-2	Diethyl phthalate	ND	960	210	ug/kg	
131-11-3	Dimethyl phthalate	ND	960	210	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	960	620	ug/kg	
206-44-0	Fluoranthene	1210000 [a]	48000	8500	ug/kg	
86-73-7	Fluorene	338000 [a]	48000	9700	ug/kg	
118-74-1	Hexachlorobenzene	ND	960	280	ug/kg	
87-68-3	Hexachlorobutadiene	ND	960	320	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	9600	350	ug/kg	
67-72-1	Hexachloroethane	ND	2400	240	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	203000 [a]	48000	15000	ug/kg	
78-59-1	Isophorone	ND	960	240	ug/kg	
91-57-6	2-Methylnaphthalene	136000 [a]	48000	16000	ug/kg	
88-74-4	2-Nitroaniline	ND	2400	300	ug/kg	
99-09-2	3-Nitroaniline	ND	2400	370	ug/kg	
100-01-6	4-Nitroaniline	ND	2400	330	ug/kg	
91-20-3	Naphthalene	396000 [a]	48000	14000	ug/kg	
98-95-3	Nitrobenzene	ND	960	340	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	960	310	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	2400	200	ug/kg	
85-01-8	Phenanthrene	1460000 [a]	48000	11000	ug/kg	
129-00-0	Pyrene	1050000 [a]	48000	8300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%	0% [b]	33-105%
4165-62-2	Phenol-d5	79%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	73%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	93%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-23-3.0		
Lab Sample ID:	J44121-4	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	68.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	96%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	386% [c]	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	5.07	150000	ug/kg	J
	Indane	8.93	41000	ug/kg	J
90-12-0	Naphthalene,1-methyl-	14.16	8300	ug/kg	J
	Naphthalene dimethyl	15.69	6100	ug/kg	J
	Naphthalene dimethyl	15.92	8200	ug/kg	J
	Naphthalene trimethyl	17.74	3900	ug/kg	J
	unknown	18.11	3900	ug/kg	J
	Naphthalene, -(-propenyl)-	18.18	5200	ug/kg	J
	Dibenzothiophene	19.62	3600	ug/kg	J
	Anthracene, -methyl-	20.74	5300	ug/kg	J
	unknown PAH substance	22.55	3700	ug/kg	J
	unknown PAH substance	22.71	5500	ug/kg	J
	unknown PAH substance	22.85	4700	ug/kg	J
	unknown PAH substance	22.91	8200	ug/kg	J
	unknown PAH substance	23.01	11000	ug/kg	J
	unknown PAH substance	23.07	6300	ug/kg	J
	unknown	24.45	3900	ug/kg	J
	unknown	25.37	19000	ug/kg	J
	unknown PAH substance	25.99	49000	ug/kg	J
	unknown	26.12	22000	ug/kg	J
	unknown PAH substance	26.19	49000	ug/kg	J
	unknown PAH substance	26.23	92000	ug/kg	J
	unknown	26.61	17000	ug/kg	J
	unknown	27.04	17000	ug/kg	J
	Total TIC, Semi-Volatile		393800	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-23-3.0
Lab Sample ID: J44121-4
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 68.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14177.D	1	11/01/06	JSE	10/23/06	OP25217	G2G579
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	48	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	48	29	ug/kg	
11141-16-5	Aroclor 1232	ND	48	26	ug/kg	
53469-21-9	Aroclor 1242	ND	48	15	ug/kg	
12672-29-6	Aroclor 1248	ND	48	17	ug/kg	
11097-69-1	Aroclor 1254	ND	48	23	ug/kg	
11096-82-5	Aroclor 1260	ND	48	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		37-140%
877-09-8	Tetrachloro-m-xylene	70%		37-140%
2051-24-3	Decachlorobiphenyl	76%		40-151%
2051-24-3	Decachlorobiphenyl	68%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-23-3.0
Lab Sample ID: J44121-4
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 68.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7010	29	6.9	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Antimony	1.1 U	2.9	1.1	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	27.1	2.9	1.1	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Barium	123	29	0.43	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	0.36 B	0.72	0.029	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	0.14 U	0.72	0.14	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Calcium	6290	720	13	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	35.8	1.4	0.64	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cobalt	7.4	7.2	0.26	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	96.4	3.6	0.33	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Iron	17100	14	11	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	181	2.9	0.46	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Magnesium	2280	720	2.5	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Manganese	141	2.2	0.087	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	0.65	0.044	0.014	mg/kg	1	10/31/06	10/31/06	RP	SW846 7471A [2]	SW846 7471A [4]
Nickel	17.4	5.8	0.46	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Potassium	957	720	13	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	3.2	2.9	1.1	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	0.32 U	1.4	0.32	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Sodium	599 B	1400	49	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	1.2 U	1.4	1.2	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Vanadium	23.4	7.2	0.33	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	120	2.9	0.42	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA18284
(2) Instrument QC Batch: MA18293
(3) Prep QC Batch: MP36554
(4) Prep QC Batch: MP36593

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SB-23-11		
Lab Sample ID:	J44121-5	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119072.D	1	10/27/06	YL	10/19/06 11:00	n/a	VD4748
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.7 g	5.0 ml	2.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54000	16000	ug/kg	
71-43-2	Benzene	3740	5400	2600	ug/kg	J
75-27-4	Bromodichloromethane	ND	27000	2500	ug/kg	
75-25-2	Bromoform	ND	27000	2400	ug/kg	
74-83-9	Bromomethane	ND	27000	2000	ug/kg	
78-93-3	2-Butanone (MEK)	ND	54000	15000	ug/kg	
75-15-0	Carbon disulfide	ND	27000	3000	ug/kg	
56-23-5	Carbon tetrachloride	ND	27000	5200	ug/kg	
108-90-7	Chlorobenzene	ND	27000	2400	ug/kg	
75-00-3	Chloroethane	ND	27000	9500	ug/kg	
67-66-3	Chloroform	ND	27000	3200	ug/kg	
74-87-3	Chloromethane	ND	27000	2500	ug/kg	
110-82-7	Cyclohexane	ND	27000	7000	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	54000	12000	ug/kg	
124-48-1	Dibromochloromethane	ND	27000	3000	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5400	3100	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	27000	2500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	27000	2700	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	27000	2500	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	27000	4300	ug/kg	
75-34-3	1,1-Dichloroethane	ND	27000	2600	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5400	3000	ug/kg	
75-35-4	1,1-Dichloroethene	ND	27000	3700	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	27000	3700	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	27000	3700	ug/kg	
78-87-5	1,2-Dichloropropane	ND	27000	3000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	27000	2300	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	27000	2100	ug/kg	
100-41-4	Ethylbenzene	9640	5400	2400	ug/kg	
76-13-1	Freon 113	ND	27000	4700	ug/kg	
591-78-6	2-Hexanone	ND	27000	7400	ug/kg	
98-82-8	Isopropylbenzene	ND	27000	2500	ug/kg	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-23-11		
Lab Sample ID:	J44121-5	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	27000	7700	ug/kg	
108-87-2	Methylcyclohexane	ND	27000	3500	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5400	3000	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	27000	11000	ug/kg	
75-09-2	Methylene chloride	ND	27000	3800	ug/kg	
100-42-5	Styrene	ND	27000	1800	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	27000	3100	ug/kg	
127-18-4	Tetrachloroethene	ND	27000	4500	ug/kg	
108-88-3	Toluene	4810	5400	3000	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	27000	1900	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	27000	3200	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	27000	2900	ug/kg	
79-01-6	Trichloroethene	ND	27000	2800	ug/kg	
75-69-4	Trichlorofluoromethane	ND	27000	4000	ug/kg	
75-01-4	Vinyl chloride	ND	27000	3500	ug/kg	
	m,p-Xylene	5920	11000	4800	ug/kg	J
95-47-6	o-Xylene	ND	5400	2700	ug/kg	
1330-20-7	Xylene (total)	7770	11000	2700	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-120%
17060-07-0	1,2-Dichloroethane-D4	118%		61-133%
2037-26-5	Toluene-D8	96%		75-123%
460-00-4	4-Bromofluorobenzene	95%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	17.16	76000	ug/kg	JN
91-20-3	Naphthalene	19.42	4300000	ug/kg	JN
270-82-6	Benzo[c]thiophene	19.57	74000	ug/kg	JN
	Naphthalene methyl	20.78	130000	ug/kg	J
	Naphthalene methyl	21.05	65000	ug/kg	J
	Total TIC, Volatile		4645000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-23-11		
Lab Sample ID:	J44121-5	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55884.D	1	11/02/06	OYA	10/23/06	OP25218	ER1971
Run #2	R55891.D	20	11/03/06	OYA	10/23/06	OP25218	ER1972

	Initial Weight	Final Volume
Run #1	10.4 g	10.0 ml
Run #2	10.4 g	10.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6500	1100	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	6500	1700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	6500	2200	ug/kg	
105-67-9	2,4-Dimethylphenol	14300	6500	3300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	26000	2000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	26000	1100	ug/kg	
95-48-7	2-Methylphenol	3020	6500	1300	ug/kg	J
	3&4-Methylphenol	8630	6500	1900	ug/kg	
88-75-5	2-Nitrophenol	ND	6500	1600	ug/kg	
100-02-7	4-Nitrophenol	ND	26000	1800	ug/kg	
87-86-5	Pentachlorophenol	ND	26000	1500	ug/kg	
108-95-2	Phenol	ND	6500	1600	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	6500	1900	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	6500	1100	ug/kg	
83-32-9	Acenaphthene	360000 [a]	52000	13000	ug/kg	
208-96-8	Acenaphthylene	3520	2600	530	ug/kg	
98-86-2	Acetophenone	ND	6500	820	ug/kg	
120-12-7	Anthracene	426000 [a]	52000	10000	ug/kg	
1912-24-9	Atrazine	ND	6500	1100	ug/kg	
56-55-3	Benzo(a)anthracene	374000 [a]	52000	13000	ug/kg	
50-32-8	Benzo(a)pyrene	308000 [a]	52000	9000	ug/kg	
205-99-2	Benzo(b)fluoranthene	247000 [a]	52000	12000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	156000 [a]	52000	14000	ug/kg	
207-08-9	Benzo(k)fluoranthene	212000 [a]	52000	20000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	2600	660	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	2600	980	ug/kg	
92-52-4	1,1'-Biphenyl	72700	2600	630	ug/kg	
100-52-7	Benzaldehyde	ND	6500	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	2600	1800	ug/kg	
106-47-8	4-Chloroaniline	ND	6500	810	ug/kg	
86-74-8	Carbazole	164000 [a]	52000	10000	ug/kg	
105-60-2	Caprolactam	ND	2600	1300	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-23-11
Lab Sample ID: J44121-5
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 74.0

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	335000 [a]	52000	9600	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	2600	840	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	2600	650	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2600	970	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2600	610	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2600	1500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2600	1500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	6500	1200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	44600	2600	680	ug/kg	
132-64-9	Dibenzofuran	375000 [a]	52000	12000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2600	830	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	2600	1100	ug/kg	
84-66-2	Diethyl phthalate	ND	2600	560	ug/kg	
131-11-3	Dimethyl phthalate	ND	2600	560	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2600	1700	ug/kg	
206-44-0	Fluoranthene	977000 [a]	52000	9200	ug/kg	
86-73-7	Fluorene	370000 [a]	52000	10000	ug/kg	
118-74-1	Hexachlorobenzene	ND	2600	750	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2600	860	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	26000	930	ug/kg	
67-72-1	Hexachloroethane	ND	6500	650	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	116000	2600	820	ug/kg	
78-59-1	Isophorone	ND	2600	640	ug/kg	
91-57-6	2-Methylnaphthalene	408000 [a]	52000	17000	ug/kg	
88-74-4	2-Nitroaniline	ND	6500	820	ug/kg	
99-09-2	3-Nitroaniline	ND	6500	1000	ug/kg	
100-01-6	4-Nitroaniline	ND	6500	900	ug/kg	
91-20-3	Naphthalene	2560000 [a]	52000	15000	ug/kg	
98-95-3	Nitrobenzene	ND	2600	910	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	2600	830	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	6500	540	ug/kg	
85-01-8	Phenanthrene	1370000 [a]	52000	11000	ug/kg	
129-00-0	Pyrene	824000 [a]	52000	9000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%	0% [b]	33-105%
4165-62-2	Phenol-d5	73%	0% [b]	34-110%
118-79-6	2,4,6-Tribromophenol	56%	0% [b]	33-124%
4165-60-0	Nitrobenzene-d5	105%	0% [b]	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-23-11		
Lab Sample ID:	J44121-5	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.0
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	88%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	110%	0% [b]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	5.08	430000	ug/kg	J
	Naphthalene dimethyl	15.87	110000	ug/kg	J
	Dibenzofuran methyl	18.30	320000	ug/kg	J
	unknown PAH substance	18.83	140000	ug/kg	J
	unknown PAH substance	19.04	280000	ug/kg	J
	unknown PAH substance	19.10	150000	ug/kg	J
	unknown PAH substance	19.20	130000	ug/kg	J
	unknown	19.34	170000	ug/kg	J
	unknown	19.38	160000	ug/kg	J
	Dibenzothiophene	19.54	590000	ug/kg	J
	Naphthalene, -phenyl-	20.34	250000	ug/kg	J
	Dibenzothiophene, -methyl-	20.48	170000	ug/kg	J
	unknown PAH substance	20.66	570000	ug/kg	J
	unknown PAH substance	20.71	600000	ug/kg	J
	unknown PAH substance	20.78	420000	ug/kg	J
	unknown	20.86	940000	ug/kg	J
	unknown PAH substance	20.90	300000	ug/kg	J
	Methylcarbazole	21.02	180000	ug/kg	J
	Methylcarbazole	21.12	120000	ug/kg	J
	Naphthalene, -phenyl-	21.18	420000	ug/kg	J
	unknown PAH substance	21.30	160000	ug/kg	J
	unknown PAH substance	21.42	180000	ug/kg	J
	unknown PAH substance	21.49	140000	ug/kg	J
	unknown	21.57	280000	ug/kg	J
	unknown PAH substance	21.62	220000	ug/kg	J
	unknown	21.67	370000	ug/kg	J
	Total TIC, Semi-Volatile		7370000	ug/kg	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

Report of Analysis

Client Sample ID: SB-23-11
Lab Sample ID: J44121-5
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 74.0

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2210	26	6.3	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Antimony	1.0 U	2.6	1.0	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	20.4	2.6	1.0	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Barium	150	26	0.39	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	0.14 B	0.66	0.026	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	0.13 U	0.66	0.13	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Calcium	2150	660	12	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	13.5	1.3	0.58	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cobalt	3.7 B	6.6	0.24	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	28.7	3.3	0.30	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Iron	8530	13	9.9	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	35.5	2.6	0.42	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Magnesium	782	660	2.3	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Manganese	60.6	2.0	0.079	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	0.15	0.041	0.014	mg/kg	1	10/31/06	10/31/06	RP	SW846 7471A [2]	SW846 7471A [4]
Nickel	9.5	5.2	0.42	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Potassium	302 B	660	12	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	2.1 B	2.6	1.0	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	0.29 U	1.3	0.29	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Sodium	336 B	1300	44	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	1.1 U	1.3	1.1	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Vanadium	9.8	6.6	0.30	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	41.0	2.6	0.38	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA18284
(2) Instrument QC Batch: MA18293
(3) Prep QC Batch: MP36554
(4) Prep QC Batch: MP36593

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-101806		
Lab Sample ID:	J44121-6	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	83.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119073.D	1	10/27/06	YL	10/19/06 11:00	n/a	VD4748
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.3 g	5.0 ml	2.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40000	11000	ug/kg	
71-43-2	Benzene	2330	4000	1900	ug/kg	J
75-27-4	Bromodichloromethane	ND	20000	1800	ug/kg	
75-25-2	Bromoform	ND	20000	1700	ug/kg	
74-83-9	Bromomethane	ND	20000	1500	ug/kg	
78-93-3	2-Butanone (MEK)	ND	40000	11000	ug/kg	
75-15-0	Carbon disulfide	ND	20000	2200	ug/kg	
56-23-5	Carbon tetrachloride	ND	20000	3800	ug/kg	
108-90-7	Chlorobenzene	ND	20000	1700	ug/kg	
75-00-3	Chloroethane	ND	20000	7000	ug/kg	
67-66-3	Chloroform	ND	20000	2300	ug/kg	
74-87-3	Chloromethane	ND	20000	1800	ug/kg	
110-82-7	Cyclohexane	ND	20000	5100	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40000	8600	ug/kg	
124-48-1	Dibromochloromethane	ND	20000	2200	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4000	2300	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	20000	1800	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	20000	2000	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	20000	1800	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	20000	3200	ug/kg	
75-34-3	1,1-Dichloroethane	ND	20000	1900	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4000	2200	ug/kg	
75-35-4	1,1-Dichloroethene	ND	20000	2800	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	20000	2700	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	20000	2700	ug/kg	
78-87-5	1,2-Dichloropropane	ND	20000	2200	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	20000	1700	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	20000	1600	ug/kg	
100-41-4	Ethylbenzene	6210	4000	1800	ug/kg	
76-13-1	Freon 113	ND	20000	3400	ug/kg	
591-78-6	2-Hexanone	ND	20000	5400	ug/kg	
98-82-8	Isopropylbenzene	ND	20000	1900	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101806
Lab Sample ID: J44121-6
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 83.1

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	20000	5600	ug/kg	
108-87-2	Methylcyclohexane	ND	20000	2600	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4000	2200	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20000	8000	ug/kg	
75-09-2	Methylene chloride	ND	20000	2800	ug/kg	
100-42-5	Styrene	ND	20000	1300	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20000	2300	ug/kg	
127-18-4	Tetrachloroethene	ND	20000	3300	ug/kg	
108-88-3	Toluene	ND	4000	2200	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	20000	1400	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	20000	2400	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	20000	2100	ug/kg	
79-01-6	Trichloroethene	ND	20000	2100	ug/kg	
75-69-4	Trichlorofluoromethane	ND	20000	2900	ug/kg	
75-01-4	Vinyl chloride	ND	20000	2600	ug/kg	
	m,p-Xylene	ND	8000	3500	ug/kg	
95-47-6	o-Xylene	ND	4000	2000	ug/kg	
1330-20-7	Xylene (total)	4650	8000	2000	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-120%
17060-07-0	1,2-Dichloroethane-D4	118%		61-133%
2037-26-5	Toluene-D8	97%		75-123%
460-00-4	4-Bromofluorobenzene	95%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	17.16	61000	ug/kg	JN
91-20-3	Naphthalene	19.42	1500000	ug/kg	JN
270-82-6	Benzo[c]thiophene	19.56	24000	ug/kg	JN
	Naphthalene methyl	20.78	150000	ug/kg	J
	Naphthalene methyl	21.05	65000	ug/kg	J
	Total TIC, Volatile		1800000	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101806
Lab Sample ID: J44121-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 83.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55885.D	1	11/02/06	OYA	10/23/06	OP25218	ER1971
Run #2	R55892.D	10	11/03/06	OYA	10/23/06	OP25218	ER1972
Run #3	R55902.D	20	11/03/06	OYA	10/23/06	OP25218	ER1972

	Initial Weight	Final Volume
Run #1	5.4 g	5.0 ml
Run #2	5.4 g	5.0 ml
Run #3	5.4 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5600	950	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	5600	1400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	5600	1900	ug/kg	
105-67-9	2,4-Dimethylphenol	5570	5600	2900	ug/kg	J
51-28-5	2,4-Dinitrophenol	ND	22000	1700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	22000	970	ug/kg	
95-48-7	2-Methylphenol	1720	5600	1100	ug/kg	J
	3&4-Methylphenol	4820	5600	1600	ug/kg	J
88-75-5	2-Nitrophenol	ND	5600	1400	ug/kg	
100-02-7	4-Nitrophenol	ND	22000	1500	ug/kg	
87-86-5	Pentachlorophenol	ND	22000	1200	ug/kg	
108-95-2	Phenol	ND	5600	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	5600	1700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	5600	940	ug/kg	
83-32-9	Acenaphthene	247000 [a]	22000	5700	ug/kg	
208-96-8	Acenaphthylene	2040	2200	450	ug/kg	J
98-86-2	Acetophenone	ND	5600	700	ug/kg	
120-12-7	Anthracene	301000 [a]	22000	4300	ug/kg	
1912-24-9	Atrazine	ND	5600	960	ug/kg	
56-55-3	Benzo(a)anthracene	293000 [a]	22000	5400	ug/kg	
50-32-8	Benzo(a)pyrene	243000 [a]	22000	3900	ug/kg	
205-99-2	Benzo(b)fluoranthene	192000 [a]	22000	5100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	78100	2200	610	ug/kg	
207-08-9	Benzo(k)fluoranthene	184000 [a]	22000	8400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	2200	570	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	2200	840	ug/kg	
92-52-4	1,1'-Biphenyl	34000	2200	540	ug/kg	
100-52-7	Benzaldehyde	ND	5600	1200	ug/kg	
91-58-7	2-Chloronaphthalene	ND	2200	1600	ug/kg	
106-47-8	4-Chloroaniline	ND	5600	690	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101806
Lab Sample ID: J44121-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 83.1

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	88800	2200	450	ug/kg	
105-60-2	Caprolactam	ND	2200	1100	ug/kg	
218-01-9	Chrysene	269000 [a]	22000	4100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	2200	720	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	2200	550	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2200	830	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2200	520	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2200	1300	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2200	1300	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	5600	1100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	29700	2200	580	ug/kg	
132-64-9	Dibenzofuran	229000 [a]	22000	5200	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2200	710	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	2200	950	ug/kg	
84-66-2	Diethyl phthalate	ND	2200	480	ug/kg	
131-11-3	Dimethyl phthalate	ND	2200	480	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2200	1400	ug/kg	
206-44-0	Fluoranthene	684000 [a]	22000	3900	ug/kg	
86-73-7	Fluorene	249000 [a]	22000	4500	ug/kg	
118-74-1	Hexachlorobenzene	ND	2200	640	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2200	730	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	22000	800	ug/kg	
67-72-1	Hexachloroethane	ND	5600	560	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	80400	2200	710	ug/kg	
78-59-1	Isophorone	ND	2200	550	ug/kg	
91-57-6	2-Methylnaphthalene	213000 [a]	22000	7300	ug/kg	
88-74-4	2-Nitroaniline	ND	5600	700	ug/kg	
99-09-2	3-Nitroaniline	ND	5600	860	ug/kg	
100-01-6	4-Nitroaniline	ND	5600	770	ug/kg	
91-20-3	Naphthalene	1320000 [b]	45000	13000	ug/kg	
98-95-3	Nitrobenzene	ND	2200	780	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	2200	720	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	5600	460	ug/kg	
85-01-8	Phenanthrene	879000 [a]	22000	4900	ug/kg	
129-00-0	Pyrene	599000 [a]	22000	3800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	69%	61%	62%	33-105%
4165-62-2	Phenol-d5	78%	53%	58%	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101806
Lab Sample ID: J44121-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 83.1

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	59%	55%	49%	33-124%
4165-60-0	Nitrobenzene-d5	90%	50%	69%	26-113%
321-60-8	2-Fluorobiphenyl	87%	92%	82%	40-106%
1718-51-0	Terphenyl-d14	106%	103%	99%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	5.16	820000	ug/kg	J
	Dibenzofuran, -methyl-	18.29	180000	ug/kg	J
	unknown PAH substance	18.83	94000	ug/kg	J
	unknown PAH substance	19.03	170000	ug/kg	J
	unknown PAH substance	19.09	90000	ug/kg	J
	unknown PAH substance	19.19	87000	ug/kg	J
	unknown	19.33	110000	ug/kg	J
	unknown	19.38	93000	ug/kg	J
	Dibenzothiophene	19.53	380000	ug/kg	J
	unknown	20.33	150000	ug/kg	J
	Dibenzothiophene, -methyl-	20.47	100000	ug/kg	J
	unknown PAH substance	20.64	360000	ug/kg	J
	unknown PAH substance	20.70	410000	ug/kg	J
	unknown PAH substance	20.77	290000	ug/kg	J
	unknown	20.85	650000	ug/kg	J
	unknown PAH substance	20.88	210000	ug/kg	J
	Methylcarbazole	21.01	120000	ug/kg	J
	Phenylnaphthalene	21.17	340000	ug/kg	J
	unknown PAH substance	21.29	100000	ug/kg	J
	unknown PAH substance	21.41	120000	ug/kg	J
	unknown PAH substance	21.48	100000	ug/kg	J
	unknown PAH substance	21.57	150000	ug/kg	J
	unknown PAH substance	21.62	150000	ug/kg	J
	unknown	21.66	260000	ug/kg	J
	unknown	25.33	83000	ug/kg	J
	unknown	27.00	110000	ug/kg	J
	Total TIC, Semi-Volatile		4907000	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-101806
Lab Sample ID: J44121-6
Matrix: SO - Soil
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 83.1

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1950	24	5.7	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Antimony	0.91 U	2.4	0.91	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	15.8	2.4	0.91	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Barium	23.0 B	24	0.36	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	0.60	0.60	0.024	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	0.12 U	0.60	0.12	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Calcium	2120	600	11	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	10	1.2	0.52	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Cobalt	2.7 B	6.0	0.21	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	23.7	3.0	0.27	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Iron	7240	12	9.0	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	24.3	2.4	0.38	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Magnesium	680	600	2.1	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Manganese	55.1	1.8	0.071	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	0.78	0.037	0.012	mg/kg	1	10/31/06	10/31/06	RP	SW846 7471A [2]	SW846 7471A [4]
Nickel	7.5	4.8	0.38	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Potassium	236 B	600	11	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	1.1 B	2.4	0.94	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	0.26 U	1.2	0.26	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Sodium	274 B	1200	40	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	1.0 U	1.2	1.0	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Vanadium	8.8	6.0	0.27	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	34.9	2.4	0.35	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA18284
(2) Instrument QC Batch: MA18293
(3) Prep QC Batch: MP36554
(4) Prep QC Batch: MP36593

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TL19-0.5-29		
Lab Sample ID:	J44121-7	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	41.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119068.D	1	10/27/06	YL	10/19/06 11:00	n/a	VD4748
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	2.7 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2900	840	ug/kg	
71-43-2	Benzene	ND	290	140	ug/kg	
75-27-4	Bromodichloromethane	ND	1500	130	ug/kg	
75-25-2	Bromoform	ND	1500	130	ug/kg	
74-83-9	Bromomethane	ND	1500	110	ug/kg	
78-93-3	2-Butanone (MEK)	ND	2900	800	ug/kg	
75-15-0	Carbon disulfide	ND	1500	160	ug/kg	
56-23-5	Carbon tetrachloride	ND	1500	280	ug/kg	
108-90-7	Chlorobenzene	ND	1500	130	ug/kg	
75-00-3	Chloroethane	ND	1500	510	ug/kg	
67-66-3	Chloroform	ND	1500	170	ug/kg	
74-87-3	Chloromethane	ND	1500	140	ug/kg	
110-82-7	Cyclohexane	ND	1500	380	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2900	630	ug/kg	
124-48-1	Dibromochloromethane	ND	1500	160	ug/kg	
106-93-4	1,2-Dibromoethane	ND	290	170	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1500	130	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	140	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	140	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	1500	230	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1500	140	ug/kg	
107-06-2	1,2-Dichloroethane	ND	290	160	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1500	200	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1500	200	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1500	200	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1500	160	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1500	120	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1500	120	ug/kg	
100-41-4	Ethylbenzene	ND	290	130	ug/kg	
76-13-1	Freon 113	ND	1500	250	ug/kg	
591-78-6	2-Hexanone	ND	1500	400	ug/kg	
98-82-8	Isopropylbenzene	ND	1500	140	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL19-0.5-29
Lab Sample ID: J44121-7
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 41.4

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	1500	420	ug/kg	
108-87-2	Methylcyclohexane	ND	1500	190	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	290	160	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1500	590	ug/kg	
75-09-2	Methylene chloride	ND	1500	200	ug/kg	
100-42-5	Styrene	ND	1500	96	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1500	170	ug/kg	
127-18-4	Tetrachloroethene	ND	1500	240	ug/kg	
108-88-3	Toluene	ND	290	160	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	100	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1500	170	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1500	160	ug/kg	
79-01-6	Trichloroethene	ND	1500	150	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1500	210	ug/kg	
75-01-4	Vinyl chloride	ND	1500	190	ug/kg	
	m,p-Xylene	ND	590	260	ug/kg	
95-47-6	o-Xylene	ND	290	150	ug/kg	
1330-20-7	Xylene (total)	ND	590	150	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	115%		61-133%
2037-26-5	Toluene-D8	97%		75-123%
460-00-4	4-Bromofluorobenzene	98%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL19-0.5-29
Lab Sample ID: J44121-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 41.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55861.D	1	11/01/06	OYA	10/23/06	OP25218	ER1970
Run #2	R55872.D	2	11/02/06	OYA	10/23/06	OP25218	ER1971

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2	30.0 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	400	69	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	400	100	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	400	130	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	400	210	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1600	120	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1600	70	ug/kg	
95-48-7	2-Methylphenol	ND	400	79	ug/kg	
	3&4-Methylphenol	ND	400	120	ug/kg	
88-75-5	2-Nitrophenol	ND	400	100	ug/kg	
100-02-7	4-Nitrophenol	ND	1600	110	ug/kg	
87-86-5	Pentachlorophenol	ND	1600	90	ug/kg	
108-95-2	Phenol	ND	400	100	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	400	120	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	400	68	ug/kg	
83-32-9	Acenaphthene	480	160	41	ug/kg	
208-96-8	Acenaphthylene	191	160	33	ug/kg	
98-86-2	Acetophenone	ND	400	51	ug/kg	
120-12-7	Anthracene	723	160	31	ug/kg	
1912-24-9	Atrazine	ND	400	70	ug/kg	
56-55-3	Benzo(a)anthracene	3620	160	39	ug/kg	
50-32-8	Benzo(a)pyrene	2280	160	28	ug/kg	
205-99-2	Benzo(b)fluoranthene	2130	160	37	ug/kg	
191-24-2	Benzo(g,h,i)perylene	498	160	44	ug/kg	
207-08-9	Benzo(k)fluoranthene	2060	160	61	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	41	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	61	ug/kg	
92-52-4	1,1'-Biphenyl	ND	160	39	ug/kg	
100-52-7	Benzaldehyde	ND	400	89	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	110	ug/kg	
106-47-8	4-Chloroaniline	ND	400	50	ug/kg	
86-74-8	Carbazole	47.4	160	33	ug/kg	J
105-60-2	Caprolactam	ND	160	78	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL19-0.5-29
Lab Sample ID: J44121-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 41.4

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	3400	160	30	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	52	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	40	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	60	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	38	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	93	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	92	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	400	77	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	229	160	42	ug/kg	
132-64-9	Dibenzofuran	174	160	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	160	51	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	160	69	ug/kg	
84-66-2	Diethyl phthalate	ND	160	34	ug/kg	
131-11-3	Dimethyl phthalate	ND	160	35	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	160	100	ug/kg	
206-44-0	Fluoranthene	14800 [a]	320	57	ug/kg	
86-73-7	Fluorene	88.6	160	32	ug/kg	J
118-74-1	Hexachlorobenzene	ND	160	46	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	53	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1600	58	ug/kg	
67-72-1	Hexachloroethane	ND	400	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	615	160	51	ug/kg	
78-59-1	Isophorone	ND	160	40	ug/kg	
91-57-6	2-Methylnaphthalene	ND	160	52	ug/kg	
88-74-4	2-Nitroaniline	ND	400	51	ug/kg	
99-09-2	3-Nitroaniline	ND	400	62	ug/kg	
100-01-6	4-Nitroaniline	ND	400	56	ug/kg	
91-20-3	Naphthalene	233	160	45	ug/kg	
98-95-3	Nitrobenzene	ND	160	56	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	160	52	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	400	33	ug/kg	
85-01-8	Phenanthrene	404	160	35	ug/kg	
129-00-0	Pyrene	11900 [a]	320	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%	59%	33-105%
4165-62-2	Phenol-d5	65%	68%	34-110%
118-79-6	2,4,6-Tribromophenol	56%	63%	33-124%
4165-60-0	Nitrobenzene-d5	65%	66%	26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL19-0.5-29
Lab Sample ID: J44121-7
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 41.4

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	74%	80%	40-106%
1718-51-0	Terphenyl-d14	79%	77%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	5.33	140000	ug/kg	J
	Benzene, [-(-cyclopentadien--yliden	18.09	790	ug/kg	J
	Dibenzofuran, -methyl-	18.29	590	ug/kg	J
	unknown	18.54	1100	ug/kg	J
	unknown	18.82	1200	ug/kg	J
	9H-Fluorene, -methyl-	19.19	1100	ug/kg	J
	unknown	19.33	800	ug/kg	J
	unknown	19.38	900	ug/kg	J
	unknown	19.50	1400	ug/kg	J
	unknown PAH substance	20.33	1900	ug/kg	J
	unknown	20.83	5700	ug/kg	J
	Naphthalene, -phenyl-	21.17	2100	ug/kg	J
	Phenanthrene, -dimethyl-	21.29	600	ug/kg	J
	Phenanthrene, dimethyl-	21.42	820	ug/kg	J
	unknown	21.66	1600	ug/kg	J
	unknown PAH substance	22.31	630	ug/kg	J
	unknown PAH substance	22.41	750	ug/kg	J
	unknown PAH substance	22.78	2700	ug/kg	J
	unknown PAH substance	22.89	1700	ug/kg	J
	unknown PAH substance	23.13	610	ug/kg	J
	unknown PAH substance	23.84	990	ug/kg	J
	unknown PAH substance	25.59	2100	ug/kg	J
	unknown PAH substance	25.94	1200	ug/kg	J
	alkane	26.01	1100	ug/kg	J
	unknown PAH substance	26.18	2200	ug/kg	J
	unknown	26.98	930	ug/kg	J
	Total TIC, Semi-Volatile		35510	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL19-0.5-29
Lab Sample ID: J44121-7
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 41.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14160.D	1	10/31/06	JSE	10/23/06	OP25217	G2G579
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	80	15	ug/kg	
11104-28-2	Aroclor 1221	ND	80	48	ug/kg	
11141-16-5	Aroclor 1232	ND	80	44	ug/kg	
53469-21-9	Aroclor 1242	ND	80	25	ug/kg	
12672-29-6	Aroclor 1248	ND	80	28	ug/kg	
11097-69-1	Aroclor 1254	ND	80	38	ug/kg	
11096-82-5	Aroclor 1260	ND	80	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		37-140%
877-09-8	Tetrachloro-m-xylene	67%		37-140%
2051-24-3	Decachlorobiphenyl	70%		40-151%
2051-24-3	Decachlorobiphenyl	64%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-0.5-16		
Lab Sample ID:	J44121-8	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	66.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119163.D	1	10/30/06	YL	10/19/06 11:00	n/a	VD4752
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.0 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1200	340	ug/kg	
71-43-2	Benzene	854	120	58	ug/kg	
75-27-4	Bromodichloromethane	ND	600	55	ug/kg	
75-25-2	Bromoform	ND	600	52	ug/kg	
74-83-9	Bromomethane	ND	600	44	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1200	330	ug/kg	
75-15-0	Carbon disulfide	435	600	66	ug/kg	J
56-23-5	Carbon tetrachloride	ND	600	110	ug/kg	
108-90-7	Chlorobenzene	ND	600	52	ug/kg	
75-00-3	Chloroethane	ND	600	210	ug/kg	
67-66-3	Chloroform	ND	600	70	ug/kg	
74-87-3	Chloromethane	ND	600	55	ug/kg	
110-82-7	Cyclohexane	ND	600	150	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	260	ug/kg	
124-48-1	Dibromochloromethane	ND	600	66	ug/kg	
106-93-4	1,2-Dibromoethane	ND	120	68	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	600	55	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	600	59	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	600	55	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	600	95	ug/kg	
75-34-3	1,1-Dichloroethane	ND	600	58	ug/kg	
107-06-2	1,2-Dichloroethane	ND	120	65	ug/kg	
75-35-4	1,1-Dichloroethene	ND	600	83	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	600	81	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	600	82	ug/kg	
78-87-5	1,2-Dichloropropane	ND	600	67	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	600	50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	600	47	ug/kg	
100-41-4	Ethylbenzene	2710	120	54	ug/kg	
76-13-1	Freon 113	ND	600	100	ug/kg	
591-78-6	2-Hexanone	ND	600	160	ug/kg	
98-82-8	Isopropylbenzene	2230	600	56	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-0.5-16
Lab Sample ID: J44121-8
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 66.1

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	192	600	170	ug/kg	J
108-87-2	Methylcyclohexane	116	600	77	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	120	67	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	600	240	ug/kg	
75-09-2	Methylene chloride	ND	600	83	ug/kg	
100-42-5	Styrene	ND	600	39	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	600	69	ug/kg	
127-18-4	Tetrachloroethene	ND	600	99	ug/kg	
108-88-3	Toluene	757	120	65	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	600	42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	600	71	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	600	64	ug/kg	
79-01-6	Trichloroethene	ND	600	63	ug/kg	
75-69-4	Trichlorofluoromethane	ND	600	88	ug/kg	
75-01-4	Vinyl chloride	ND	600	78	ug/kg	
	m,p-Xylene	1070	240	110	ug/kg	
95-47-6	o-Xylene	1060	120	59	ug/kg	
1330-20-7	Xylene (total)	2120	240	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	110%		61-133%
2037-26-5	Toluene-D8	98%		75-123%
460-00-4	4-Bromofluorobenzene	103%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	16.23	3400	ug/kg	J
95-63-6	Benzene, 1,2,4-trimethyl-	16.41	3600	ug/kg	JN
	C4 alkyl benzene	17.58	9500	ug/kg	J
	1H-indene-dihydro-methyl	17.78	9700	ug/kg	J
	C4 alkyl benzene	18.03	11000	ug/kg	J
	C4 alkyl benzene	18.09	11000	ug/kg	J
	C5 alkyl benzene	18.14	3200	ug/kg	J
	C5 alkyl benzene	18.24	3700	ug/kg	J
	C4 alkyl benzene	18.58	5200	ug/kg	J
2177-47-1	2-Methylindene	18.71	4300	ug/kg	JN
	C5 alkyl benzene	18.96	9300	ug/kg	J
	C5 alkyl benzene	19.11	3900	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-0.5-16		
Lab Sample ID:	J44121-8	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	66.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1H-Indene-dihydro-dimethyl	19.27	4100	ug/kg	J
91-20-3	Naphthalene	19.42	7900	ug/kg	JN
	Naphthalene methyl	21.05	12000	ug/kg	J
	Total TIC, Volatile		101800	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-0.5-16		
Lab Sample ID:	J44121-8	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	66.1
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55862.D	1	11/01/06	OYA	10/23/06	OP25218	ER1970
Run #2	R55870.D	50	11/02/06	OYA	10/23/06	OP25218	ER1971
Run #3	R55882.D	100	11/02/06	OYA	10/23/06	OP25218	ER1971

	Initial Weight	Final Volume
Run #1	5.4 g	5.0 ml
Run #2	5.4 g	5.0 ml
Run #3	5.4 g	5.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	7000	1200	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	7000	1800	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	7000	2300	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	7000	3600	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	28000	2100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	28000	1200	ug/kg	
95-48-7	2-Methylphenol	ND	7000	1400	ug/kg	
	3&4-Methylphenol	ND	7000	2000	ug/kg	
88-75-5	2-Nitrophenol	ND	7000	1700	ug/kg	
100-02-7	4-Nitrophenol	ND	28000	1900	ug/kg	
87-86-5	Pentachlorophenol	ND	28000	1600	ug/kg	
108-95-2	Phenol	ND	7000	1700	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	7000	2100	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	7000	1200	ug/kg	
83-32-9	Acenaphthene	3480000 [a]	140000	36000	ug/kg	
208-96-8	Acenaphthylene	125000	2800	570	ug/kg	
98-86-2	Acetophenone	ND	7000	880	ug/kg	
120-12-7	Anthracene	2660000 [a]	140000	27000	ug/kg	
1912-24-9	Atrazine	ND	7000	1200	ug/kg	
56-55-3	Benzo(a)anthracene	1980000 [a]	140000	34000	ug/kg	
50-32-8	Benzo(a)pyrene	1110000 [a]	140000	24000	ug/kg	
205-99-2	Benzo(b)fluoranthene	851000 [a]	140000	32000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	376000 [a]	140000	38000	ug/kg	
207-08-9	Benzo(k)fluoranthene	971000 [a]	140000	53000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	2800	710	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	2800	1100	ug/kg	
92-52-4	1,1'-Biphenyl	571000 [a]	140000	34000	ug/kg	
100-52-7	Benzaldehyde	ND	7000	1500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	2800	2000	ug/kg	
106-47-8	4-Chloroaniline	ND	7000	870	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-0.5-16
Lab Sample ID: J44121-8
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 66.1

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	230000 [a]	140000	28000	ug/kg	
105-60-2	Caprolactam	ND	2800	1300	ug/kg	
218-01-9	Chrysene	1680000 [a]	140000	26000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	2800	900	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	2800	700	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2800	1000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2800	660	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	1600	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	1600	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	7000	1300	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	160000 [a]	140000	37000	ug/kg	
132-64-9	Dibenzofuran	2800000 [a]	140000	33000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2800	890	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	2800	1200	ug/kg	
84-66-2	Diethyl phthalate	ND	2800	600	ug/kg	
131-11-3	Dimethyl phthalate	ND	2800	600	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2800	1800	ug/kg	
206-44-0	Fluoranthene	5520000 [a]	140000	25000	ug/kg	
86-73-7	Fluorene	4160000 [a]	140000	28000	ug/kg	
118-74-1	Hexachlorobenzene	ND	2800	810	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2800	920	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	28000	1000	ug/kg	
67-72-1	Hexachloroethane	ND	7000	700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	421000 [a]	140000	44000	ug/kg	
78-59-1	Isophorone	ND	2800	690	ug/kg	
91-57-6	2-Methylnaphthalene	3490000 [a]	140000	46000	ug/kg	
88-74-4	2-Nitroaniline	ND	7000	890	ug/kg	
99-09-2	3-Nitroaniline	ND	7000	1100	ug/kg	
100-01-6	4-Nitroaniline	ND	7000	970	ug/kg	
91-20-3	Naphthalene	4120000 [a]	140000	39000	ug/kg	
98-95-3	Nitrobenzene	ND	2800	980	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	2800	900	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	7000	580	ug/kg	
85-01-8	Phenanthrene	10700000 [b]	280000	61000	ug/kg	
129-00-0	Pyrene	4680000 [a]	140000	24000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	83%	0% [c]	0% [c]	33-105%
4165-62-2	Phenol-d5	91%	0% [c]	0% [c]	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-0.5-16
Lab Sample ID: J44121-8
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 66.1

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	173% [d]	0% [c]	0% [c]	33-124%
4165-60-0	Nitrobenzene-d5	47%	0% [c]	0% [c]	26-113%
321-60-8	2-Fluorobiphenyl	108% [d]	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	360% [d]	0% [c]	0% [c]	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	4.21	20000	ug/kg	J
	system artifact/aldol-condensation	5.11	740000	ug/kg	J
	unknown	6.00	34000	ug/kg	J
	C3 alkyl benzene	7.43	39000	ug/kg	J
	C3 alkyl benzene	7.55	19000	ug/kg	J
	C3 alkyl benzene	8.06	98000	ug/kg	J
	C3 alkyl benzene	8.70	70000	ug/kg	J
	Indane	8.93	190000	ug/kg	J
	Indene	9.11	77000	ug/kg	J
	C4 alkyl benzene	9.37	35000	ug/kg	J
	C4 alkyl benzene	9.78	29000	ug/kg	J
	Benzene, (-methyl--propenyl)-	9.95	82000	ug/kg	J
90-12-0	Naphthalene 1-methyl	14.33	36000	ug/kg	J
	Naphthalene dimethyl	15.88	22000	ug/kg	J
	Naphthalene dimethyl	16.11	34000	ug/kg	J
	Naphthalene trimethyl	18.21	30000	ug/kg	J
	Dibenzofuran, -methyl-	18.49	22000	ug/kg	J
	unknown	21.06	51000	ug/kg	J
	Phenylnaphthalene	21.34	23000	ug/kg	J
	unknown PAH substance	23.05	38000	ug/kg	J
	unknown PAH substance	23.11	34000	ug/kg	J
	unknown PAH substance	23.27	29000	ug/kg	J
	unknown PAH substance	24.89	32000	ug/kg	J
	Total TIC, Semi-Volatile		1024000	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.
(d) Outside control limits due to dilution and matrix interference.

Report of Analysis

Client Sample ID: TL18.5-0.5-16
Lab Sample ID: J44121-8
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 66.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14202.D	10	11/02/06	JSE	10/23/06	OP25217	G2G581
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	1400	270	ug/kg	
11104-28-2	Aroclor 1221	ND	1400	860	ug/kg	
11141-16-5	Aroclor 1232	ND	1400	780	ug/kg	
53469-21-9	Aroclor 1242	ND	1400	450	ug/kg	
12672-29-6	Aroclor 1248	ND	1400	490	ug/kg	
11097-69-1	Aroclor 1254	46400	1400	680	ug/kg	
11096-82-5	Aroclor 1260	ND	1400	290	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	167% [a]		37-140%
877-09-8	Tetrachloro-m-xylene	62%		37-140%
2051-24-3	Decachlorobiphenyl	103%		40-151%
2051-24-3	Decachlorobiphenyl	115%		40-151%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-0.5-29.5		
Lab Sample ID:	J44121-9	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	58.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119074.D	1	10/27/06	YL	10/19/06 11:00	n/a	VD4748
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.2 g	5.0 ml	10.0 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14000	3900	ug/kg	
71-43-2	Benzene	7310	1400	660	ug/kg	
75-27-4	Bromodichloromethane	ND	6900	630	ug/kg	
75-25-2	Bromoform	ND	6900	600	ug/kg	
74-83-9	Bromomethane	ND	6900	510	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14000	3800	ug/kg	
75-15-0	Carbon disulfide	ND	6900	760	ug/kg	
56-23-5	Carbon tetrachloride	ND	6900	1300	ug/kg	
108-90-7	Chlorobenzene	ND	6900	600	ug/kg	
75-00-3	Chloroethane	ND	6900	2400	ug/kg	
67-66-3	Chloroform	ND	6900	800	ug/kg	
74-87-3	Chloromethane	ND	6900	630	ug/kg	
110-82-7	Cyclohexane	ND	6900	1800	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14000	3000	ug/kg	
124-48-1	Dibromochloromethane	ND	6900	760	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1400	780	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6900	630	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6900	670	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6900	630	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6900	1100	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6900	660	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1400	750	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6900	940	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6900	920	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6900	940	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6900	760	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6900	570	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6900	540	ug/kg	
100-41-4	Ethylbenzene	21600	1400	620	ug/kg	
76-13-1	Freon 113	ND	6900	1200	ug/kg	
591-78-6	2-Hexanone	ND	6900	1900	ug/kg	
98-82-8	Isopropylbenzene	2690	6900	640	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-0.5-29.5
Lab Sample ID: J44121-9
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 58.4

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	6900	1900	ug/kg	
108-87-2	Methylcyclohexane	ND	6900	890	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1400	770	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6900	2700	ug/kg	
75-09-2	Methylene chloride	ND	6900	950	ug/kg	
100-42-5	Styrene	ND	6900	450	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6900	790	ug/kg	
127-18-4	Tetrachloroethene	ND	6900	1100	ug/kg	
108-88-3	Toluene	13400	1400	750	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6900	480	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6900	810	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6900	740	ug/kg	
79-01-6	Trichloroethene	ND	6900	720	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6900	1000	ug/kg	
75-01-4	Vinyl chloride	ND	6900	890	ug/kg	
	m,p-Xylene	47500	2800	1200	ug/kg	
95-47-6	o-Xylene	17000	1400	680	ug/kg	
1330-20-7	Xylene (total)	64400	2800	680	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-120%
17060-07-0	1,2-Dichloroethane-D4	117%		61-133%
2037-26-5	Toluene-D8	97%		75-123%
460-00-4	4-Bromofluorobenzene	95%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	15.88	23000	ug/kg	J
108-67-8	Benzene, 1,3,5-trimethyl-	15.97	12000	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	16.41	28000	ug/kg	JN
271-89-6	Benzofuran	16.75	11000	ug/kg	JN
	C3 alkyl benzene	16.90	8300	ug/kg	J
496-11-7	Indane	17.16	57000	ug/kg	JN
95-13-6	Indene	17.40	36000	ug/kg	JN
	Benzofuran,methyl-	18.02	9600	ug/kg	J
	Benzofuran,methyl-	18.14	17000	ug/kg	J
	1H-indene-dihydro-methyl	18.44	10000	ug/kg	J
	1H-indene-dihydro-methyl	18.63	13000	ug/kg	J
91-20-3	Naphthalene	19.42	550000	ug/kg	JN

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-0.5-29.5		
Lab Sample ID:	J44121-9	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	58.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
270-82-6	Benzo[c]thiophene	19.56	15000	ug/kg	JN
	Naphthalene methyl	20.78	47000	ug/kg	J
	Naphthalene methyl	21.05	20000	ug/kg	J
	Total TIC, Volatile		856900	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-0.5-29.5		
Lab Sample ID:	J44121-9	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	58.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55864.D	1	11/01/06	OYA	10/23/06	OP25218	ER1970
Run #2	R55869.D	20	11/02/06	OYA	10/23/06	OP25218	ER1971
Run #3	R55876.D	40	11/02/06	OYA	10/23/06	OP25218	ER1971

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2	30.0 g	1.0 ml
Run #3	30.0 g	1.0 ml

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	49	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	290	72	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	290	95	ug/kg	
105-67-9	2,4-Dimethylphenol	1430	290	150	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	87	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1100	50	ug/kg	
95-48-7	2-Methylphenol	ND	290	56	ug/kg	
	3&4-Methylphenol	331	290	82	ug/kg	
88-75-5	2-Nitrophenol	ND	290	71	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	78	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	64	ug/kg	
108-95-2	Phenol	ND	290	71	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	290	86	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	290	48	ug/kg	
83-32-9	Acenaphthene	19600 [a]	2300	580	ug/kg	
208-96-8	Acenaphthylene	412	110	23	ug/kg	
98-86-2	Acetophenone	ND	290	36	ug/kg	
120-12-7	Anthracene	9870 [a]	2300	440	ug/kg	
1912-24-9	Atrazine	ND	290	49	ug/kg	
56-55-3	Benzo(a)anthracene	3080	110	28	ug/kg	
50-32-8	Benzo(a)pyrene	2430	110	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	2410	110	26	ug/kg	
191-24-2	Benzo(g,h,i)perylene	646	110	31	ug/kg	
207-08-9	Benzo(k)fluoranthene	1900	110	43	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	110	29	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	110	43	ug/kg	
92-52-4	1,1'-Biphenyl	5590	110	28	ug/kg	
100-52-7	Benzaldehyde	ND	290	63	ug/kg	
91-58-7	2-Chloronaphthalene	ND	110	80	ug/kg	
106-47-8	4-Chloroaniline	ND	290	35	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-0.5-29.5
Lab Sample ID: J44121-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 58.4

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	2370	110	23	ug/kg	
105-60-2	Caprolactam	ND	110	55	ug/kg	
218-01-9	Chrysene	2790	110	21	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	110	37	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	110	28	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	110	43	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	110	27	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	110	66	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	110	65	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	54	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	251	110	30	ug/kg	
132-64-9	Dibenzofuran	17400 [a]	2300	530	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	110	36	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	110	49	ug/kg	
84-66-2	Diethyl phthalate	ND	110	24	ug/kg	
131-11-3	Dimethyl phthalate	ND	110	24	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	110	73	ug/kg	
206-44-0	Fluoranthene	13500 [a]	2300	400	ug/kg	
86-73-7	Fluorene	15900 [a]	2300	460	ug/kg	
118-74-1	Hexachlorobenzene	ND	110	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	110	38	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1100	41	ug/kg	
67-72-1	Hexachloroethane	ND	290	29	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	712	110	36	ug/kg	
78-59-1	Isophorone	ND	110	28	ug/kg	
91-57-6	2-Methylnaphthalene	28400 [a]	2300	740	ug/kg	
88-74-4	2-Nitroaniline	ND	290	36	ug/kg	
99-09-2	3-Nitroaniline	ND	290	44	ug/kg	
100-01-6	4-Nitroaniline	ND	290	39	ug/kg	
91-20-3	Naphthalene	129000 [b]	4600	1300	ug/kg	
98-95-3	Nitrobenzene	ND	110	40	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	110	37	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	24	ug/kg	
85-01-8	Phenanthrene	36500 [a]	2300	500	ug/kg	
129-00-0	Pyrene	10700 [a]	2300	390	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	54%	51%	42%	33-105%
4165-62-2	Phenol-d5	67%	55%	35%	34-110%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-0.5-29.5
Lab Sample ID: J44121-9
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 58.4

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	63%	49%	30% [c]	33-124%
4165-60-0	Nitrobenzene-d5	85%	50%	30%	26-113%
321-60-8	2-Fluorobiphenyl	76%	77%	67%	40-106%
1718-51-0	Terphenyl-d14	97%	81%	67%	35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	5.35	97000	ug/kg	J
	C3 alkyl benzene	7.43	2000	ug/kg	J
	C3 alkyl benzene	8.08	2500	ug/kg	J
	Benzofuran	8.15	1900	ug/kg	J
	Indane	8.94	3600	ug/kg	J
	Indene	9.12	4100	ug/kg	J
	Naphthalene ethyl	15.48	3600	ug/kg	J
	Naphthalene dimethyl	15.67	6900	ug/kg	J
	Naphthalene dimethyl	15.90	7400	ug/kg	J
	Naphthalene dimethyl	15.96	4100	ug/kg	J
	Naphthalene dimethyl	16.17	3100	ug/kg	J
	Naphthalene dimethyl	16.39	2200	ug/kg	J
	Naphthalene trimethyl	17.70	2200	ug/kg	J
	Biphenyl, -methyl-	18.13	3500	ug/kg	J
	Dibenzofuran, -methyl-	18.31	4400	ug/kg	J
	unknown	18.82	2200	ug/kg	J
	unknown PAH substance	19.04	3800	ug/kg	J
	unknown PAH substance	19.10	2000	ug/kg	J
	unknown	19.39	1900	ug/kg	J
	Dibenzothiophene	19.53	5500	ug/kg	J
	Anthracene, -methyl-	20.65	3400	ug/kg	J
	Anthracene, -methyl-	20.70	4300	ug/kg	J
	Anthracene, -methyl-	20.76	2700	ug/kg	J
	unknown	20.84	6600	ug/kg	J
	Anthracene, -methyl-	20.88	2000	ug/kg	J
	Naphthalene, -phenyl-	21.17	3300	ug/kg	J
	Total TIC, Semi-Volatile		89200	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-0.5-29.5		
Lab Sample ID:	J44121-9	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8082 SW846 3545	**Percent Solids:**	58.4
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14173.D	1	11/01/06	JSE	10/23/06	OP25217	G2G579
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	56	11	ug/kg	
11104-28-2	Aroclor 1221	ND	56	34	ug/kg	
11141-16-5	Aroclor 1232	ND	56	31	ug/kg	
53469-21-9	Aroclor 1242	ND	56	18	ug/kg	
12672-29-6	Aroclor 1248	ND	56	19	ug/kg	
11097-69-1	Aroclor 1254	ND	56	27	ug/kg	
11096-82-5	Aroclor 1260	ND	56	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		37-140%
877-09-8	Tetrachloro-m-xylene	58%		37-140%
2051-24-3	Decachlorobiphenyl	63%		40-151%
2051-24-3	Decachlorobiphenyl	58%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-1.5-24.5		
Lab Sample ID:	J44121-10	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	61.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D119069.D	1	10/27/06	YL	10/19/06 11:00	n/a	VD4748
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.2 g	5.0 ml	100 ul
Run #2			

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1300	370	ug/kg	
71-43-2	Benzene	ND	130	62	ug/kg	
75-27-4	Bromodichloromethane	ND	640	59	ug/kg	
75-25-2	Bromoform	ND	640	56	ug/kg	
74-83-9	Bromomethane	ND	640	47	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1300	350	ug/kg	
75-15-0	Carbon disulfide	ND	640	71	ug/kg	
56-23-5	Carbon tetrachloride	ND	640	120	ug/kg	
108-90-7	Chlorobenzene	ND	640	56	ug/kg	
75-00-3	Chloroethane	ND	640	220	ug/kg	
67-66-3	Chloroform	ND	640	75	ug/kg	
74-87-3	Chloromethane	ND	640	59	ug/kg	
110-82-7	Cyclohexane	ND	640	160	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1300	280	ug/kg	
124-48-1	Dibromochloromethane	ND	640	71	ug/kg	
106-93-4	1,2-Dibromoethane	ND	130	73	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	640	59	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	640	63	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	640	59	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	640	100	ug/kg	
75-34-3	1,1-Dichloroethane	ND	640	62	ug/kg	
107-06-2	1,2-Dichloroethane	ND	130	70	ug/kg	
75-35-4	1,1-Dichloroethene	ND	640	88	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	640	86	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	640	88	ug/kg	
78-87-5	1,2-Dichloropropane	ND	640	71	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	640	53	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	640	50	ug/kg	
100-41-4	Ethylbenzene	ND	130	58	ug/kg	
76-13-1	Freon 113	ND	640	110	ug/kg	
591-78-6	2-Hexanone	ND	640	170	ug/kg	
98-82-8	Isopropylbenzene	ND	640	60	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-1.5-24.5		
Lab Sample ID:	J44121-10	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	61.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	272	640	180	ug/kg	J
108-87-2	Methylcyclohexane	ND	640	83	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	130	72	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	640	260	ug/kg	
75-09-2	Methylene chloride	ND	640	89	ug/kg	
100-42-5	Styrene	ND	640	42	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	640	74	ug/kg	
127-18-4	Tetrachloroethene	ND	640	110	ug/kg	
108-88-3	Toluene	ND	130	70	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	640	45	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	640	76	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	640	69	ug/kg	
79-01-6	Trichloroethene	ND	640	67	ug/kg	
75-69-4	Trichlorofluoromethane	ND	640	94	ug/kg	
75-01-4	Vinyl chloride	ND	640	83	ug/kg	
	m,p-Xylene	ND	260	110	ug/kg	
95-47-6	o-Xylene	ND	130	63	ug/kg	
1330-20-7	Xylene (total)	ND	260	63	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-120%
17060-07-0	1,2-Dichloroethane-D4	117%		61-133%
2037-26-5	Toluene-D8	97%		75-123%
460-00-4	4-Bromofluorobenzene	99%		65-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-1.5-24.5
Lab Sample ID: J44121-10
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 61.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55859.D	1	11/01/06	OYA	10/23/06	OP25218	ER1970
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	270	47	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	270	69	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	270	91	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	270	140	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	83	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1100	47	ug/kg	
95-48-7	2-Methylphenol	ND	270	53	ug/kg	
	3&4-Methylphenol	ND	270	78	ug/kg	
88-75-5	2-Nitrophenol	ND	270	67	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	74	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	61	ug/kg	
108-95-2	Phenol	ND	270	67	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	270	82	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	270	46	ug/kg	
83-32-9	Acenaphthene	ND	110	28	ug/kg	
208-96-8	Acenaphthylene	ND	110	22	ug/kg	
98-86-2	Acetophenone	ND	270	34	ug/kg	
120-12-7	Anthracene	27.4	110	21	ug/kg	J
1912-24-9	Atrazine	ND	270	47	ug/kg	
56-55-3	Benzo(a)anthracene	57.8	110	26	ug/kg	J
50-32-8	Benzo(a)pyrene	44.5	110	19	ug/kg	J
205-99-2	Benzo(b)fluoranthene	27.8	110	25	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	110	30	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	41	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	110	28	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	110	41	ug/kg	
92-52-4	1,1'-Biphenyl	ND	110	26	ug/kg	
100-52-7	Benzaldehyde	ND	270	60	ug/kg	
91-58-7	2-Chloronaphthalene	ND	110	76	ug/kg	
106-47-8	4-Chloroaniline	ND	270	34	ug/kg	
86-74-8	Carbazole	ND	110	22	ug/kg	
105-60-2	Caprolactam	ND	110	52	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-1.5-24.5
Lab Sample ID: J44121-10
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 61.3

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	51.5	110	20	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	110	35	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	110	27	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	110	41	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	110	26	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	110	63	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	110	62	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	270	52	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	28	ug/kg	
132-64-9	Dibenzofuran	ND	110	25	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	110	35	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	110	46	ug/kg	
84-66-2	Diethyl phthalate	ND	110	23	ug/kg	
131-11-3	Dimethyl phthalate	ND	110	23	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	163	110	70	ug/kg	
206-44-0	Fluoranthene	90.9	110	19	ug/kg	J
86-73-7	Fluorene	ND	110	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	110	31	ug/kg	
87-68-3	Hexachlorobutadiene	ND	110	36	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1100	39	ug/kg	
67-72-1	Hexachloroethane	ND	270	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	34	ug/kg	
78-59-1	Isophorone	ND	110	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	35	ug/kg	
88-74-4	2-Nitroaniline	ND	270	34	ug/kg	
99-09-2	3-Nitroaniline	ND	270	42	ug/kg	
100-01-6	4-Nitroaniline	ND	270	38	ug/kg	
91-20-3	Naphthalene	51.8	110	31	ug/kg	J
98-95-3	Nitrobenzene	ND	110	38	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	110	35	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	270	22	ug/kg	
85-01-8	Phenanthrene	66.7	110	24	ug/kg	J
129-00-0	Pyrene	87.8	110	19	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		33-105%
4165-62-2	Phenol-d5	66%		34-110%
118-79-6	2,4,6-Tribromophenol	65%		33-124%
4165-60-0	Nitrobenzene-d5	65%		26-113%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-1.5-24.5		
Lab Sample ID:	J44121-10	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	61.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	76%		35-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	4.00	290	ug/kg	J
	system artifact	4.21	280	ug/kg	J
	system artifact/aldol-condensation	5.36	100000	ug/kg	J
	system artifact/aldol-condensation	6.51	310	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TL18.5-1.5-24.5
Lab Sample ID: J44121-10
Matrix: SO - Soil
Method: SW846 8082 SW846 3545
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: 61.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G14161.D	1	10/31/06	JSE	10/23/06	OP25217	G2G579
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	54	10	ug/kg	
11104-28-2	Aroclor 1221	ND	54	32	ug/kg	
11141-16-5	Aroclor 1232	ND	54	29	ug/kg	
53469-21-9	Aroclor 1242	ND	54	17	ug/kg	
12672-29-6	Aroclor 1248	ND	54	19	ug/kg	
11097-69-1	Aroclor 1254	ND	54	25	ug/kg	
11096-82-5	Aroclor 1260	ND	54	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		37-140%
877-09-8	Tetrachloro-m-xylene	64%		37-140%
2051-24-3	Decachlorobiphenyl	70%		40-151%
2051-24-3	Decachlorobiphenyl	64%		40-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TL18.5-1.5-24.5		
Lab Sample ID:	J44121-10	**Date Sampled:**	10/18/06
Matrix:	SO - Soil	**Date Received:**	10/18/06
		Percent Solids:	61.3
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	26.2	1.6	0.73	mg/kg	1	10/30/06	11/01/06	ND	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA18284
(2) Prep QC Batch: MP36554

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TB-101806		
Lab Sample ID:	J44121-11	**Date Sampled:**	10/18/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/18/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A43892.D	1	11/01/06	YWC	n/a	n/a	V1A1871
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-101806		
Lab Sample ID:	J44121-11	**Date Sampled:**	10/18/06
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/18/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		77-121%
17060-07-0	1,2-Dichloroethane-D4	117%		65-133%
2037-26-5	Toluene-D8	86%		80-117%
460-00-4	4-Bromofluorobenzene	89%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101806		
Lab Sample ID:	J44121-12	**Date Sampled:**	10/18/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/18/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A43893.D	1	11/01/06	YWC	n/a	n/a	V1A1871
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.4	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.17	ug/l	
75-25-2	Bromoform	ND	4.0	0.54	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.21	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
74-87-3	Chloromethane	ND	1.0	0.35	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.75	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.29	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	0.69	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101806		
Lab Sample ID:	J44121-12	**Date Sampled:**	10/18/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/18/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	2.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.31	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
100-42-5	Styrene	ND	5.0	0.16	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.28	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.29	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.29	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		77-121%
17060-07-0	1,2-Dichloroethane-D4	110%		65-133%
2037-26-5	Toluene-D8	85%		80-117%
460-00-4	4-Bromofluorobenzene	88%		79-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101806		
Lab Sample ID:	J44121-12	**Date Sampled:**	10/18/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R55889.D	1	11/03/06	OYA	10/23/06	OP25211	ER1972
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.95	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	0.89	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.72	ug/l	
95-48-7	2-Methylphenol	ND	5.0	1.4	ug/l	
	3&4-Methylphenol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.8	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.84	ug/l	
87-86-5	Pentachlorophenol	ND	20	1.9	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.35	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.38	ug/l	
98-86-2	Acetophenone	ND	5.0	0.37	ug/l	
120-12-7	Anthracene	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.16	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.36	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.37	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.59	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.42	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.42	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.30	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.59	ug/l	
92-52-4	1,1'-Biphenyl	ND	2.0	0.33	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.40	ug/l	
86-74-8	Carbazole	ND	2.0	0.36	ug/l	
105-60-2	Caprolactam	ND	2.0	0.32	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101806
Lab Sample ID: J44121-12
Matrix: AQ - Equipment Blank
Method: SW846 8270C SW846 3510C
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: n/a

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	2.0	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.65	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.53	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.74	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.43	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.86	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.56	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.54	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.34	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.59	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.57	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.39	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.33	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.66	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.25	ug/l	
86-73-7	Fluorene	ND	2.0	0.45	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.18	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.41	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.28	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.30	ug/l	
78-59-1	Isophorone	ND	2.0	0.59	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.41	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.66	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.72	ug/l	
91-20-3	Naphthalene	ND	2.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.52	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.36	ug/l	
129-00-0	Pyrene	ND	2.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		12-76%
4165-62-2	Phenol-d5	28%		10-59%
118-79-6	2,4,6-Tribromophenol	67%		42-128%
4165-60-0	Nitrobenzene-d5	74%		30-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101806		
Lab Sample ID:	J44121-12	**Date Sampled:**	10/18/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/18/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	77%		34-113%
1718-51-0	Terphenyl-d14	80%		42-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	4.99	30	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-101806		
Lab Sample ID:	J44121-12	**Date Sampled:**	10/18/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/18/06
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Quanta 2006 ARI (SOIL) Edgewater, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB60868.D	1	11/01/06	JSE	10/23/06	OP25198	GAB2748
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.53	0.099	ug/l	
11104-28-2	Aroclor 1221	ND	0.53	0.49	ug/l	
11141-16-5	Aroclor 1232	ND	0.53	0.41	ug/l	
53469-21-9	Aroclor 1242	ND	0.53	0.17	ug/l	
12672-29-6	Aroclor 1248	ND	0.53	0.16	ug/l	
11097-69-1	Aroclor 1254	ND	0.53	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.53	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		38-133%
877-09-8	Tetrachloro-m-xylene	96%		38-133%
2051-24-3	Decachlorobiphenyl	103%		18-156%
2051-24-3	Decachlorobiphenyl	75%		18-156%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-101806
Lab Sample ID: J44121-12
Matrix: AQ - Equipment Blank
Project: Quanta 2006 ARI (SOIL) Edgewater, NJ

Date Sampled: 10/18/06
Date Received: 10/18/06
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	24.8 B	200	23	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Antimony	5.0 U	6.0	5.0	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Arsenic	4.5 U	8.0	4.5	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Barium	2.3 U	200	2.3	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Beryllium	0.40 U	1.0	0.40	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Cadmium	1.3 U	4.0	1.3	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Calcium	49 U	5000	49	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Chromium	0.80 U	10	0.80	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Cobalt	1.8 U	50	1.8	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Copper	2.7 U	25	2.7	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	25 U	100	25	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Lead	2.8 U	3.0	2.8	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Magnesium	14 U	5000	14	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Manganese	0.60 U	15	0.60	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Mercury	0.080 U	0.20	0.080	ug/l	1	10/30/06	10/31/06	YL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.8 U	40	2.8	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Potassium	55 U	5000	55	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Selenium	6.2 U	10	6.2	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Silver	1.5 B	10	1.0	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Sodium	830 U	10000	830	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Thallium	9.8 U	10	9.8	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]
Zinc	3.4 U	20	3.4	ug/l	1	10/29/06	11/03/06	LH	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA18288
(2) Instrument QC Batch: MA18312
(3) Prep QC Batch: MP36537
(4) Prep QC Batch: MP36583

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SO, SME, TB, FB

J44121

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 39006.23661
COC# 32716 ~ 101806 soil
Lab Proj # (SDG):
Lab ID: ACTD
Site ID: Quanta
Lab Job #:
Authorized User: Honeywell
Text & Excel File Drive: Excel & Text File Order

Privileged & Confidential
Site Name: Quanta Resources (Edgewater)
Location of Site: Edgewater, NJ
Phase:
Sampling Program: Quanta 2006 ~~Groundwater~~ SI

Sampling Co.: CH2M HILL
EDD To: amy.klopper@ch2m.com, john.mitchell@ch2m.com
Sampler: Austin Harclerode
PO #:
Analysis Turnaround Time (TAT): 10
Consultant: CH2M
Full Report TAT:

Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103

Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To: jennifer.simms@ch2m.com

Preservative: 9 | 1 | 1 | 10 | 1 | 1 | 7

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW8260 - VOCs	SW8270 - SVOCs	SW6010 TAL Metals	SW8082 - PCBs	SW7471 - Mercury	SPLP Analyses - SW6010, SW8260, SW8270, SW8082	Total (Unpreserved)			Sampling Method (code)	Lab Sample Numbers
	Units										C	N												
1	TL 12-11.75	17	19	TL 12-11.75-18'	10-17-06	1530	Soil	Soil	Reg	2	C	N	X	X						-	1		
2	TL 12.5-12.25	19	21	TL 12.5-12.25-20	10/18/06	0830	Soil	Soil	Reg	2	C	N	X	X						-	2	EX78, 14P6M, 4002	
3	SB-23	0	2	SB-23-1.0	10/18/06	0930	Soil	Soil	Reg	1	C	N				X				-	3	EX3, ME24, 444	
4	SB-23	2	4	SB-23-3.0*	10/18/06	0945	Soil	Soil	Reg	6	C	N	X	X	X	X				-	4		
5	SB-23	10	12	SB-23-11	10/18/06	1000	Soil	Soil	Reg	2	C	N	X	X	X					-	5		
6				DUP-101806	10/18/06	—	Soil	Soil	DUP	2	C	N	X	X	X					-	6		
7	TL 19-0.5	28	29.5	TL 19-0.5-29	10/18/06	1245	Soil	Soil	Reg	2	C	N	X	X		X				-	7		
8	TL 18.5-0.5	15	16.5	TL 18.5-0.5-16	10/18/06	1345	Soil	Soil	Reg	2	C	N	X	X		X				-	8	K on KB & J. SIMMS	
9	TL 18.5-0.5	29	30	TL 18.5-0.5-29.5	10/18/06	1400	Soil	Soil	Reg	2	C	N	X	X		X				-	9	CORRECT ID =	
10	TL 18.5-1.5	24	25	TL 18.5-1.5-24.5	10/18/06	1450	Soil	Soil	Reg	2	C	N	X	X		X			X	-	10	TL 18.5-0.5-29.5	
11	Trip Blank			TB-101806	10/18/06	—	Aqueous	DI	TB	2	G	N	X							-	11	FOR SAMPLE - 9.	
12	Eq-ip Blank			EB-101806	10/18/06	1530	Aqueous	DI	EB	8	G	N	X	X	X	X				-	12		MW 10-19-06

* please run MS/MSD on this sample

~~Sweeney LI~~ See worksheet SW846 ~~analyze for Arsenic (As) and Lead (Pb)~~

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	CH2M HILL				
Date/Time	10/18/06 1550	Marcos Silva	10/18/06 Date/Time 1545	Cooler Temp.	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
Marcos Silva		S			
Date/Time	10/18/06 1845		10/18/06 Date/Time 1845	Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2, 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

* recd labeled

+ 3 more ⊗ 300 recd labeled as "TL 18.5-0.5-19.5" @ 14:00 10/18/06 pm
Δ tb filled 10/17/06 @ 6:30 10/18/06 pm
• 1 encore per sample 10/18/06 pm

ALL SAMPLES RECEIVED pm
PRESERVED AS APPLICABLE

IB

3.6°C MW

J44121: Chain of Custody
Page 1 of 1

New Jersey ACCUTEST LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 Groundwater Resources, Edgewater, NJ

Quanta 2006 OU1 SI COC#30916

Accutest Job Number: J44474

Sampling Date: 10/23/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **11**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J44474

Quanta 2006 Groundwater Resources, Edgewater, NJ
Project No: Quanta 2006 OU1 SI COC#30916

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44474-1	10/23/06	13:40	DR	10/23/06	AQ	Ground Water	MW-36EE-102306
J44474-2	10/23/06	13:20	DR	10/23/06	AQ	Ground Water	DMW-2-102306

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J44474
Site:	Quanta 2006 Groundwater Resources, Edgewater, NJ	**Report Date**	11/22/2006 8:44:43 AM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 10/23/2006 and were received at Accutest on 10/23/2006 properly preserved, at 4.2 Deg. C and intact. These Samples received an Accutest job number of J44474. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6020

Matrix AQ **Batch ID:** MP36669A

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44474-1MS, J44474-1MSD, J44474-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP36669A-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J44474).

Summary of Hits

Job Number: J44474
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/23/06

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44474-1	**MW-36EE-102306**					
Arsenic		4.5	2.0	1.5	ug/l	SW846 6020
J44474-2	**DMW-2-102306**					
Arsenic		3.6	2.0	1.5	ug/l	SW846 6020

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-36EE-102306		
Lab Sample ID:	J44474-1	**Date Sampled:**	10/23/06
Matrix:	AQ - Ground Water	**Date Received:**	10/23/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.5	2.0	1.5	ug/l	2	11/07/06	11/17/06	ND	SW846 6020 [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18379
(2) Prep QC Batch: MP36669A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DMW-2-102306		
Lab Sample ID:	J44474-2	**Date Sampled:**	10/23/06
Matrix:	AQ - Ground Water	**Date Received:**	10/23/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.6	2.0	1.5	ug/l	2	11/07/06	11/17/06	ND	SW846 6020 [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18379
(2) Prep QC Batch: MP36669A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Job Change Order: J44474_10/26/2006

Requested Date:	10/26/2006	**Received Date:**	10/23/2006
Account Name:	CH2M Hill	**Due Date:**	11/13/2006
Project Description:	Quanta 2006 Groundwater Resources, Edgewater,	**Deliverable:**	FULT1
CSR:	MV	**TAT (Days):**	21

Sample #:
J44474-1

Change: Change sample ID to MW-36EE-102306

MW-36-102306

Above Changes Per: John Mitchell / Jen Simms **Date:** 10/26/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

J44474: Chain of Custody
Page 1 of 2

GW

J44474

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 39010.55918
COC#: 30916-XXXX GW

Sampling Co.:	CH2M HILL	Privileged & Confidential	
Client Contact: (name, co., address)		EDD To:	john.mitchell@ch2m.com, amy.klopper@ch2m.com
Jennifer Simms		Sampler:	D. Reamer/L. Baechler
1700 Market Street, Suite 1600		PO #	
Philadelphia, PA 19103		Analysis Turnaround Time (TAT): Consultant	Standard CH2M
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, [illegible] FL 32608	Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com		

Site Name: Quanta Resources (Edgewater) — Phase:
Location of Site: Edgewater, NJ — Sampling Program: Quanta 2006 OU1 SI

Lab Proj # (SDG):
Lab ID: ACTD
Site ID: Quanta
Lab Job #:
Authorized User: Honeywell
Text & Excel File Drive — Excel & Text F Order

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	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	SW6010 Arsenic	SW6010 Iron	E350.2 - Ammonia	Total Kjedahl Nitrogen	Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units							
1	MW 36-1	10.82	10.81	MW36-102306	10/23/06	13:40	Total As	GW	—	—	X	N	X				AMETH	
2	DMW-2-2	10.82	11.09	DMW2-102306	10/23/06	13:20	Total As	GW	—	—	X	N	X					
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Relinquished by	Company: CH2M HILL	Received by	Company	Condition		Custody Seals Intact
Date/Time: 10-23-06 1600		10/23/06	Date/Time: 70	Cooler Temp.		
Relinquished by	Company	Received by	Company	Condition		Custody Seals Intact
10/23/06	Date/Time: 19		10/23/06 18:35	Cooler Temp.		

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNC (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

IB

4.2 gc

ALL SAMPLES RECEIVED [illegible] PRESERVED AS APPLICABLE

J44474: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST
LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 Groundwater Resources, Edgewater, NJ

Quanta 2006 OU1 SI

Accutest Job Number: J44566

Sampling Date: 10/24/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **27**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J44566

Quanta 2006 Groundwater Resources, Edgewater, NJ
Project No: Quanta 2006 OU1 SI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44566-1	10/24/06	09:20	LB	10/24/06	AQ	Ground Water	MW-C-102406
J44566-1D	10/24/06	09:20	LB	10/24/06	AQ	Water Dup/MSD	MW-C-102406
J44566-1F	10/24/06	09:20	LB	10/24/06	AQ	Groundwater Filtered	MW-C-102406-F
J44566-1FD	10/24/06	09:20	LB	10/24/06	AQ	Water Dup/MSD	MW-C-102406-F
J44566-1FS	10/24/06	09:20	LB	10/24/06	AQ	Water Matrix Spike	MW-C-102406-F
J44566-1S	10/24/06	09:20	LB	10/24/06	AQ	Water Matrix Spike	MW-C-102406
J44566-2	10/24/06	09:35	LB	10/24/06	AQ	Ground Water	MW-F-102406
J44566-2F	10/24/06	09:35	LB	10/24/06	AQ	Groundwater Filtered	MW-F-102406-F
J44566-3	10/24/06	09:35	LB	10/24/06	AQ	Ground Water	DUP-102406-GW
J44566-3F	10/24/06	09:35	LB	10/24/06	AQ	Groundwater Filtered	DUP-102406-GW-F
J44566-4	10/24/06	13:25	LB	10/24/06	AQ	Ground Water	MW-B-102406
J44566-4F	10/24/06	13:25	LB	10/24/06	AQ	Groundwater Filtered	MW-B-102406-F
J44566-5	10/24/06	13:20	LB	10/24/06	AQ	Ground Water	MW-113B-102426

Sample Summary
(continued)

CH2M Hill

Job No: J44566

Quanta 2006 Groundwater Resources, Edgewater, NJ
Project No: Quanta 2006 OU1 SI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44566-5F	10/24/06	13:20	LB	10/24/06	AQ	Groundwater Filtered	MW-113B-102426-F
J44566-6	10/24/06	00:00	LB	10/24/06	AQ	Equipment Blank	EB-102406-GW

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J44566
Site:	Quanta 2006 Groundwater Resources, Edgewater, NJ	**Report Date**	11/16/2006 5:37:40 PM

11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 10/24/2006 and were received at Accutest on 10/24/2006 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of J44566. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP36637

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44566-1MS, J44566-1MSD, J44566-1SDL were used as the QC samples for metals.
- J44566-1 for Arsenic: Elevated detection limit due to dilution required for high interfering element.

Matrix AQ **Batch ID:** MP36716

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44566-1FMSD, J44566-1FSDL, J44566-1FMS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method EPA 350.1/LACHAT

Matrix AQ **Batch ID:** GP36331

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44566-1DUP, J44566-1MS were used as the QC samples for Nitrogen, Ammonia.

Wet Chemistry By Method EPA 351.2/LACHAT

Matrix AQ **Batch ID:** GP36334

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44566-1DUP, J44566-1MS were used as the QC samples for Nitrogen, Total Kjeldahl.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J44566).

Summary of Hits

Job Number: J44566
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/24/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44566-1	**MW-C-102406**					
Arsenic [a]		880	10	4.0	ug/l	SW846 6010B
Iron		11500	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		3.0	0.40	0.064	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		7.9	0.60	0.18	mg/l	EPA 351.2/LACHAT
J44566-1F	**MW-C-102406-F**					
Iron		10300	100	25	ug/l	SW846 6010B
J44566-2	**MW-F-102406**					
Arsenic		77.3	2.0	0.79	ug/l	SW846 6010B
Iron		7480	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		3.4	0.60	0.096	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		8.0	0.60	0.18	mg/l	EPA 351.2/LACHAT
J44566-2F	**MW-F-102406-F**					
Iron		7030	100	25	ug/l	SW846 6010B
J44566-3	**DUP-102406-GW**					
Arsenic		74.7	2.0	0.79	ug/l	SW846 6010B
Iron		7300	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		3.5	0.60	0.096	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		8.8	0.80	0.24	mg/l	EPA 351.2/LACHAT
J44566-3F	**DUP-102406-GW-F**					
Iron		6600	100	25	ug/l	SW846 6010B
J44566-4	**MW-B-102406**					
Arsenic		1230	6.0	2.4	ug/l	SW846 6010B
Iron		90700	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		2.9	0.40	0.064	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		7.2	0.60	0.18	mg/l	EPA 351.2/LACHAT
J44566-4F	**MW-B-102406-F**					
Iron		93200	100	25	ug/l	SW846 6010B

Summary of Hits

Job Number: J44566
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/24/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44566-5	**MW-113B-102426**					
Arsenic		9110	40	16	ug/l	SW846 6010B
Iron		193000	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		10.1	1.2	0.19	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		21.4	2.0	0.60	mg/l	EPA 351.2/LACHAT
J44566-5F	**MW-113B-102426-F**					
Iron		175000	100	25	ug/l	SW846 6010B
J44566-6	**EB-102406-GW**					
Iron		30.4 B	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		0.048 B	0.20	0.032	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		0.17 B	0.20	0.060	mg/l	EPA 351.2/LACHAT

(a) Elevated detection limit due to dilution required for high interfering element.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-C-102406		
Lab Sample ID:	J44566-1	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic [a]	880	10	4.0	ug/l	5	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	11500	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-C-102406		
Lab Sample ID:	J44566-1	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	3.0	0.40	0.064	mg/l	2	11/15/06 12:45	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	7.9	0.60	0.18	mg/l	3	11/14/06 10:47	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-C-102406-F		
Lab Sample ID:	J44566-1F	**Date Sampled:**	10/24/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	10300	100	25	ug/l	1	11/09/06	11/10/06	ND	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA18341
(2) Prep QC Batch: MP36716

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-F-102406		
Lab Sample ID:	J44566-2	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	77.3	2.0	0.79	ug/l	1	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	7480	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-F-102406		
Lab Sample ID:	J44566-2	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	3.4	0.60	0.096	mg/l	3	11/15/06 12:47	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	8.0	0.60	0.18	mg/l	3	11/14/06 10:47	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-F-102406-F		
Lab Sample ID:	J44566-2F	**Date Sampled:**	10/24/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	7030	100	25	ug/l	1	11/09/06	11/10/06	ND	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA18341
(2) Prep QC Batch: MP36716

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-102406-GW		
Lab Sample ID:	J44566-3	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	74.7	2.0	0.79	ug/l	1	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	7300	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-102406-GW		
Lab Sample ID:	J44566-3	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	3.5	0.60	0.096	mg/l	3	11/15/06 12:47	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	8.8	0.80	0.24	mg/l	4	11/14/06 10:48	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-102406-GW-F		
Lab Sample ID:	J44566-3F	**Date Sampled:**	10/24/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6600	100	25	ug/l	1	11/09/06	11/10/06	ND	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA18341
(2) Prep QC Batch: MP36716

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-B-102406		
Lab Sample ID:	J44566-4	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1230	6.0	2.4	ug/l	3	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	90700	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-B-102406		
Lab Sample ID:	J44566-4	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	2.9	0.40	0.064	mg/l	2	11/15/06 12:48	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	7.2	0.60	0.18	mg/l	3	11/14/06 10:49	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-B-102406-F		
Lab Sample ID:	J44566-4F	**Date Sampled:**	10/24/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	93200	100	25	ug/l	1	11/09/06	11/10/06	ND	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA18341
(2) Prep QC Batch: MP36716

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-113B-102426		
Lab Sample ID:	J44566-5	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	9110	40	16	ug/l	20	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	193000	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-113B-102426		
Lab Sample ID:	J44566-5	**Date Sampled:**	10/24/06
Matrix:	AQ - Ground Water	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	10.1	1.2	0.19	mg/l	6	11/15/06 12:48	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	21.4	2.0	0.60	mg/l	10	11/14/06 10:50	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-113B-102426-F		
Lab Sample ID:	J44566-5F	**Date Sampled:**	10/24/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	175000	100	25	ug/l	1	11/09/06	11/10/06	ND	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA18341
(2) Prep QC Batch: MP36716

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-102406-GW		
Lab Sample ID:	J44566-6	**Date Sampled:**	10/24/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.79 U	2.0	0.79	ug/l	1	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	30.4 B	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-102406-GW		
Lab Sample ID:	J44566-6	**Date Sampled:**	10/24/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/24/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	0.048 B	0.20	0.032	mg/l	1	11/15/06 12:11	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	0.17 B	0.20	0.060	mg/l	1	11/14/06 09:49	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SW, FB

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

J44566

Sampling Co.:	CH2M HILL	Privileged & Confidential	
Client Contact: (name, co., address)	Jennifer Simms 1700 Market Street, Suite 1600 Philadelphia, PA 19103	EDD To:	john.mitchell@ch2m.com, amy.klopper@ch2m.com
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com	Sampler:	L. Baechler/D Reimer
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com	PO #	
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608	Analysis Turnaround Time (TAT): Consultant	CH2M
Invoice To:	jennifer.simms@ch2m.com	Full Report TAT:	

Site Name:	Quanta Resources (Edgewater)	Phase:	
Location of Site:	Edgewater, NJ	Sampling Program	Quanta 2006 OU1 SI

AESI Ref:	39010.55918
COC#	30916-XXXX GW
Lab Proj # (SDG):	
Lab ID	ACTD
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywel
Text & Excel File Drive	Excel & Text F Order

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	SW6010 Arsenic (Total Iron)	SW6010 Iron (Dissolved)	E350.2 - Ammonia	Total Kjedahl Nitrogen	Sampling Method (code)	Lab Samp Numbers
											Units							
1	MW-C	12.48	12.45	MW-C-102406	10/24/06	9:20	REG	GW		3	✓	✓	X	X	X	X		
2	MW-C	12.48	12.45	MW-C-102406	10/24/06	9:20	MS	GW		3	✓	✓	X	X	X	X	AMET13, WC16	
3	MW-C	12.48	12.45	MW-C-102406	10/24/06	9:20	MSD	GW		3	✓	✓	X	X	X	X		
4	MW-F	9.89	9.84	MW-F-102406	10/24/06	9:35	REG	GW		3	✓	✓	X	X	X	X		
5	~~MW-F~~			~~MW-F-102406~~	~~10/24/06~~		~~MS~~	~~GW~~		~~3~~			~~X~~	~~X~~	~~X~~	~~X~~ (5)		
6	~~MW-F~~			~~MW-F-102406~~	~~10/24/06~~		~~MSD~~	~~GW~~		~~3~~			~~X~~	~~X~~	~~X~~	~~X~~ (5)		
7	MW-F	9.89	9.84	DUP-102406-GW	10/24/06	9:35	DUP	GW		3	✓	✓	X	X	X	X		
8	MW-B	10.32	10.42	MW-B-102406	10/24/06	13:25	REG	GW	✱	1	✓	✓	X	X	X	X		
9	MW113B	4.86	4.94	MW-113B-102426	10/24/06	13:20	REG	GW	✱	1	✓	✓	X	X	X	X		
10	EB	N/A	N/A	EB-102406-GW	10/24/06		EB	GW	A	1	✓	✓	X	X	X	X		
11																		
12																		

Relinquished by	Company: CH2M HILL	Received by	Company	Condition		Custody Seals Intact	
Kimberly L Stock	Date/Time: 10/24/06 16:00	Priority	Date/Time	Cooler Temp.			
Relinquished by	Company	Received by	Company	Condition		Custody Seals Intact	
Priority	Date/Time: 10-24-06 18:15	S W	Date/Time: 10 24 06 1815	Cooler Temp.			

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HN (pH<2), 4Deg C); 11 (4N NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

✱ recd 3 vols 10/24/06 pwd
Δ recd vol for total metals and AMM/TKN 10/24/06 pwd no diss vol.
Vanish BTMSV DISMETALS IS NOT NEEDED FOR SAMPLE-6
ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE
3.6 °C

J44566: Chain of Custody
Page 1 of 1

New Jersey ACCUTEST LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 Groundwater Resources, Edgewater, NJ

Quanta 2006 OU1 SI

Accutest Job Number: J44691

Sampling Date: 10/25/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **27**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J44691

Quanta 2006 Groundwater Resources, Edgewater, NJ
Project No: Quanta 2006 OU1 SI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44691-1	10/25/06	10:35		10/25/06	AQ	Ground Water	MW-N-1-102506
J44691-1D	10/25/06	10:35		10/25/06	AQ	Ground Water	MW-N-1-102506
J44691-1F	10/25/06	10:35		10/25/06	AQ	Groundwater Filtered	MW-N-1-102506-F
J44691-1FD	10/25/06	10:35		10/25/06	AQ	Water Dup/MSD	MW-N-1-102506-F
J44691-1FS	10/25/06	10:35		10/25/06	AQ	Water Matrix Spike	MW-N-1-102506-F
J44691-1S	10/25/06	10:35		10/25/06	AQ	Ground Water	MW-N-1-102506
J44691-2	10/25/06	10:40		10/25/06	AQ	Ground Water	MW-N-2-102506
J44691-2F	10/25/06	10:40		10/25/06	AQ	Groundwater Filtered	MW-N-2-102506-F
J44691-3	10/25/06	10:20		10/25/06	AQ	Ground Water	MW-O-102506
J44691-3F	10/25/06	10:20		10/25/06	AQ	Groundwater Filtered	MW-O-102506-F
J44691-4	10/25/06	00:00		10/25/06	AQ	Ground Water	DUP-102506-GW
J44691-4F	10/25/06	00:00		10/25/06	AQ	Groundwater Filtered	DUP-102506-GW-F
J44691-5	10/25/06	15:45		10/25/06	AQ	Ground Water	MW-A-2-102506

Sample Summary
(continued)

CH2M Hill

Job No: J44691

Quanta 2006 Groundwater Resources, Edgewater, NJ
Project No: Quanta 2006 OU1 SI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44691-5F	10/25/06	15:45		10/25/06	AQ	Groundwater Filtered	MW-A-2-102506-F
J44691-6	10/25/06	15:00		10/25/06	AQ	Ground Water	MW-E-102506

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J44691
Site:	Quanta 2006 Groundwater Resources, Edgewater, NJ	**Report Date**	11/17/2006 10:51:01 A

11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 10/25/2006 and were received at Accutest on 10/25/2006 properly preserved, at 6 Deg. C and intact. These Samples received an Accutest job number of J44691. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP36733

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44691-1SDL, J44691-1MS, J44691-1MSD were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Arsenic are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- Matrix Spike Duplicate Recovery(s) for Arsenic, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Matrix AQ **Batch ID:** MP36734

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44691-1FMSD, J44691-1FSDL, J44691-1FMS were used as the QC samples for metals.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method EPA 350.1/LACHAT

Matrix AQ **Batch ID:** GP36377

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44691-1DUP, J44691-1MS were used as the QC samples for Nitrogen, Ammonia.
- Matrix Spike Recovery(s) for Nitrogen, Ammonia are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method EPA 351.2/LACHAT

Matrix AQ **Batch ID:** GP36367

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44691-1DUP, J44691-1MS were used as the QC samples for Nitrogen, Total Kjeldahl.
- Matrix Spike Recovery(s) for Nitrogen, Total Kjeldahl are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J44691).

Summary of Hits

Job Number: J44691
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/25/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44691-1	**MW-N-1-102506**					
Arsenic		1590000	800	450	ug/l	SW846 6010B
Iron		29500	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		16.1	2.0	0.32	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		40.6	3.0	0.90	mg/l	EPA 351.2/LACHAT
J44691-1F	**MW-N-1-102506-F**					
Iron		26400	100	25	ug/l	SW846 6010B
J44691-2	**MW-N-2-102506**					
Arsenic		17900	8.0	4.5	ug/l	SW846 6010B
Iron		6540	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		0.98	0.20	0.032	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		3.7	0.20	0.060	mg/l	EPA 351.2/LACHAT
J44691-2F	**MW-N-2-102506-F**					
Iron		6050	100	25	ug/l	SW846 6010B
J44691-3	**MW-O-102506**					
Arsenic		214	8.0	4.5	ug/l	SW846 6010B
Iron		16100	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		7.0	1.0	0.16	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		18.0	1.2	0.36	mg/l	EPA 351.2/LACHAT
J44691-3F	**MW-O-102506-F**					
Iron		13800	100	25	ug/l	SW846 6010B
J44691-4	**DUP-102506-GW**					
Arsenic		216	8.0	4.5	ug/l	SW846 6010B
Iron		16500	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		7.2	1.0	0.16	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		18.7	1.2	0.36	mg/l	EPA 351.2/LACHAT
J44691-4F	**DUP-102506-GW-F**					
Iron		13400	100	25	ug/l	SW846 6010B

Summary of Hits

Job Number: J44691
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/25/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44691-5	**MW-A-2-102506**					
Arsenic		75700	40	23	ug/l	SW846 6010B
Iron		369000	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		4.4	0.60	0.096	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		12.9	1.0	0.30	mg/l	EPA 351.2/LACHAT
J44691-5F	**MW-A-2-102506-F**					
Iron		369000	100	25	ug/l	SW846 6010B
J44691-6	**MW-E-102506**					
Arsenic		31.8	8.0	4.5	ug/l	SW846 6010B

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-N-1-102506		
Lab Sample ID:	J44691-1	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1590000	800	450	ug/l	100	11/10/06	11/15/06	ND	SW846 6010B [2]	SW846 3010A [3]
Iron	29500	100	25	ug/l	1	11/10/06	11/10/06	ND	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18351
(2) Instrument QC Batch: MA18361
(3) Prep QC Batch: MP36733

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-N-1-102506		
Lab Sample ID:	J44691-1	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	16.1	2.0	0.32	mg/l	10	11/15/06 12:42	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	40.6	3.0	0.90	mg/l	15	11/15/06 10:10	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-N-1-102506-F		
Lab Sample ID:	J44691-1F	**Date Sampled:**	10/25/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	26400	100	25	ug/l	1	11/10/06	11/11/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18346
(2) Prep QC Batch: MP36734

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-N-2-102506		
Lab Sample ID:	J44691-2	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	17900	8.0	4.5	ug/l	1	11/10/06	11/14/06	ND	SW846 6010B [2]	SW846 3010A [3]
Iron	6540	100	25	ug/l	1	11/10/06	11/10/06	ND	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18351
(2) Instrument QC Batch: MA18361
(3) Prep QC Batch: MP36733

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-N-2-102506		
Lab Sample ID:	J44691-2	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	0.98	0.20	0.032	mg/l	1	11/15/06 11:56	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	3.7	0.20	0.060	mg/l	1	11/15/06 09:43	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-N-2-102506-F		
Lab Sample ID:	J44691-2F	**Date Sampled:**	10/25/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6050	100	25	ug/l	1	11/10/06	11/11/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18346
(2) Prep QC Batch: MP36734

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-O-102506		
Lab Sample ID:	J44691-3	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	214	8.0	4.5	ug/l	1	11/10/06	11/14/06	ND	SW846 6010B [2]	SW846 3010A [3]
Iron	16100	100	25	ug/l	1	11/10/06	11/10/06	ND	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18351
(2) Instrument QC Batch: MA18361
(3) Prep QC Batch: MP36733

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-O-102506		
Lab Sample ID:	J44691-3	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	7.0	1.0	0.16	mg/l	5	11/15/06 12:43	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	18.0	1.2	0.36	mg/l	6	11/15/06 10:11	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-O-102506-F		
Lab Sample ID:	J44691-3F	**Date Sampled:**	10/25/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	13800	100	25	ug/l	1	11/10/06	11/11/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18346
(2) Prep QC Batch: MP36734

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-102506-GW		
Lab Sample ID:	J44691-4	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	216	8.0	4.5	ug/l	1	11/10/06	11/14/06	ND	SW846 6010B [2]	SW846 3010A [3]
Iron	16500	100	25	ug/l	1	11/10/06	11/10/06	ND	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18351
(2) Instrument QC Batch: MA18361
(3) Prep QC Batch: MP36733

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-102506-GW		
Lab Sample ID:	J44691-4	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	7.2	1.0	0.16	mg/l	5	11/15/06 12:44	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	18.7	1.2	0.36	mg/l	6	11/15/06 10:12	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-102506-GW-F		
Lab Sample ID:	J44691-4F	**Date Sampled:**	10/25/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	13400	100	25	ug/l	1	11/10/06	11/11/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18346
(2) Prep QC Batch: MP36734

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-A-2-102506		
Lab Sample ID:	J44691-5	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	75700	40	23	ug/l	5	11/10/06	11/14/06	ND	SW846 6010B [2]	SW846 3010A [3]
Iron	369000	100	25	ug/l	1	11/10/06	11/10/06	ND	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18351
(2) Instrument QC Batch: MA18361
(3) Prep QC Batch: MP36733

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-A-2-102506		
Lab Sample ID:	J44691-5	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	4.4	0.60	0.096	mg/l	3	11/15/06 12:44	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	12.9	1.0	0.30	mg/l	5	11/15/06 10:13	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-A-2-102506-F		
Lab Sample ID:	J44691-5F	**Date Sampled:**	10/25/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	369000	100	25	ug/l	1	11/10/06	11/11/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18346
(2) Prep QC Batch: MP36734

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-E-102506		
Lab Sample ID:	J44691-6	**Date Sampled:**	10/25/06
Matrix:	AQ - Ground Water	**Date Received:**	10/25/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	31.8	8.0	4.5	ug/l	1	11/10/06	11/14/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18361
(2) Prep QC Batch: MP36733

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell Chain Of Custody / Analysis Request

J44691

AESI Ref:	39010.55918
COC#	30916-XXXXX GW
Lab Proj # (SDG):	
Lab ID	ACTD
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text F Order

Privileged & Confidential

Site Name: Quanta Resources (Edgewater)
Phase:
Location of Site: Edgewater, NJ
Sampling Program: Quanta 2006 OU1 SI

Sampling Co.: CH2M HILL
EDD To: john.mitchell@ch2m.com, amy.klopper@ch2m.com
Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103
Sampler:
PO #
Analysis Turnaround Time (TAT):
Consultant: CH2M
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To: jennifer.simms@ch2m.com
Full Report TAT:

Preservative

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite Grab	Field Filtered Sample ?	SW6010 Arsenic + Total Fe	SW6010 Iron Dissolved	E350.2 - Ammonia	Total Kjedahl Nitrogen		Sampling Method (code)	Lab Sample Numbers
											Units								
1	MW-N-1	6.95	7.35	MW-N-1-102506	10/25/06	10:35	REG	GW	—	3	X	✓	X	X	X	X			
2	MW-N-1	"	"	MW-N-1-102506	"	"	MS	GW	—	3	X	✓	X	X	X	X	-1F	ME21,	
3	MW-N-1	"	"	MW-N-1-102506	"	"	MSD	GW	—	3	X	✓	X	X	X	X		WC16	
4	MW-N-2	5.08	5.92	MW-N-2-102506	10/25/06	10:40	REG	GW	—	3	X	✓	X	X	X	X	-2F		
5	MW-O	12.0	12.5	MW-O-102506	10/25/06	10:20	REG	GW	—	3	X	✓	X	X	X	X	-3F		
6	DUP	—	—	DUP-102506-GW	10/25/06	N/A	DUP	GW	—	3	X	✓	X	X	X	X	-4F		
7	MW-A-2	12.16	12.31	MW-A-2-102506	10/25/06	15:45	REG	GW	—	3	X	✓	X	X	X	X	-5F		
8	MW-E	11.24	11.51	MW-E-102506	10/25/06	15:00	REG	GW	—	~~3~~ 1	X	~~✓~~	~~X~~	~~X~~	~~X~~	~~X~~	-6		
9											L Arsenic only								
10																			
11																			
12																			

Rand 1 Cooler 10/25/06

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	CH2M HILL	10/25/06 16:16	[signature]	Accutest	10/25/06 16:16			
[signature]		10/25/06 1850	[signature]		10/25/06 1850			

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

6 rDC

A

5.1

5

J44691: Chain of Custody
Page 1 of 1

New Jersey ACCUTEST LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 Groundwater Resources, Edgewater, NJ

Quanta 2006 OU1 SI

Accutest Job Number: J44799

Sampling Dates: 10/25/06 - 10/26/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **28**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J44799

Quanta 2006 Groundwater Resources, Edgewater, NJ
Project No: Quanta 2006 OU1 SI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44799-1	10/25/06	16:00	KS	10/26/06	AQ	Equipment Blank	EB-102506-GW
J44799-2	10/26/06	10:20	KS	10/26/06	AQ	Ground Water	MW-107-A-102606
J44799-2F	10/26/06	10:20	KS	10/26/06	AQ	Groundwater Filtered	MW-107-A-102606-F
J44799-3	10/26/06	10:10	KS	10/26/06	AQ	Ground Water	MW-109-A-102606
J44799-3F	10/26/06	10:10	KS	10/26/06	AQ	Groundwater Filtered	MW-109-A-102606-F
J44799-4	10/26/06	10:25	KS	10/26/06	AQ	Ground Water	MW-36-102606
J44799-4F	10/26/06	10:25	KS	10/26/06	AQ	Groundwater Filtered	MW-36-102606-F
J44799-5	10/26/06	13:25	KS	10/26/06	AQ	Ground Water	MW-N-3-102606
J44799-6	10/26/06	13:15	KS	10/26/06	AQ	Ground Water	MW-20-102606
J44799-7	10/26/06	13:35	KS	10/26/06	AQ	Ground Water	MW-111-B-102606
J44799-7F	10/26/06	13:35	KS	10/26/06	AQ	Groundwater Filtered	MW-111-B-102606-F
J44799-8	10/26/06	14:30	KS	10/26/06	AQ	Equipment Blank	EB-102606-GW

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J44799
Site:	Quanta 2006 Groundwater Resources, Edgewater, NJ	**Report Date**	11/21/2006 12:29:24 P

8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 10/25/2006 and 10/26/2006 and were received at Accutest on 10/26/2006 properly preserved, at 5.0 Deg. C and intact. These Samples received an Accutest job number of J44799. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP36637

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44566-1MS, J44566-1MSD, J44566-1SDL were used as the QC samples for metals.

Matrix AQ **Batch ID:** MP36767

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44799-2FMSD, J44799-2FSDL, J44799-2FMS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- MP36767-SD1 for Iron: Serial dilution indicates possible matrix interference.

Wet Chemistry By Method EPA 350.1/LACHAT

Matrix AQ **Batch ID:** GP36378

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44799-2DUP, J44799-2MS were used as the QC samples for Nitrogen, Ammonia.

Wet Chemistry By Method EPA 351.2/LACHAT

Matrix AQ **Batch ID:** GP36367

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44691-1DUP, J44691-1MS were used as the QC samples for Nitrogen, Total Kjeldahl.
- Matrix Spike Recovery(s) for Nitrogen, Total Kjeldahl are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J44799).

Summary of Hits

Job Number: J44799
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/25/06 thru 10/26/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44799-1	**EB-102506-GW**					
Nitrogen, Total Kjeldahl		0.081 B	0.20	0.060	mg/l	EPA 351.2/LACHAT
J44799-2	**MW-107-A-102606**					
Arsenic		19500	50	20	ug/l	SW846 6010B
Iron		401000	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		7.0	1.0	0.16	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		21.7	2.0	0.60	mg/l	EPA 351.2/LACHAT
J44799-2F	**MW-107-A-102606-F**					
Iron		394000	100	25	ug/l	SW846 6010B
J44799-3	**MW-109-A-102606**					
Arsenic		1860	10	4.0	ug/l	SW846 6010B
Iron		2410	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		2.9	0.40	0.064	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		8.2	0.60	0.18	mg/l	EPA 351.2/LACHAT
J44799-3F	**MW-109-A-102606-F**					
Iron		1040	100	25	ug/l	SW846 6010B
J44799-4	**MW-36-102606**					
Arsenic		3510	20	7.9	ug/l	SW846 6010B
Iron		282	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		5.2	0.80	0.13	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		13.2	1.0	0.30	mg/l	EPA 351.2/LACHAT
J44799-4F	**MW-36-102606-F**					
Iron		26.5 B	100	25	ug/l	SW846 6010B
J44799-5	**MW-N-3-102606**					
Arsenic		4.1	2.0	0.79	ug/l	SW846 6010B
J44799-6	**MW-20-102606**					
Arsenic		102	2.0	0.79	ug/l	SW846 6010B

Summary of Hits

Job Number: J44799
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/25/06 thru 10/26/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44799-7	**MW-111-B-102606**					
Arsenic		50200	200	79	ug/l	SW846 6010B
Iron		137000	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		4.1	0.60	0.096	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		9.7	0.80	0.24	mg/l	EPA 351.2/LACHAT
J44799-7F	**MW-111-B-102606-F**					
Iron		129000	100	25	ug/l	SW846 6010B
J44799-8	**EB-102606-GW**					
Iron		66.7 B	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		0.035 B	0.20	0.032	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		1.5	0.20	0.060	mg/l	EPA 351.2/LACHAT

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	EB-102506-GW		
Lab Sample ID:	J44799-1	**Date Sampled:**	10/25/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.79 U	2.0	0.79	ug/l	1	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	25 U	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-102506-GW		
Lab Sample ID:	J44799-1	**Date Sampled:**	10/25/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	0.032 U	0.20	0.032	mg/l	1	11/15/06 12:55	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	0.081 B	0.20	0.060	mg/l	1	11/15/06 09:46	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-107-A-102606		
Lab Sample ID:	J44799-2	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	19500	50	20	ug/l	25	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	401000	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-107-A-102606		
Lab Sample ID:	J44799-2	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	7.0	1.0	0.16	mg/l	5	11/15/06 12:49	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	21.7	2.0	0.60	mg/l	10	11/15/06 10:14	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-107-A-102606-F		
Lab Sample ID:	J44799-2F	**Date Sampled:**	10/26/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	394000	100	25	ug/l	1	11/13/06	11/15/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18360
(2) Prep QC Batch: MP36767

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-109-A-102606		
Lab Sample ID:	J44799-3	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1860	10	4.0	ug/l	5	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	2410	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-109-A-102606		
Lab Sample ID:	J44799-3	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	2.9	0.40	0.064	mg/l	2	11/15/06 12:50	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	8.2	0.60	0.18	mg/l	3	11/15/06 10:14	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-109-A-102606-F		
Lab Sample ID:	J44799-3F	**Date Sampled:**	10/26/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1040	100	25	ug/l	1	11/13/06	11/15/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18360
(2) Prep QC Batch: MP36767

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-36-102606		
Lab Sample ID:	J44799-4	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3510	20	7.9	ug/l	10	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	282	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-36-102606		
Lab Sample ID:	J44799-4	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	5.2	0.80	0.13	mg/l	4	11/15/06 12:50	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	13.2	1.0	0.30	mg/l	5	11/15/06 10:15	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-36-102606-F		
Lab Sample ID:	J44799-4F	**Date Sampled:**	10/26/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	26.5 B	100	25	ug/l	1	11/13/06	11/15/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18360
(2) Prep QC Batch: MP36767

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-N-3-102606		
Lab Sample ID:	J44799-5	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.1	2.0	0.79	ug/l	1	11/03/06	11/08/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18337
(2) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-20-102606		
Lab Sample ID:	J44799-6	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	102	2.0	0.79	ug/l	1	11/03/06	11/08/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18337
(2) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-111-B-102606		
Lab Sample ID:	J44799-7	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	50200	200	79	ug/l	100	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	137000	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-111-B-102606		
Lab Sample ID:	J44799-7	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	4.1	0.60	0.096	mg/l	3	11/15/06 12:51	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	9.7	0.80	0.24	mg/l	4	11/15/06 10:16	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-111-B-102606-F		
Lab Sample ID:	J44799-7F	**Date Sampled:**	10/26/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	129000	100	25	ug/l	1	11/13/06	11/15/06	ND	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18360
(2) Prep QC Batch: MP36767

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-102606-GW		
Lab Sample ID:	J44799-8	**Date Sampled:**	10/26/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.79 U	2.0	0.79	ug/l	1	11/03/06	11/08/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	66.7 B	100	25	ug/l	1	11/03/06	11/04/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18312
(2) Instrument QC Batch: MA18337
(3) Prep QC Batch: MP36637

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-102606-GW		
Lab Sample ID:	J44799-8	**Date Sampled:**	10/26/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/26/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	0.035 B	0.20	0.032	mg/l	1	11/15/06 12:56	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	1.5	0.20	0.060	mg/l	1	11/15/06 09:52	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FB. SW

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

J44799

AESI Ref: 39010.55918
COC# 30916-102606-GW-AL (30916-XXXX-GW)
Lab Proj # (SDG):
Lab ID: ACTD
Site ID: Quanta
Lab Job #:
Authorized User: Honeywel
Text & Excel File Drive: Excel & Text F Order

Sampling Co.:	CH2M HILL	Privileged & Confidential	
Client Contact: (name, co., address)		EDD To:	john.mitchell@ch2m.com, amy.klopper@ch2m.com
Jennifer Simms		Sampler:	K Stokes/D Reamer/L Boechler
1700 Market Street, Suite 1800		PO #	
Philadelphia, PA 19103		Analysis Turnaround Time (TAT):	
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com	Consultant	CH2M
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608	Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com		

Site Name:	Quanta Resources (Edgewater)	Phase:
Location of Site:	Edgewater, NJ	Sampling Program: Quanta 2006 OU1 SI

Preservative: HNO3 HNO3 — —

Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	SW6010 Arsenic + Total Fe	SW6010 Iron (DISS)	E350.2 - Ammonia	Total Kjeldahl Nitrogen			Sampling Method (code)	Lab Sample Numbers
									Units	G	F								
1 EB	—	—	EB-102506-GW	10/25/06	16:00	GW	W	EB	2	G	F	X	—	X	X	-	1		
2 MW-107-A	—	—	MW-107-A-102606	10/26/06	10:25	GW	W	REG	3	G	F	X	X	X	X	-	2F	ME12,	
3 MW-109-A	—	—	MW-109-A-102606	10/26/06	10:10	GW	W	REG	3	G	F	X	X	X	X	-	3F	WC15	
4 MW-36	—	—	MW-36-102606	10/26/06	10:25	GW	W	REG	3	G	F	X	X	X	X	-	4F		
5 MW-N-3	—	—	MW-N-3-102606	10/26/06	13:25	GW	W	REG	1	G	F	X*				-	5		
6 MW-20	—	—	MW-20-102606	10/26/06	13:15	GW	W	REG	1	G	F	X*				-	6		
7 MW-111-B	—	—	MW-111-B-102606	10/26/06	13:35	GW	W	REG	3	G	F	X	X	X	X	-	7F		
8 EB	—	—	EB-102606-GW	10/26/06	14:30	GW	W	EB	2	G	F	X		X	X	-	8		
9																			
10																			
11																			
12																			

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	CH2M HILL	Gus Koban		Cooler Temp.	
Date/Time: 10/26/06 1600			Date/Time:		
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
Gus Koban				Cooler Temp. 5.0°C	
Date/Time: 10/26/06 18:15			Date/Time: 10/26/06 18:15		

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HN
(pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

* Arsenic only

metals VIS iced under preserved, preserved in sample management @ Lot # C30060 10/26/06 PM

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE PM

NA

2A

5.1 5

J44799: Chain of Custody
Page 1 of 1

New Jersey
ACCUTEST LABORATORIES

10/06/15

Technical Report for

CH2M Hill

Quanta 2006 Groundwater Resources, Edgewater, NJ

Accutest Job Number: J44876

Sampling Dates: 10/26/06 - 10/27/06

Report to:

CH2M Hill

Theresa.Himmer@CH2M.com

ATTN: Theresa Himmer

Total number of pages in report: **22**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

CH2M Hill

Job No: J44876

Quanta 2006 Groundwater Resources, Edgewater, NJ

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J44876-1	10/26/06	17:25	DR	10/27/06	AQ	Ground Water	MW-L-102606
J44876-1F	10/26/06	17:25	DR	10/27/06	AQ	Groundwater Filtered	MW-L-102606-F
J44876-2	10/26/06	17:45	DR	10/27/06	AQ	Ground Water	MW-M-102606
J44876-3	10/26/06	19:10	DR	10/27/06	AQ	Ground Water	MW-H-102606
J44876-4	10/26/06	20:25	DR	10/27/06	AQ	Ground Water	ACMW-1-102606
J44876-5	10/26/06	21:05	DR	10/27/06	AQ	Ground Water	MW-114B-102606
J44876-5F	10/26/06	21:05	DR	10/27/06	AQ	Groundwater Filtered	MW-114B-102606-F
J44876-6	10/27/06	10:10	DR	10/27/06	AQ	Ground Water	MW-K-102706
J44876-7	10/27/06	08:30	DR	10/27/06	AQ	Equipment Blank	EB-102706-GW
J44876-8	10/27/06	11:25	DR	10/27/06	AQ	Ground Water	ACMW-3-102706
J44876-9	10/27/06	10:10	DR	10/27/06	AQ	Ground Water	MW-22A-102706

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	CH2M Hill	**Job No**	J44876
Site:	Quanta 2006 Groundwater Resources, Edgewater, NJ	**Report Date**	11/17/2006 6:23:00 PM

9 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 10/26/2006 and 10/27/2006 and were received at Accutest on 10/27/2006 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of J44876. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP36777

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44876-2MS, J44876-2MSD, J44876-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP36777-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- J44876-9 for Arsenic: Elevated detection limit due to dilution required for matrix interference.
- J44876-3 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- J44876-6 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- J44876-4 for Arsenic: Elevated detection limit due to dilution required for matrix interference.

Wet Chemistry By Method EPA 350.1/LACHAT

Matrix AQ **Batch ID:** GP36403

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44876-1DUP, J44876-1MS were used as the QC samples for Nitrogen, Ammonia.
- Matrix Spike Recovery(s) for Nitrogen, Ammonia are outside control limits. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method EPA 351.2/LACHAT

Matrix AQ **Batch ID:** GP36303

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J44876-1DUP, J44876-1MS were used as the QC samples for Nitrogen, Total Kjeldahl.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J44876).

Summary of Hits

Job Number: J44876
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/26/06 thru 10/27/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44876-1	**MW-L-102606**					
Arsenic		356	2.0	0.79	ug/l	SW846 6010B
Iron		650	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		3.1	0.40	0.064	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		3.2	0.20	0.060	mg/l	EPA 351.2/LACHAT
J44876-1F	**MW-L-102606-F**					
Iron		56.9 B	100	25	ug/l	SW846 6010B
J44876-2	**MW-M-102606**					
Arsenic		2.3	2.0	0.79	ug/l	SW846 6010B
J44876-3	**MW-H-102606**					
Arsenic [a]		22.2	4.0	1.6	ug/l	SW846 6010B
J44876-4	**ACMW-1-102606**					
No hits reported in this sample.						
J44876-5	**MW-114B-102606**					
Arsenic		6820	20	7.9	ug/l	SW846 6010B
Iron		70300	100	25	ug/l	SW846 6010B
Nitrogen, Ammonia		10.5	2.0	0.32	mg/l	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl		12.2	1.2	0.36	mg/l	EPA 351.2/LACHAT
J44876-5F	**MW-114B-102606-F**					
Iron		77500	100	25	ug/l	SW846 6010B
J44876-6	**MW-K-102706**					
Arsenic [a]		27.1	4.0	1.6	ug/l	SW846 6010B
J44876-7	**EB-102706-GW**					
No hits reported in this sample.						
J44876-8	**ACMW-3-102706**					
Arsenic		2.6	2.0	0.79	ug/l	SW846 6010B

Summary of Hits

Job Number: J44876
Account: CH2M Hill
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ
Collected: 10/26/06 thru 10/27/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
J44876-9	**MW-22A-102706**					
Arsenic [b]		10.4	10	4.0	ug/l	SW846 6010B

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Elevated detection limit due to dilution required for matrix interference.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-L-102606		
Lab Sample ID:	J44876-1	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	356	2.0	0.79	ug/l	1	11/13/06	11/16/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	650	100	25	ug/l	1	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18368
(2) Instrument QC Batch: MA18372
(3) Prep QC Batch: MP36777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-L-102606		
Lab Sample ID:	J44876-1	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	3.1	0.40	0.064	mg/l	2	11/16/06 11:02	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	3.2	0.20	0.060	mg/l	1	11/10/06 09:58	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-L-102606-F		
Lab Sample ID:	J44876-1F	**Date Sampled:**	10/26/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	56.9 B	100	25	ug/l	1	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18368
(2) Prep QC Batch: MP36777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-M-102606		
Lab Sample ID:	J44876-2	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.3	2.0	0.79	ug/l	1	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18372
(2) Prep QC Batch: MP36777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-H-102606		
Lab Sample ID:	J44876-3	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic [a]	22.2	4.0	1.6	ug/l	2	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18372
(2) Prep QC Batch: MP36777

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	ACMW-1-102606		
Lab Sample ID:	J44876-4	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic [a]	7.9 U	20	7.9	ug/l	10	11/13/06	11/17/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18378
(2) Prep QC Batch: MP36777

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MW-114B-102606
Lab Sample ID: J44876-5
Matrix: AQ - Ground Water
Project: Quanta 2006 Groundwater Resources, Edgewater, NJ

Date Sampled: 10/26/06
Date Received: 10/27/06
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6820	20	7.9	ug/l	10	11/13/06	11/16/06	LH	SW846 6010B [2]	SW846 3010A [3]
Iron	70300	100	25	ug/l	1	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA18368
(2) Instrument QC Batch: MA18372
(3) Prep QC Batch: MP36777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-114B-102606		
Lab Sample ID:	J44876-5	**Date Sampled:**	10/26/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	10.5	2.0	0.32	mg/l	10	11/16/06 11:03	NR	EPA 350.1/LACHAT
Nitrogen, Total Kjeldahl	12.2	1.2	0.36	mg/l	6	11/10/06 11:13	NR	EPA 351.2/LACHAT

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-114B-102606-F		
Lab Sample ID:	J44876-5F	**Date Sampled:**	10/26/06
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	77500	100	25	ug/l	1	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18368
(2) Prep QC Batch: MP36777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-K-102706		
Lab Sample ID:	J44876-6	**Date Sampled:**	10/27/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic [a]	27.1	4.0	1.6	ug/l	2	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18372
(2) Prep QC Batch: MP36777

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-102706-GW		
Lab Sample ID:	J44876-7	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.79 U	2.0	0.79	ug/l	1	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18372
(2) Prep QC Batch: MP36777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	ACMW-3-102706		
Lab Sample ID:	J44876-8	**Date Sampled:**	10/27/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.6	2.0	0.79	ug/l	1	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18372
(2) Prep QC Batch: MP36777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-22A-102706		
Lab Sample ID:	J44876-9	**Date Sampled:**	10/27/06
Matrix:	AQ - Ground Water	**Date Received:**	10/27/06
		Percent Solids:	n/a
Project:	Quanta 2006 Groundwater Resources, Edgewater, NJ		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic [a]	10.4	10	4.0	ug/l	5	11/13/06	11/16/06	LH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA18372
(2) Prep QC Batch: MP36777

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SW, FB

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell Chain Of Custody / Analysis Request

J44876

AESI Ref: 39010.55918
COC# 30916-10270 GW / 30916-XXXXX GW

Privileged & Confidential

Site Name: Quanta Resources (Edgewater)
Phase:
Lab Proj # (SDG):

Sampling Co.: CH2M HILL
EDD To: john.mitchell@ch2m.com, amy.klopper@ch2m.com
Location of Site: Edgewater, NJ
Sampling Program: Quanta 2006 OU1 SI
Lab ID: ACTD
Site ID: Quanta
Lab Job #:
Authorized User: Honeywell

Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103

Sampler: Dave Reamer, Leslie Baechler, Austin Hardcrode
PO #:
Analysis Turnaround Time (TAT):
Consultant: CH2M

Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To: jennifer.simms@ch2m.com
Full Report TAT:

Text & Excel File Drive: Excel & Text File Order

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW6010 Arsenic	SW6010 Iron	E350.2 - Ammonia	Total Kjedahl Nitrogen	SW6010 Dissolved Iron			Sampling Method (code)	Lab Sample Numbers
1	MW-L			MW-L-102606	10.26.06	1725	GW	WATER	REG	3	G	F	X	X	X	X	X	-	1F		
2	MW-M			MW-M-102606	10.26.06	1745	GW	WATER	REG	1	G	N	X					-	2	ME 18,	
3	MW-H			MW-H-102606	10.26.06	1910	GW	WATER	REG	1	G	N	X					-	3	WC38	
4	ACMW-1			ACMW-1-102606	10.26.06	2025	GW	WATER	REG	1	G	N	X					-	4		
5	MW-114B			MW-114B-102606	10.26.06	2105	GW	WATER	REG	3	G	F	X	X	X	X	X	-	5F		
6	MW-K			MW-K-102706	10.27.06	1010	GW	WATER	REG	1	G	N	X					-	6		
7	EB			EB-102706-GW	10.27.06	0830	BLANK	WATER	EB	1	G	N	X					-	7		
8	ACMW-3			ACMW-3-102706	10.27.06	1125	GW	WATER	REG	1	G	N	X					-	8		
9	MW-22A			MW-22A-102706	10.27.06	1010	GW	WATER	REG	1	G	N	X					-	9		
10																					
11																					
12																					

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
[signature]	CH2M HILL	10.27.06 1200	[signature]	1315 1440	10-27-06	Cooler Temp.	786
[signature]	7027	1440 10-27-06	[signature]	10/27/06 1440		Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

1A

2.8°C

5.1

5

J44876: Chain of Custody
Page 1 of 1

New Jersey
ACCUTEST.
Laboratories

01/22/07

Technical Report for

Honeywell International Inc.

CMHLLPAP: Quanta Resources, Edgewater, NJ

Qaunta 2006 OU1 SI

Accutest Job Number: J49912X

Sampling Date: 12/21/06

Report to:

CH2M Hill
3011 S.W. Williston Road
Gainesville, FL 32608-3928

ATTN: Amy Klopper

Total number of pages in report:

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

Honeywell International Inc.

Job No: J49912X

CMHLLPAP: Quanta Resources, Edgewater, NJ
Project No: Qaunta 2006 OU1 SI

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
J49912-1X	12/21/06	10:00	SH	12/21/06	SO	Soil	AD-SS-01-0-0.5
J49912-2X	12/21/06	10:30	SH	12/21/06	SO	Soil	AD-SS-02-0-0.5
J49912-3X	12/21/06	11:00	SH	12/21/06	SO	Soil	AD-SS-03-0-0.5
J49912-4X	12/21/06	11:20	SH	12/21/06	SO	Soil	AD-SS-04-0-0.5
J49912-5X	12/21/06	11:30	SH	12/21/06	SO	Soil	AD-SS-05-0-0.5
J49912-6X	12/21/06	11:50	SH	12/21/06	SO	Soil	AD-SS-06-0-0.5
J49912-7X	12/21/06	12:20	SH	12/21/06	SO	Soil	AD-SS-07-0-0.5
J49912-8X	12/21/06	12:40	SH	12/21/06	SO	Soil	AD-SS-08-0-0.5
J49912-9X	12/21/06	12:50	SH	12/21/06	SO	Soil	AD-SS-09-0-0.5
J49912-10X	12/21/06	13:40	SH	12/21/06	SO	Soil	AD-SS-10-0-0.5
J49912-11X	12/21/06	13:55	SH	12/21/06	SO	Soil	AD-SS-11-0-0.5
J49912-12X	12/21/06	14:10	SH	12/21/06	SO	Soil	AD-SS-12-0-0.5
J49912-13X	12/21/06	00:00	SH	12/21/06	SO	Soil	DUP-122106-AD-SS

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

50

E

Accutest Labs
2235 ROUTE 130
Dayton, NJ 8810
732-329-0200

Honeywell — Chain Of Custody / Analysis Request

JM9912

Sampling Co.:	CH2M HILL	Privileged & Confidential	
Client Contact: (name, co., address)		EDD To:	amy.klopper@ch2m.com, john.mitchell@ch2m.com
Jennifer Simms		Sampler:	Stephen Hoffmann
1700 Market Street, Suite 1600		PO #	
Philadelphia, PA 19103		Analysis Turnaround Time (TAT):	28
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com	Consultant	CH2M
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road,	Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com		

Site Name:	Quanta Resources (Edgewater)	Phase:	
Location of Site:	Edgewater, NJ	Sampling Program	Quanta 2006 OU1 SI

AESI Ref:	39071.73773
COC#	30916-122106-AD-SS-01
Lab Proj # (SDG):	
Lab ID	ACTD
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell

Text & Excel File Drive | Excel & Text File Order

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	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	SW6010 - As, Pb	ASTM D422 - Grain Size Hydrometric	E150.1 - pH	SW9060 - Total Organic Carbon							Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units													
1	AD-SS-01	0.0	0.5	AD-SS-01-0-0.5	12/21/2006	1000	SS	SOIL	REG	2	grab	N	X	X	X	X			-	1				
2	AD-SS-02	0.0	0.5	AD-SS-02-0-0.5	12/21/2006	1030	SS	SOIL	REG	2	grab	N	X	X	X	X			-	2			WCS2, WC1	
3	AD-SS-03	0.0	0.5	AD-SS-03-0-0.5	12/21/2006	1100	SS	SOIL	REG	3	grab	N	X	X	X	X		*	-	3	MS	MSD*		
4	AD-SS-04	0.0	0.5	AD-SS-04-0-0.5	12/21/2006	1120	SS	SOIL	REG	2	grab	N	X	X	X	X			-	4				
5	AD-SS-05	0.0	0.5	AD-SS-05-0-0.5	12/21/2006	1130	SS	SOIL	REG	2	grab	N	X	X	X	X			-	5				
6	AD-SS-06	0.0	0.5	AD-SS-06-0-0.5	12/21/2006	1150	SS	SOIL	REG	2	grab	N	X	X	X	X			-	6				
7	AD-SS-07	0.0	0.5	AD-SS-07-0-0.5	12/21/2006	1220	SS	SOIL	REG	2	grab	N	X	X	X	X			-	7				
8	AD-SS-08	0.0	0.5	AD-SS-08-0-0.5	12/21/2006	1240	SS	SOIL	REG	2	grab	N	X	X	X	X			-	8				
9	AD-SS-09	0.0	0.5	AD-SS-09-0-0.5	12/21/2006	1250	SS	SOIL	REG	2	grab	N	X	X	X	X			-	9				
10	AD-SS-10	0.0	0.5	AD-SS-10-0-0.5	12/21/2006	1340	SS	SOIL	REG	2	grab	N	X	X	X	X			-	10				
11	AD-SS-11	0.0	0.5	AD-SS-11-0-0.5	12/21/2006	1355	SS	SOIL	REG	2	grab	N	X	X	X	X			-	11				
12	AD-SS-12	0.0	0.5	AD-SS-12-0-0.5	12/21/2006	1410	SS	SOIL	REG	2	grab	N	X	X	X	X			-	12				

Relinquished by	Company	CH2M HILL	Received by	Accutest Company		Condition	Custody Seals Intact
Stephen Hoffmann	Date/Time	12/21/06 1500	Pallen 12/21/06	Date/Time 1526		Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
Pallen 12-21-06	1645 Date/Time			12/21/06 1645 Date/Time		Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate), sp (special instructions)

*MS/MSD? 12/26/06 KL

Rec'd Intact 1P

6.0°C

2A

Sample 3 = MS/MSD

Hoffman

12-21-06

PM

90

Accutest Labs	**Honeywell** Chain Of Custody / Analysis Request	J49912	AESI Ref:	39071.74111
2235 ROUTE 130			COC#	30916-122106-AD-SS-02
Dayton, NJ 8810			Lab Proj # (SDG):	
732-329-0200			Lab ID	ACTD
			Site ID	Quanta
			Lab Job #	
			Authorized User:	Honeywell
			Text & Excel File Drive	Excel & Text File Order

Sampling Co.:	CH2M HILL
Client Contact: (name, co., address)	
Jennifer Simms	
1700 Market Street, Suite 1600	
Philadelphia, PA 19103	
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To:	jennifer.simms@ch2m.com

Privileged & Confidential	
EDD To:	amy.klopper@ch2m.com, john.mitchell@ch2m.com
Sampler:	Stephen Hoffmann
PO #	
Analysis Turnaround Time (TAT):	28
Consultant	CH2M
Full Report TAT:	

Site Name:	Quanta Resources (Edgewater)	Phase:	
Location of Site:	Edgewater, NJ	Sampling Program	Quanta 2006 OU1 SI

Preservative: SW8010 - As, Pb: 9; ASTM D422 - Grain Size: 1; E150.1 - pH: 1; SW9060 - Total Organic Carbon: 10; 1; 1; 7

Sample Identification

#	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW8010 - As, Pb	ASTM D422 - Grain Size	E150.1 - pH	SW9060 - Total Organic Carbon						Sampling Method (code)	Lab Sample Numbers
											Units												
1	—	0.0		DUP-122106-AD-SS	12/21/2006	—	SS	SOIL	FD	2	grab	N	X	X	X	X			—	13			
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Relinquished by Stephen Hoffmann [signature]	Company CH2M HILL	Received by [signature] 12-21-06	Company Accutest	Condition	Custody Seals Intact
	Date/Time 12/21/06 ~~0:00~~ 1520		Date/Time 1520	Cooler Temp.	
Relinquished by [signature] 12-21-06	Company	Received by [signature]	Company	Condition	Custody Seals Intact
	Date/Time 1645		Date/Time 12/21/06 1645	Cooler Temp.	

Preservatives: (Other; Specify): 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

Rec intact PP 6.0°C

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CHAIN OF CUSTODY

ACCUTEST
Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
908-329-0200 FAX: 908-329-3499/3480

Accutest Job #:	
Accutest Quote #:	

Client Information	Facility Information
Accutest	
Name: 2235 Route 130	Project Name: HW-QUANTA- Edgewater
Address: Dayton NJ 08810 (City / State / Zip)	Location:
City: Marty Vitanza	Project No.: J49912X
Send Report to: Phone #: (732) 329-0200 X-214	FAX #: (732) 329-3499

Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2So4	None	Grain Size w/ hydro	Analytical Information				
J49912) -1X	12/21/07	10:00	SH	Soil							X					
-2X	12/21/07	10:30	SH	Soil							X					
-3X	12/21/07	11:00	SH	Soil							X					
-4X	12/21/07	11:20	SH	Soil							X					
-5X	12/21/07	11:30	SH	Soil							X					
-6X	12/21/07	11:50	SH	Soil							X					
-7X	12/21/07	12:20	SH	Soil							X					
-8X	12/21/07	12:40	SH	Soil							X					
-9X	12/21/07	12:50	SH	Soil							X					
-10X	12/21/07	13:40	SH	Soil							X					

Turnaround Information

- [ ] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [X] Other ASAP (Days)

21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] State Forms

Comments / Remarks

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	1/16/07 1700	1 Fed X	2		2
3		3	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice ☐

CHAIN OF CUSTODY

ACCUTEST
Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
908-329-0200 FAX: 908-329-3499/3480

Accutest Job #:	
Accutest Quote #:	

Client Information

Accutest

Name: 2235 Route 130

Address: Dayton NJ 08810 (City / State / Zip)

Send Report to: Marty Vitanza

Phone #: (732) 329-0200 X-214

Facility Information

Project Name: HW-QUANTA- Edgewater

Location:

Project No.: J49912X

FAX #: (732) 329-3499

Analytical Information

Field ID / Point of Collection	Collection: Date	Collection: Time	Collection: Sampled By	Matrix	# of bottles	Preservation: HCL	Preservation: NaOH	Preservation: HNO3	Preservation: H2So4	Preservation: None	Grain Size w/ hydro
J49912)-11X	12/21/07	13:55	SH	Soil							X
-12X	12/21/07	14:10	SH	Soil							X
-13X	12/21/07	---	SH	Soil							X

Turnaround Information

- [ ] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [X] Other ASAP (Days)

21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] State Forms

Comments / Remarks

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	1/16/07 1700	1 FedEx	2		2
3		3	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice ☐

Accutest
Subcontractor Order

Date/Time:	1/15/07 3:52 PM	**Sub Lab:**	French & Parrello		
Accutest Job No.	J49912X	**Address:**	1800 Rt 34, Suite 101		
Client Project:	HW-QUANTA- Edgewater		Wall	NJ	07719
CSR:	DJM	**Contact:**	Ron Heller		
		Phone:	312-9727		

Sample #:		Analyses
J49912X -	1X	Grain Size w/ hydro
	2X	Grain Size w/ hydro
	3X	Grain Size w/ hydro
	4X	Grain Size w/ hydro
	5X	Grain Size w/ hydro
	6X	Grain Size w/ hydro
	7X	Grain Size w/ hydro
	8X	Grain Size w/ hydro
	9X	Grain Size w/ hydro
	10X	Grain Size w/ hydro
	Turn Around	ASAP

Sample Managment receipt: _____ **Date:** 1/16/07

(Print form and sign/date. Submit this form to Login Dept. with the SUB COC.)

e/sop_new/subform

Accutest
Subcontractor Order

Date/Time:	1/15/07 3:52 PM	**Sub Lab:**	French & Parrello		
Accutest Job No.	J49912X	**Address:**	1800 Rt 34, Suite 101		
Client Project:	HW-QUANTA- Edgewater		Wall	NJ	07719
CSR:	DJM	**Contact:**	Ron Heller		
		Phone:	312-9727		

Sample #:	Analyses
J49912X - 11X	Grain Size w/ hydro
12X	Grain Size w/ hydro
13X	Grain Size w/ hydro
0	
0	
0	
0	
0	
0	
0	
Turn Around	ASAP

Sample Managment receipt: _____ **Date:** 1/16/07

(Print form and sign/date. Submit this form to Login Dept. with the SUB COC.)

e/sop_new/subform

SUBCONTRACT DATA

FRENCH & PARRELLO
ASSOCIATES, P.A., CONSULTING ENGINEERS

SUMMARY OF LABORATORY TESTING

AASHTO Accreditated Laboratory

PROJECT: Accutest - Honeywell - Quanta - Edgewater (J49912X) **PROJECT #:** 06L017A **DATE:** 1/07

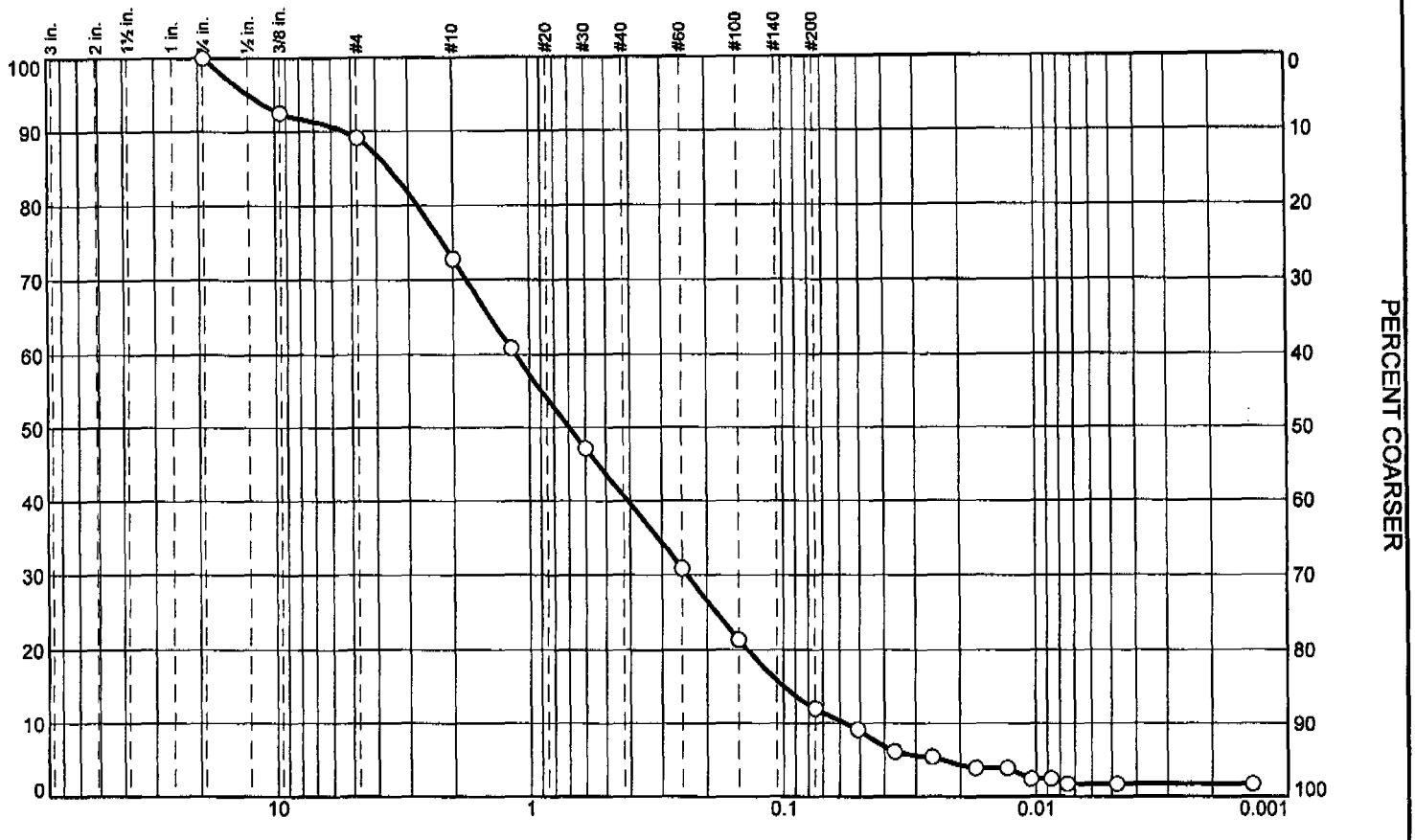
Boring & Sample Number	Depth (ft)	Classification	Natural Water Content %	Atterberg Limits		Unconfined Compression		Unit Dry Weight PCF	Specific Gravity	Permeability cm/sec @ 20 deg C	Compaction	Grain Size	Consolidation	Triaxial	CBR	pH	Organic Content %
				Liquid Limit	Plastic Limit	Stress TSF	Strain %										
1X		Grey c+mf SAND, some mf+ Gravel, little- Silt	7									*					
2X		Brown mf+ Gravel, and cmf Sand, little Silt	12									*					
3X		Grey c+mf SAND, some Silt, little f Gravel	9									*					
4X		Grey c+mf Sand, some+ mf+ Gravel, some Clayey Silt	16									*					
5X		Brown mf+ GRAVEL, little+ Clayey Silt, little+ cmf Sand	16									*					
6X		Brown cmf Sand, some Silt, some mf+ Gravel	18									*					
7X		Brown Silt & Clay, and- cmf Sand, little+ mf+ Gravel	27									*					
8X		Brown mf+ GRAVEL, some cmf Sand, little Silt	8									*					
9X		Brown cmf+ Sand, and- Organic Silt, little+ mf+ Gravel	63									*					
10X		Dark Brown mf+ GRAVEL, and c+mf Sand, trace+ Silt	3									*					
11X		Dark Brown mf+ GRAVEL, some+ cmf Sand, little Clayey Silt	8									*					
12X		Brown mf+ GRAVEL, some- Clayey Silt, some- cmf Sand	19									*					
13X		Brown cmf Sand, some+ f Gravel, some- Silt	13									*					

Spot-Check Reviewed By
The Accutest QA Staff.

1/9/07

* SEE TEST CURVES

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	7.5	19.8	25.6	16.2	18.9	12.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	92.5		
#4	89.1		
#10	72.7		
#16	60.8		
#30	47.1		
#60	30.9		
#100	21.4		
#200	12.0		

* (no specification provided)

Material Description

Grey c+mf SAND, some mf+ Gravel, little- Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 3.5471 D_{60}= 1.1346 D_{50}= 0.6962
D_{30}= 0.2389 D_{15}= 0.0993 D_{10}= 0.0565
C_u= 20.09 C_c= 0.89

Classification

USCS= AASHTO=

Remarks

Sample Number: 1X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater

Project No: 06L017A **Figure**

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 1X
Material Description: Grey c+mf SAND, some mf+ Gravel, little- Silt
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
241.77	0.00	0.00	.75	0.00	100.0
			.375	18.10	92.5
			#4	26.34	89.1
60.00	0.00	0.00	#10	11.04	72.7
			#16	19.03	60.8
			#30	28.27	47.1
			#60	39.22	30.9
			#100	45.62	21.4
			#200	51.92	12.0

Sieve/Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 89.1
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -5.5
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	21.0	11.5	6.2	0.0135	12.5	14.2	0.0509	9.2
2.00	21.0	9.5	4.2	0.0135	10.5	14.6	0.0364	6.2
4.00	21.0	9.0	3.7	0.0135	10.0	14.7	0.0258	5.5
9.00	21.0	8.0	2.7	0.0135	9.0	14.8	0.0173	4.0
16.00	21.0	8.0	2.7	0.0135	9.0	14.8	0.0130	4.0
25.00	21.0	7.0	1.7	0.0135	8.0	15.0	0.0104	2.5
36.00	21.0	7.0	1.7	0.0135	8.0	15.0	0.0087	2.5
49.00	21.0	6.5	1.2	0.0135	7.5	15.1	0.0075	1.7
120.00	21.0	6.5	1.2	0.0135	7.5	15.1	0.0048	1.7
1440.00	21.0	6.5	1.2	0.0135	7.5	15.1	0.0014	1.7

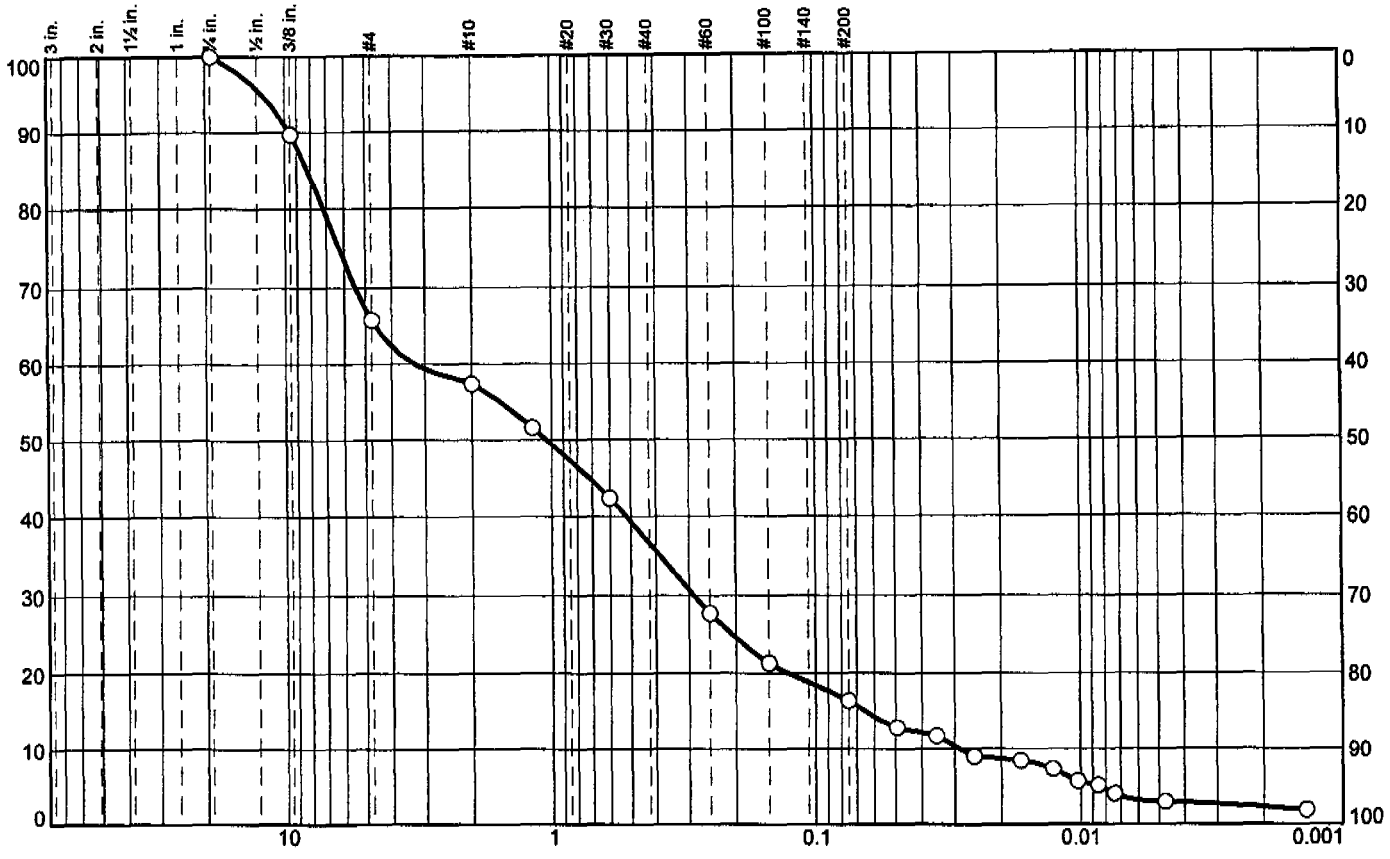
Gradation Characteristics

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	7.5	19.8	27.3	25.6	16.2	18.9	60.7	12.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0565	0.0993	0.1386	0.2389	0.6962	1.1346	2.7569	3.5471	5.2866	12.6887

Fineness Modulus	C_u	C_c
2.78	20.09	0.89

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	10.3	32.4	15.0	14.6	11.3	16.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	89.7		
#4	65.8		
#10	57.3		
#16	51.6		
#30	42.3		
#60	27.7		
#100	21.3		
#200	16.4		

* (no specification provided)

Material Description

Brown mf+ Gravel, and cmf Sand, little Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 8.2185 D_{60}= 3.2795 D_{50}= 1.0446
D_{30}= 0.2880 D_{15}= 0.0647 D_{10}= 0.0286
C_u= 114.57 C_c= 0.88

Classification

USCS= AASHTO=

Remarks

Sample Number: 2X
Source of Sample: J49912X **Date:** 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A. **CONSULTING ENGINEERS** **Wall, NJ**	**Client:** Accutest **Project:** Honeywell - Quanta - Edgewater **Project No:** 06L017A **Figure**

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 2X
Material Description: Brown mf+ Gravel, and cmf Sand, little Silt
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
174.81	0.00	0.00	.75	0.00	100.0
			.375	18.08	89.7
			#4	59.74	65.8
60.00	0.00	0.00	#10	7.73	57.3
			#16	12.99	51.6
			#30	21.45	42.3
			#60	34.71	27.7
			#100	40.59	21.3
			#200	45.05	16.4

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 65.8
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -5.5
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 **x Rm**

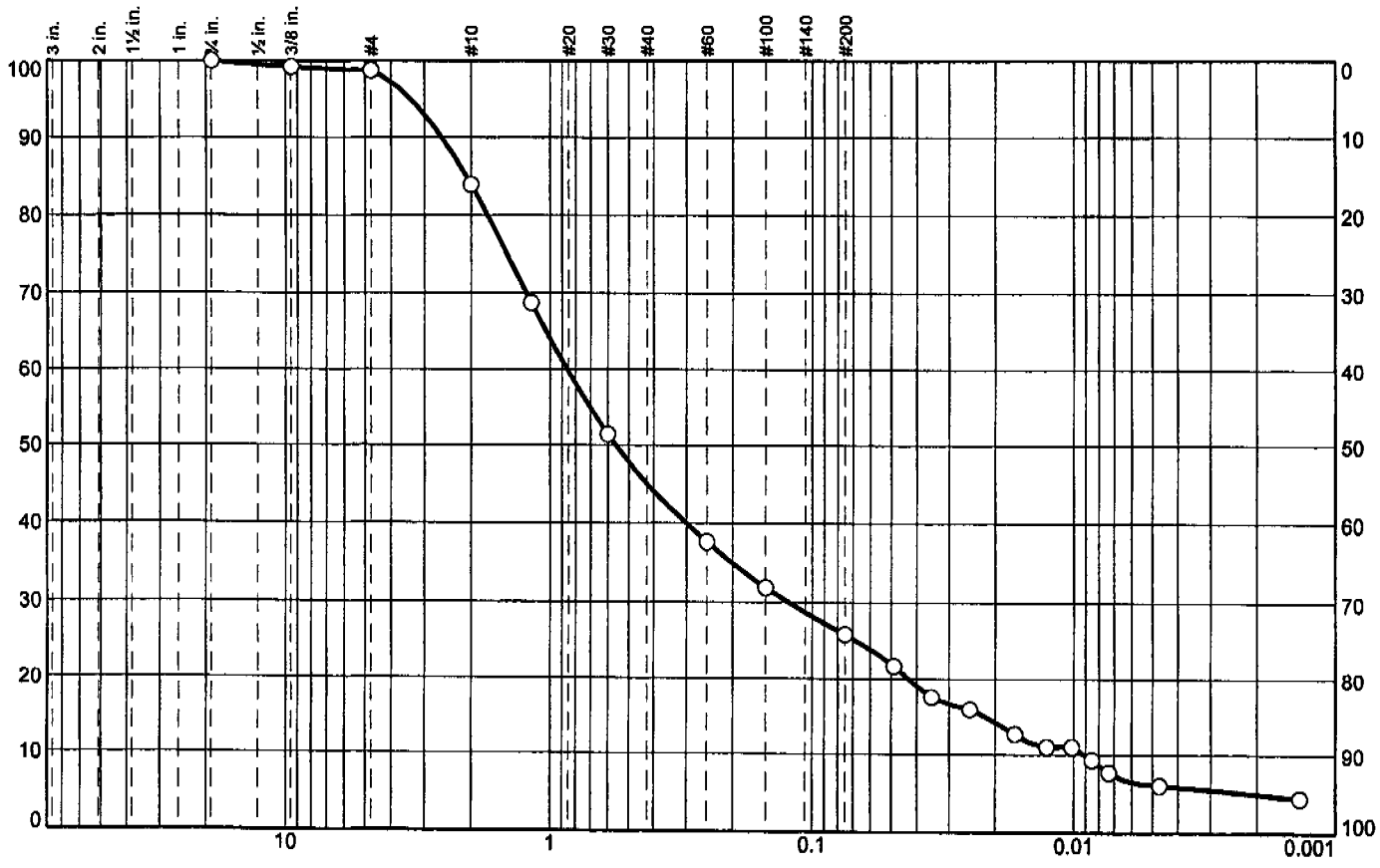
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	21.0	17.0	11.7	0.0135	18.0	13.3	0.0492	12.8
2.00	21.0	16.0	10.7	0.0135	17.0	13.5	0.0350	11.7
4.00	21.0	13.5	8.2	0.0135	14.5	13.9	0.0251	9.0
9.00	21.0	13.0	7.7	0.0135	14.0	14.0	0.0168	8.4
16.00	21.0	12.0	6.7	0.0135	13.0	14.2	0.0127	7.3
25.00	21.0	10.5	5.2	0.0135	11.5	14.4	0.0102	5.7
36.00	21.0	10.0	4.7	0.0135	11.0	14.5	0.0086	5.1
49.00	21.0	9.0	3.7	0.0135	10.0	14.7	0.0074	4.0
120.00	21.0	8.0	2.7	0.0135	9.0	14.8	0.0047	2.9
1440.00	21.0	7.0	1.7	0.0135	8.0	15.0	0.0014	1.8

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	10.3	32.4	42.7	15.0	14.6	11.3	40.9	16.4

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0286	0.0647	0.1275	0.2880	1.0446	3.2795	7.1741	8.2185	9.6163	12.0755

Fineness Modulus	C_u	C_c
3.40	114.57	0.88

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	0.8	15.3	32.5	13.7	11.8	25.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	99.2		
#4	98.8		
#10	83.9		
#16	68.7		
#30	51.4		
#60	37.7		
#100	31.9		
#200	25.9		

* (no specification provided)

Material Description

Grey c+mf SAND, some Silt, little f Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 2.0850 D_{60}= 0.8615 D_{50}= 0.5601
D_{30}= 0.1229 D_{15}= 0.0218 D_{10}= 0.0090
C_u= 95.76 C_c= 1.95

Classification

USCS= AASHTO=

Remarks

Sample Number: 3X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project No: 06L017A

Figure

ested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 3X
Material Description: Grey c+mf SAND, some Silt, little f Gravel
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
243.18	0.00	0.00	.75	0.00	100.0
			.375	1.94	99.2
			#4	3.00	98.8
60.00	0.00	0.00	#10	9.02	83.9
			#16	18.25	68.7
			#30	28.77	51.4
			#60	37.12	37.7
			#100	40.63	31.9
			#200	44.28	25.9

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 98.8
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -5.5
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

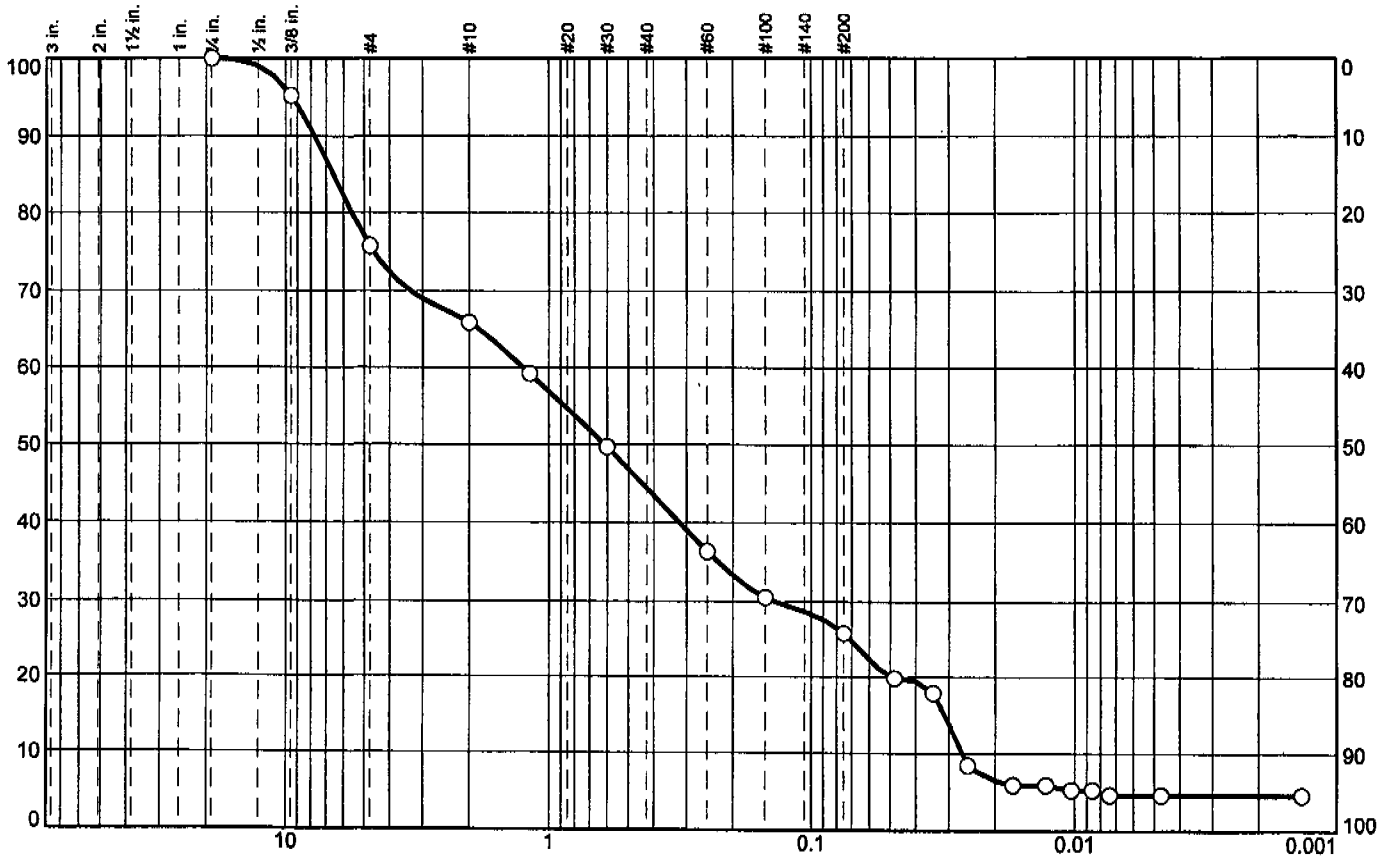
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	21.0	18.5	13.2	0.0135	19.5	13.1	0.0488	21.7
2.00	21.0	16.0	10.7	0.0135	17.0	13.5	0.0350	17.6
4.00	21.0	15.0	9.7	0.0135	16.0	13.7	0.0249	15.9
9.00	21.0	13.0	7.7	0.0135	14.0	14.0	0.0168	12.6
16.00	21.0	12.0	6.7	0.0135	13.0	14.2	0.0127	11.0
25.00	21.0	12.0	6.7	0.0135	13.0	14.2	0.0101	11.0
36.00	21.0	11.0	5.7	0.0135	12.0	14.3	0.0085	9.3
49.00	21.0	10.0	4.7	0.0135	11.0	14.5	0.0073	7.7
120.00	21.0	9.0	3.7	0.0135	10.0	14.7	0.0047	6.1
1440.00	21.0	8.0	2.7	0.0135	9.0	14.8	0.0014	4.4

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	0.8	15.3	16.1	32.5	13.7	11.8	58.0	25.9

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0090	0.0218	0.0430	0.1229	0.5601	0.8615	1.7338	2.0850	2.5767	3.3739

Fineness Modulus	C_u	C_c
2.22	95.76	1.95

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	4.7	29.5	16.1	13.4	10.5	25.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	95.3		
#4	75.7		
#10	65.8		
#16	59.2		
#30	49.7		
#60	36.3		
#100	30.5		
#200	25.8		

* (no specification provided)

Material Description

Grey c+mf Sand, some+ mf+ Gravel, some Clayey Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 6.5678 D_{60}= 1.2506 D_{50}= 0.6127
D_{30}= 0.1377 D_{15}= 0.0310 D_{10}= 0.0268
C_u= 46.69 C_c= 0.57

Classification

USCS= AASHTO=

Remarks

Sample Number: 4X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project No: 06L017A

Figure

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 4X
Material Description: Grey c+mf Sand, some+ mf+ Gravel, some Clayey Silt
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
197.17	0.00	0.00	.75	0.00	100.0
			.375	9.35	95.3
			#4	47.97	75.7
60.00	0.00	0.00	#10	7.79	65.8
			#16	13.07	59.2
			#30	20.60	49.7
			#60	31.18	36.3
			#100	35.78	30.5
			#200	39.54	25.8

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 75.7
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -5.5
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 **x Rm**

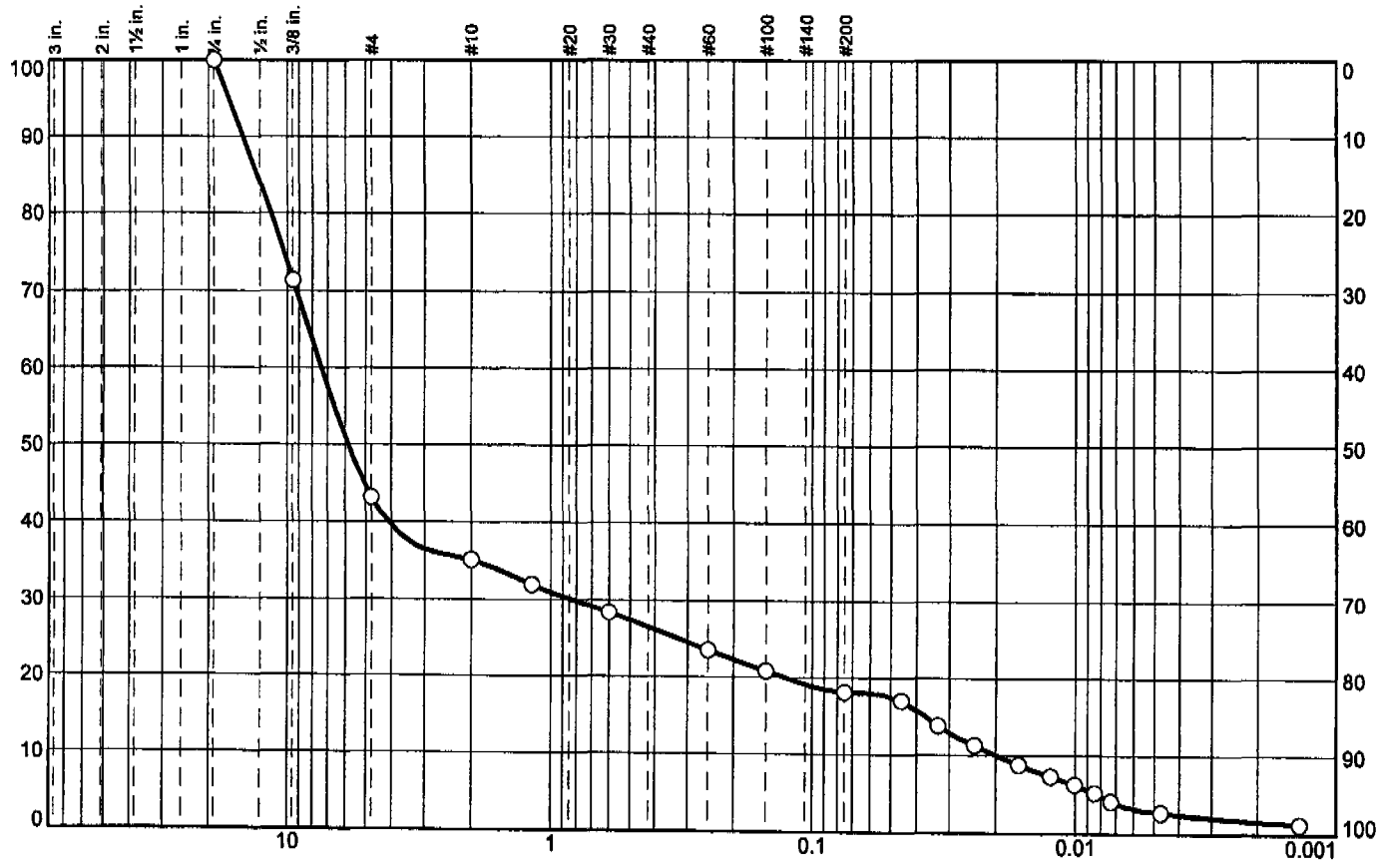
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	21.0	21.0	15.7	0.0135	22.0	12.7	0.0480	19.8
2.00	21.0	19.5	14.2	0.0135	20.5	12.9	0.0343	17.9
4.00	21.0	12.0	6.7	0.0135	13.0	14.2	0.0254	8.4
9.00	21.0	10.0	4.7	0.0135	11.0	14.5	0.0171	5.9
16.00	21.0	10.0	4.7	0.0135	11.0	14.5	0.0128	5.9
25.00	21.0	9.5	4.2	0.0135	10.5	14.6	0.0103	5.3
36.00	21.0	9.5	4.2	0.0135	10.5	14.6	0.0086	5.3
49.00	21.0	9.0	3.7	0.0135	10.0	14.7	0.0074	4.6
120.00	21.0	9.0	3.7	0.0135	10.0	14.7	0.0047	4.6
1440.00	21.0	9.0	3.7	0.0135	10.0	14.7	0.0014	4.6

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	4.7	29.5	34.2	16.1	13.4	10.5	40.0	25.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0268	0.0310	0.0499	0.1377	0.6127	1.2506	5.5846	6.5678	7.7276	9.3832

Fineness Modulus	C_u	C_c
2.83	46.69	0.57

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	28.5	36.3	6.8	4.9	5.4	18.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	71.4		
#4	43.1		
#10	35.2		
#16	32.0		
#30	28.4		
#60	23.5		
#100	20.8		
#200	18.1		

* (no specification provided)

Material Description

Brown mf+ GRAVEL, little+ Clayey Silt, little+ cmf Sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 13.0472 D_{60}= 7.4002 D_{50}= 5.8445
D_{30}= 0.8283 D_{15}= 0.0371 D_{10}= 0.0199
C_u= 371.76 C_c= 4.66

Classification

USCS= AASHTO=

Remarks

Sample Number: 5X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project No: 06L017A

Figure

ested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 5X
Material Description: Brown mf+ GRAVEL, little+ Clayey Silt, little+ cmf Sand
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
222.16	0.00	0.00	.75	0.00	100.0
			.375	63.49	71.4
			#4	126.30	43.1
60.00	0.00	0.00	#10	11.12	35.2
			#16	15.55	32.0
			#30	20.52	28.4
			#60	27.35	23.5
			#100	31.03	20.8
			#200	34.86	18.1

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 43.1
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -5.5
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

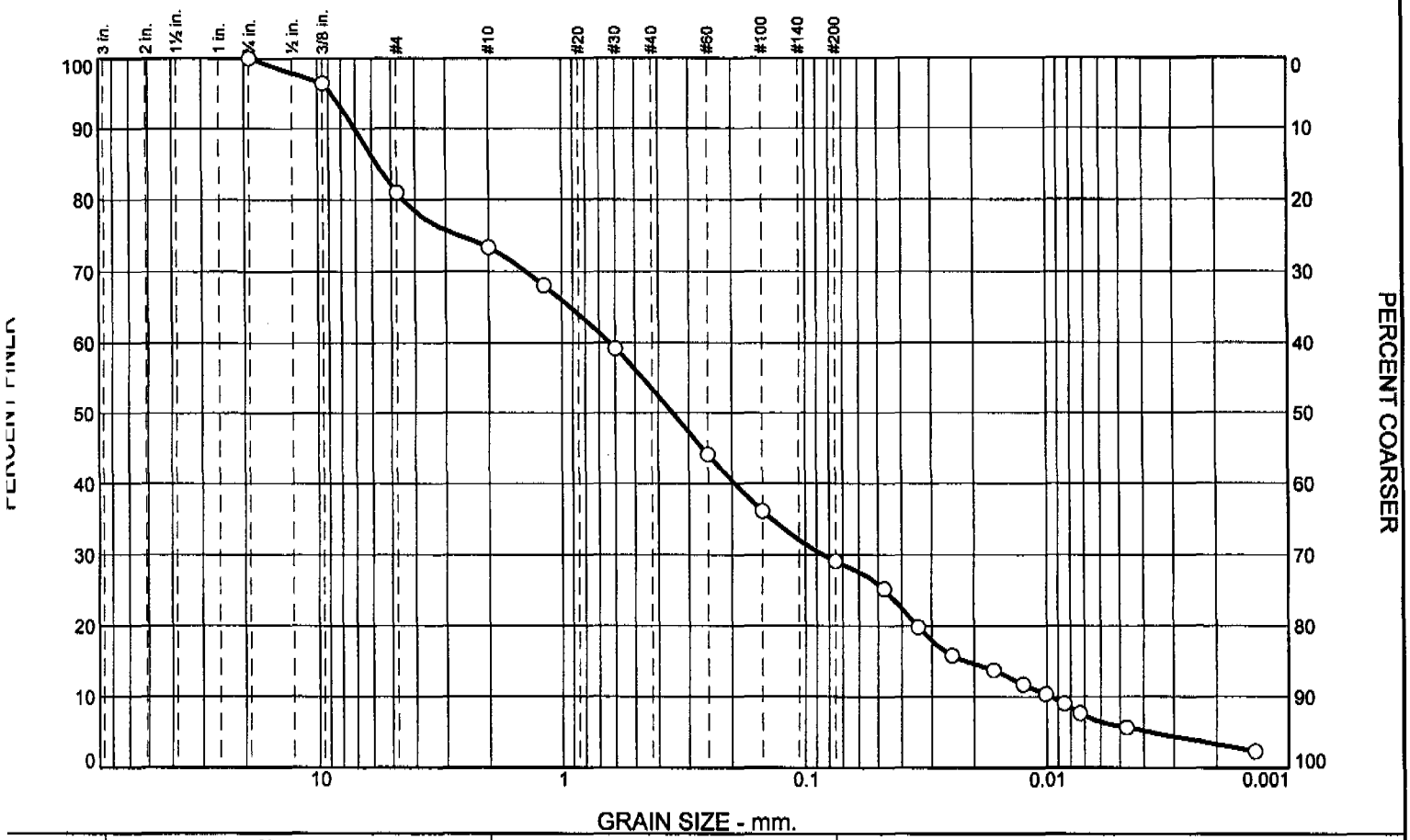
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	21.0	29.0	23.7	0.0135	30.0	11.4	0.0455	17.0
2.00	21.0	24.5	19.2	0.0135	25.5	12.1	0.0332	13.8
4.00	21.0	21.0	15.7	0.0135	22.0	12.7	0.0240	11.3
9.00	21.0	17.5	12.2	0.0135	18.5	13.3	0.0164	8.8
16.00	21.0	15.5	10.2	0.0135	16.5	13.6	0.0124	7.3
25.00	21.0	14.0	8.7	0.0135	15.0	13.8	0.0100	6.2
36.00	21.0	12.5	7.2	0.0135	13.5	14.1	0.0084	5.2
49.00	21.0	11.0	5.7	0.0135	12.0	14.3	0.0073	4.1
120.00	21.0	9.0	3.7	0.0135	10.0	14.7	0.0047	2.6
1440.00	21.0	7.0	1.7	0.0135	8.0	15.0	0.0014	1.2

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	28.5	36.3	64.8	6.8	4.9	5.4	17.1	18.1

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0199	0.0371	0.1279	0.8283	5.8445	7.4002	11.5694	13.0472	14.7605	16.7367

Fineness Modulus	C_u	C_c
4.44	371.76	4.66

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	3.6	23.0	14.2	15.1	15.0	29.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	96.4		
#4	81.0		
#10	73.4		
#16	68.1		
#30	59.2		
#60	44.1		
#100	36.1		
#200	29.1		

* (no specification provided)

Material Description

Brown cmf Sand, some Silt, some mf+ Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 5.7343 D_{60}= 0.6333 D_{50}= 0.3498
D_{30}= 0.0846 D_{15}= 0.0218 D_{10}= 0.0096
C_u= 66.20 C_c= 1.18

Classification

USCS= AASHTO=

Remarks

Sample Number: 6X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater

Project No: 06L017A **Figure**

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 6X
Material Description: Brown cmf Sand, some Silt, some mf+ Gravel
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
195.30	0.00	0.00	.75	0.00	100.0
			.375	7.07	96.4
			#4	37.15	81.0
60.00	0.00	0.00	#10	5.63	73.4
			#16	9.56	68.1
			#30	16.15	59.2
			#60	27.35	44.1
			#100	33.22	36.1
			#200	38.43	29.1

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 81.0
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -5.5
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

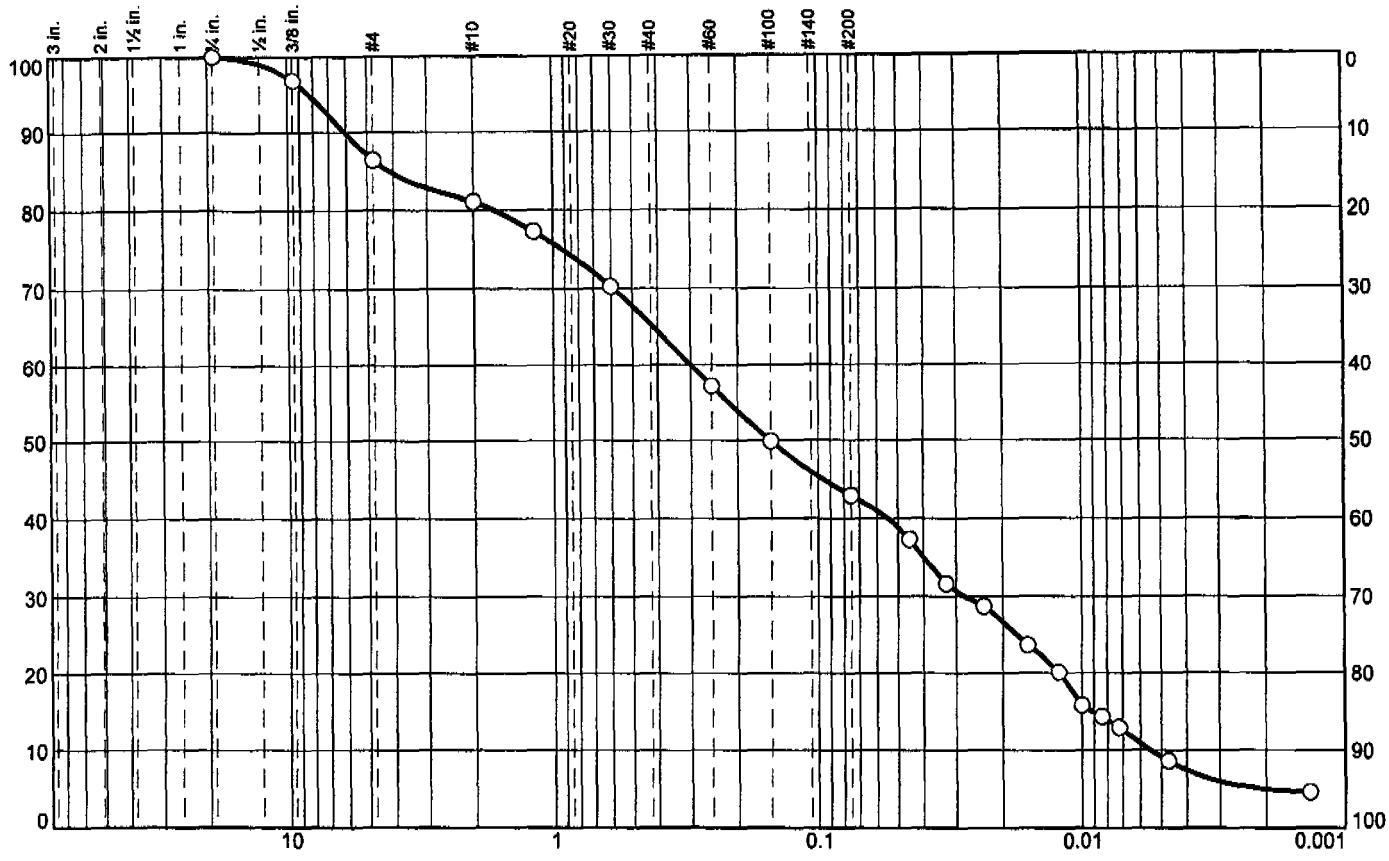
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	21.0	24.0	18.7	0.0135	25.0	12.2	0.0471	25.2
2.00	21.0	20.0	14.7	0.0135	21.0	12.9	0.0342	19.8
4.00	21.0	17.0	11.7	0.0135	18.0	13.3	0.0246	15.8
9.00	21.0	15.5	10.2	0.0135	16.5	13.6	0.0166	13.7
16.00	21.0	14.0	8.7	0.0135	15.0	13.8	0.0125	11.7
25.00	21.0	13.0	7.7	0.0135	14.0	14.0	0.0101	10.4
36.00	21.0	12.0	6.7	0.0135	13.0	14.2	0.0085	9.0
49.00	21.0	11.0	5.7	0.0135	12.0	14.3	0.0073	7.7
120.00	21.0	9.5	4.2	0.0135	10.5	14.6	0.0047	5.6
1440.00	21.0	7.0	1.7	0.0135	8.0	15.0	0.0014	2.3

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	3.6	23.0	26.6	14.2	15.1	15.0	44.3	29.1

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0096	0.0218	0.0346	0.0846	0.3498	0.6333	4.4871	5.7343	7.0322	8.7895

Fineness Modulus	C_u	C_c
2.38	66.20	1.18

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	3.2	15.7	10.8	13.2	14.2	42.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	96.8		
#4	86.4		
#10	81.1		
#16	77.3		
#30	70.3		
#60	57.1		
#100	49.9		
#200	42.9		

* (no specification provided)

Material Description

Brown Silt & Clay, and- cmf Sand, little+ mf+ Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 4.1706 D_{60}= 0.3006 D_{50}= 0.1516
D_{30}= 0.0277 D_{15}= 0.0093 D_{10}= 0.0055
C_u= 54.86 C_c= 0.46

Classification

USCS= AASHTO=

Remarks

Sample Number: 7X
Source of Sample: J49912X **Date:** 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A. **CONSULTING ENGINEERS** **Wall, NJ**	**Client:** Accutest **Project:** Honeywell - Quanta - Edgewater **Project No:** 06L017A **Figure**

ested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 7X
Material Description: Brown Silt & Clay, and- cmf Sand, little+ mf+ Gravel
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
133.74	0.00	0.00	.75	0.00	100.0
			.375	4.32	96.8
			#4	18.20	86.4
60.00	0.00	0.00	#10	3.69	81.1
			#16	6.31	77.3
			#30	11.20	70.3
			#60	20.33	57.1
			#100	25.37	49.9
			#200	30.24	42.9

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 86.4
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -6
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

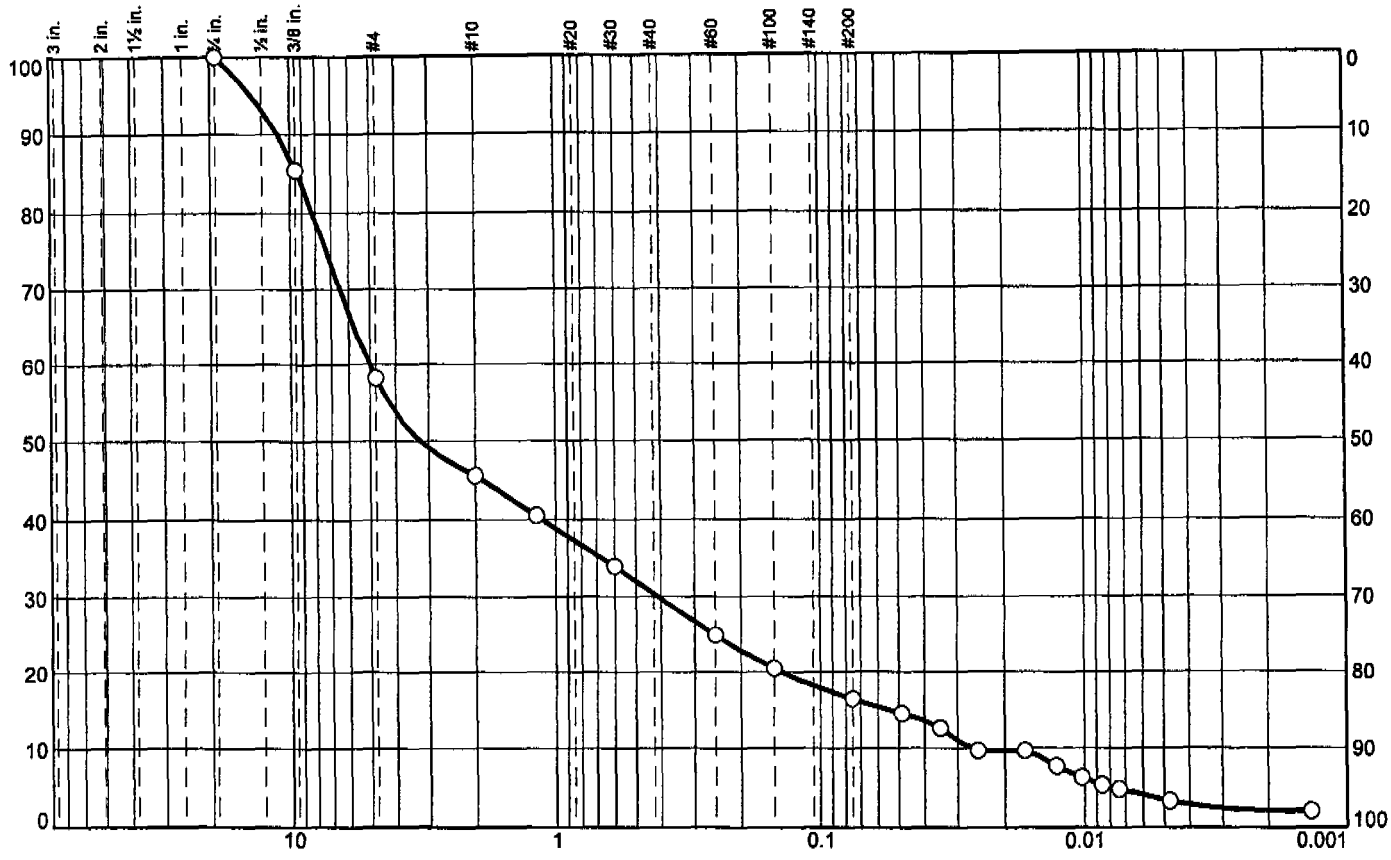
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	20.0	32.0	26.0	0.0136	33.0	10.9	0.0450	37.4
2.00	20.0	28.0	22.0	0.0136	29.0	11.5	0.0328	31.6
4.00	20.0	26.0	20.0	0.0136	27.0	11.9	0.0235	28.7
9.00	20.0	22.5	16.5	0.0136	23.5	12.4	0.0160	23.7
16.00	20.0	20.0	14.0	0.0136	21.0	12.9	0.0122	20.1
25.00	20.0	17.0	11.0	0.0136	18.0	13.3	0.0100	15.8
36.00	20.0	16.0	10.0	0.0136	17.0	13.5	0.0084	14.3
49.00	20.0	15.0	9.0	0.0136	16.0	13.7	0.0072	12.9
120.00	20.0	12.0	6.0	0.0136	13.0	14.2	0.0047	8.6
1440.00	21.0	9.0	3.2	0.0135	10.0	14.7	0.0014	4.6

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	3.2	15.7	18.9	10.8	13.2	14.2	38.2	42.9

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0055	0.0093	0.0122	0.0277	0.1516	0.3006	1.6689	4.1706	6.0731	8.2940

Fineness Modulus	C_u	C_c
1.78	54.86	0.46

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	14.6	39.9	11.6	9.0	8.5	16.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	85.3		
#4	58.2		
#10	45.5		
#16	40.5		
#30	33.9		
#60	24.9		
#100	20.5		
#200	16.4		

* (no specification provided)

Material Description

Brown mf+ GRAVEL, some cmf Sand, little Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 9.4073 D_{60}= 5.0185 D_{50}= 3.2336
D_{30}= 0.4102 D_{15}= 0.0545 D_{10}= 0.0266
C_u= 188.62 C_c= 1.26

Classification

USCS= AASHTO=

Remarks

Sample Number: 8X
Source of Sample: J49912X **Date:** 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project No: 06L017A **Figure**

ested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 8X
Material Description: Brown mf+ GRAVEL, some cmf Sand, little Silt
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
240.27	0.00	0.00	.75	0.00	100.0
			.375	35.24	85.3
			#4	100.44	58.2
60.00	0.00	0.00	#10	13.05	45.5
			#16	18.25	40.5
			#30	25.01	33.9
			#60	34.32	24.9
			#100	38.91	20.5
			#200	43.07	16.4

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 58.2
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -6
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 **x Rm**

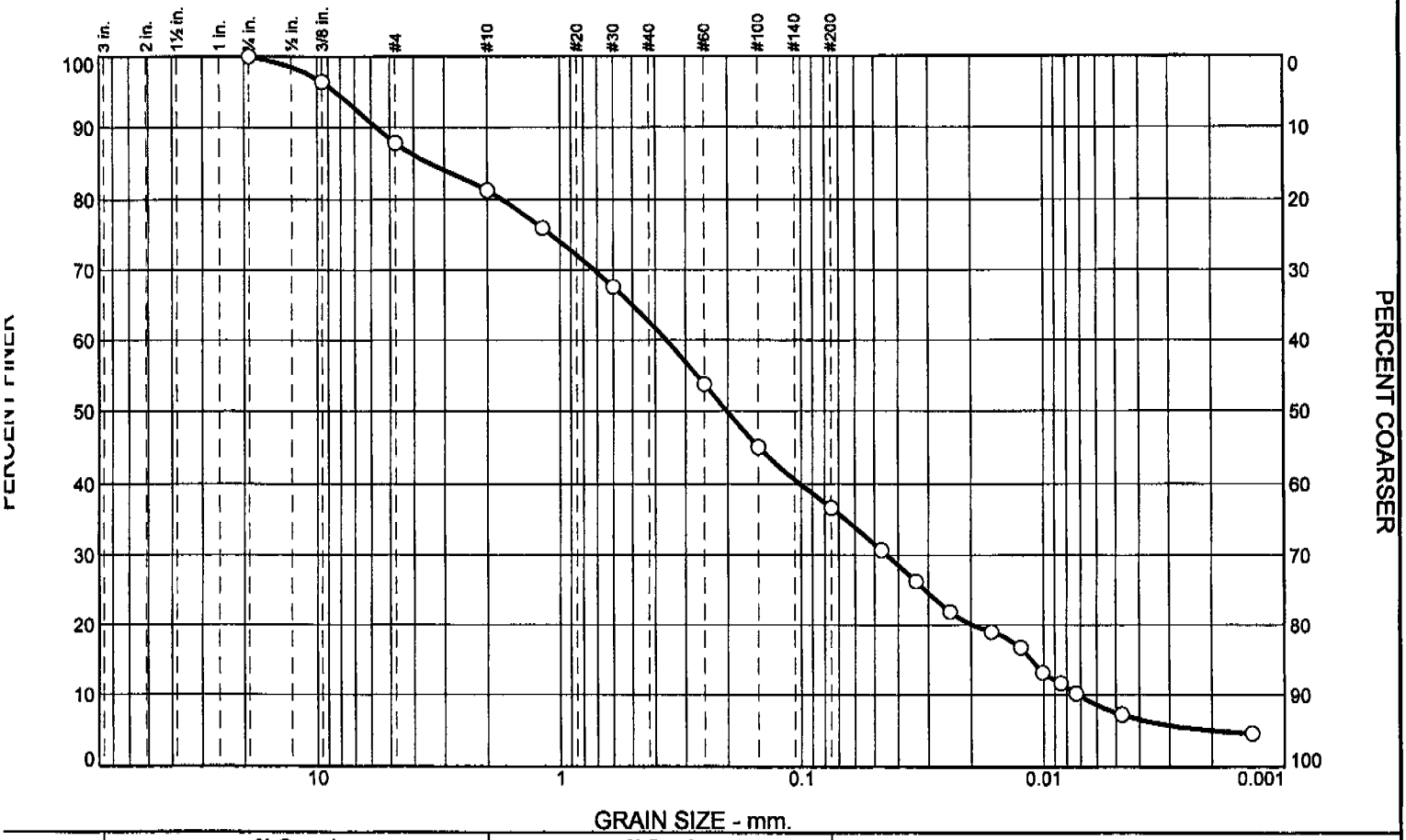
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	20.0	21.0	15.0	0.0136	22.0	12.7	0.0486	14.5
2.00	20.0	19.0	13.0	0.0136	20.0	13.0	0.0348	12.6
4.00	20.0	16.0	10.0	0.0136	17.0	13.5	0.0251	9.7
9.00	20.0	16.0	10.0	0.0136	17.0	13.5	0.0167	9.7
16.00	20.0	14.0	8.0	0.0136	15.0	13.8	0.0127	7.7
25.00	20.0	12.5	6.5	0.0136	13.5	14.1	0.0102	6.3
36.00	20.0	11.5	5.5	0.0136	12.5	14.2	0.0086	5.3
49.00	20.0	11.0	5.0	0.0136	12.0	14.3	0.0074	4.8
120.00	20.0	9.5	3.5	0.0136	10.5	14.6	0.0048	3.4
1440.00	21.0	8.0	2.2	0.0135	9.0	14.8	0.0014	2.1

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	14.6	39.9	54.5	11.6	9.0	8.5	29.1	16.4

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0266	0.0545	0.1408	0.4102	3.2336	5.0185	8.2264	9.4073	11.1117	13.9372

Fineness Modulus	C_u	C_c
3.88	188.62	1.26

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	3.6	15.1	13.7	13.8	17.2	36.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	96.4		
#4	87.8		
#10	81.3		
#16	75.9		
#30	67.6		
#60	53.8		
#100	45.1		
#200	36.6		

* (no specification provided)

Material Description

Brown cmf+ Sand, and- Organic Silt, little+ mf+ Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 3.4434 D_{60}= 0.3606 D_{50}= 0.2021
D_{30}= 0.0444 D_{15}= 0.0113 D_{10}= 0.0072
C_u= 50.36 C_c= 0.76

Classification

USCS= AASHTO=

Remarks

Sample Number: 9X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater

Project No: 06L017A **Figure**

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 9X
Material Description: Brown cmf+ Sand, and- Organic Silt, little+ mf+ Gravel
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
122.98	0.00	0.00	.75	0.00	100.0
			.375	4.40	96.4
			#4	15.01	87.8
60.00	0.00	0.00	#10	4.45	81.3
			#16	8.12	75.9
			#30	13.79	67.6
			#60	23.24	53.8
			#100	29.21	45.1
			#200	34.97	36.6

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 87.8
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -6
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

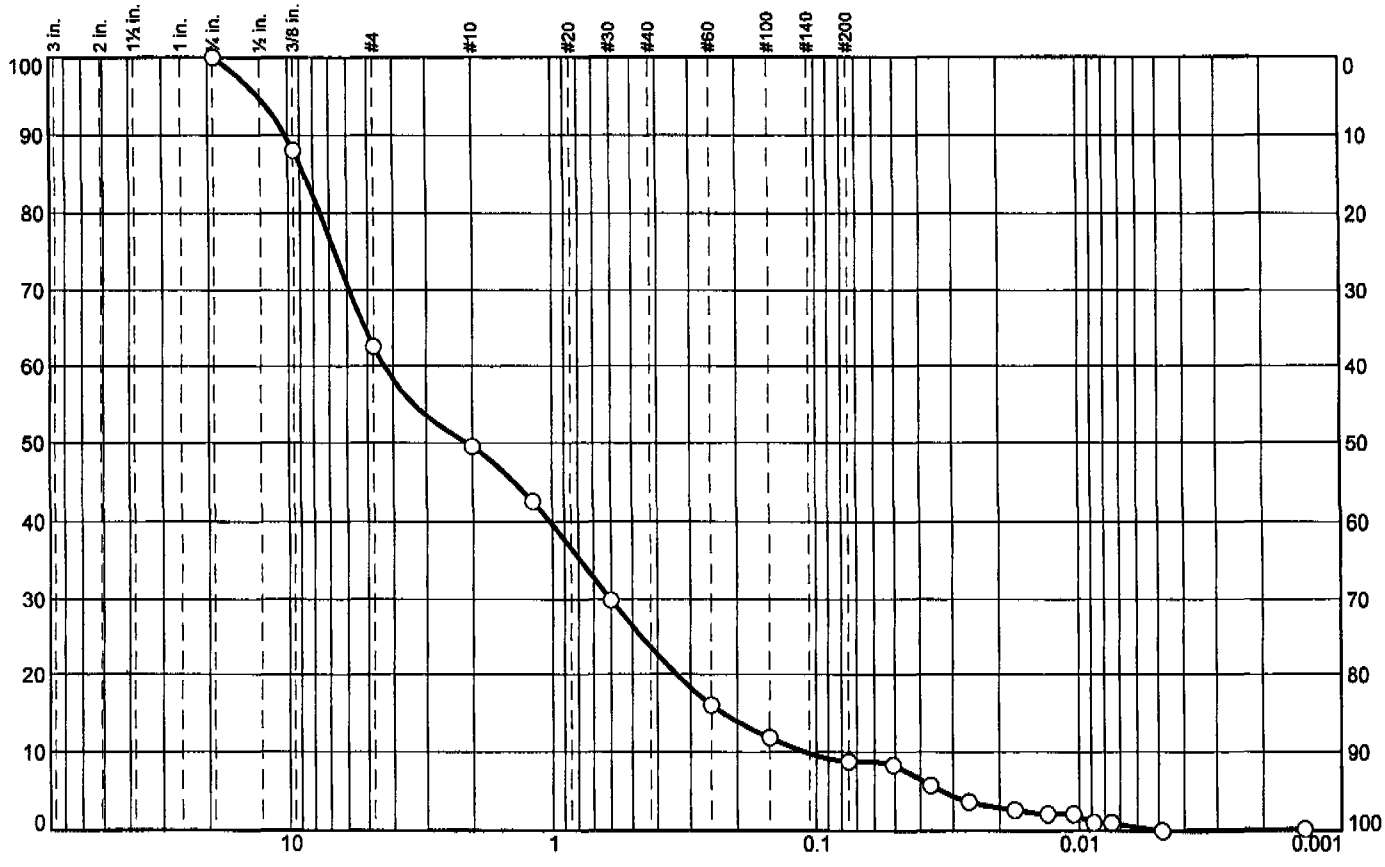
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	20.0	27.0	21.0	0.0136	28.0	11.7	0.0467	30.7
2.00	20.0	24.0	18.0	0.0136	25.0	12.2	0.0337	26.3
4.00	20.0	21.0	15.0	0.0136	22.0	12.7	0.0243	21.9
9.00	20.0	19.0	13.0	0.0136	20.0	13.0	0.0164	19.0
16.00	20.0	17.5	11.5	0.0136	18.5	13.3	0.0124	16.8
25.00	20.0	15.0	9.0	0.0136	16.0	13.7	0.0101	13.1
36.00	20.0	14.0	8.0	0.0136	15.0	13.8	0.0085	11.6
49.00	20.0	13.0	7.0	0.0136	14.0	14.0	0.0073	10.2
120.00	20.0	11.0	5.0	0.0136	12.0	14.3	0.0047	7.3
1440.00	21.0	9.0	3.2	0.0135	10.0	14.7	0.0014	4.6

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	3.6	15.1	18.7	13.7	13.8	17.2	44.7	36.6

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0072	0.0113	0.0197	0.0444	0.2021	0.3606	1.7311	3.4434	5.6997	8.3409

Fineness Modulus	C_u	C_c
1.88	50.36	0.76

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	11.9	38.6	19.6	13.9	7.2	8.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	88.0		
#4	62.5		
#10	49.5		
#16	42.5		
#30	29.9		
#60	16.0		
#100	11.8		
#200	8.8		

* (no specification provided)

Material Description

Dark Brown mf+ GRAVEL, and c+mf Sand, trace+ Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 8.6640 D_{60}= 4.3324 D_{50}= 2.0978
D_{30}= 0.6042 D_{15}= 0.2261 D_{10}= 0.1102
C_u= 39.31 C_c= 0.76

Classification

USCS= AASHTO=

Remarks

Sample Number: 10X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater

Project No: 06L017A **Figure**

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 10X
Material Description: Dark Brown mf+ GRAVEL, and c+mf Sand, trace+ Silt
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Analysis

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
201.94	0.00	0.00	.75	0.00	100.0
			.375	24.20	88.0
			#4	75.68	62.5
60.00	0.00	0.00	#10	12.47	49.5
			#16	19.19	42.5
			#30	31.34	29.9
			#60	44.62	16.0
			#100	48.65	11.8
			#200	51.57	8.8

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 62.5
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -6
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	20.0	14.0	8.0	0.0136	15.0	13.8	0.0508	8.3
2.00	20.0	11.5	5.5	0.0136	12.5	14.2	0.0364	5.7
4.00	20.0	9.5	3.5	0.0136	10.5	14.6	0.0260	3.6
9.00	20.0	8.5	2.5	0.0136	9.5	14.7	0.0175	2.6
16.00	20.0	8.0	2.0	0.0136	9.0	14.8	0.0131	2.0
25.00	20.0	8.0	2.0	0.0136	9.0	14.8	0.0105	2.0
36.00	20.0	7.0	1.0	0.0136	8.0	15.0	0.0088	1.0
49.00	20.0	7.0	1.0	0.0136	8.0	15.0	0.0075	1.0
120.00	20.0	6.0	0.0	0.0136	7.0	15.1	0.0048	0.0
1440.00	21.0	6.0	0.2	0.0135	7.0	15.1	0.0014	0.2

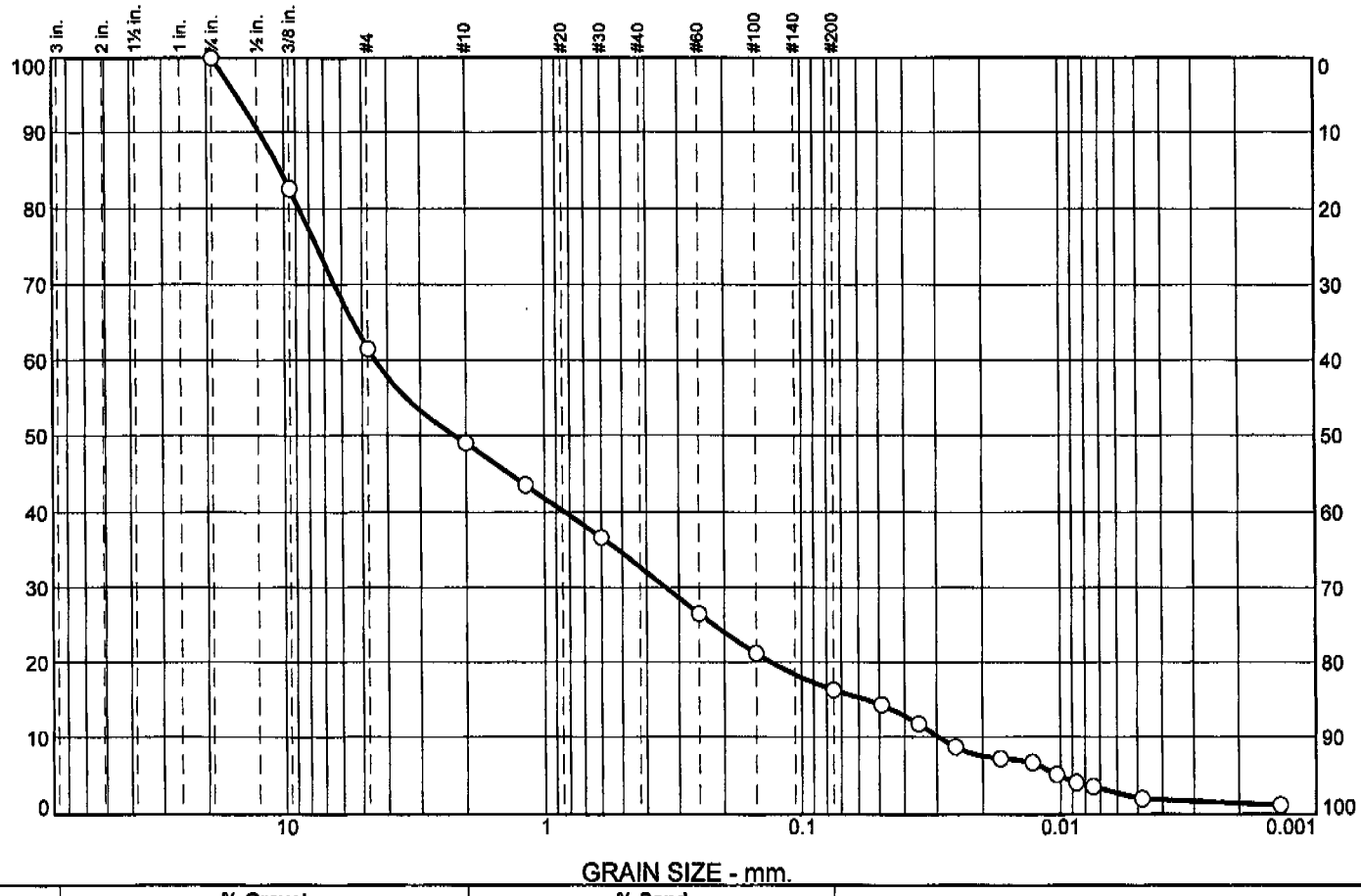
Particle Size Distribution

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	11.9	38.6	50.5	19.6	13.9	7.2	40.7	8.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.1102	0.2261	0.3395	0.6042	2.0978	4.3324	7.5737	8.6640	10.1857	12.8635

Fineness Modulus	C_u	C_c
3.96	39.31	0.76

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	17.3	33.7	12.4	10.1	10.2	16.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	82.6		
#4	61.5		
#10	49.0		
#16	43.5		
#30	36.6		
#60	26.5		
#100	21.1		
#200	16.3		

* (no specification provided)

Material Description

Dark Brown mf+ GRAVEL, some+ cmf Sand, little Clayey Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 10.3231 D_{60}= 4.4569 D_{50}= 2.2202
D_{30}= 0.3382 D_{15}= 0.0558 D_{10}= 0.0294
C_u= 151.41 C_c= 0.87

Classification

USCS= AASHTO=

Remarks

Sample Number: 11X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A. **CONSULTING ENGINEERS** **Wall, NJ**	**Client:** Accutest **Project:** Honeywell - Quanta - Edgewater **Project No:** 06L017A **Figure**

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 11X
Material Description: Dark Brown mf+ GRAVEL, some+ cmf Sand, little Clayey Silt
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
258.08	0.00	0.00	.75	0.00	100.0
			.375	44.94	82.6
			#4	99.39	61.5
60.00	0.00	0.00	#10	12.23	49.0
			#16	17.55	43.5
			#30	24.25	36.6
			#60	34.18	26.5
			#100	39.37	21.1
			#200	44.09	16.3

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 61.5
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -6
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	20.0	20.0	14.0	0.0136	21.0	12.9	0.0489	14.3
2.00	20.0	17.5	11.5	0.0136	18.5	13.3	0.0351	11.7
4.00	20.0	14.5	8.5	0.0136	15.5	13.8	0.0253	8.7
9.00	20.0	13.0	7.0	0.0136	14.0	14.0	0.0170	7.1
16.00	20.0	12.5	6.5	0.0136	13.5	14.1	0.0128	6.6
25.00	20.0	11.0	5.0	0.0136	12.0	14.3	0.0103	5.1
36.00	20.0	10.0	4.0	0.0136	11.0	14.5	0.0087	4.1
49.00	20.0	9.5	3.5	0.0136	10.5	14.6	0.0074	3.5
120.00	20.0	8.0	2.0	0.0136	9.0	14.8	0.0048	2.0
1440.00	21.0	7.0	1.2	0.0135	8.0	15.0	0.0014	1.2

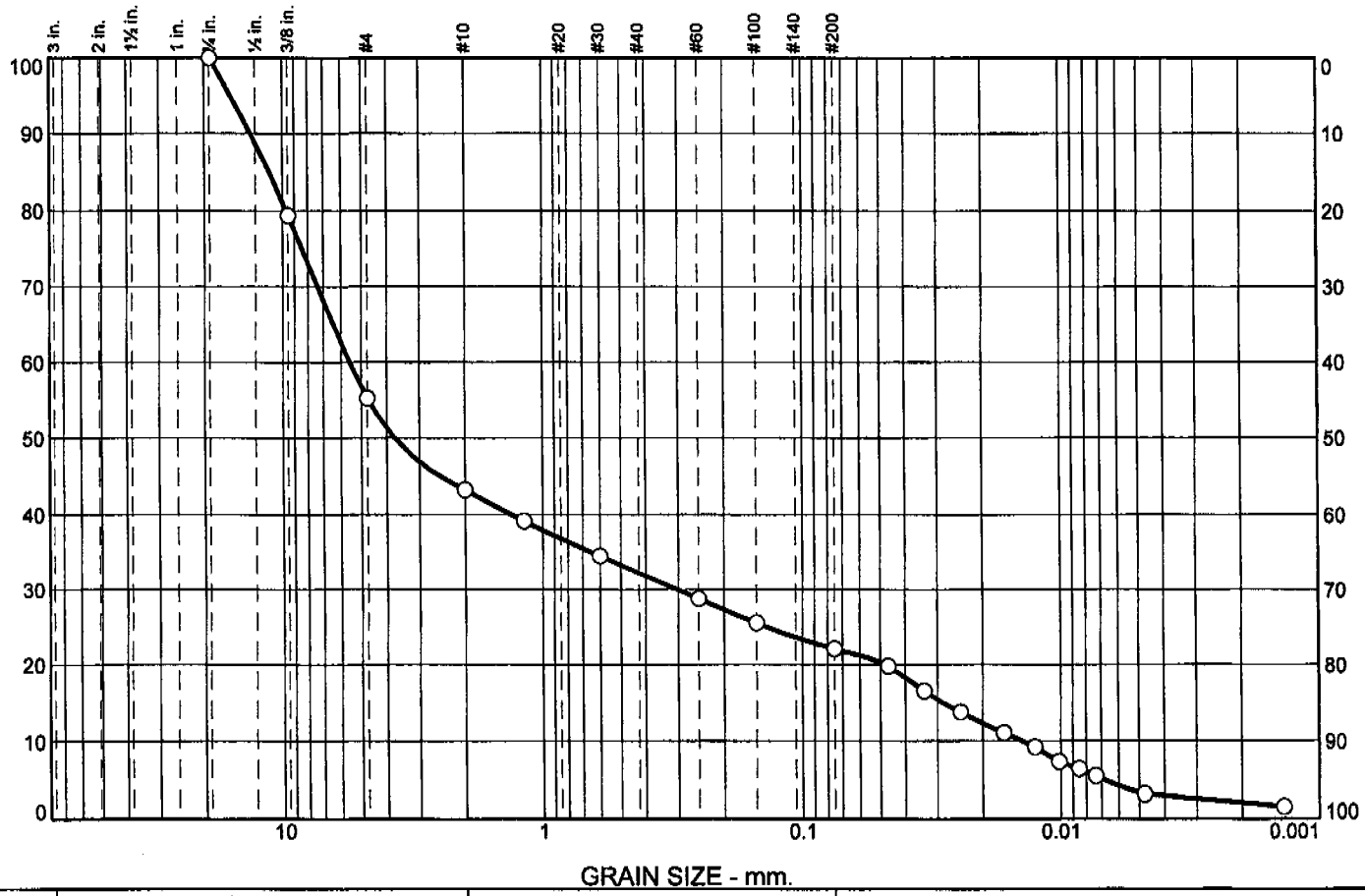
Particle Size Analysis

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	17.3	33.7	51.0	12.4	10.1	10.2	32.7	16.3

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0294	0.0558	0.1316	0.3382	2.2202	4.4569	8.7306	10.3231	12.4454	15.2857

Fineness Modulus	C_u	C_c
3.75	151.41	0.87

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	20.6	36.2	8.7	5.8	6.7	22.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	79.3		
#4	55.3		
#10	43.2		
#16	39.2		
#30	34.5		
#60	28.7		
#100	25.5		
#200	22.0		

* (no specification provided)

Material Description

Brown mf+ GRAVEL, some- Clayey Silt, some- cmf Sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 11.2690 D_{60}= 5.5591 D_{50}= 3.7338
D_{30}= 0.3027 D_{15}= 0.0284 D_{10}= 0.0140
C_u= 396.89 C_c= 1.18

Classification

USCS= AASHTO=

Remarks

Sample Number: 12X
Source of Sample: J49912X

Date: 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project No: 06L017A
Figure

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 12X
Material Description: Brown mf+ GRAVEL, some- Clayey Silt, some- cmf Sand
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
193.33	0.00	0.00	.75	0.00	100.0
			.375	39.94	79.3
			#4	86.45	55.3
60.00	0.00	0.00	#10	13.13	43.2
			#16	17.50	39.2
			#30	22.55	34.5
			#60	28.80	28.7
			#100	32.32	25.5
			#200	36.07	22.0

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 55.3
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -6
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

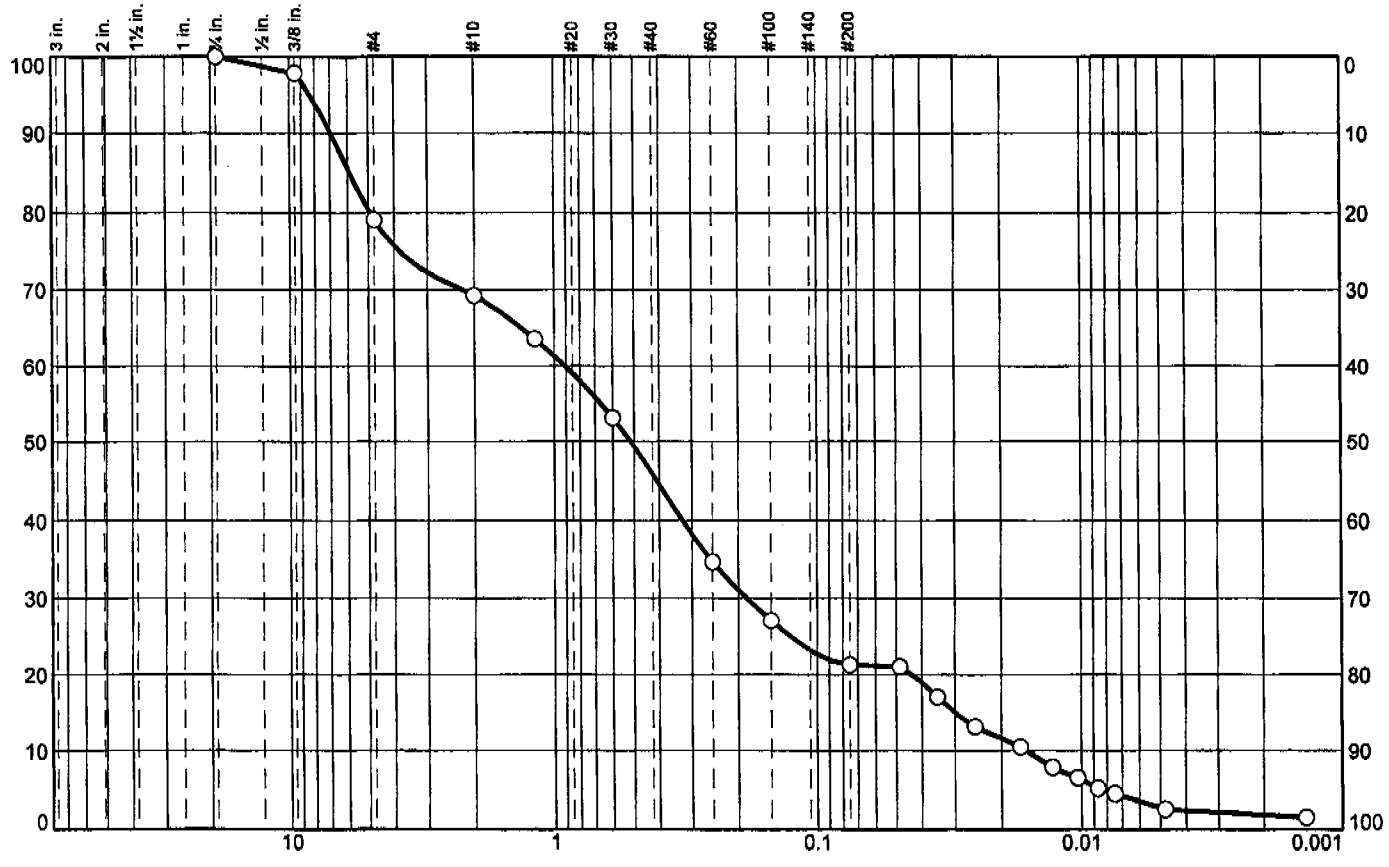
Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	20.0	27.5	21.5	0.0136	28.5	11.6	0.0465	19.8
2.00	20.0	24.0	18.0	0.0136	25.0	12.2	0.0337	16.5
4.00	20.0	21.0	15.0	0.0136	22.0	12.7	0.0243	13.8
9.00	20.0	18.0	12.0	0.0136	19.0	13.2	0.0165	11.0
16.00	20.0	16.0	10.0	0.0136	17.0	13.5	0.0125	9.2
25.00	20.0	14.0	8.0	0.0136	15.0	13.8	0.0102	7.3
36.00	20.0	13.0	7.0	0.0136	14.0	14.0	0.0085	6.4
49.00	20.0	12.0	6.0	0.0136	13.0	14.2	0.0073	5.5
120.00	20.0	9.5	3.5	0.0136	10.5	14.6	0.0048	3.2
1440.00	21.0	7.5	1.7	0.0135	8.5	14.9	0.0014	1.5

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	20.6	36.2	56.8	8.7	5.8	6.7	21.2	22.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0140	0.0284	0.0479	0.3027	3.7338	5.5591	9.6824	11.2690	13.2859	15.8366

Fineness Modulus	C_u	C_c
3.92	396.89	1.18

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	2.1	28.7	16.1	18.4	13.4	21.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	97.8		
#4	79.1		
#10	69.2		
#16	63.6		
#30	53.1		
#60	34.7		
#100	27.1		
#200	21.3		

* (no specification provided)

Material Description

Brown cmf Sand, some+ f Gravel, some- Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 5.9025 D_{60}= 0.9062 D_{50}= 0.5149
D_{30}= 0.1862 D_{15}= 0.0299 D_{10}= 0.0160
C_u= 56.48 C_c= 2.38

Classification

USCS= AASHTO=

Remarks

Sample Number: 13X
Source of Sample: J49912X **Date:** 1/17/07

FRENCH & PARRELLO ASSOCIATES, P.A.
CONSULTING ENGINEERS
Wall, NJ

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project No: 06L017A **Figure**

Tested By: RT **Checked By:** RH

GRAIN SIZE DISTRIBUTION TEST DATA

1/22/2007

Client: Accutest
Project: Honeywell - Quanta - Edgewater
Project Number: 06L017A
Location: J49912X
Sample Number: 13X
Material Description: Brown cmf Sand, some+ f Gravel, some- Silt
Date: 1/17/07
Tested by: RT **Checked by:** RH
Sieve opening list: FPA Default

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
252.50	0.00	0.00	.75	0.00	100.0
			.375	5.43	97.8
			#4	52.87	79.1
60.00	0.00	0.00	#10	7.45	69.2
			#16	11.75	63.6
			#30	19.70	53.1
			#60	33.67	34.7
			#100	39.42	27.1
			#200	43.83	21.3

Hydrometer Test Data

Hydrometer test uses material passing #4
Percent passing #4 based upon complete sample = 79.1
Weight of hydrometer sample =60.00
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -6
Meniscus correction only = 1.0
Specific gravity of solids = 2.65
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	20.0	22.0	16.0	0.0136	23.0	12.5	0.0483	21.0
2.00	20.0	19.0	13.0	0.0136	20.0	13.0	0.0348	17.1
4.00	20.0	16.0	10.0	0.0136	17.0	13.5	0.0251	13.1
9.00	20.0	14.0	8.0	0.0136	15.0	13.8	0.0169	10.5
16.00	20.0	12.0	6.0	0.0136	13.0	14.2	0.0128	7.9
25.00	20.0	11.0	5.0	0.0136	12.0	14.3	0.0103	6.5
36.00	20.0	10.0	4.0	0.0136	11.0	14.5	0.0087	5.2
49.00	20.0	9.5	3.5	0.0136	10.5	14.6	0.0074	4.6
120.00	20.0	8.0	2.0	0.0136	9.0	14.8	0.0048	2.6
1440.00	21.0	7.0	1.2	0.0135	8.0	15.0	0.0014	1.5

Cobbles	Gravel				Sand				Fines
	Coarse	Medium	Fine	Total	Coarse	Medium	Fine	Total	
0.0	0.0	2.1	28.7	30.8	16.1	18.4	13.4	47.9	21.3

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0160	0.0299	0.0431	0.1862	0.5149	0.9062	4.9373	5.9025	6.9595	8.3273

Fineness Modulus	C_u	C_c
2.71	56.48	2.38

APPLIED SPECIATION AND CONSULTING, LLC

953 Industry Drive Tukwila, WA 98188
Tel: (206) 219-3779 Fax: (206) 388-3485
www.appliedspeciation.com

November 8, 2006

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608
(352) 335-5877

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025

Dear Ms. Klopper,

Attached is the report associated with six (6) samples submitted for monomethylarsonic acid (MMAs) and cacodylic acid (DMAs) quantification on October 24, 2006. All samples were received on October 25, 2006, in a sealed cooler at 5.4°C. MMAs and DMAs speciation analysis was performed by ion chromatography inductively coupled plasma mass spectrometry (IC-ICP-MS). Any analytical issues associated with the analysis are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Table of Contents

Prepared for:

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025

November 8, 2006

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Applied Speciation and Consulting, LLC

Report Prepared for:

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025

November 8, 2006

1. Sample Reception

Six (6) samples in 125mL HDPE bottles were submitted for monomethylarsonic acid (MMAs) and cacodylic acid (DMAs) quantification on October 24, 2006. All samples were received in a sealed cooler on October 25, 2006 at 5.4°C.

It should be noted that an amended chain of custody form was provided by CH2M HILL on November 3, 2006 which reflected modified field sample IDs for all samples associated with this SDG. All laboratory IDs were adjusted in accordance with the revised field sample IDs. This report reflects only the revised field sample IDs and amended laboratory sample IDs. Both the as received and amended chain of custody forms are included with this report.

All samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. Upon reception, all samples were designated discrete sample identifiers and were immediately placed in a secure, monitored cryofreezer (maintained at -80°C) until analysis could be performed. All samples were analyzed for MMAs and DMAs by ion chromatography inductively coupled plasma mass spectrometry (IC-ICP-MS).

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

In accordance with the project specific work plan, designated samples were field preserved with a buffered 0.125 M EDTA acetic acid/acetate solution.
MMAs and DMAs Quantification by IC-ICP-MS All samples were filtered with a syringe filter (0.45um) and injected directly into sealed autosampler vials. No further sample preparation was performed as any chemical alteration of the samples may shift the equilibrium of the system resulting in changes in speciation ratios.

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

MMAs and DMAs Quantification by IC-ICP-MS All samples for MMAs and DMAs quantification were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Aliquots of each sample are injected onto an anion exchange column and are mobilized by a basic (pH > 7) gradient. The eluting arsenic species are then introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and separated on the basis of their mass-to-charge ratio (m/z) by a mass spectrometer. A solid-state detector detects ions transmitted through the mass analyzer and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control parameters associated with these samples was within acceptance limits.

It should be noted that the estimated method detection limits (eMDLs) for MMAs and DMAs are generated from replicate analyses of the lowest standard in the calibration curve. Not all arsenic species are present in preparation blanks; therefore, eMDL calculations based on preparation blanks are artificially biased low.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC
953 Industry Drive
Tukwila, WA 98188
Russ Gerads

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 39010.55982
COC#: 30916-XXXXX GW-ASC

Privileged & Confidential		Site Name:	Quanta Resources (Edgewater)
Sampling Co.:	CH2M HILL	EDD To:	john.mitchell@ch2m.com, amy.klopper@ch2m.com
Client Contact: (name, co., address)		Sampler:	L Baechler & D Reamer
Jennifer Simms		PO #	
1700 Market Street, Suite 1600		Analysis Turnaround Time (TAT):	
Philadelphia, PA 19103		Consultant	CH2M
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608	Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com		

Location of Site: Edgewater, NJ
Phase:
Sampling Program: Quanta 2006 OU1 SI
Lab Proj # (SDG):
Lab ID
Site ID: Quanta
Lab Job #
Authorized User: Honeywell
Text & Excel File Drive
Excel & Text File Order

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	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Lab	Field Filtered Sample ?	ASC-085 - DMA/MMA											Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						Units															
1	MW-C	12.48	12.45	MW-C-102406	10/24/06	9:20	REG	GW	—	1	X	Y	X	→	RANDOMLY	ASSIGNED	BOTTLE	ID =	ASC-B-821						
2	MW-C	12.48	12.45	MW-C-102406	10/24/06	9:20	MS	GW	—	1	X	Y	X	→	"		"		"	=	ASC-B-779				
3	MW-C	12.48	12.45	MW-C-102406	10/24/06	9:20	MSD	GW	—	1	X	Y	X	→	"		"		"	=	ASC-B-742				
4	MW-F	9.89	9.84	MW-F-102406	10/24/06	9:35	REG	GW	—	1	X	Y	X												
5	MW-F	9.89	9.84	DUP-102406-GW	10/24/06	9:35	DUP	GW	—	1	X	Y	X												
6	MW-B	10.32	10.42	MW-B-102406	10/24/06	13:25	REG	GW	—	1	X	Y	X												
7	MW-113B	4.86	4.94	MW-113B-102406	10/24/06	13:20	REG	GW	—	1	X	Y	X												
8	EB	N/A	N/A	EB-102406-GW	10/24/06		EB	GW	—	1	X	N	X												
9																									
10																									
11																									
12																									

10/25/06 0004

Relinquished by	Company	Received by	Company		Condition	Good	Custody Seals Intact	
Kimberly A. Stokes	Date/Time 10/24/06 4:00pm	CH2M HILL	HAKAN GURLEYUK	Date/Time 10/25/06 11:20 AM	APPLIED SPECIATION	Cooler Temp.	5.4°C	YES
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
	Date/Time			Date/Time		Cooler Temp.			

Preservatives: (Other; Specify): 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

Applied Speciation and Consulting, LLC
953 Industry Drive
Tukwilla, WA 98188
206-219-3779

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39024.61480
COC#	39016-102406-GW-ASC
Lab Proj # (SDG):	
Lab ID	ASC-WA
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Quanta Resources (Edgewater)
Phase:
Location of Site: Edgewater, NJ
Sampling Program: Quanta 2006 OU1 SI

Sampling Co.: CH2M HILL
EDD To: john.mitchell@ch2m.com, amy.klopper@ch2m.com
Sampler: D. Reamer/ L. Baechler/ K. Stokes
PO #
Analysis Turnaround Time (TAT):
Consultant: CH2M
Full Report TAT:

Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103

Preliminary Data To	amy.klopper@ch2m.com, [illegible]
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, [illegible]
Invoice To:	jennifer.simms@ch2m.com

Preservative: S2

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	ASC-085 - DMA/MMA	Sampling Method (code)	Lab Sample Numbers
											Units				
1	MW-C			MW-C-102406-F	10/24/2006	9:20	GW	WATER	REG	3	grab	Y	X		
2	MW-F			MW-F-102406-F	10/24/2006	9:35	GW	WATER	REG	1	grab	Y	X		
3	MW-F			DUP-102406-GW-F	10/24/2006	N/A	GW	WATER	FD	1	grab	Y	X		
4	MW-B			MW-B-102406-F	10/24/2006	13:25	GW	WATER	REG	1	grab	Y	X		
5	MW-113B			MW-113B-102406-F	10/24/2006	13:20	GW	WATER	REG	1	grab	Y	X		
6	Equip Blank			EB-102406-GW	10/24/2006	15:30	BLKWATER	WATER	EB	1	grab	N	X		
7															
8															
9															
10															
11															
12															

Relinquished by	Company	CH2M HILL	Received by	Company		Condition		Custody Seals Intact	
Kimberly Stokes	Date/Time	10/24/06 16:00		Date/Time		Cooler Temp.			
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
	Date/Time			Date/Time		Cooler Temp.			

Preservatives: (Other; Specify): * MS and MSD samples collected; DMA and MMA samples 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C) 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

0005

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025
Contact: Amy Klopper

Date: November 8, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/24/2006 Date Received: 10/25/2006

Field Sample ID
MW-C-102406-F

Laboratory Sample ID
MW-C-102406-ASC-B-821-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/27/2006	20	0.040	1.0	0.040 U
MMAs	EPA6800	10/27/2006	20	0.023	1.0	0.261 J

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025
Contact: Amy Klopper

Date: November 8, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/24/2006

Date Received: 10/25/2006

Field Sample ID
MW-F-102406-F

Laboratory Sample ID
MW-F-102406-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/28/2006	20	0.040	1.0	0.040 U
MMAs	EPA6800	10/28/2006	20	0.023	1.0	0.023 U

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025
Contact: Amy Klopper

Date: November 8, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/24/2006 Date Received: 10/25/2006

Field Sample ID
DUP-102406-GW-F

Laboratory Sample ID
DUP-102406-GW-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/28/2006	20	0.040	1.0	0.040 U
MMAs	EPA6800	10/28/2006	20	0.023	1.0	0.023 U

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025
Contact: Amy Klopper

Date: November 8, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/24/2006

Date Received: 10/25/2006

Field Sample ID
MW-B-102406-F

Laboratory Sample ID
MW-B-102406-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/28/2006	20	0.040	1.0	0.523 J
MMAs	EPA6800	10/28/2006	20	0.023	1.0	0.237 J

All results are reported in µg/L and reflect the applied dilution unless otherwise specified

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025
Contact: Amy Klopper

Date: November 8, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/24/2006

Date Received: 10/25/2006

Field Sample ID
MW-113B-102406-F

Laboratory Sample ID
MW-113B-102406-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/28/2006	20	0.040	1.0	0.753 J
MMAs	EPA6800	10/28/2006	20	0.023	1.0	0.483 J

All results are reported in µg/L and reflect the applied dilution unless otherwise specified

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025
Contact: Amy Klopper

Date: November 8, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/24/2006 Date Received: 10/25/2006

Field Sample ID
EB-102406-GW

Laboratory Sample ID
EB-102406-GW

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/28/2006	20	0.040	1.0	0.040 U
MMAs	EPA6800	10/28/2006	20	0.023	1.0	0.023 U

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025
Contact: Amy Klopper

Date: November 8, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*	eMDL 20x*	RL 20x
DMAs	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.040	1.0
MMAs	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.023	1.0

eMDL = Estimated Method Detection Limit
*Please see narrative regarding eMDL calculations

Quality Control Summary - Laboratory Control Sample

Analyte (µg/L)	LCS	True Value	Result	Recovery
DMAs	ICV	1.340	1.365	101.9
MMAs	ICV	1.011	1.154	114.1

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Rep 1	Rep 2	Mean	RPD
DMAs	MW-C-102406-ASC-B-821-F	ND (<0.040)	ND (<0.040)	NC	NC
MMAs	MW-C-102406-ASC-B-821-F	0.261	0.262	0.261	0.3

ND = Not detected at the applied dilution
NC = Not calculated due to one or more concentrations below the detection limit.

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
DMAs	MW-C-102406-ASC-B-821-F	40.00	36.77	91.9	40.00	36.43	91.1	0.9
	MW-C-102406-ASC-B-779-F	40.00	37.28	93.2	40.00	36.00	90.0	3.5
MMAs	MW-C-102406-ASC-B-821-F	40.00	36.34	90.9	40.00	35.80	89.5	1.5
	MW-C-102406-ASC-B-742-F	40.00	37.05	92.6	40.00	35.95	89.9	3.0

0012

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061025
Contact: Amy Klopper

Date: November 8, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Initial and Continuing Calibration Verification Standards

Analyte (µg/L)	ICV	True Value	Recovery	CCV1/CCV3	True Value	Recovery	CCV2	True Value	Recovery
DMAs	1.36	1.34	101.9	1.873	2.000	93.6	1.845	2.000	92.3
				1.892	2.000	94.6			
MMAs	1.15	1.01	114.1	1.915	2.000	95.8	1.8	2.000	89.5
				1.819	2.000	90.9			

Quality Control Summary - Initial and Continuing Calibration Blanks

Analyte (µg/L)	ICB	CCB1	CCB2	CCB3
DMAs	0.000	0.000	0.000	0.000
MMAs	0.000	0.000	0.000	0.000

0013

Applied Speciation And Consulting, LLC

Dataset Cover Page

Dataset ID: ICICPMS-061027-As

Analyst: H. Gürleyük

Computations Performed by: H. Gürleyük

Selenium Speciation Analysis by IC-ICP-MS	
Client Name(s): CHM HILL (C061025)	QA Level: High
Sample Reception Date: 10/25/2006	
Does Data Meet all DQOs? yes	

Analytical Discussion:
All samples and Prep Blanks were filtered with 0.45 um syringe filter.

A 0.02 ppb standard was run in quadruplicate to get an accurate MDL for As speciation.

All Samples were diluted in water

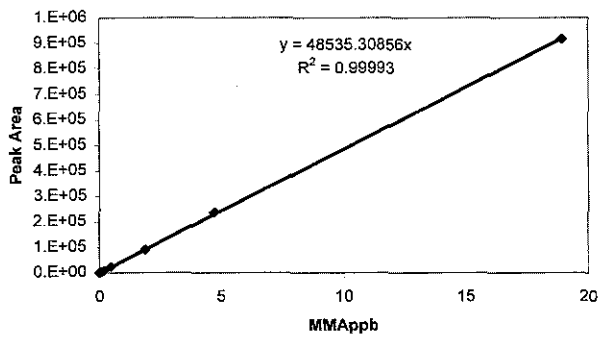
The recovery for the 1640 reference material was low but within QC specifications

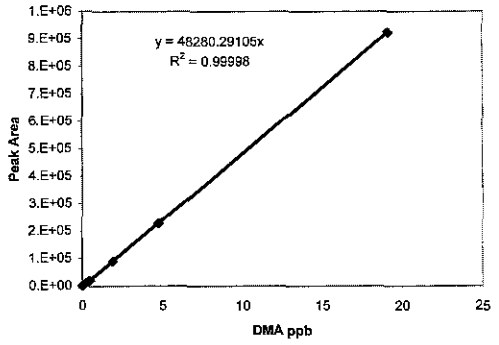
No Significant Analytical issues were encountered.

Dataset ID: ICICPMS-061027-As
Analyst: HakanG
MMAs DMAs

956606 946471

Run #	Conc (ppb)	Peak Area	Peak Area	DMA Conc (ppb)	DMA Peak Area	MMA Conc (ppb)
				0	0.00	0
				0	0.00	0
				0	0.00	0
				999	0.02	994
				1070	0.02	1017
				1064	0.02	1037
				1044	0.02	1007
				2368	0.05	2205
				9059	0.19	9209
				22355	0.47	23408
				90331	1.89	91121
				227916	4.73	236740
				924680	18.93	917046
					1.89	917046
				48280.2911		48535.308
						48600.8664
				0		





Run #	Dil Fac	TV	DMA Peak Area	MMA Peak Area	Conc (ppb) DMA	Conc (ppb) MMA	Remarks	DMA Calc.	MMA Calc.
6102701 blank	1		0	0	0.00	0.00			
6102702 blank	1		0	0	0.00	0.00			
6102703 blank	1		0	0	0.00	0.00			
6102704 blank	1		0	0	0.00	0.00			
6102705 0.02 ppb 5DM	1		999	994	0.021	0.020	Mean ppb=	0.0216	0.0209
6102706 0.02 ppb 5DM	1		1070	1017	0.02	0.02	stdev=	0.0007	0.0004
6102707 0.02 ppb 5DM	1		1064	1037	0.02	0.02	eMDL=	0.0020	0.0011
6102708 0.02 ppb 5DM	1		1044	1007	0.02	0.02			
6102709 0.05 ppb	1		2368	2205	0.05	0.05			
6102710 0.2 ppb	1		9059	9209	0.19	0.19			
6102711 0.5 ppb	1		22355	23408	0.46	0.48			
6102712 2 ppb	1		90331	91121	1.87	1.88			
6102713 5 ppb	1		227916	236740	4.72	4.88			
6102714 20 ppb	1		924680	917046	19	19			
6102715 Rinse	1		0	0	0	0			
6102716 ICV 2 ppb As3	1	2	0	0	0.0	0.0		TV=1.34	TV=1.011
6102717 ICV 2ppb 5MD	1	2	65894	55995	1.4	1.2	%Rec=	101.9	114.1
6102718 ICB	2		0	0	0	0			
6102719 1640 25x	25	26.67	0	0	0.00	0.00			
6102720 CCV1 2ppb	1	2	90414	92960	1.87	1.92	%Rec=	93.6	101.2
6102721 CCB1	1		0	0	0.00	0.00			
6102722 PB1	1		0	0	0.00	0.00	PB Average=	0.00	0.00
6102723 PB2	1		0	0	0.00	0.00	PB RSD=	0.0	0.0
6102724 PB3	1		0	0	0.00	0.00	eMDL=	0	0
6102725 PB4	1		0	0	0.00	0.00			
6102726 MW-C-102406-ASC-B-821-F A 20X	20		0	633	0.00	0.26	AD Average=	0.0	0.3
6102727 MW-C-102406-ASC-B-821-F AD 20X	20		0	635	0.00	0.26	MD RPD	0.0	0.3
6102728 MW-C-102406-ASC-B-821-F AS + 2ppb 20X	20	40	88755	88196	36.77	36.34	AS %Rec.=	91.9	95.3
6102729 MW-C-102406-ASC-B-821-F ASD + 2ppb 20	20	40	87954	86880	36.43	35.80	ASD %Rec.=	91.1	93.9
6102730 MW-C-102406-ASC-B-779-F + 2 ppb 20X	20	40	90003	87359	37.28	36.00	AS %Rec.=	93.2	94.4
6102731 MW-C-102406-ASC-B-742-F + 2 ppb 20X	20	40	89441	87238	37.05	35.95	ASD %Rec.=	92.6	94.3
6102732 CCV2 2ppb	1	2	89083	86853	1.85	1.79	%Rec=	92.3	94.5
6102733 CCB2	1		0	0	0.00	0.00			
6102734 MW-F-102406-F 20X	20		0	0	0.00	0.00			
6102735 DUP-102406-GW-F 20X	20		0	0	0.00	0.00			
6102736 MW-B-102406-F 20X	20		1263	574	0.52	0.24			
6102737 MW-113B-102406-F 20X	20		1817	1173	0.75	0.48			
6102738 EB-102406-GW-F 20X	20		0	0	0.00	0.00			
6102744 CCV3 2 ppb	1	2	91328	88270	1.89	1.82	%Rec=	94.6	96.1
6102745 CCB3	1		0	0	0.00	0.00			

0015

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 3:51:50 PM
Sample Name	: 6102702	Data Acquisition Time	: 10/27/2006 4:37:58 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

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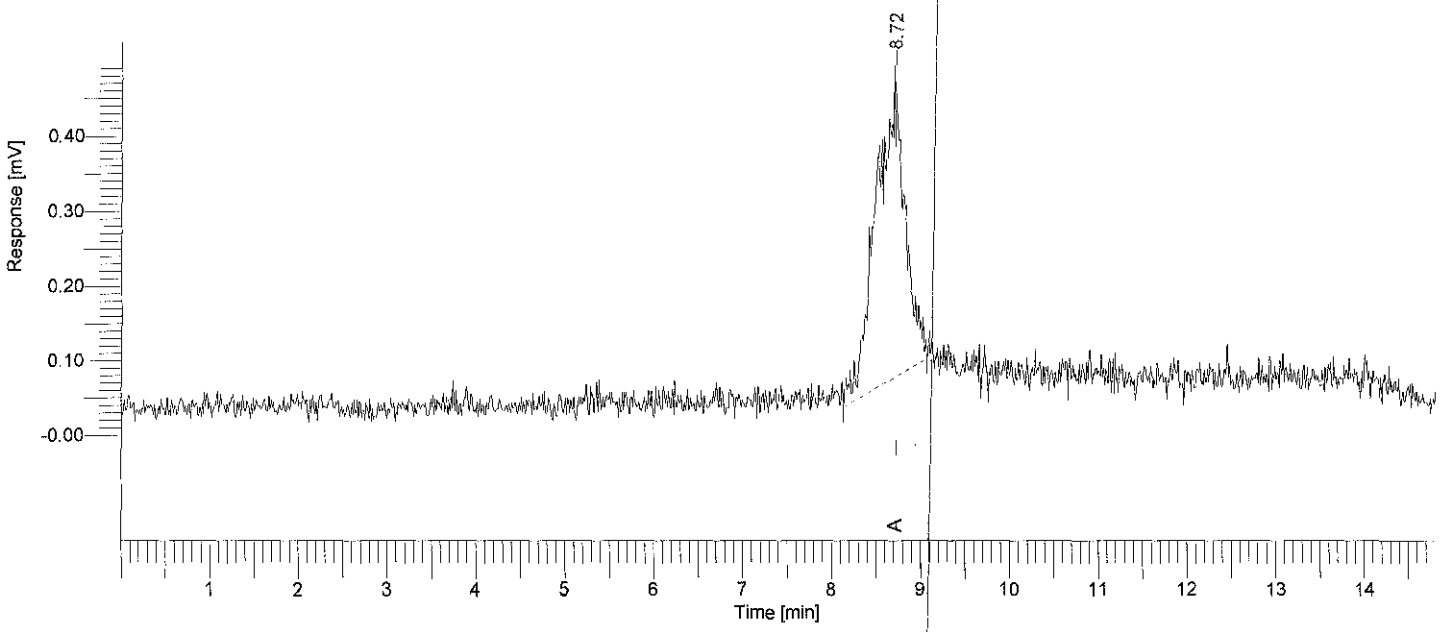
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.721	9105.04
AsF6	17.155	0.00
		9105.04

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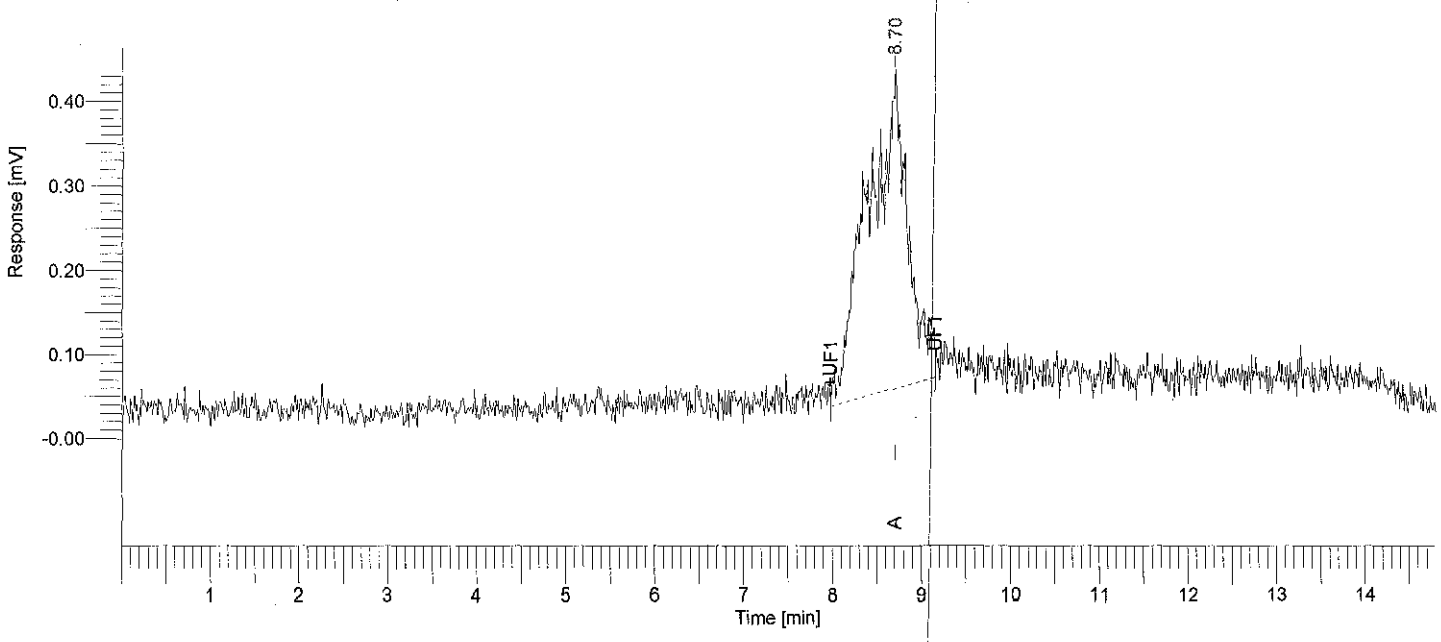
Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 3:51:55 PM
Sample Name	: 6102703	Data Acquisition Time	: 10/27/2006 4:55:52 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102703-061030-081413_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.697	11675.14
AsF6	17.155	0.00
		11675.14

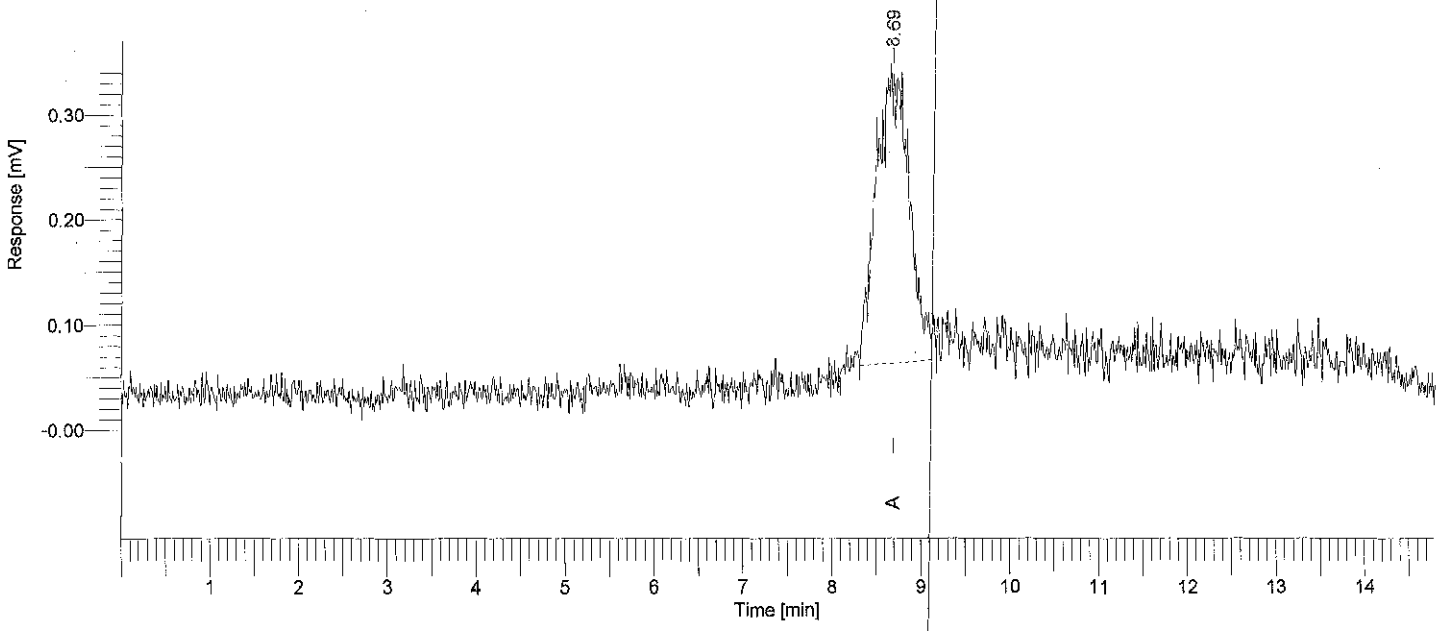
11/2/2006 3:51:55 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102703-061030-081413_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 3:51:59 PM
Sample Name	: 6102704	Data Acquisition Time	: 10/27/2006 5:11:27 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 4		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102704-061030-081419_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.688	7222.12
AsF6	17.155	0.00
		7222.12

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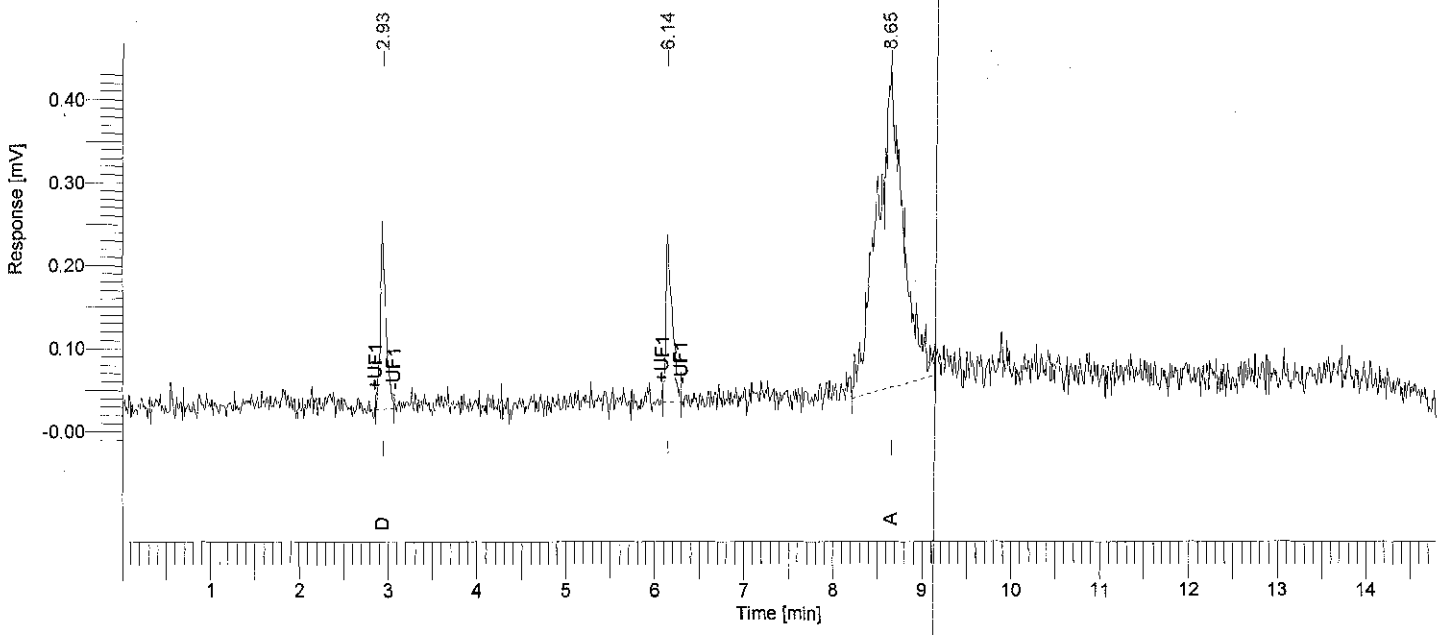
Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 3:52:03 PM
Sample Name	: 6102705	Data Acquisition Time	: 10/27/2006 5:26:39 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 5		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102705-061030-081426_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.935	998.84
As3	3.922	0.00
MMAs	6.141	993.92
As5	8.654	7974.72
AsF6	17.155	0.00
		9967.48

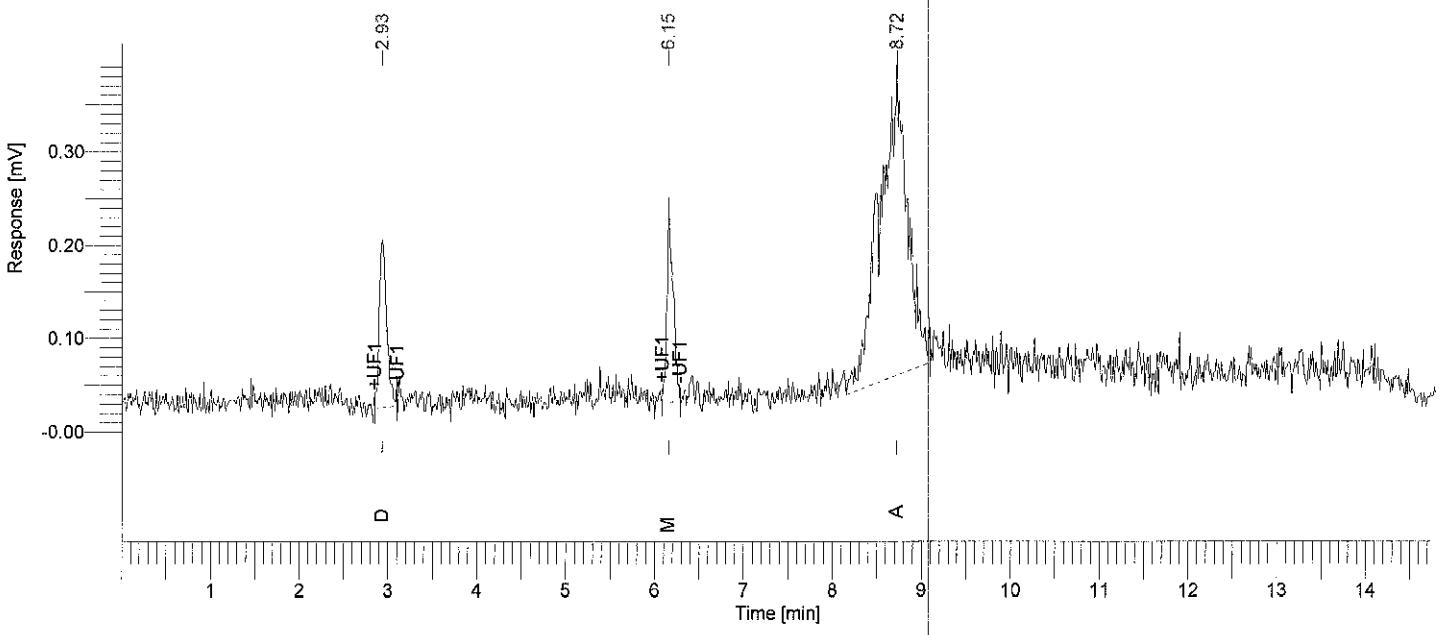
11/2/2006 3:52:03 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102705-061030-081426_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:30:45 PM
Sample Name	: 6102706	Data Acquisition Time	: 10/27/2006 5:41:49 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 6		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102706-061030-081433_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.935	1069.59
As3	3.922	0.00
MMAs	6.153	1016.87
As5	8.723	7083.67
AsF6	17.155	0.00
		9170.14

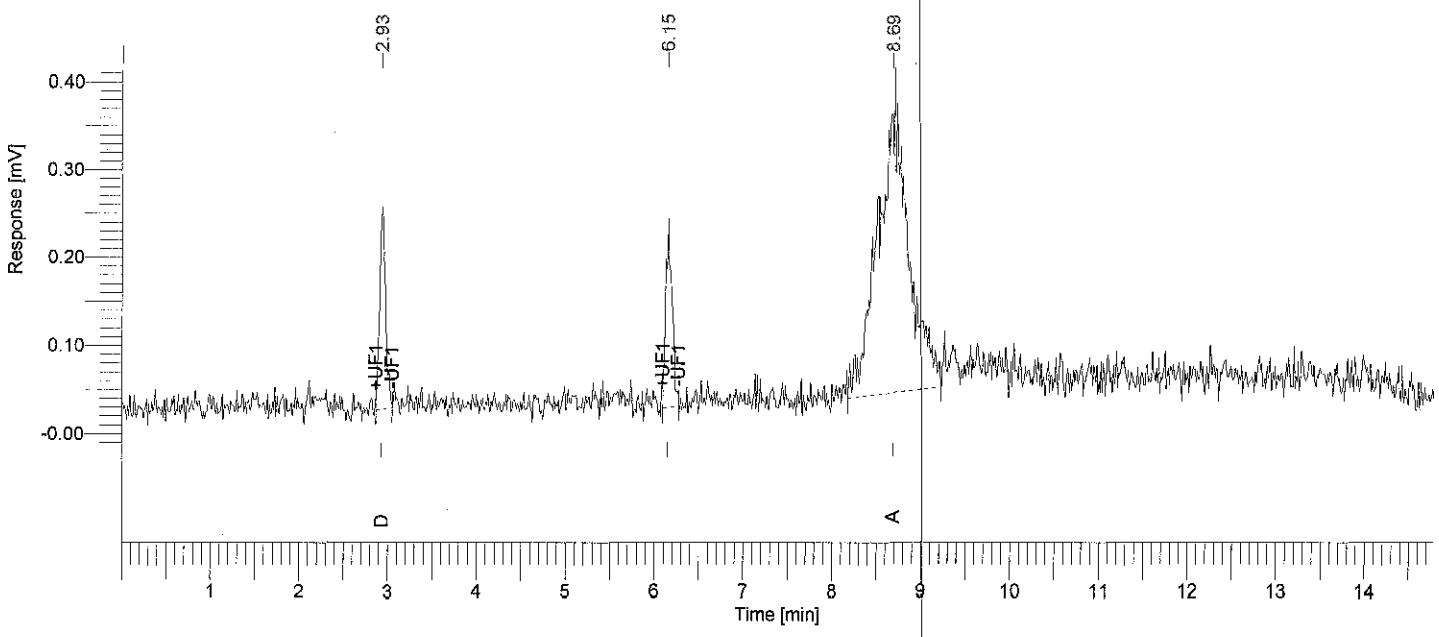
11/2/2006 4:30:45 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102706-061030-081433_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:30:59 PM
Sample Name	: 6102707	Data Acquisition Time	: 10/27/2006 5:57:01 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 7		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102707-061030-081439_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.935	1064.23
As3	3.922	0.00
MMAs	6.153	1037.20
As5	8.689	8084.06
AsF6	17.155	0.00
		10185.49

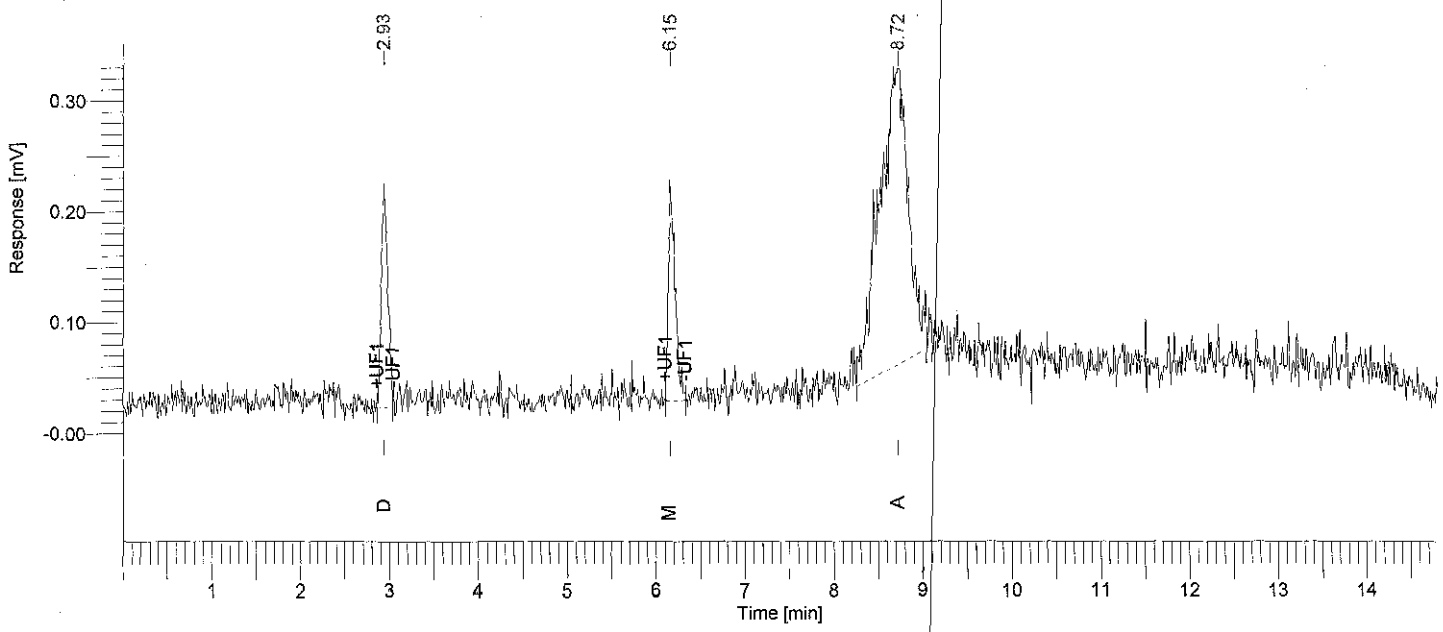
11/2/2006 4:30:59 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102707-061030-081439_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:31:06 PM
Sample Name	: 6102708	Data Acquisition Time	: 10/27/2006 6:12:11 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 8		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102708-061030-081446_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.935	1043.88
As3	3.922	0.00
MMAs	6.153	1006.89
As5	8.718	6127.30
AsF6	17.155	0.00
		8178.07

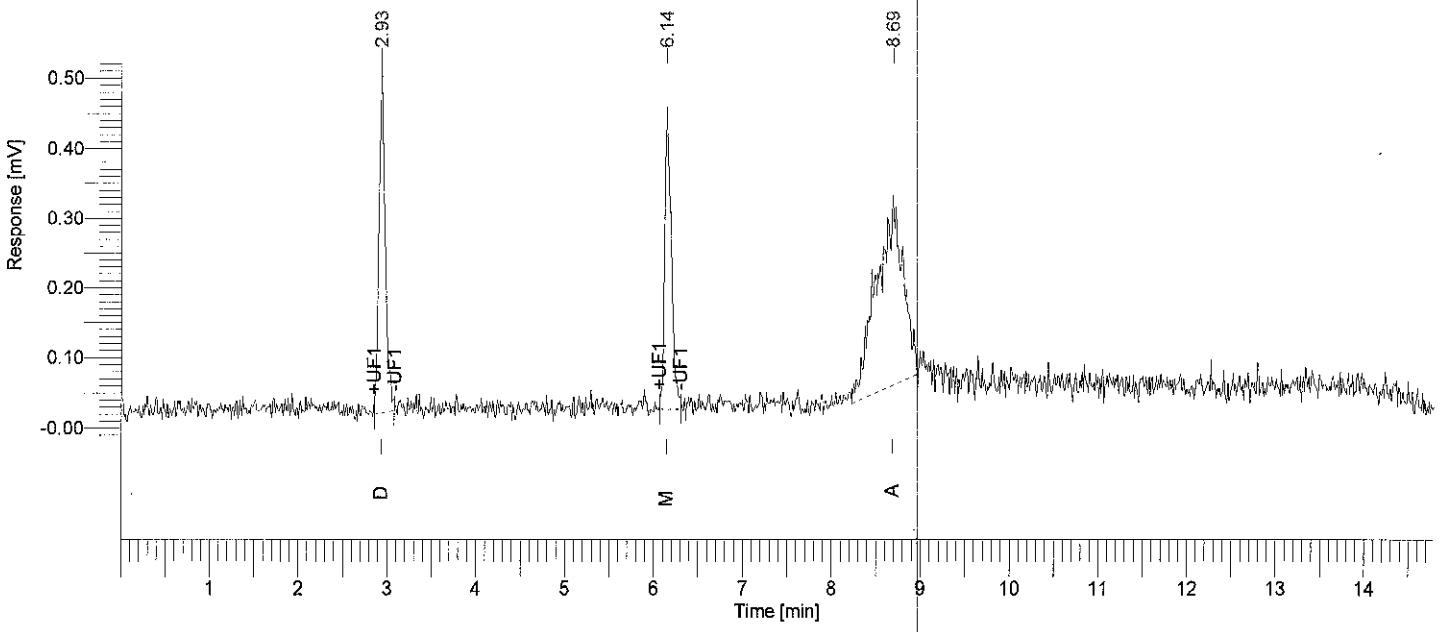
11/2/2006 4:31:06 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102708-061030-081446_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:31:18 PM
Sample Name	: 6102709	Data Acquisition Time	: 10/27/2006 6:27:23 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 9		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102709-061030-081452_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.935	2367.76
As3	3.922	0.00
MMAs	6.141	2205.02
As5	8.690	5540.84
AsF6	17.155	0.00
		10113.62

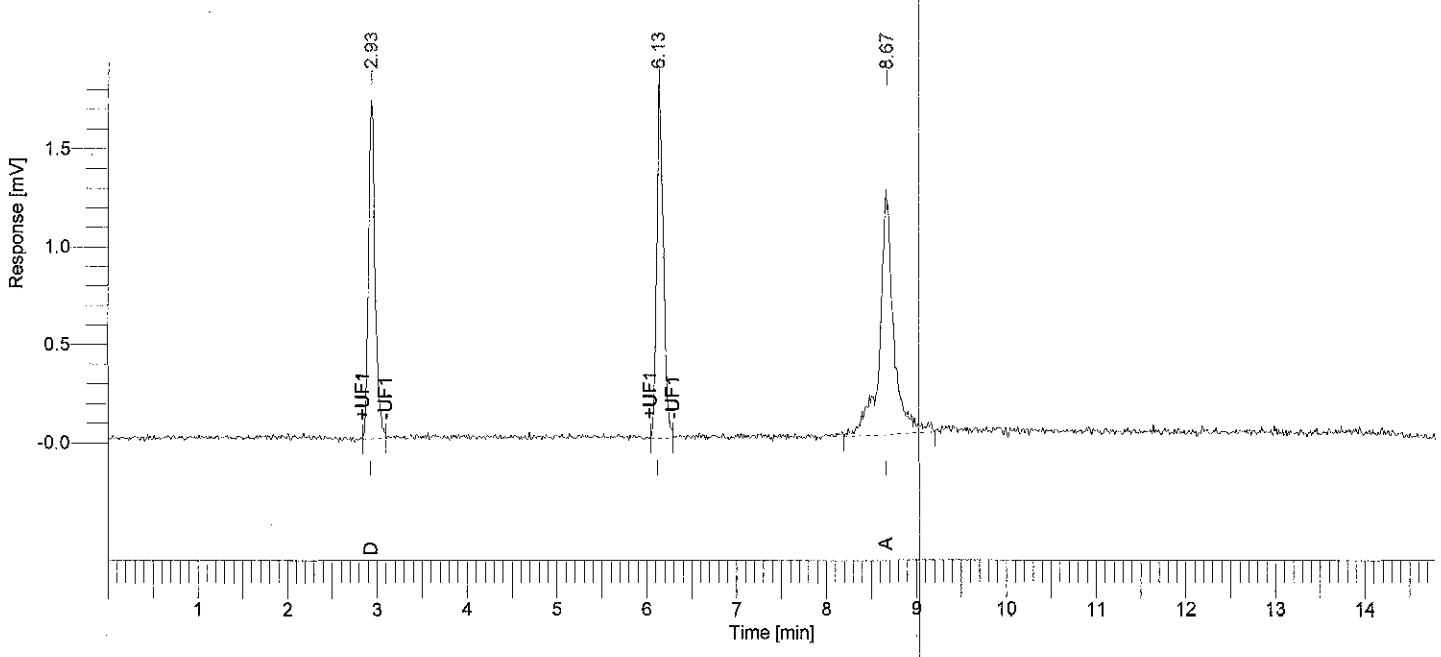
11/2/2006 4:31:18 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102709-061030-081452_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:31:30 PM
Sample Name	: 6102710	Data Acquisition Time	: 10/27/2006 6:42:33 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 10		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102710-061030-081459_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.935	9059.39
As3	3.922	0.00
MMAs	6.130	9208.75
As5	8.668	13546.80
AsF6	17.155	0.00
		31814.94

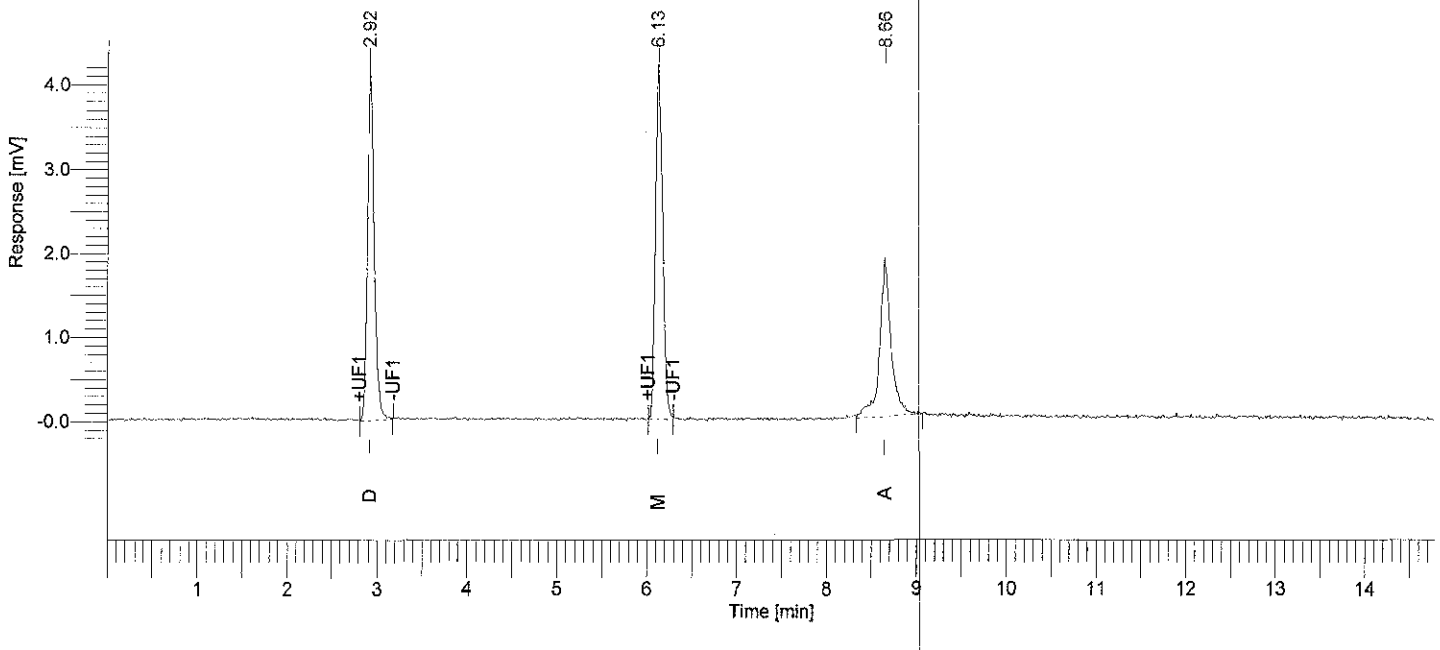
11/2/2006 4:31:30 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102710-061030-081459_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:31:39 PM
Sample Name	: 6102711	Data Acquisition Time	: 10/27/2006 6:57:45 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 11		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102711-061030-081505_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.923	22355.31
As3	3.922	0.00
MMAs	6.130	23408.13
As5	8.657	16753.16
AsF6	17.155	0.00
		62516.60

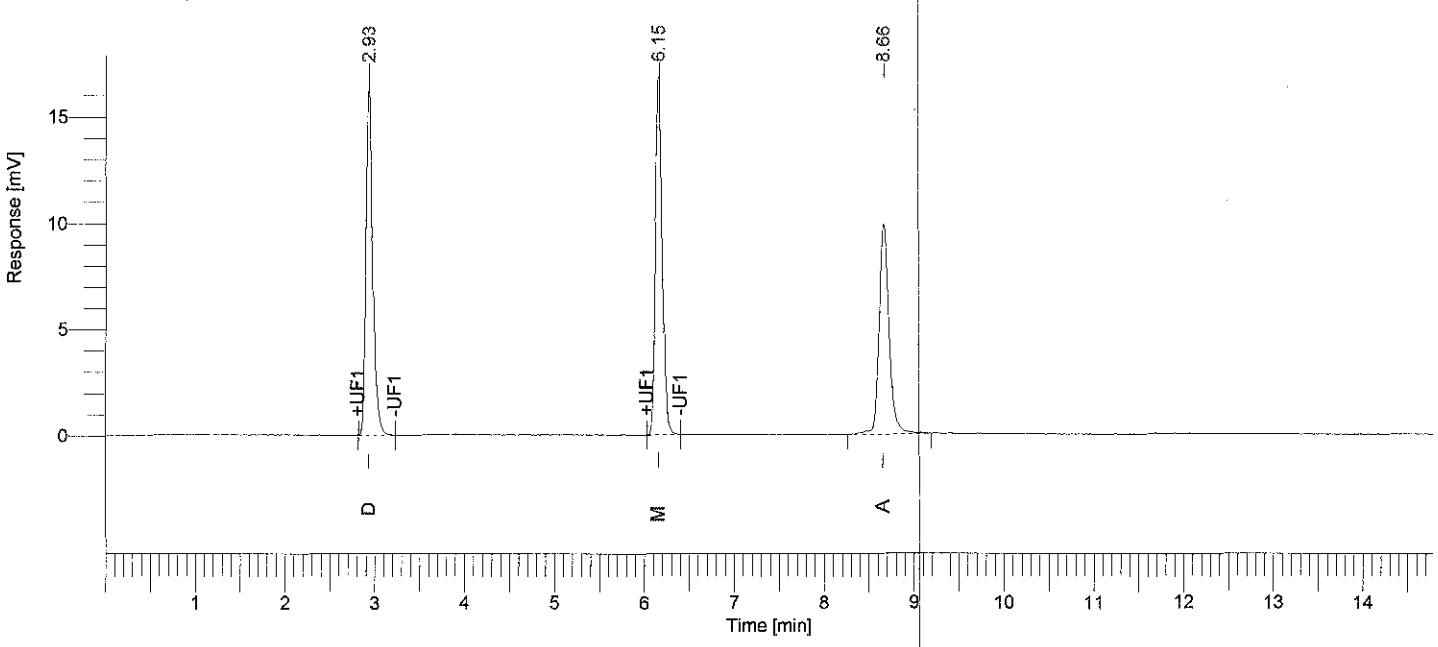
11/2/2006 4:31:39 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102711-061030-081505_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:31:45 PM
Sample Name	: 6102712	Data Acquisition Time	: 10/27/2006 7:12:55 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 12		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102712-061030-081512_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.935	90331.48
As3	3.922	0.00
MMAs	6.153	91121.13
As5	8.655	76802.83
AsF6	17.155	0.00
		258255.44

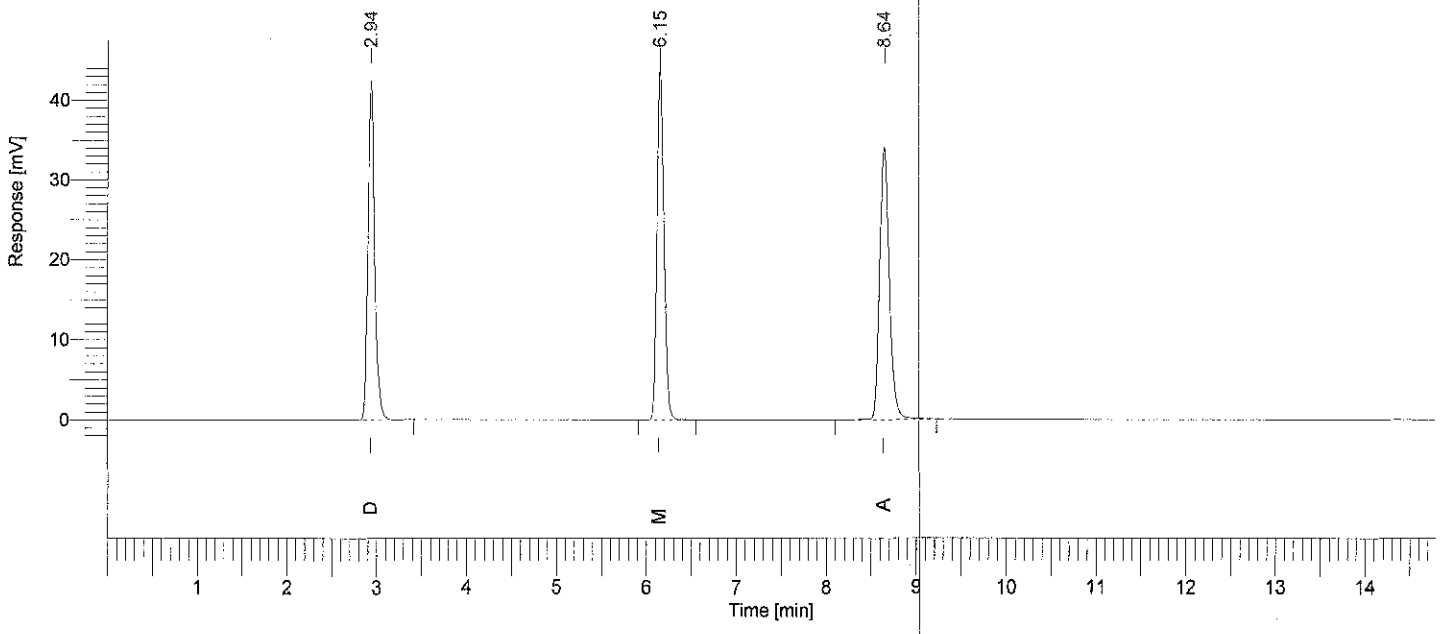
11/2/2006 4:31:45 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102712-061030-081512_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:31:52 PM
Sample Name	: 6102713	Data Acquisition Time	: 10/27/2006 7:28:07 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 13		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102713-061030-081518_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.936	227915.68
As3	3.922	0.00
MMAs	6.147	236739.56
As5	8.643	257213.12
AsF6	17.155	0.00
		721868.36

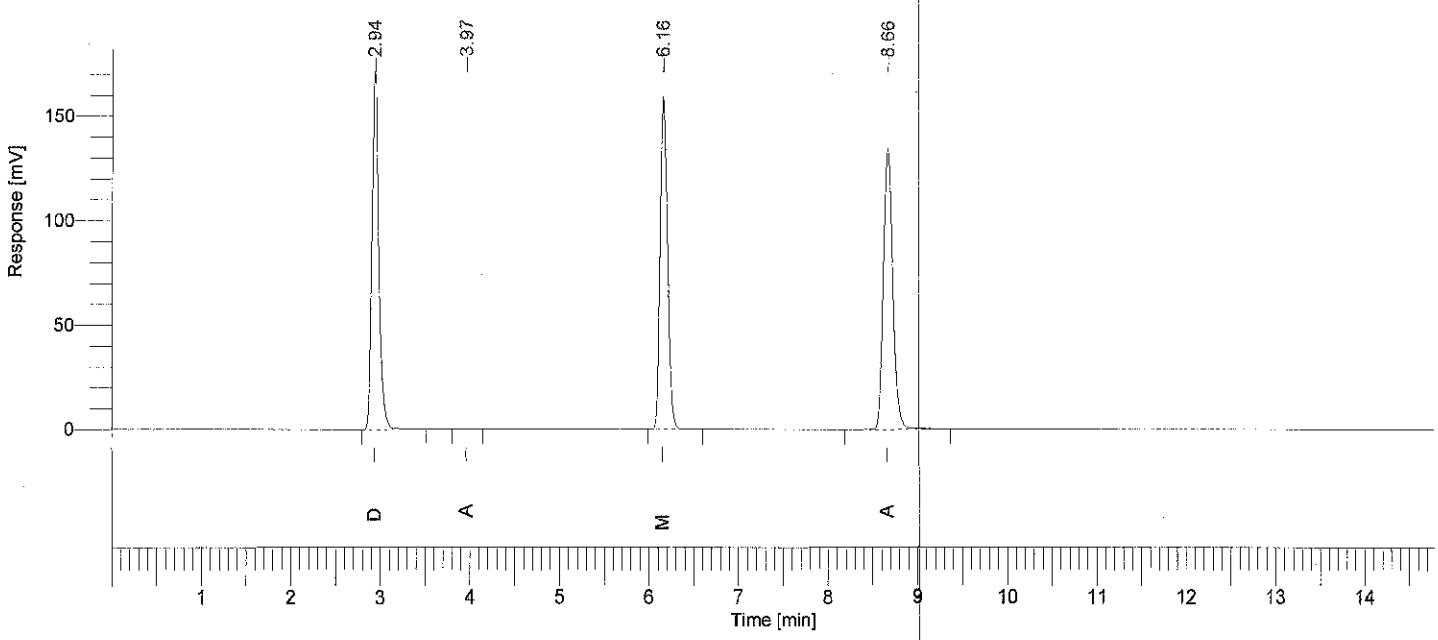
11/2/2006 4:31:52 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102713-061030-081518_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:32:02 PM
Sample Name	: 6102714	Data Acquisition Time	: 10/27/2006 7:43:17 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 14		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102714-061030-081525_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

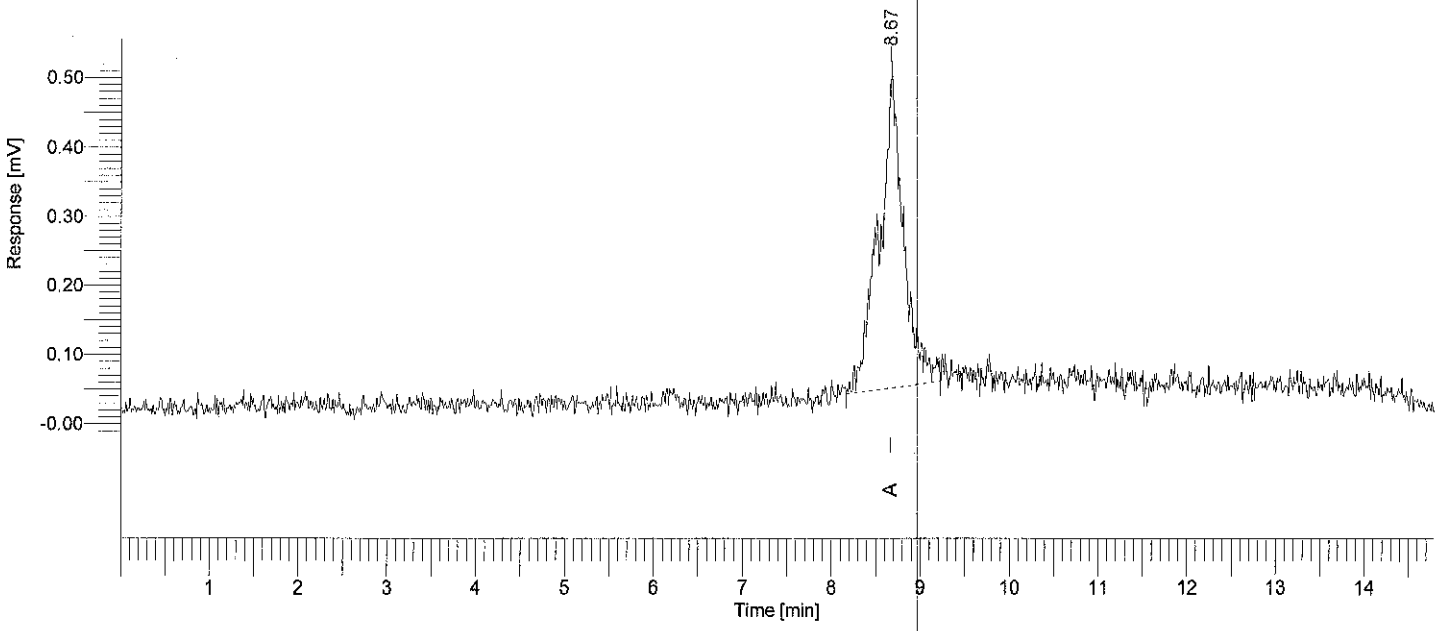
Component Name	Time [min]	Area [uV*sec]
DMAs	2.940	924679.86
As3	3.966	938.62
MMAs	6.156	917045.94
As5	8.664	984042.25
AsF6	17.155	0.00
		2826706.67

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:32:09 PM
Sample Name	: 6102715	Data Acquisition Time	: 10/27/2006 7:58:29 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 15		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102715-061030-081532_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.668	8789.09
AsF6	17.155	0.00
		8789.09

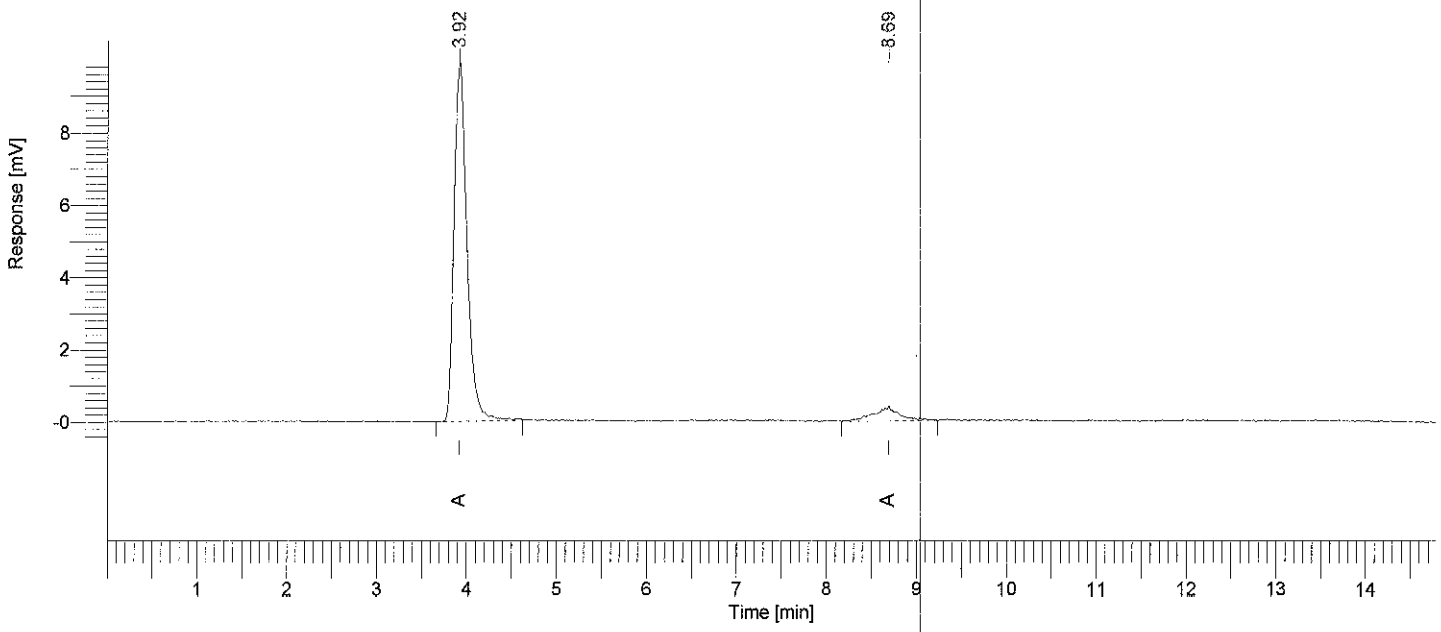
11/2/2006 4:32:09 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102715-061030-081532_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:32:16 PM
Sample Name	: 6102716	Data Acquisition Time	: 10/27/2006 8:13:39 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 16		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102716-061030-081538_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	99302.73
MMAs	6.158	0.00
As5	8.687	8022.29
AsF6	17.155	0.00
		107325.02

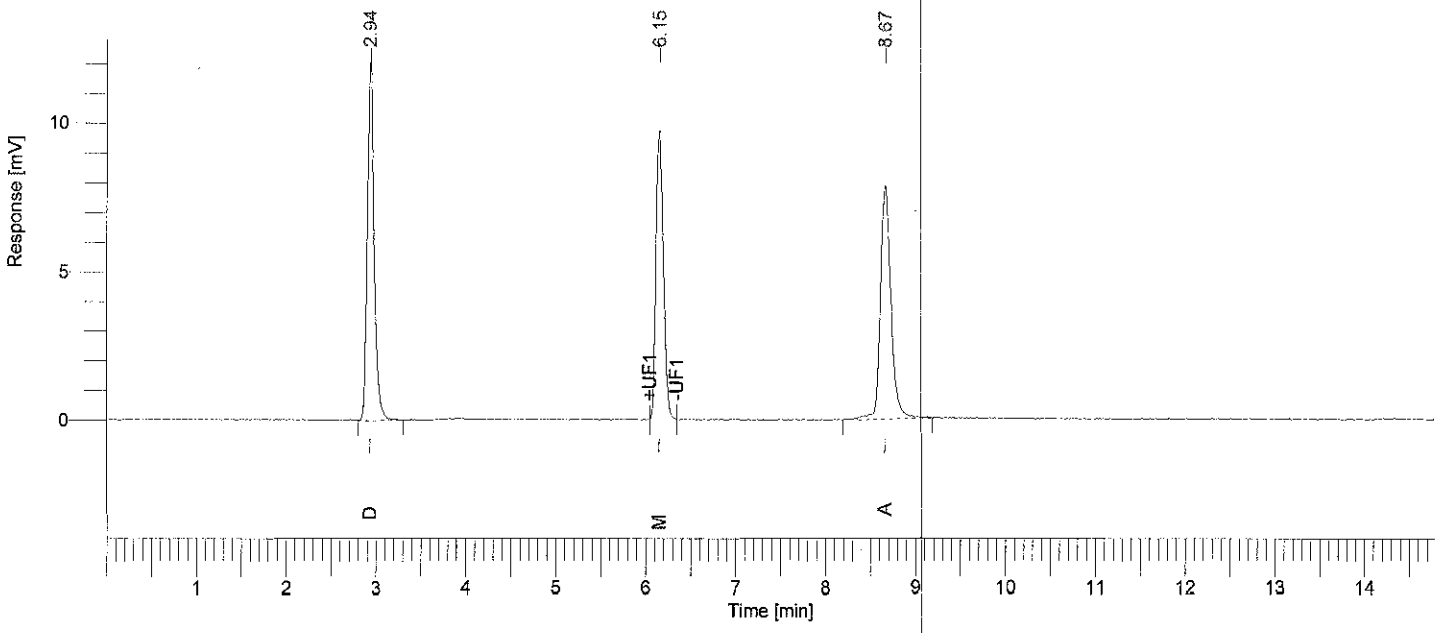
11/2/2006 4:32:16 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102716-061030-081538_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:32:23 PM
Sample Name	: 6102717	Data Acquisition Time	: 10/27/2006 8:28:51 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 17		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102717-061030-081545_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.938	65893.68
As3	3.922	0.00
MMAs	6.153	55995.13
As5	8.666	64977.78
AsF6	17.155	0.00
		186866.59

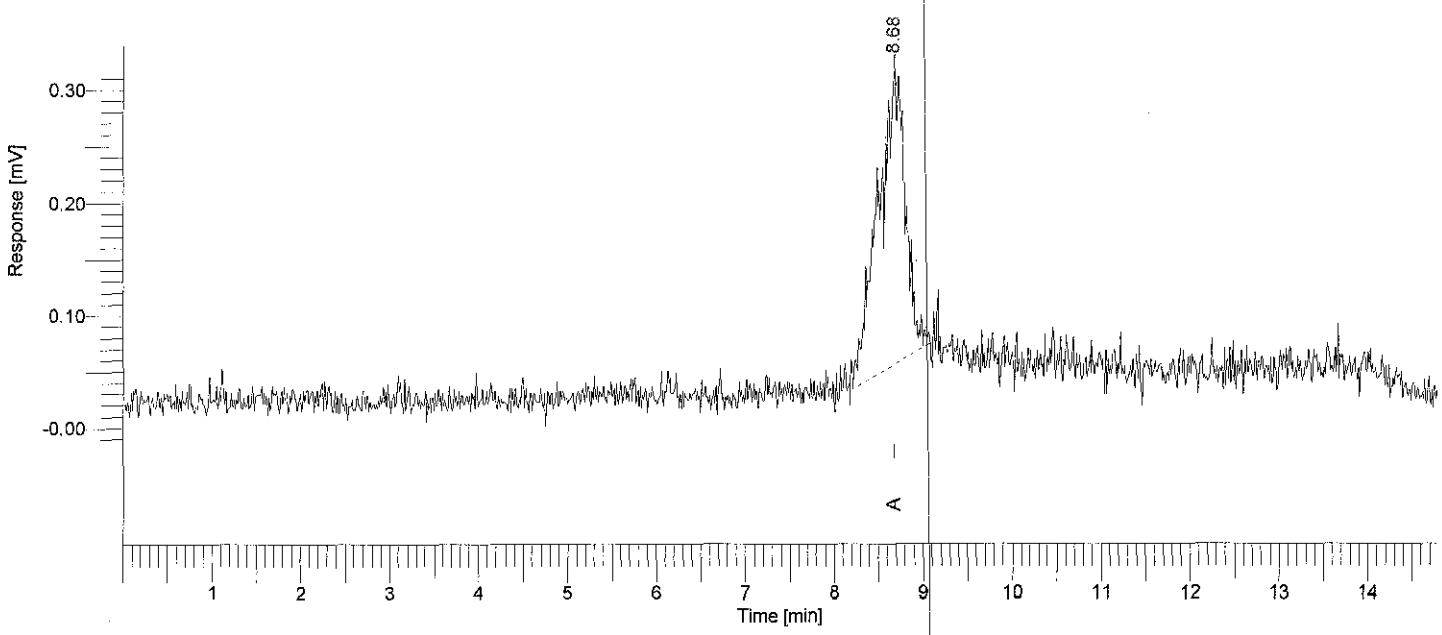
11/2/2006 4:32:23 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102717-061030-081545_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:32:33 PM
Sample Name	: 6102718	Data Acquisition Time	: 10/27/2006 8:44:01 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 18		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102718-061030-081551_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.675	5643.08
AsF6	17.155	0.00
		5643.08

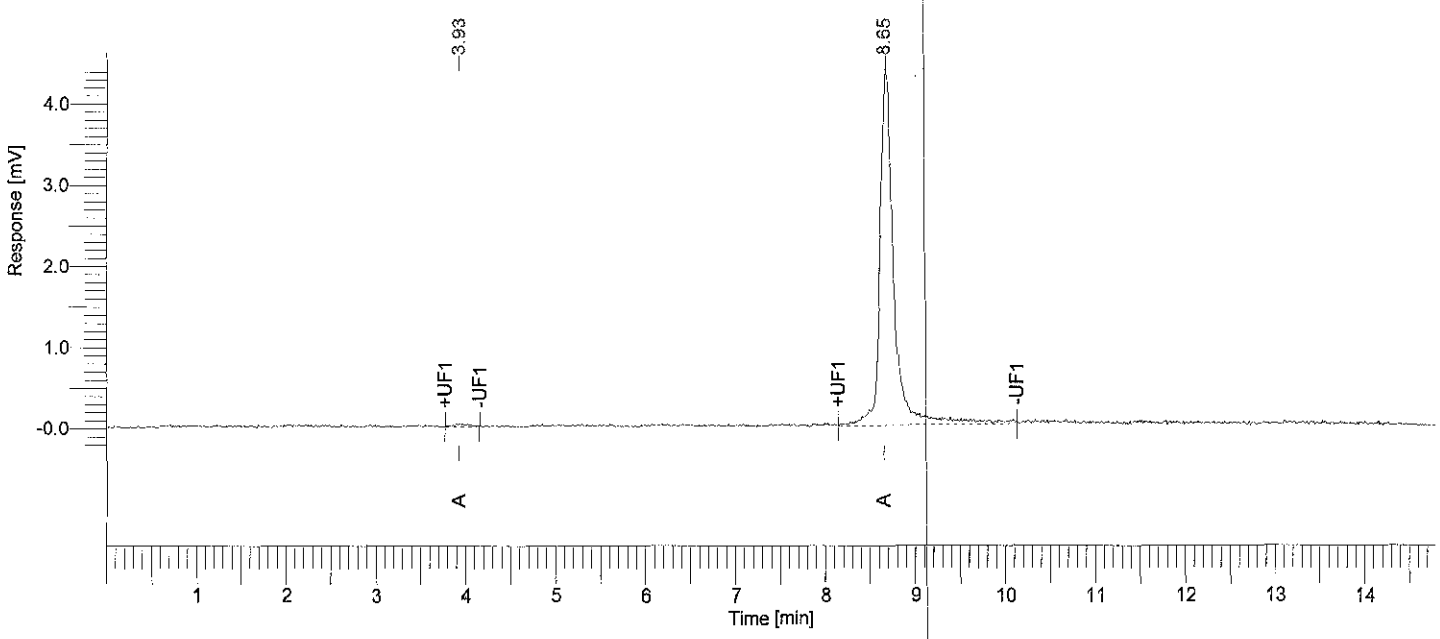
11/2/2006 4:32:33 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102718-061030-081551_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:32:45 PM
Sample Name	: 6102719	Data Acquisition Time	: 10/27/2006 8:59:13 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 19		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102719-061030-081558_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.929	476.76
MMAs	6.158	0.00
As5	8.650	47734.40
AsF6	17.155	0.00
		48211.16

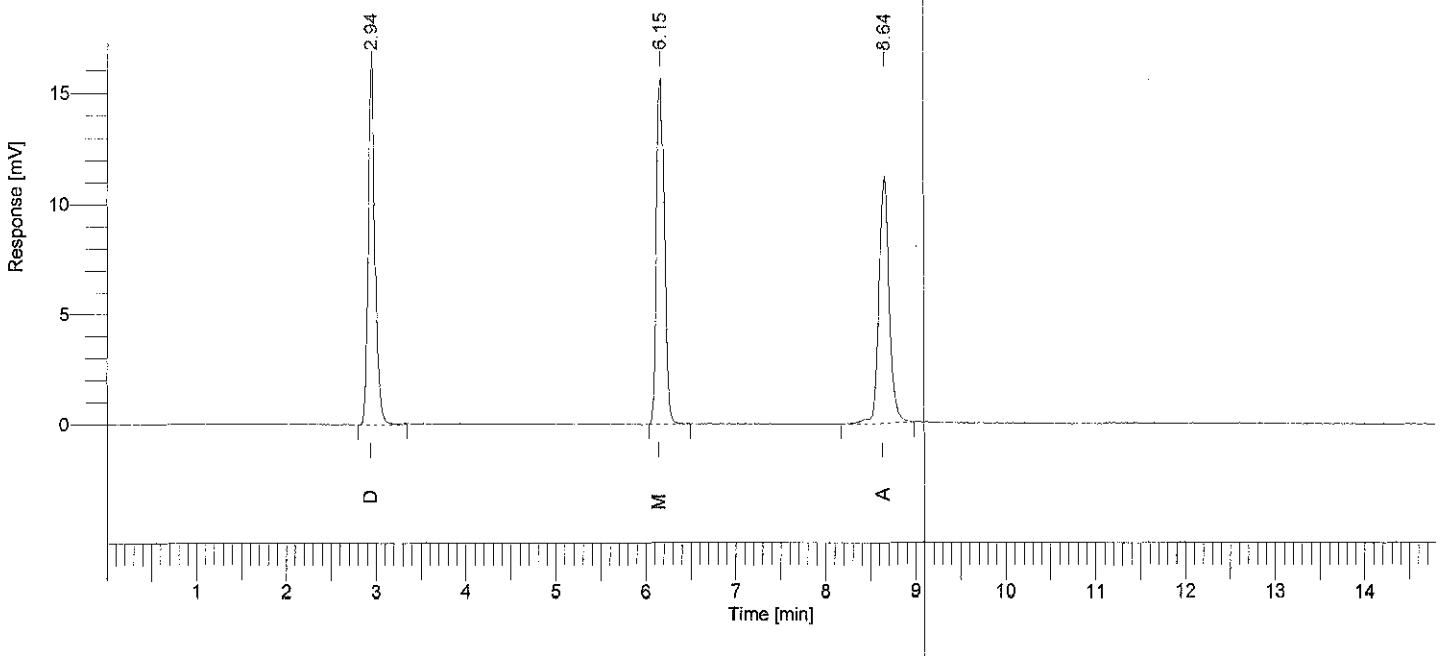
11/2/2006 4:32:45 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102719-061030-081558_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:32:54 PM
Sample Name	: 6102720	Data Acquisition Time	: 10/27/2006 9:14:23 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 20		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102720-061030-081604_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.940	90413.53
As3	3.922	0.00
MMAs	6.147	92960.30
As5	8.639	89089.38
AsF6	17.155	0.00
		272463.21

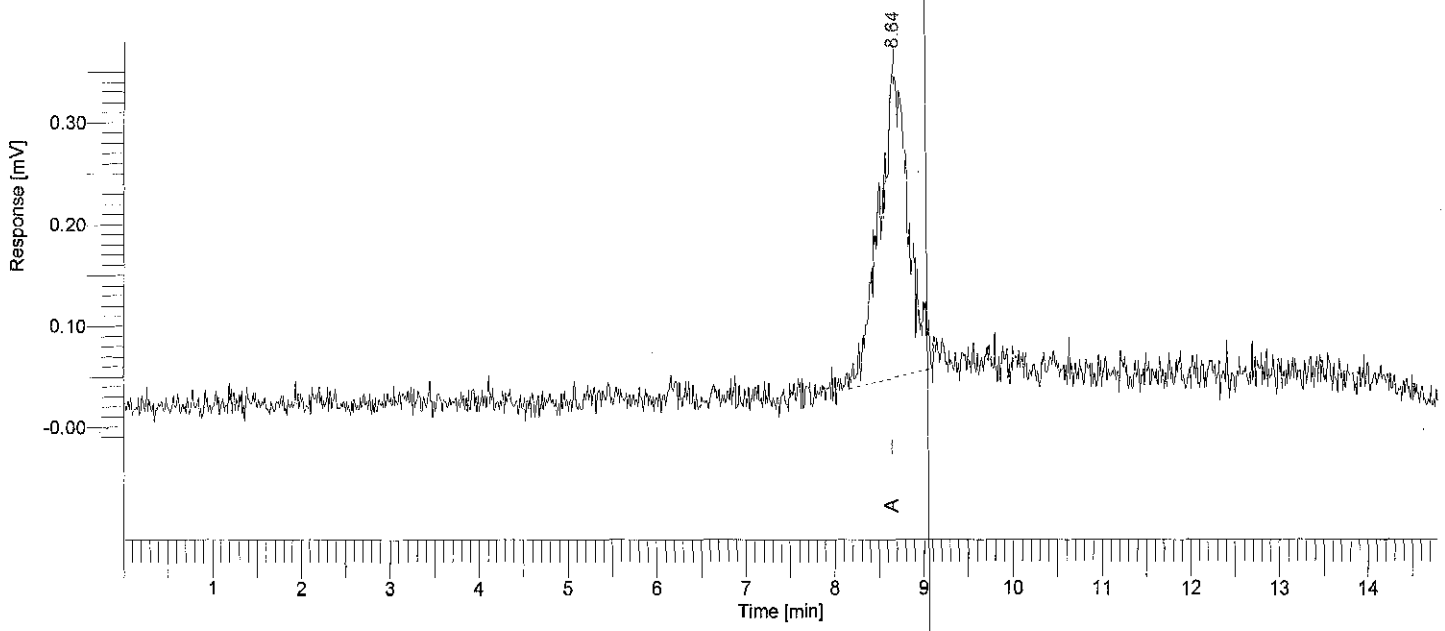
11/2/2006 4:32:54 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102720-061030-081604_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.922
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:32:59 PM
Sample Name	: 6102721	Data Acquisition Time	: 10/27/2006 9:29:35 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 21		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102721-061030-081611_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.645	6888.42
AsF6	17.155	0.00
		6888.42

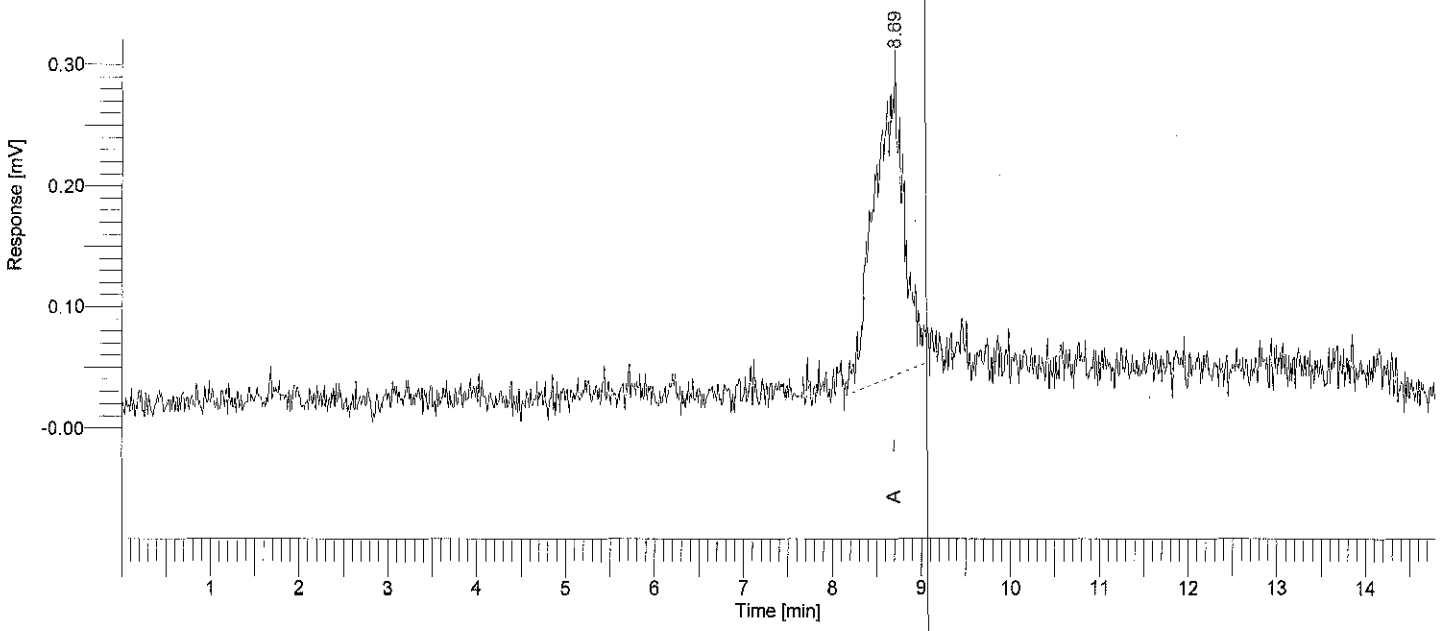
11/2/2006 4:32:59 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102721-061030-081611_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:33:09 PM
Sample Name	: 6102722	Data Acquisition Time	: 10/27/2006 9:44:45 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 22		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102722-061030-081617_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.693	5998.08
AsF6	17.155	0.00
		5998.08

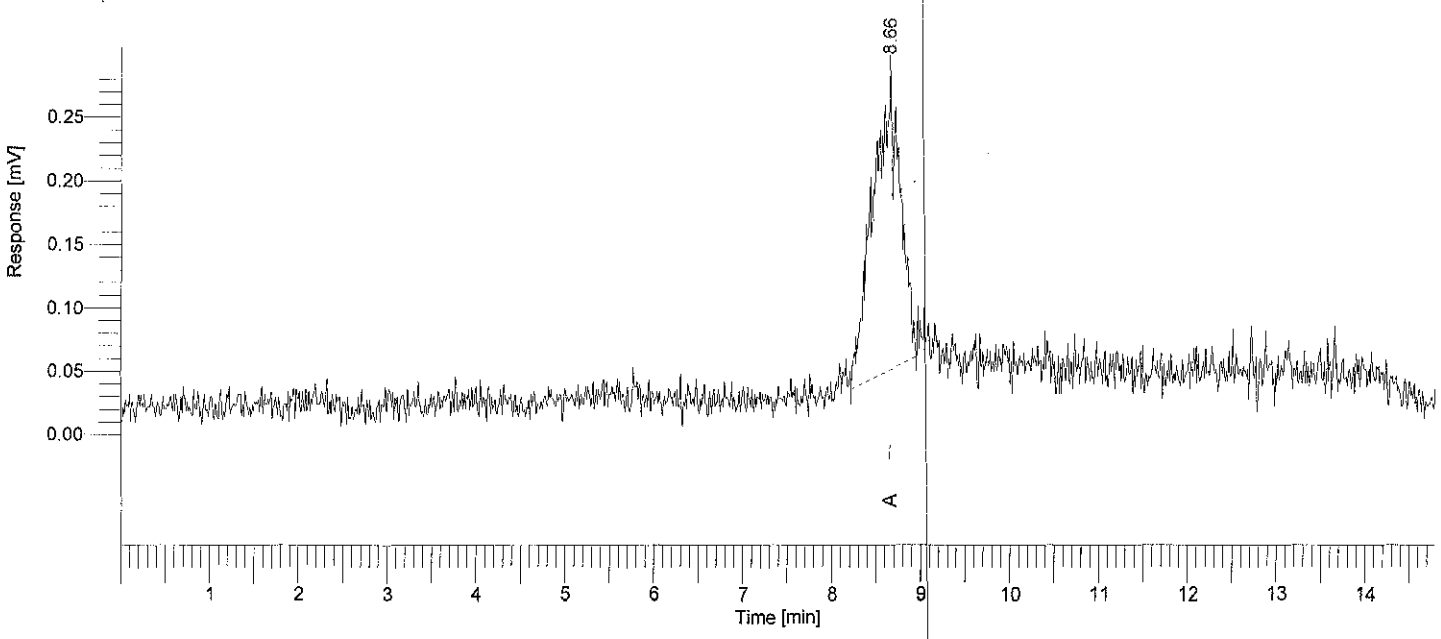
11/2/2006 4:33:09 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102722-061030-081617_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:33:15 PM
Sample Name	: 6102723	Data Acquisition Time	: 10/27/2006 9:59:57 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 23		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102723-061030-081624_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.657	5016.86
AsF6	17.155	0.00
		5016.86

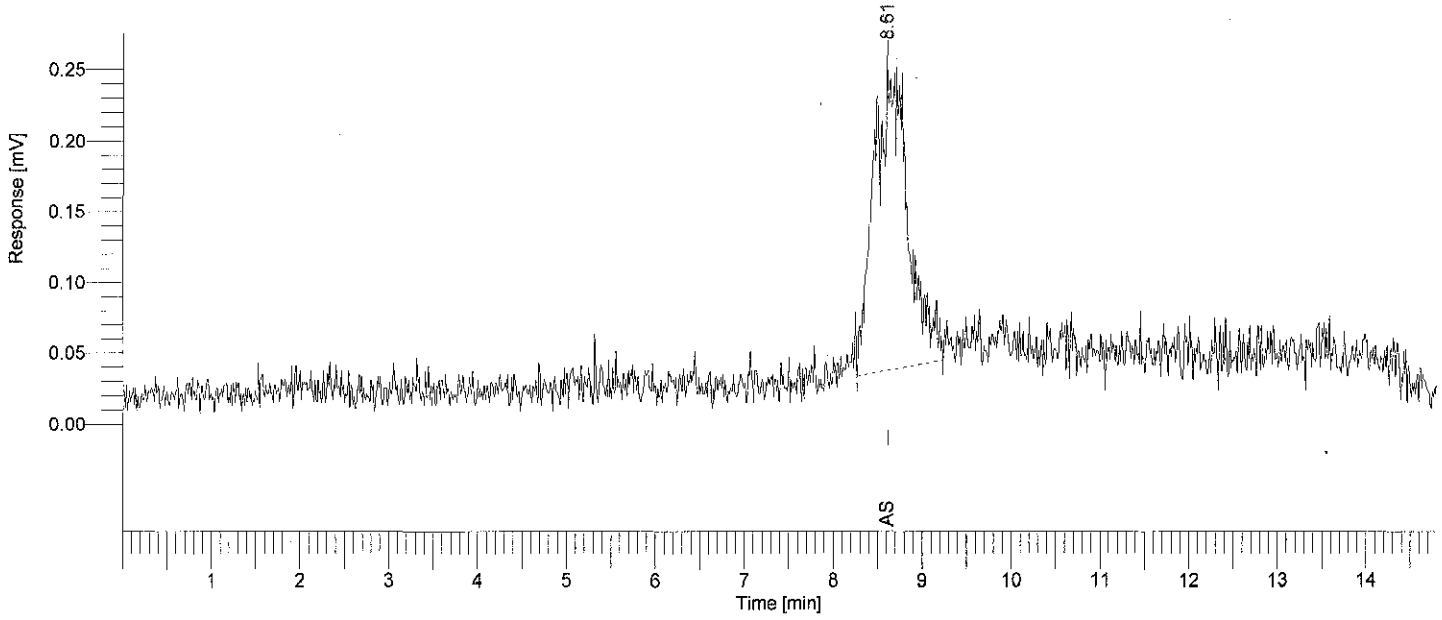
11/2/2006 4:33:15 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102723-061030-081624_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:33:22 PM
Sample Name	: 6102724	Data Acquisition Time	: 10/27/2006 10:15:07 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 24		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102724-061030-081630_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.613	5725.44
AsF6	17.155	0.00
		5725.44

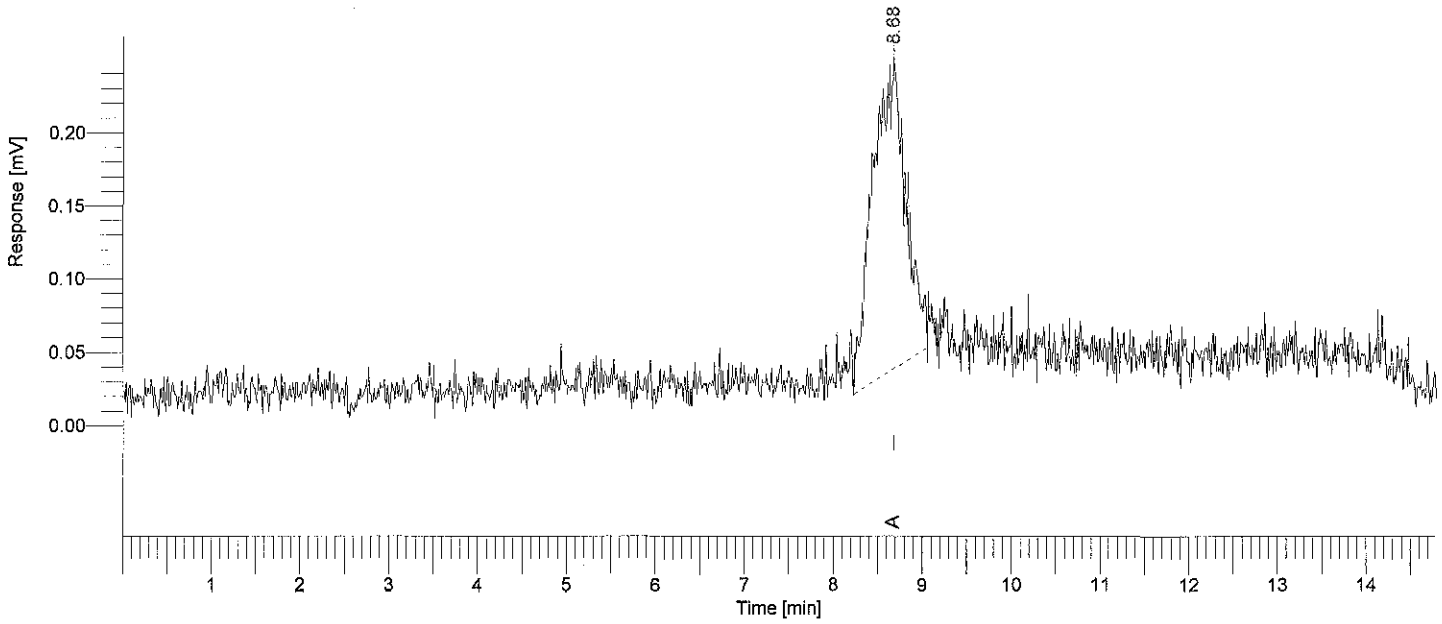
11/2/2006 4:33:22 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102724-061030-081630_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:33:28 PM
Sample Name	: 6102725	Data Acquisition Time	: 10/27/2006 10:30:19 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 25		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102725-061030-081637_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.677	5440.02
AsF6	17.155	0.00
		5440.02

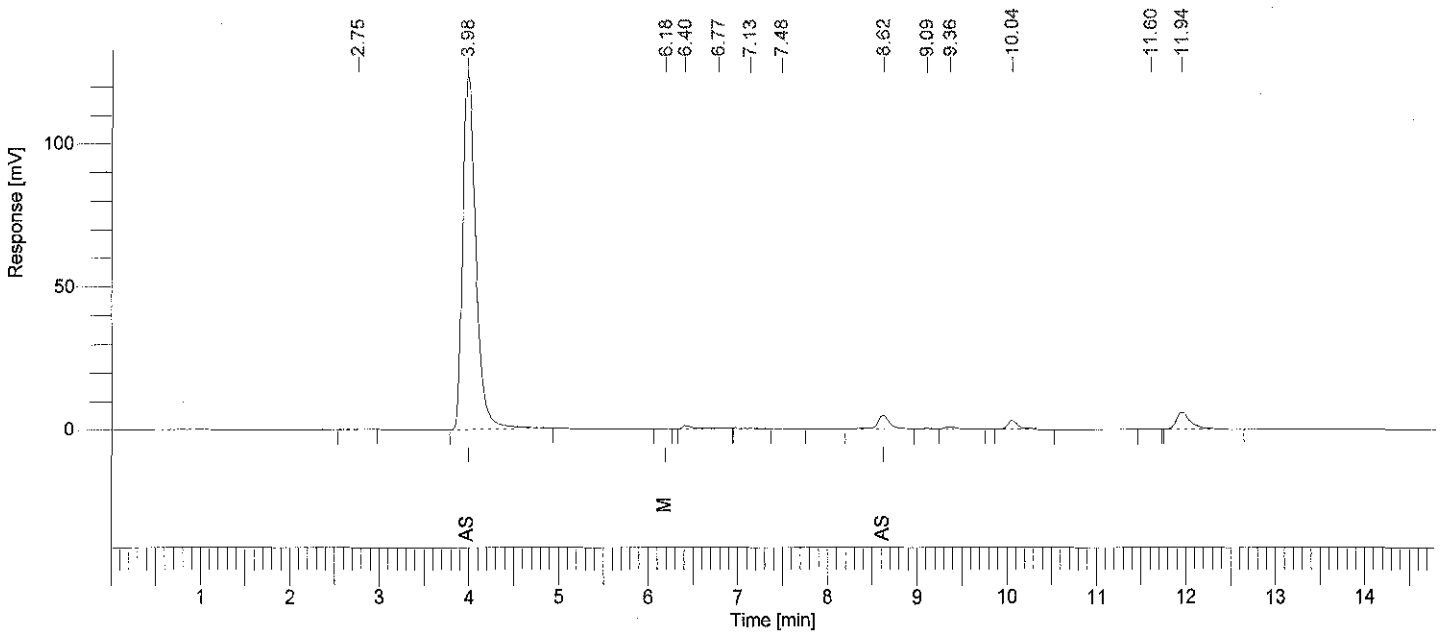
11/2/2006 4:33:28 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102725-061030-081637_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:33:36 PM
Sample Name	: 6102726	Data Acquisition Time	: 10/27/2006 10:45:29 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 26		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102726-061030-081644_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
	2.751	931.52
DMAs	2.933	0.00
As3	3.983	1272312.90
MMAs	6.184	633.32
	6.398	9178.28
	6.770	3893.64
	7.126	8332.04
	7.476	3830.60
As5	8.615	41812.92
	9.094	3421.91
	9.356	7966.17

11/2/2006 4:33:36 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102726-061030-081644_As.rst

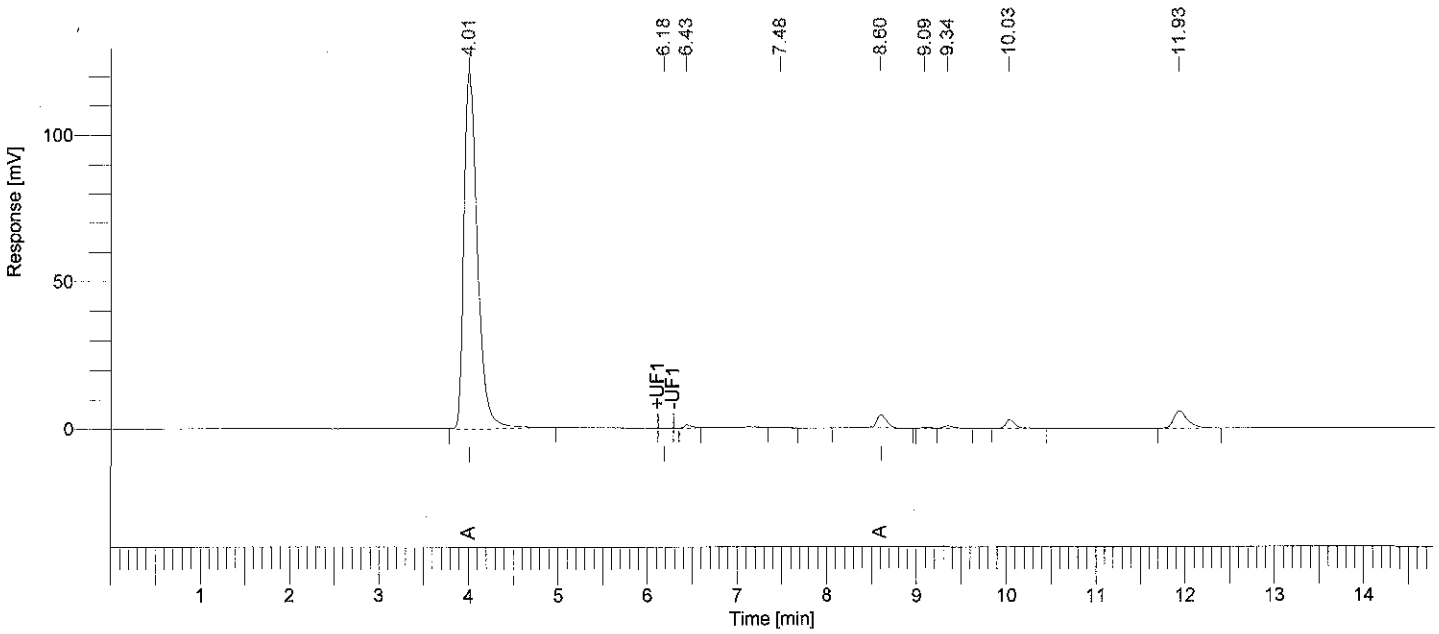
Component Name	Time [min]	Area [uV*sec]
	10.044	23151.68
	11.596	380.67
	11.939	64748.99
AsF6	17.155	0.00
		1440594.65

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:33:41 PM
Sample Name	: 6102727	Data Acquisition Time	: 10/27/2006 11:00:41 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 27		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102727-061030-081650_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	4.006	1277567.61
MMAs	6.177	634.72
	6.426	6497.92
	7.478	2084.56
As5	8.598	42956.42
	9.088	3265.07
	9.342	8295.15
	10.027	22711.48
	11.929	64516.28
AsF6	17.155	0.00
		1428529.21

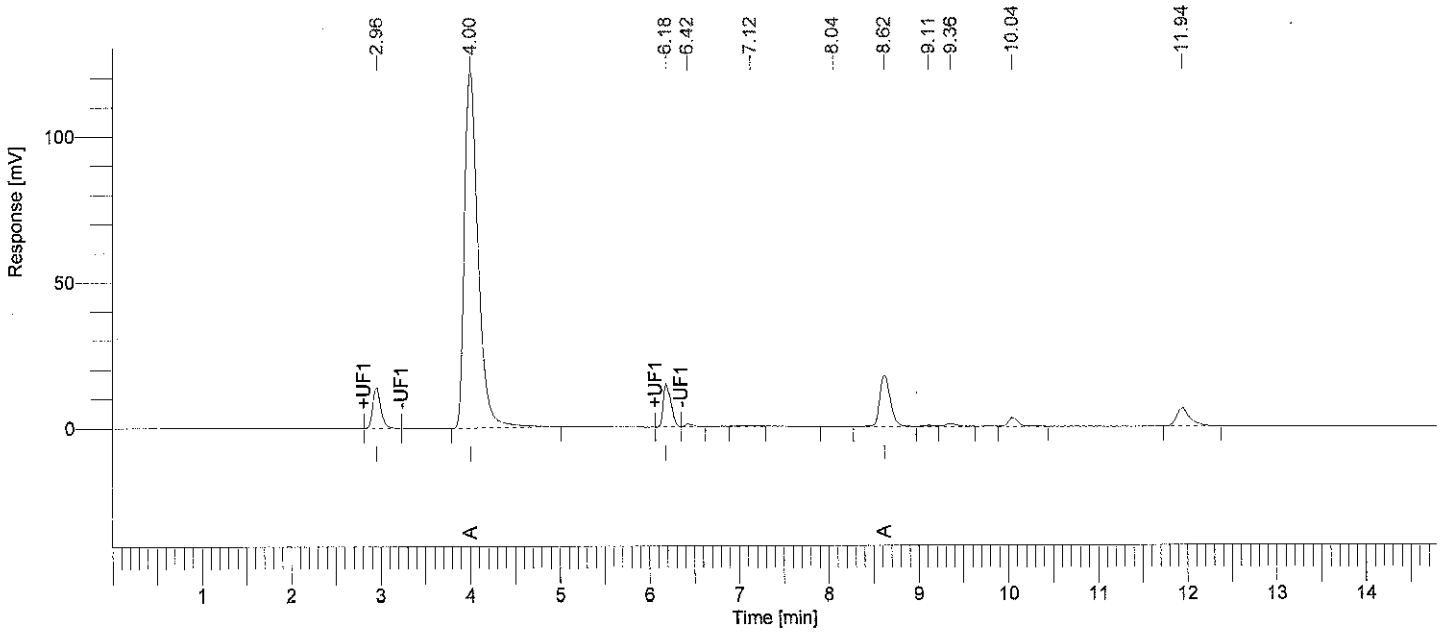
11/2/2006 4:33:41 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102727-061030-081650_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:33:47 PM
Sample Name	: 6102728	Data Acquisition Time	: 10/27/2006 11:15:51 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 28		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102728-061030-081657_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.958	88755.21
As3	4.004	1289369.94
MMAs	6.177	88196.21
	6.420	5976.78
	7.125	3525.15
	8.044	1526.04
As5	8.619	145435.97
	9.114	3918.01
	9.363	8683.25
	10.042	22968.50
	11.939	64724.31
AsF6	17.155	0.00
		1723079.36

0067

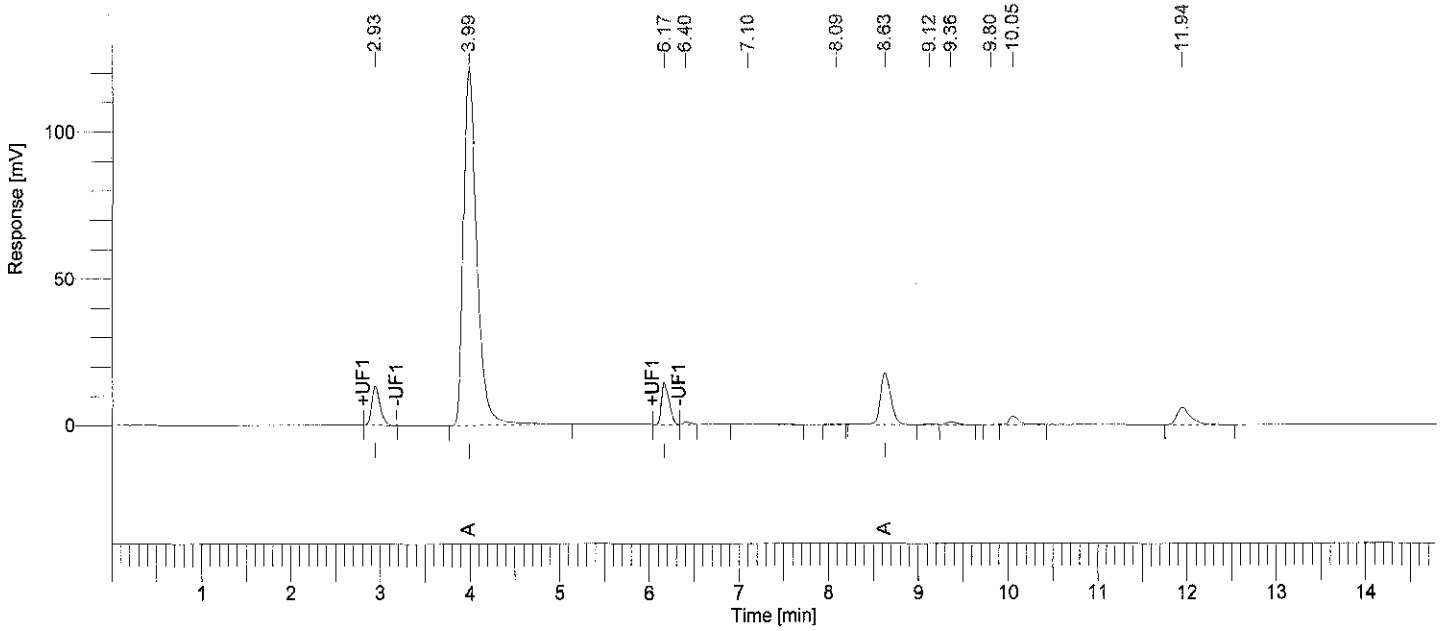
11/2/2006 4:33:47 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102728-061030-081657_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:33:53 PM
Sample Name	: 6102729	Data Acquisition Time	: 10/27/2006 11:31:03 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 29		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102729-061030-081703_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.935	87954.22
As3	3.988	1273906.85
MMAs	6.165	86879.74
	6.398	5541.55
	7.097	8957.36
	8.085	1252.22
As5	8.627	147384.83
	9.122	4019.07
	9.358	8862.97

11/2/2006 4:33:53 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102729-061030-081703_As.rst

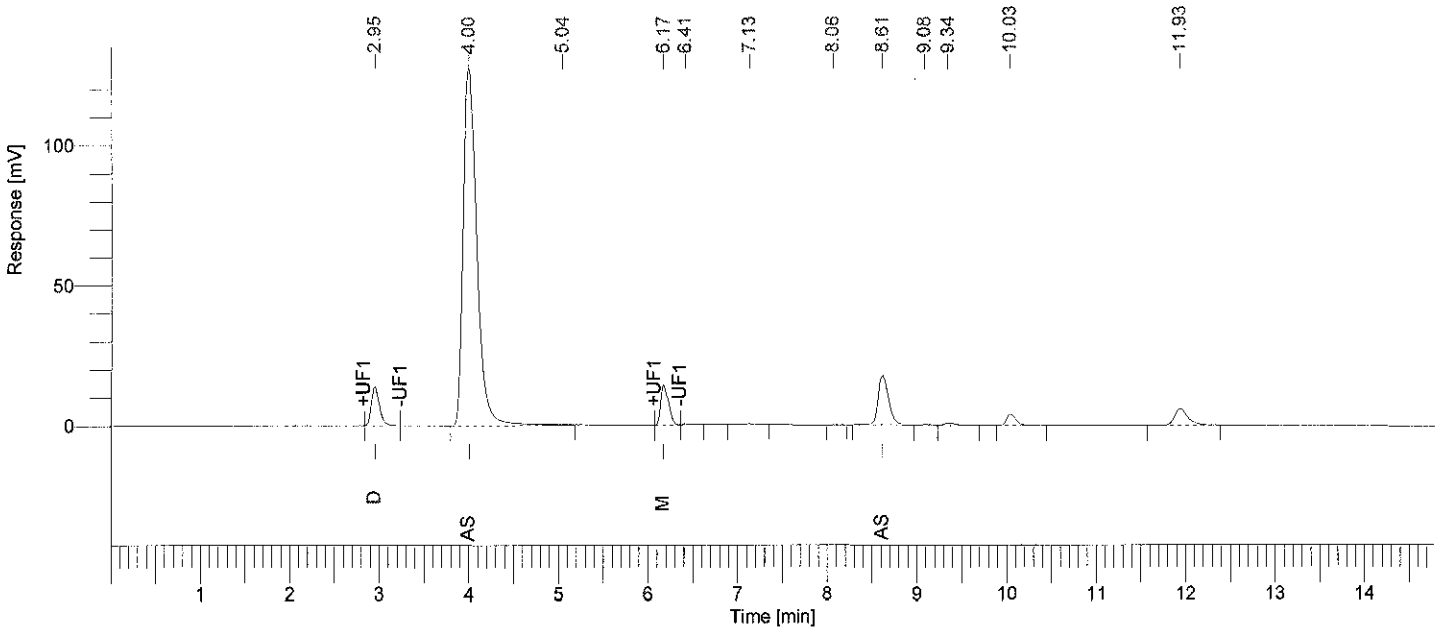
Component Name	Time [min]	Area [uV*sec]
	9.805	325.54
	10.050	22404.40
	11.942	65766.59
AsF6	17.155	0.00
		1713255.35

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:34:01 PM
Sample Name	: 6102730	Data Acquisition Time	: 10/27/2006 11:46:13 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 30		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102730-061030-081710_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.946	90002.62
As3	3.996	1351208.10
	5.042	3263.87
MMAs	6.165	87359.35
	6.409	1979.48
	7.126	3239.02
	8.058	1002.60
As5	8.610	144927.90
	9.077	3639.12

11/2/2006 4:34:01 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102730-061030-081710_As.rst

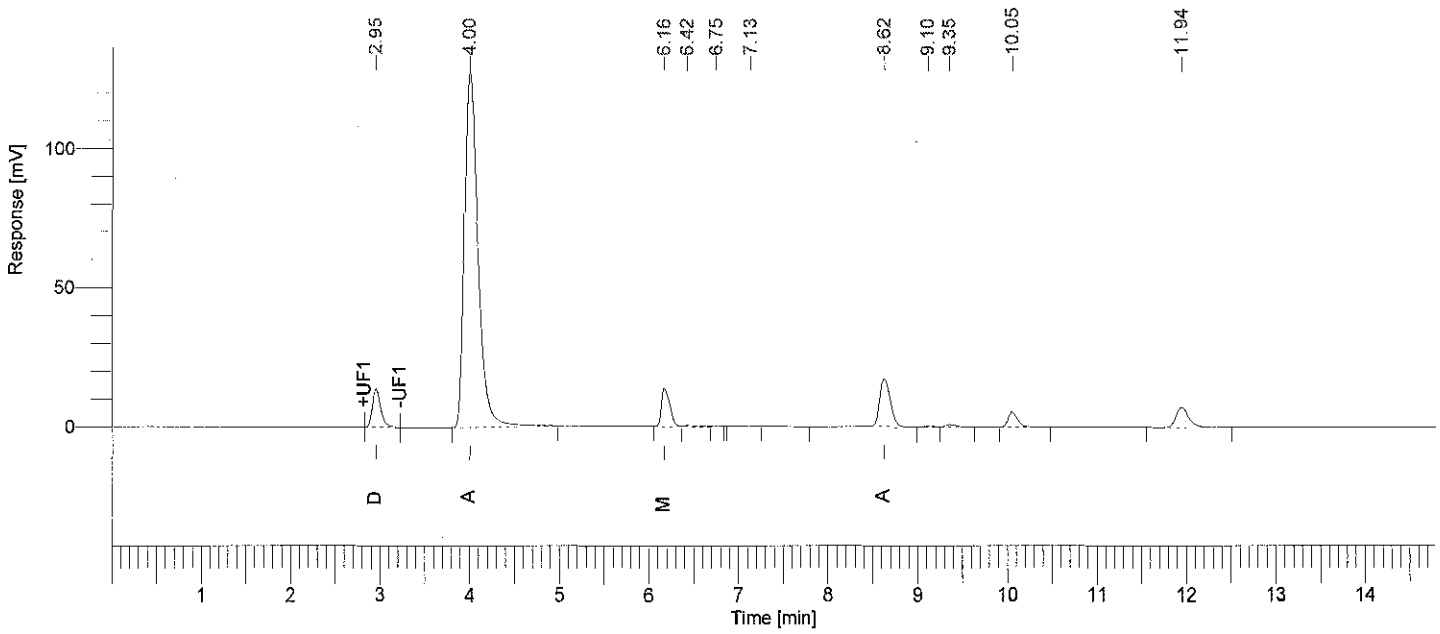
Component Name	Time [min]	Area [uV*sec]
	9.341	8799.72
	10.032	30933.28
	11.931	62591.47
AsF6	17.155	0.00
		1788946.53

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:34:10 PM
Sample Name	: 6102731	Data Acquisition Time	: 10/28/2006 12:01:25 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 31		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102731-061030-081717_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.946	89441.11
As3	3.997	1342515.57
MMAs	6.164	87237.91
	6.418	2329.68
	6.746	594.59
	7.129	2571.62
As5	8.620	152101.65
	9.104	3316.77
	9.346	8536.20
	10.045	39647.11
	11.936	73587.24
AsF6	17.155	0.00
		1801879.46

0073

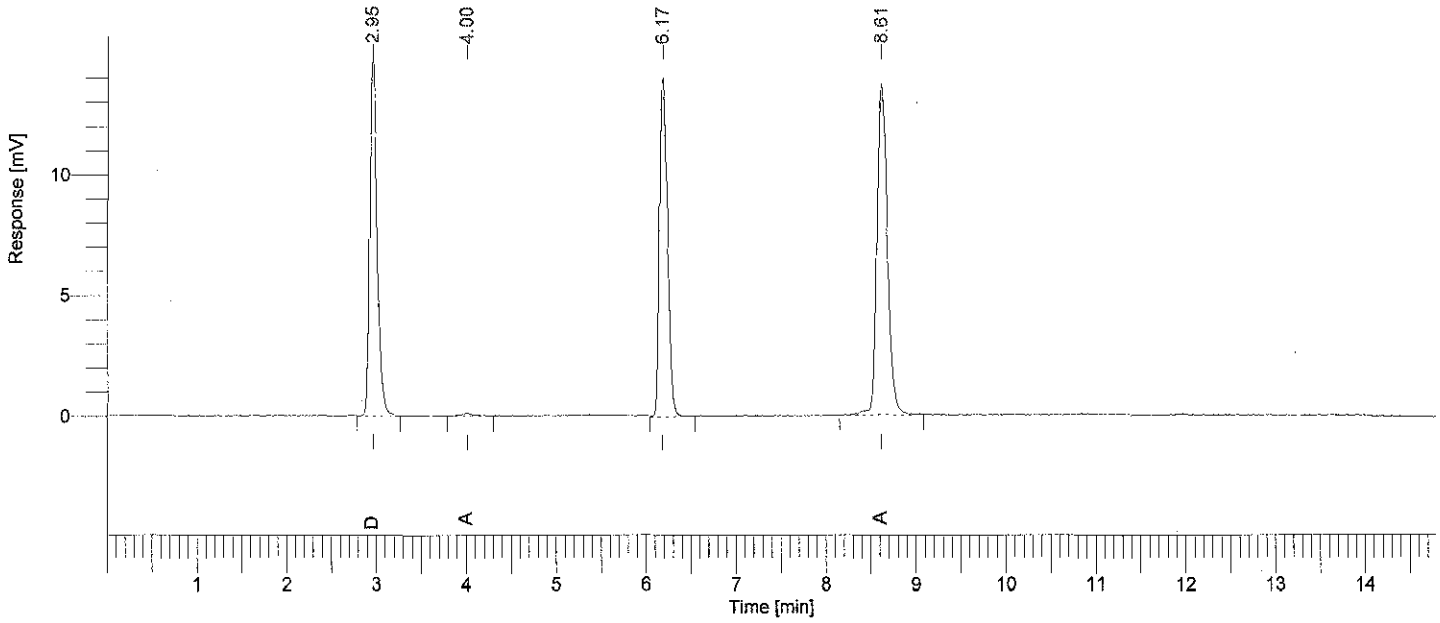
11/2/2006 4:34:10 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102731-061030-081717_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:34:16 PM
Sample Name	: 6102732	Data Acquisition Time	: 10/28/2006 12:16:35 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 32		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102732-061030-081723_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

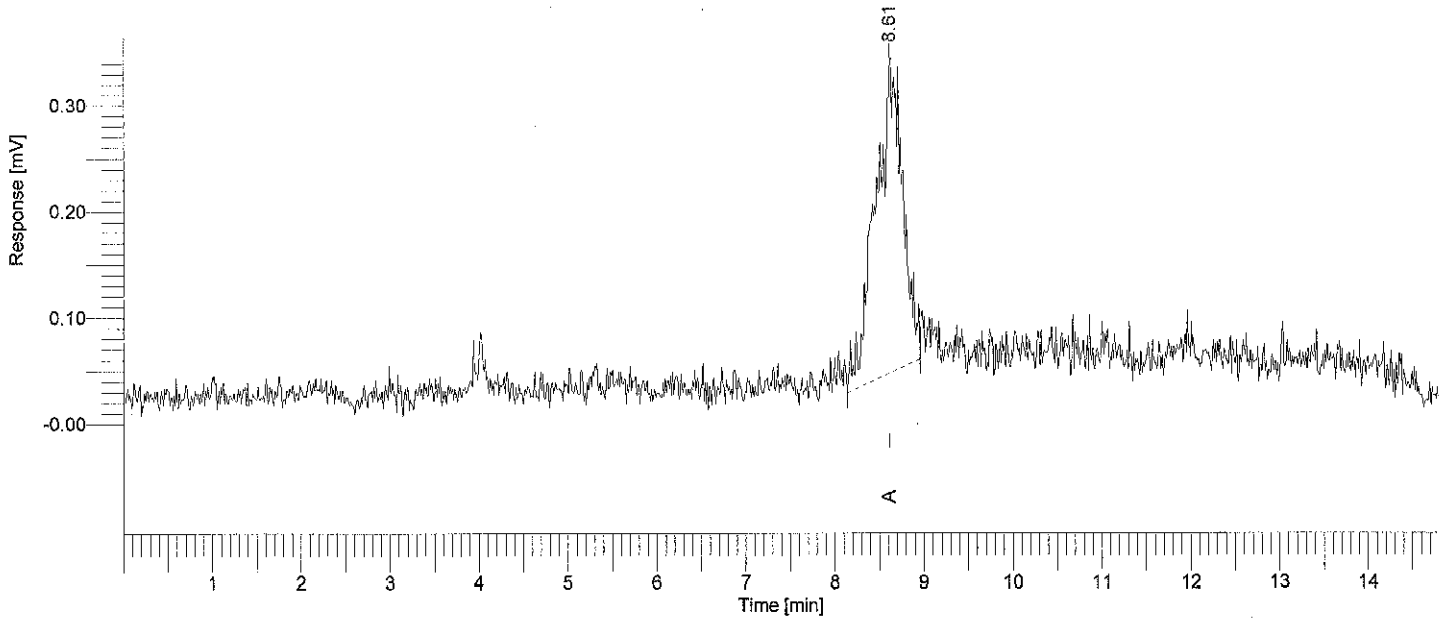
Component Name	Time [min]	Area [uV*sec]
DMAs	2.953	89082.99
As3	4.003	1432.07
MMAs	6.171	86852.88
As5	8.606	112067.11
AsF6	17.155	0.00
		289435.05

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:34:22 PM
Sample Name	: 6102733	Data Acquisition Time	: 10/28/2006 12:31:47 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 33		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102733-061030-081730_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.922	0.00
MMAs	6.158	0.00
As5	8.615	6284.92
AsF6	17.155	0.00
		6284.92

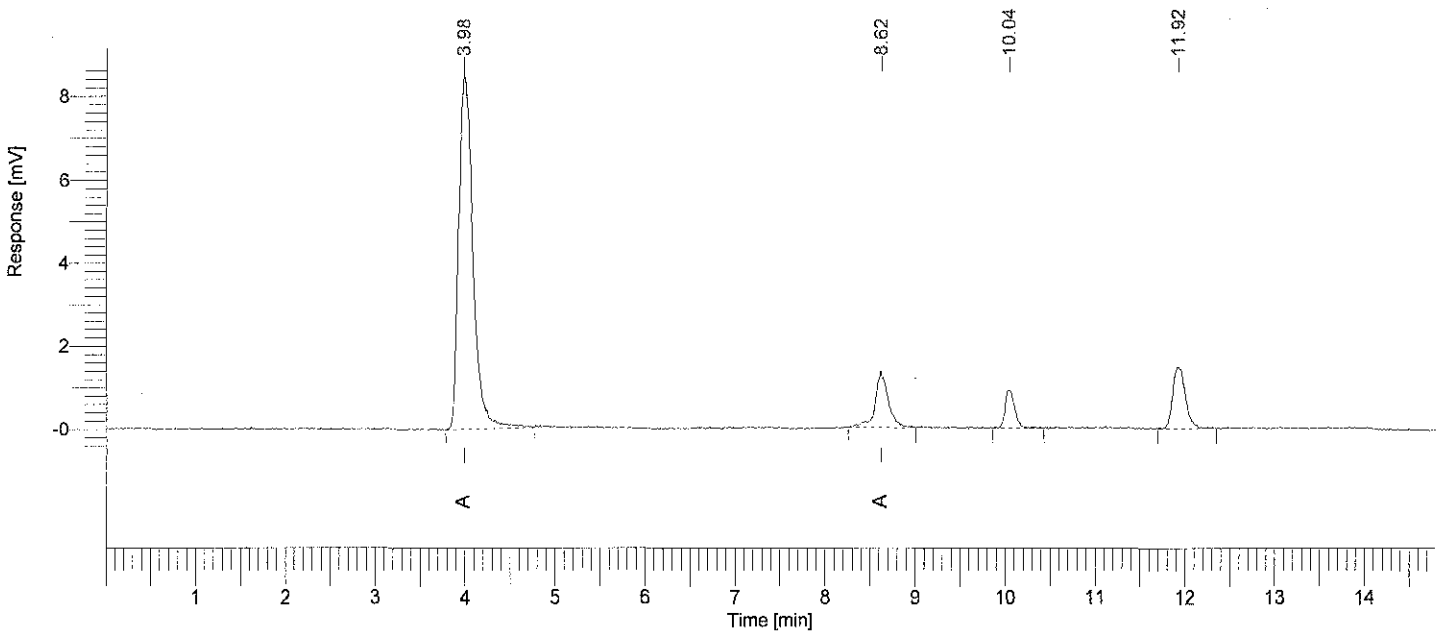
11/2/2006 4:34:22 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102733-061030-081730_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
As3	3.922
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:34:28 PM
Sample Name	: 6102734	Data Acquisition Time	: 10/28/2006 12:46:57 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 34		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102734-061030-081736_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.984	93979.86
MMAs	6.158	0.00
As5	8.618	13903.22
	10.038	7073.02
	11.919	15076.14
AsF6	17.155	0.00
		130032.24

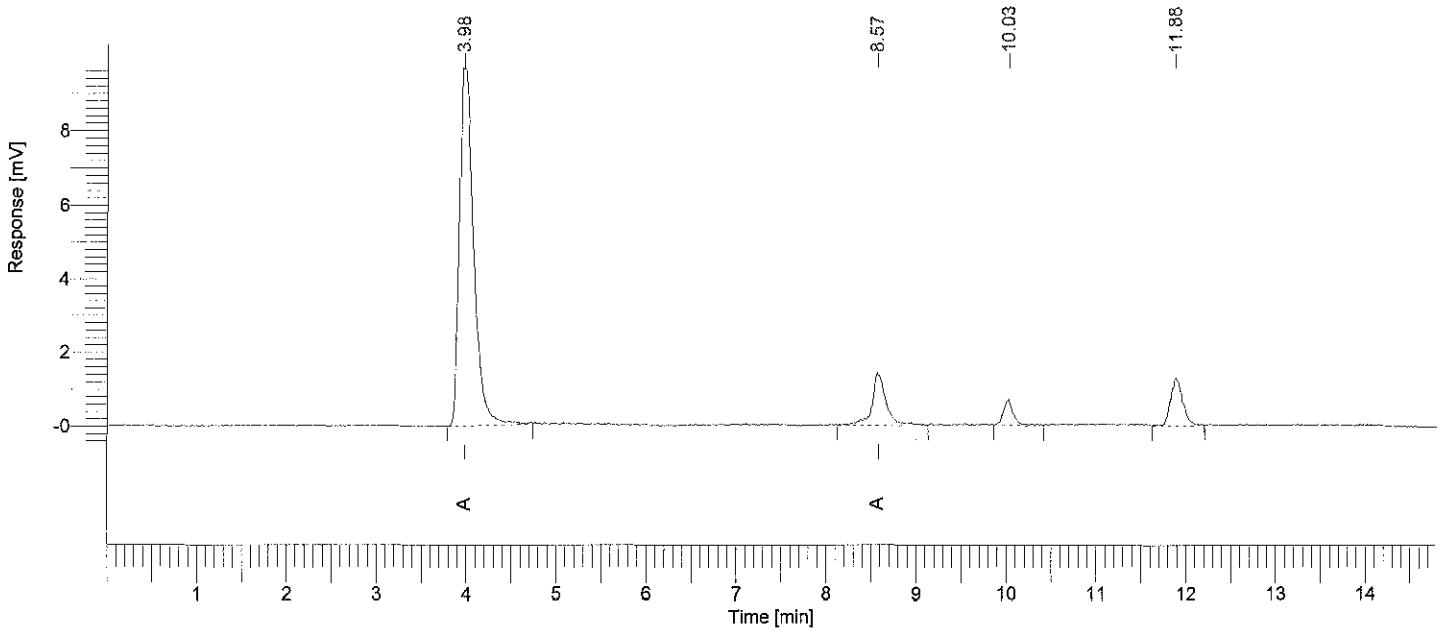
11/2/2006 4:34:28 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102734-061030-081736_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:35:00 PM
Sample Name	: 6102735	Data Acquisition Time	: 10/28/2006 1:02:09 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 35		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102735-061030-081743_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.984	107824.86
MMAs	6.158	0.00
As5	8.572	15621.42
	10.029	5644.50
	11.885	12173.66
AsF6	17.155	0.00
		141264.44

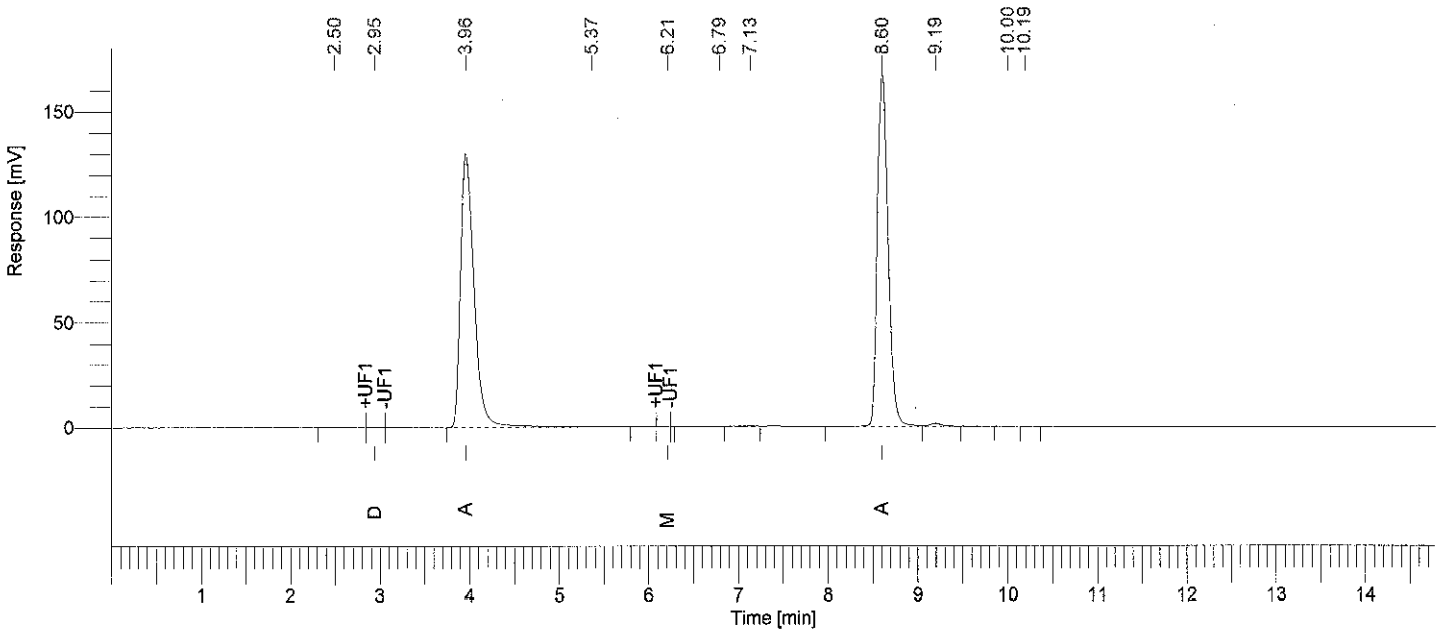
11/2/2006 4:35:00 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102735-061030-081743_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:35:08 PM
Sample Name	: 6102736	Data Acquisition Time	: 10/28/2006 1:17:19 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 36		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102736-061030-081749_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
	2.496	971.09
DMAs	2.946	1262.59
As3	3.963	1366772.01
	5.367	7423.76
MMAs	6.213	573.83
	6.791	3445.78
	7.131	1998.50
As5	8.604	1400751.61
	9.194	13525.79
	10.002	1084.88
	10.190	481.38
AsF6	17.155	0.00
		2798291.21

0082

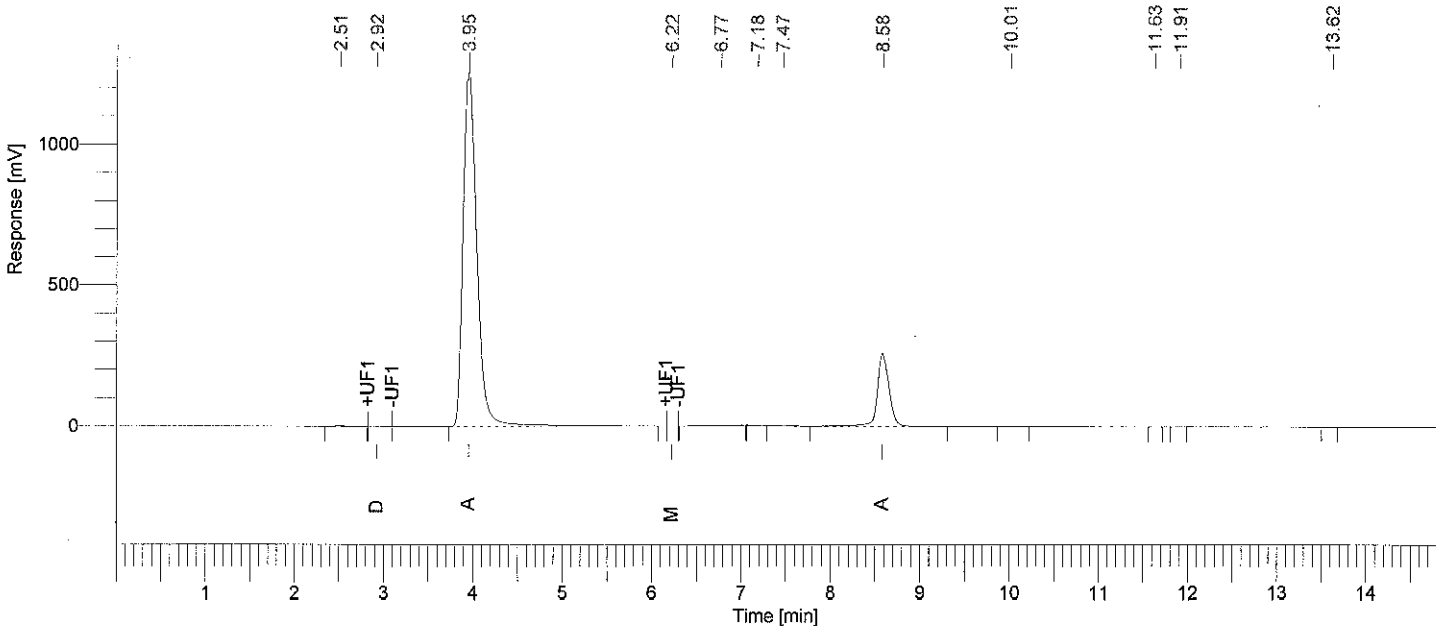
11/2/2006 4:35:08 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102736-061030-081749_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:35:15 PM
Sample Name	: 6102737	Data Acquisition Time	: 10/28/2006 1:32:31 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 37		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102737-061030-081756_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
	2.513	921.12
DMAs	2.923	1817.29
As3	3.952	13460547.78
MMAs	6.224	1172.59
	6.774	94446.25
	7.180	48313.35
	7.467	77633.81
As5	8.583	2383307.59
	10.014	6434.02

11/2/2006 4:35:15 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102737-061030-081756_As.rst

Component Name	Time [min]	Area [uV*sec]
	11.630	440.20
	11.914	552.38
	13.620	509.78
AsF6	17.155	0.00
		16076096.16

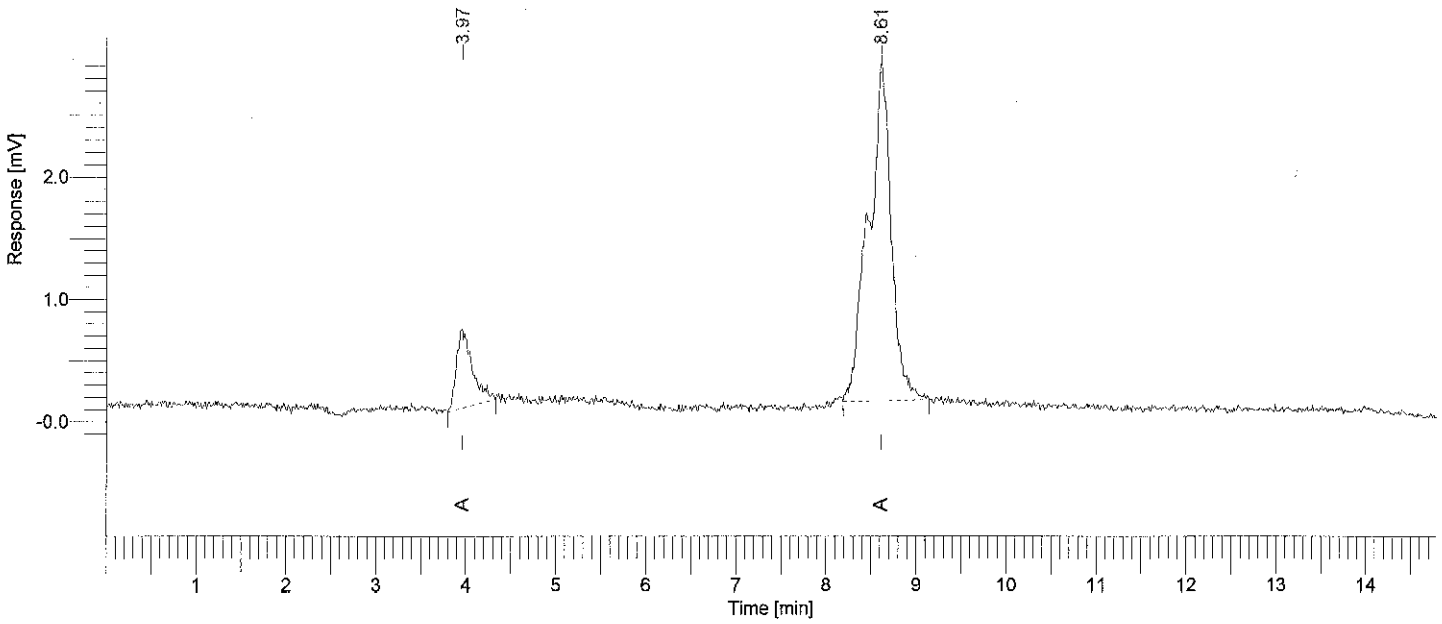
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:35:22 PM
Sample Name	: 6102738	Data Acquisition Time	: 10/28/2006 1:47:41 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 38		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102738-061030-081803_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.966	8037.20
MMAs	6.158	0.00
As5	8.614	48720.20
AsF6	17.155	0.00
		56757.40

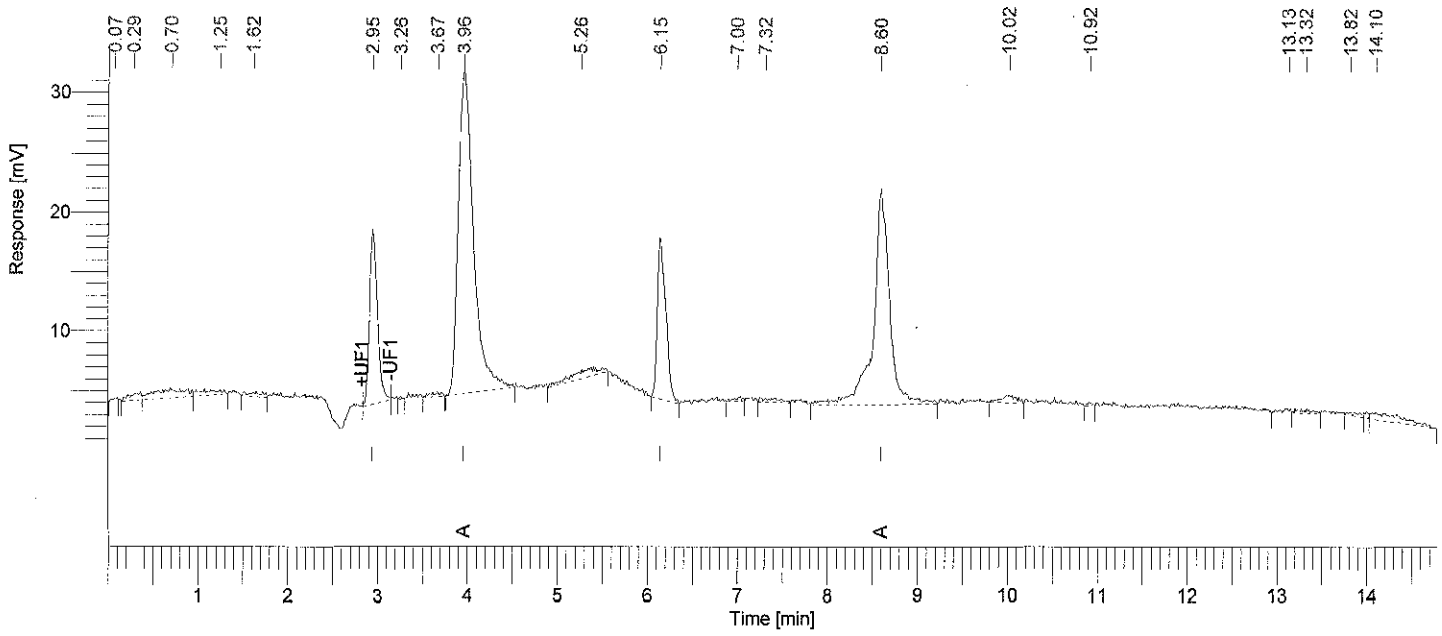
11/2/2006 4:35:22 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102738-061030-081803_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
MMAs	6.158
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:35:34 PM
Sample Name	: 6102744	Data Acquisition Time	: 10/28/2006 3:18:47 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 44		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102744-061030-081842_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
	0.073	906.67
	0.286	5594.84
	0.704	17710.79
	1.248	6950.67
	1.619	3946.89
DMAs	2.946	91328.40
	3.261	556.64
	3.668	3127.55
As3	3.965	322516.79
	5.260	15413.75
MMAs	6.147	88269.68
	6.999	2257.09
	7.315	4858.53

11/2/2006 4:35:34 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102744-061030-081842_As.rst

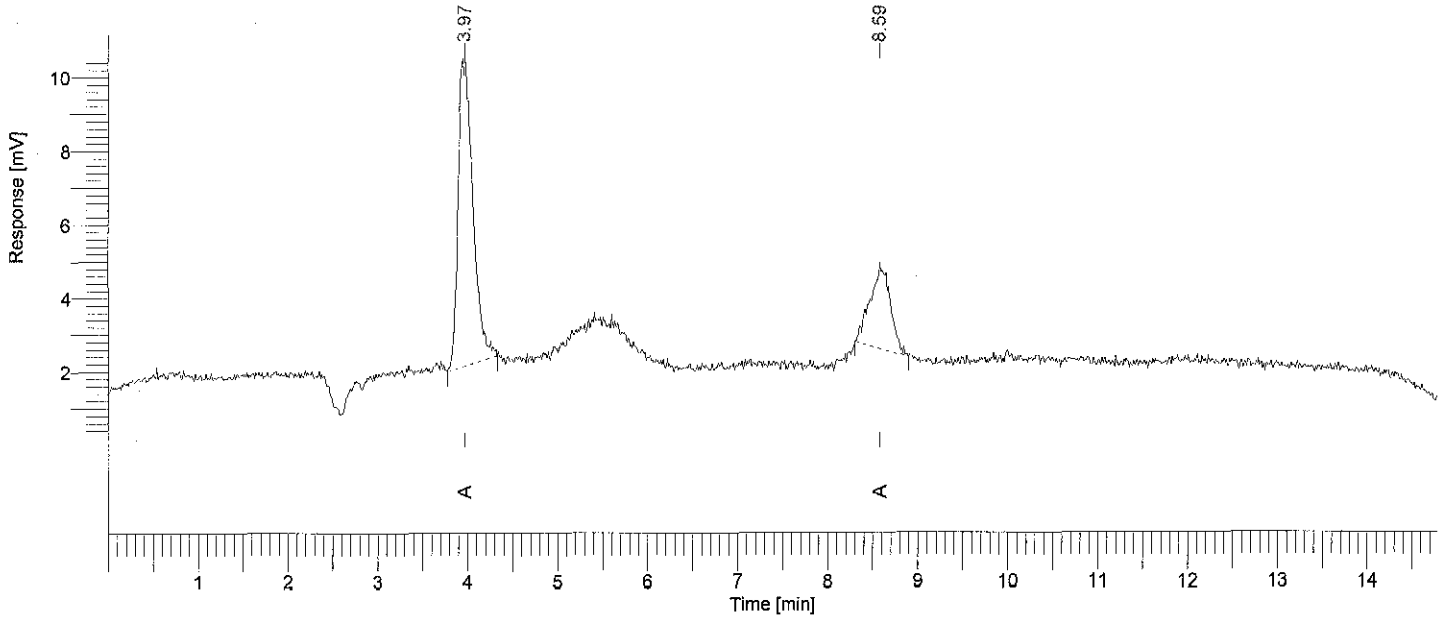
Component Name	Time [min]	Area [uV*sec]
As5	8.599	227725.40
	10.019	7697.82
	10.921	1273.74
	13.133	2854.20
	13.323	3515.92
	13.819	2809.69
	14.104	16519.31
AsF6	17.155	0.00
		825834.37

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/2/2006 4:35:43 PM
Sample Name	: 6102745	Data Acquisition Time	: 10/28/2006 3:33:59 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 45		

Result File : D:\My Documents\WORK\DATA\061027-IC-As\2\6102745-061030-081849_As.rst
Sequence File : d:\My Documents\WORK\DATA\061027-IC-As\2\As_061030.seq



Arsenic Speciation Analysis by IC-ICP-MS

Analysis performed by Applied Speciation and Consulting, LLC

Component Name	Time [min]	Area [uV*sec]
DMAs	2.933	0.00
As3	3.973	97405.61
MMAs	6.158	0.00
As5	8.585	35866.36
AsF6	17.155	0.00
		133271.97

11/2/2006 4:35:43 PM Result: D:\My Documents\WORK\DATA\061027-IC-As\2\6102745-061030-081849_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.933
MMAs	6.158
AsF6	17.155

APPLIED SPECIATION AND CONSULTING, LLC

953 Industry Drive Tukwila, WA 98188
Tel: (206) 219-3779 Fax: (206) 388-3485
www.appliedspeciation.com

November 9, 2006

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608
(352) 335-5877

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026

Dear Ms. Klopper,

Attached is the report associated with six (6) samples submitted for monomethylarsonic acid (MMAs) and cacodylic acid (DMAs) quantification on October 25, 2006. All samples were received on October 26, 2006, in a sealed cooler at 1.1°C. MMAs and DMAs speciation analysis was performed by ion chromatography inductively coupled plasma mass spectrometry (IC-ICP-MS). Any analytical issues associated with the analysis are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Table of Contents

Prepared for:

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026

November 9, 2006

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Sample Results	6-11
QC Summary	12-13
Raw Data (ICICPMS-061027-As)	14-104

Applied Speciation and Consulting, LLC

Report Prepared for:

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026

November 9, 2006

1. Sample Reception

Six (6) samples in 125mL HDPE bottles were submitted for monomethylarsonic acid (MMAs) and cacodylic acid (DMAs) quantification on October 25, 2006. All samples were received in a sealed cooler on October 26, 2006 at 1.1°C.

It should be noted that an amended chain of custody form was provided by CH2M HILL on November 3, 2006 which reflected modified field sample IDs for all samples associated with this SDG. All laboratory IDs were adjusted in accordance with the revised field sample IDs. This report reflects only the revised field sample IDs and amended laboratory sample IDs. Both the as received and amended chain of custody forms are included with this report.

All samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. Upon reception, all samples were designated discrete sample identifiers and were immediately placed in a secure, monitored cryofreezer (maintained at -80°C) until analysis could be performed. All samples were analyzed for MMAs and DMAs by ion chromatography inductively coupled plasma mass spectrometry (IC-ICP-MS).

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

In accordance with the project specific work plan, designated samples were field preserved with a buffered 0.125 M EDTA acetic acid/acetate solution.

MMAs and DMAs Quantification by IC-ICP-MS All samples were filtered with a syringe filter (0.45um) and injected directly into sealed autosampler vials. No further sample preparation was performed as any chemical alteration of the samples may shift the equilibrium of the system resulting in changes in speciation ratios.

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

MMAs and DMAs Quantification by IC-ICP-MS All samples for MMAs and DMAs quantification were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Aliquots of each sample are injected onto an anion exchange column and are mobilized by a basic (pH > 7) gradient. The eluting arsenic species are then introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and separated on the basis of their mass-to-charge ratio (m/z) by a mass spectrometer. A solid-state detector detects ions transmitted through the mass analyzer and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

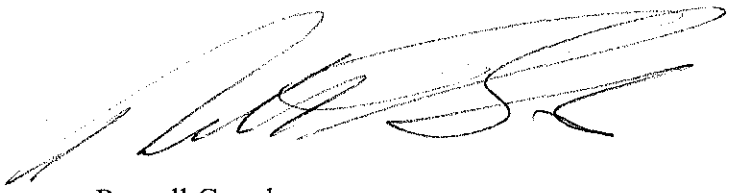
4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control parameters associated with these samples was within acceptance limits.

It should be noted that the estimated method detection limits (eMDLs) for MMAs and DMAs are generated from replicate analyses of the lowest standard in the calibration curve. Not all arsenic species are present in preparation blanks; therefore, eMDL calculations based on preparation blanks are artificially biased low.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,



Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC
953 Industry Drive
Tukwila, WA 98188
Russ Gerads

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 39010.55982
COC#: 30916-XXXXX GW-ASC

Privileged & Confidential

Sampling Co.:	CH2M HILL	EDD To:	john.mitchell@ch2m.com, amy.klopper@ch2m.com
Client Contact: (name, co., address)		Sampler:	
Jennifer Simms		PO #	
1700 Market Street, Suite 1600		Analysis Turnaround Time (TAT):	
Philadelphia, PA 19103		Consultant	CH2M
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608	Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com		

Site Name:	Quanta Resources (Edgewater)	Phase:	
Location of Site:	Edgewater, NJ	Sampling Program	Quanta 2006 OU1 SI

Lab Proj # (SDG):
Lab ID: Quanta
Site ID:
Lab Job #:
Authorized User: Honeywell
Text & Excel File Drive: Excel & Text Fil Order

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	ASC-085 - DMA/MMA	Sampling Method (code)	Lab Sample Numbers
	Sample Identification									Units					
1	MW-N-1	6.95	7.35	MW-N-1-102506	10/25/06	10:35	REG	GW	—	1	X	✓	X		0004
2	MW-N-1	6.95	7.35	MW-N-1-102506	10/25/06	10:35	MS	GW	—	1	X	✓	X		
3	MW-N-1	6.95	7.35	MW-N-1-102506	10/25/06	10:35	MSD	GW	—	1	X	✓	X		
4	MW-N-2	5.08	5.92	MW-N-2-102506	10/25/06	10:40	REG	GW	—	1	X	✓	X		
5	MW-O	12.0	12.50	MW-O-102506	10/25/06	10:20	REG	GW	—	1	X	✓	X		
6	DUP	—	—	DUP-102506-GW	10/25/06	N/A	DUP	GW	—	1	X	✓	X		
7	MW-A-2	12.16	12.31	MW-A-2-102506	10/25/06	15:45	REG	GW	—	1	X	✓	X		
8	~~MW-E~~	~~11.24~~	~~11.51~~	~~MW-E-102506~~	~~10/25/06~~	~~15:00~~	~~REG~~	~~GW~~	~~—~~	~~1~~	~~X~~	~~✓~~	~~X~~		
9	EB	—	—	EB-102506-GW	10/25/06	16:20	EB	GW	—	1	X	—	X		
10															
11															
12															

secnotes

Relinquished by	Company	CH2M HILL	Received by	Company		Condition	Custody Seals Intact
Kimberly A Dokes	Date/Time	10/25/06 16:00		Date/Time	10-26-06/10:30	Cooler Temp.	1.0°C
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

*2 extra bottles for MW-N-1-102506 were provided but they were not labelled "MS" or "MSD"
MS arbitrarily assigned to bottle ASC-B-800
MSD assigned to bottle ASC-B-811
ambient sample assigned to bottle ASC-B-805

Applied Speciation and Consulting, LLC
953 Industry Drive
Tukwila, WA 98188
Russ Gerads

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39024.61695
COC#	[illegible] GW-ASC
Lab Proj # (SDG):	
Lab ID	
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell
Test & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name:	Quanta Resources (Edgewater)	Phase:	
Location of Site:	Edgewater, NJ	Sampling Program	Quanta 2006 OU1 SI

Sampling Co.:	CH2M HILL
EDD To:	john.mitchell@ch2m.com, amy.klopper@ch2m.com
Client Contact: (name, co., address)	
Jennifer Simms	
1700 Market Street, Suite 1600	
Philadelphia, PA 19103	
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To:	jennifer.simms@ch2m.com
Sampler:	D. Reamer/ L. Baechler/ K. Stokes
PO #	
Analysis Turnaround Time (TAT):	
Consultant	CH2M
Full Report TAT:	

Preservative: sp

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	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	ASC-085 - DMA/MMA	Sampling Method (code)	Lab Sample Numbers
											Units				
1	MW-N-1			MW-N-1-102506-F	10/25/2006	10:35	GW	WATER	REG	3	grab	Y	X		
2	MW-N-2			MW-N-2-102506-F	10/25/2006	10:40	GW	WATER	REG	1	grab	Y	X		
3	MW-O			MW-O-102506-F	10/25/2006	10:20	GW	WATER	REG	1	grab	Y	X		
4	MW-O			DUP-102506-GW-F	10/25/2006	10:20	GW	WATER	FD	1	grab	Y	X		
5	MW-A-2			MW-A-2-102506-F	10/25/2006	15:45	GW	WATER	REG	1	grab	Y	X		
6	Equip Blank			EB-102506-GW	10/25/2006	16:20	BLKWATER	WATER	EB	1	grab	N	X		
7															
8															
9															
10															
11															
12															

Relinquished by	Company	CH2M HILL	Received by	Company		Condition		Custody Seals Intact
Kimberly Stokes	Date/Time	10/25/06 16:00		Date/Time		Cooler Temp.		
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.		

Preservatives: (Other; Specify): DMA and MMA samples are preserved with EDTA

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

0005

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026
Contact: Amy Klopper

Date: November 9, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/25/2006 Date Received: 10/26/2006

Field Sample ID
MW-N-1-102506-F

Laboratory Sample ID
MW-N-1-102506-805-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/30/2006	10000	52	500	52 U
MMAs	EPA6800	10/30/2006	10000	30	500	30 U

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026
Contact: Amy Klopper

Date: November 9, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/25/2006 Date Received: 10/26/2006

Field Sample ID
MW-N-2-102506-F

Laboratory Sample ID
MW-N-2-102506-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/30/2006	10000	52	500	52 U
MMAs	EPA6800	10/30/2006	10000	30	500	30 U

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026
Contact: Amy Klopper

Date: November 9, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/25/2006 Date Received: 10/26/2006

Field Sample ID
MW-O-102506-F

Laboratory Sample ID
MW-O-102506-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/30/2006	20	0.11	1.0	0.11 U
MMAs	EPA6800	10/30/2006	20	0.059	1.0	0.148 J

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026
Contact: Amy Klopper

Date: November 9, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/25/2006 Date Received: 10/26/2006

Field Sample ID
DUP-102506-GW-F

Laboratory Sample ID
DUP-102506-GW-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/30/2006	20	0.11	1.0	0.11 U
MMAs	EPA6800	10/30/2006	20	0.059	1.0	0.066 J

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026
Contact: Amy Klopper

Date: November 9, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/25/2006 Date Received: 10/26/2006

Field Sample ID
MW-A-2-102506-F

Laboratory Sample ID
MW-A-2-102506-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/30/2006	10000	52	500	52 U
MMAs	EPA6800	10/30/2006	10000	30	500	35 J

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026
Contact: Amy Klopper

Date: November 9, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/25/2006 Date Received: 10/26/2006

Field Sample ID
EB-102506-GW-F

Laboratory Sample ID
EB-102506-GW-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/30/2006	20	0.11	1.0	0.11 U
MMAs	EPA6800	10/30/2006	20	0.059	1.0	0.059 U

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026
Contact: Amy Klopper

Date: November 9, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*	eMDL 20x*	eMDL 10000x*	RL 20x	RL 10000x
DMAs	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.11	52	1.0	500
MMAs	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.059	30	1.0	500

eMDL = Estimated Method Detection Limit
*Please see narrative regarding eMDL calculations

Quality Control Summary - Laboratory Control Sample

Analyte (µg/L)	LCS	True Value	Result	Recovery
DMAs	ICV	2.000	1.974	98.7
MMAs	ICV	2.000	2.196	109.8

0012

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Rep 1	Rep 2	Mean	RPD
DMAs	MW-N-1-102506-805-F	52 U	52 U	NC	NC
MMAs	MW-N-1-102506-805-F	30 U	30 U	NC	NC

ND = Not detected at the applied dilution
U = Sample concentration is below the eMDL

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
DMAs	MW-N-1-102506-805-F	20000	18960	94.8	20000	18970	94.9	0.1
	MW-N-1-102506-800	20000	19460	97.3	20000	18970	94.9	2.6
MMAs	MW-N-1-102506-805-F	20000	18570	92.9	20000	18650	93.3	0.4
	MW-N-1-102506-811	20000	18870	94.4	20000	18670	93.4	1.1

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061026
Contact: Amy Klopper

Date: November 9, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Initial and Continuing Calibration Verification Standards

Analyte (µg/L)	ICV	True Value	Recovery	CCV1/CCV3	True Value	Recovery	CCV2	True Value	Recovery
DMAs	1.97	2.00	98.7	1.918	2.000	95.9	1.931	2.000	96.6
				1.906	2.000	95.3			
MMAs	2.20	2.00	109.8	1.864	2.000	93.2	1.908	2.000	95.4
				1.880	2.000	94.0			

Quality Control Summary - Initial and Continuing Calibration Blanks

Analyte (µg/L)	ICB	CCB1	CCB2	CCB3
DMAs	0.000	0.000	0.000	0.000
MMAs	0.000	0.000	0.000	0.000

Applied Speciation And Consulting, LLC

Dataset Cover Page

Dataset ID: ICICPMS-061030-As

Analyst: H. Gürleyük

Computations Performed by: H. Gürleyük

Selenium Speciation Analysis by IC-ICP-MS	
Client Name(s): CHM HILL (C061026, C061027, C061030)	QA Level: High
Sample Reception Date: 10/26/06, 10/27/06, 10/30/06	
Does Data Meet all DQOs? yes	

Analytical Discussion:
All samples and Prep Blanks were filtered with 0.45 um syringe filter.

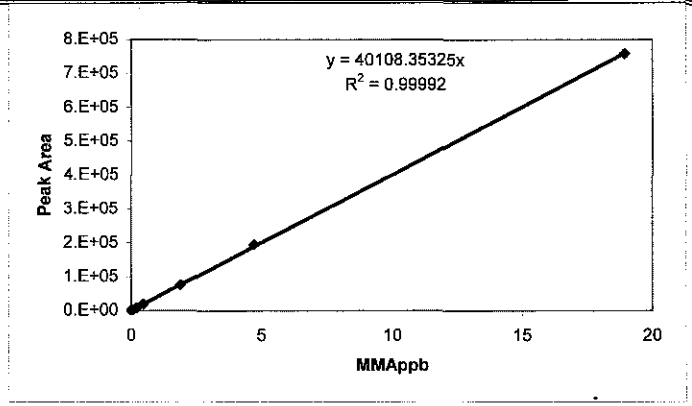
A 0.02 ppb standard was run in quadruplicate to get an accurate MDL for As speciation.

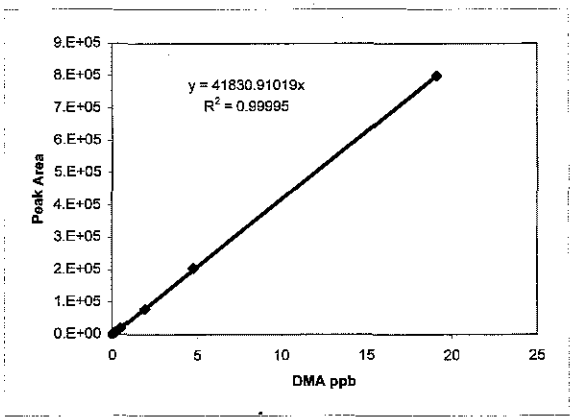
All Samples were diluted in water

The recovery for the 1640 reference material was low but within QC specifications

No Significant Analytical issues were encountered.

Dataset ID: ICICPMS-061027-As
Analyst: HakanG
MMAs DMAs





Run #	Conc (ppb)	Peak Area	Peak Area
			956606
			DMA
			Conc (ppb)
			0
			0
			0
			832
			766.22
			938
			876
			1892
			7947
			19506
			78701
			205410
			799127
			41830.91019
			0

Peak Area	MMA Conc (ppb)
946471	
DMA	MMA
Peak Area	Conc (ppb)
0.00	0
0.00	0
0.00	0
0.02	762
0.02	803
0.02	857
0.02	808
0.05	2094
0.19	7474
0.47	18732
1.89	76150
4.73	196091
18.93	757641
1.89	757641
	40108.35325
	43642.08781

Run #	Dil Fac	TV	DMA Peak Area	MMA Peak Area	Conc (ppb) DMA	MMA	Remarks	DMA Calc.	MMA Calc.
6103001 blank	1		0	0	0.000	0.000			
6103002 blank	1		0	0	0.000	0.000			
6103003 blank	1		0	0	0.000	0.000			
6103004 blank	1		0	0	0.000	0.000			
6103005 0.02 ppb 5DM	1		832	762	0.020	0.019	Mean ppb=	0.0204	0.0201
6103006 0.02 ppb 5DM	1		766	803	0.018	0.020	stdev=	0.0017	0.0010
6103007 0.02 ppb 5DM	1		938	857	0.022	0.021	eMDL=	0.0052	0.0029
6103008 0.02 ppb 5DM	1		876	808	0.021	0.020			
6103009 0.05 ppb	1		1892	2094	0.045	0.052			
6103010 0.2 ppb	1		7947	7474	0.190	0.186			
6103011 0.5 ppb	1		19506	18732	0.466	0.467			
6103012 2 ppb	1		78701	76150	1.881	1.899			
6103013 5 ppb	1		205410	196091	4.910	4.889			
6103014 20 ppb	1		799127	757641	19.104	18.890			
6103015 Rinse	1		0	0	0.000	0.000			
6103016 ICV 2 ppb As3	1	2	0	0	0.000	0.000			
6103017 ICV 2ppb 5MD	1	2	82556	88090	1.974	2.196	%Rec=	98.7	109.8
6103018 ICB	1		0	0	0.000	0.000			
6103019 1640 25x	25	26.67	0	0	0.000	0.000			
6103020 CCV1 2ppb	1	2	80232	74779	1.918	1.864	%Rec=	95.9	98.5
6103021 CCB1	1		0	0	0.000	0.000			
6103022 PB1	1		0	0	0.000	0.000	PB Average=	0.00	0.00
6103023 PB2	1		0	0	0.000	0.000	PB RSD=	0.0	0.0
6103024 PB3	1		0	0	0.000	0.000	eMDL=	0	0
6103025 PB4	1		0	0	0.000	0.000			
6103026 MW-N-1-102506-ASC-B-805 A 10,000X	10000		0	0	0.000	0.000	AD Average=	0.0	0.0
6103027 MW-N-1-102506-ASC-B-805 AD 10,000X	10000		0	0	0.000	0.000	MD RPD	0.0	0.0
03028 MW-N-1-102506-ASC-B-805 AS + 2ppb 10,00(	10000	20000	79297	74468	18957	18567	AS %Rec.=	94.8	98.1
03029 MW-N-1-102506-ASC-B-805 ASD + 2ppb 10,0(	10000	20000	79360	74816	18972	18653	ASD %Rec.=	94.9	98.5
3103030 MW-N-1-102506-ASC-B-800 + 2 ppb 10,000)	10000	20000	81403	75694	19460	18872	AS %Rec.=	97.3	99.7
3103031 MW-N-1-102506-ASC-B-811 + 2 ppb 10,000)	10000	20000	79348	74893	18969	18673	ASD %Rec.=	94.8	98.6

00143

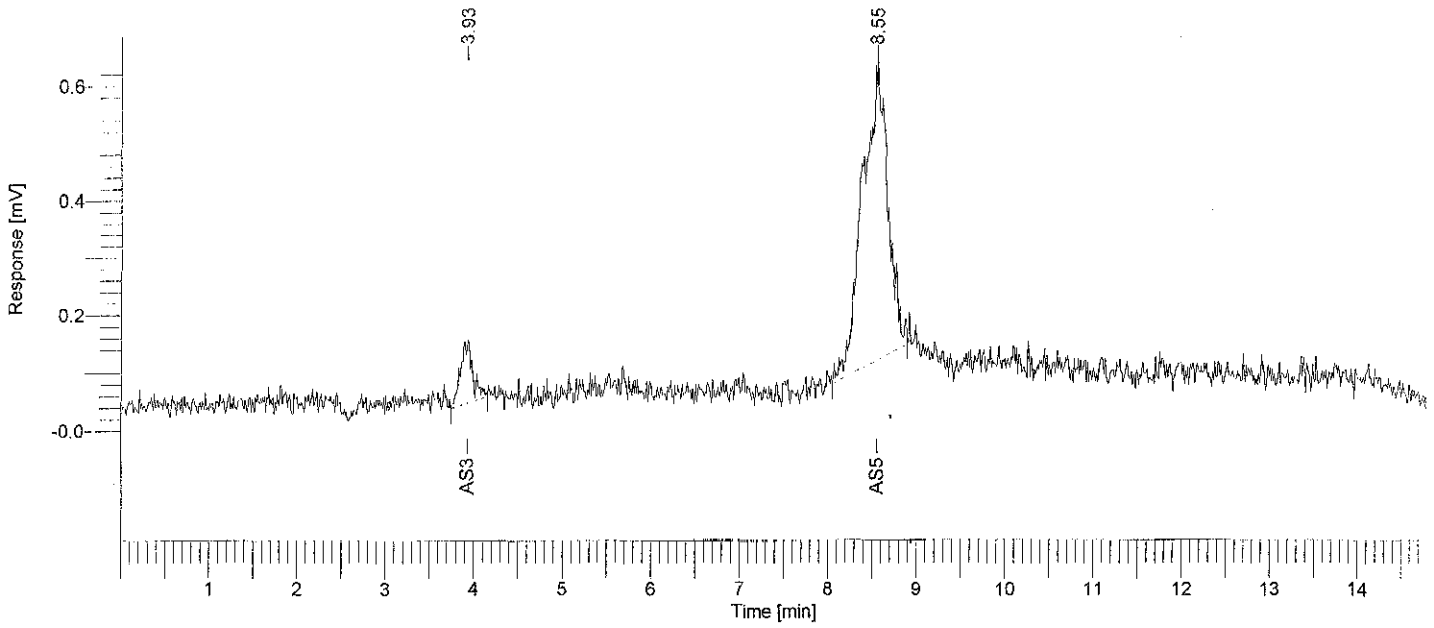
Dataset ID: ICICPMS-061027-As
Analyst: HakanG
MMAs DMAs

Run #	Dil Fac	TV	DMA Peak Area	MMA Peak Area		Conc (ppb) DMA	MMA	Remarks	DMA Calc.	MMA Calc.
6103032 CCV2 2ppb	1	2	80777	76530		1.93	1.91	%Rec=	96.6	100.8
6103033 CCB2	1		0	0		0.00	0.00			
6103034 MW-N-2-102506 10,000X	10000		0	0		0.00	0.00			
6103035 MW-O-102506 20X	20		0	296		0.00	0.15			
6103036 DUP-102506-GW 20X	20		0	132		0.00	0.07			
6103037 MW-A-2-102506 10,000X	10000		0	140		0.00	34.91			
6103038 EB-102506-GW 20X	20		0	0		0.00	0.00			
6103039 MW-107-A-102606 10,000X	10000		0	0		0.00	0.00			
6103040 MW-109-A-102606 20X	20		0	0		0.00	0.00			
6103041 MW-36-102606 20X	20		0	1562		0.00	0.78			
6103042 EB-102606-GW 20X	20		0	0	0	0.00	0.00			
6103043 MW-111-B-102606 A 10,000X	10000		0	0	0	0.00	0.00			
6103044 CCV3 2 ppb	1	2	79710	75408	0	1.91	1.88	%Rec=	95.3	99.3
6103045 CCB3	1		0	0	2892	0.00	0.00			
6103046 MW-111-B-102606 AD 10,000X	10000		0	0	85138	0.00	0.00	AD Average=	0.0	0.0
6103047 MW-111-B-102606 AS 10,000X	10000	20000	81123	76915	0	19393.08	19176.80	MD RPD	0.0	0.0
6103048 MW-111-B-102606 ASD 10,000X	10000	20000	80145	75327	0	19159.28	18780.88	AS %Rec.=	97.0	99.2
6103049 MW-L-102606 10,000X	10000		0	0	0	0.00	0.00	ASD %Rec.=	95.8	101.3
6103050 MW-114B-102606 A 10,000X	10000		0	0	0	0.00	0.00	AD Average=	0.0	0.0
6103051 MW-114B-102606 AD 10,000X	10000		0	0	0	0.00	0.00	MD RPD	0.0	0.0
6103052 MW-114B-102606 AS + 2ppb 10,000X	10000	20000	78132	74519	0	18678.05	18579.42	AS %Rec.=	93.4	98.2
6103053 MW-114B-102606 ASD + 2ppb 10,000X	10000	20000	78679	75619	82825	18808.82	18853.68	ASD %Rec.=	94.0	99.6
6103054 CCV4 2 ppb	1	2	76279	74492	0	1.82	1.86	%Rec=	91.2	98.1
6103055 CCB4	1		0	0	0	0.00	0.00			
6103056 MW-L-102606 20X	20		0	0	0	0.00	0.00			
6103057 MW-114B-102606 A 20X	20		0	1882	0	0.00	0.94	AD Average=	0.0	0.9
6103058 MW-114B-102606 AD 20X	20		0	1533	0	0.00	0.76	MD RPD	0.0	20.4
6103059 MW-114B-102606 AS + 2ppb 20X	20	40	74987	75384		35.85	37.59	AS %Rec.=	89.6	97.0
6103060 MW-114B-102606 ASD + 2ppb 20X	20	40	73536	75361		35.16	37.58	ASD %Rec.=	87.9	97.0
6103061 CCV5 2 ppb	1	2	77381	75078		1.85	1.87	%Rec=	92.5	98.9
6103062 CCB5	1		0	0		0.00	0.00			
6103068 CCV6	1	2	72657	70010		1.74	1.75			
6103069 CCB6	1		0	0		0.00	0.00			
6103070 DMAs ICV 2ppb	1	1.34	51528	423		1.23	0.01	%Rec=	91.9	
6103071 CCV7	1	2	73297	70721		1.75	1.76	%Rec=	87.6	93.1
6103072 CCB7	1		0	0		0.00	0.00			

0014C

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:33:43 PM
Sample Name	: 6103001	Data Acquisition Time	: 10/30/2006 2:31:28 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103001-061031-094005_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.926	1045.12	108.79	9.30	9.30	BB	0.0010	0.0010
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.553	10189.21	507.26	90.70	90.70	BB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11234.33	616.05	100.00	100.00		0.0112	0.0112

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:33:57 PM
Sample Name	: 6103002	Data Acquisition Time	: 10/30/2006 2:46:39 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103002-061031-094012_As.rst
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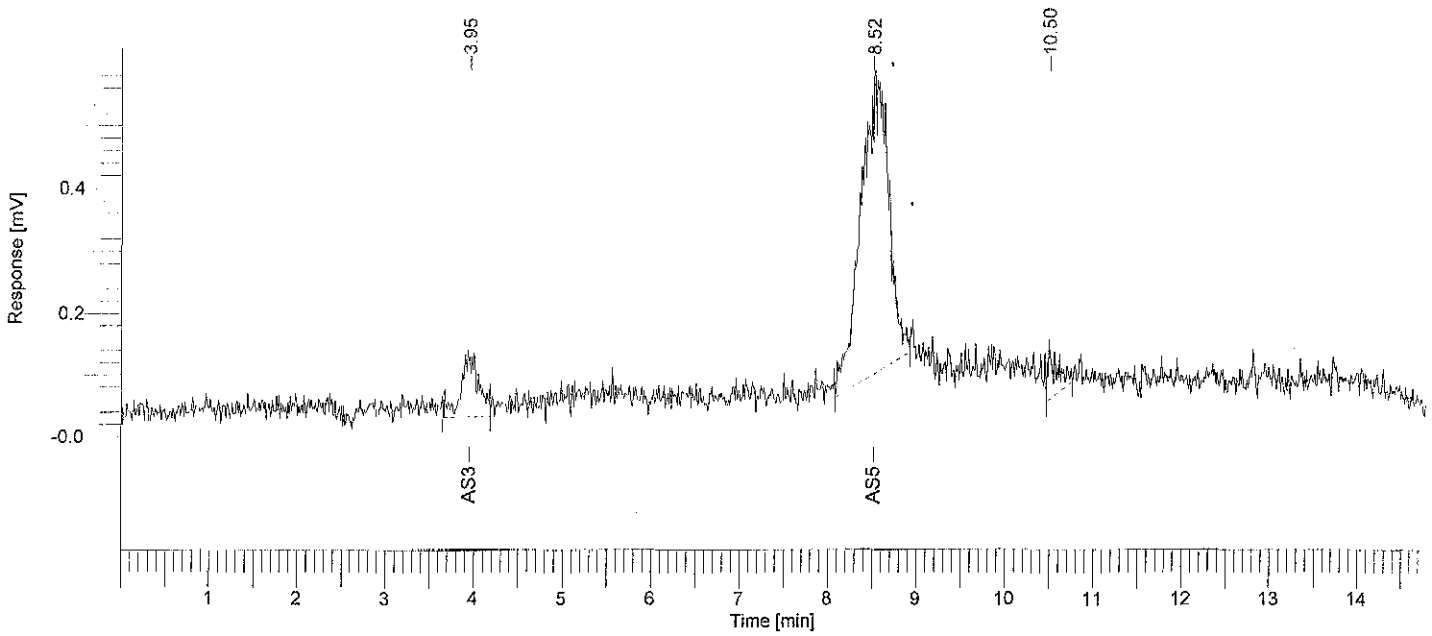

Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.951	1438.46	95.66	11.51	11.51	BB	0.0014	0.0014
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.519	10439.84	454.58	83.55	83.55	BB	0.0104	0.0104
3		10.501	616.28	73.02	4.93	4.93	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12494.58	623.26	100.00	100.00		0.0125	0.0125

11/9/2006 4:33:57 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103002-061031-094012_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:08 PM
Sample Name	: 6103003	Data Acquisition Time	: 10/30/2006 3:01:50 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103003-061031-094018_As.rst
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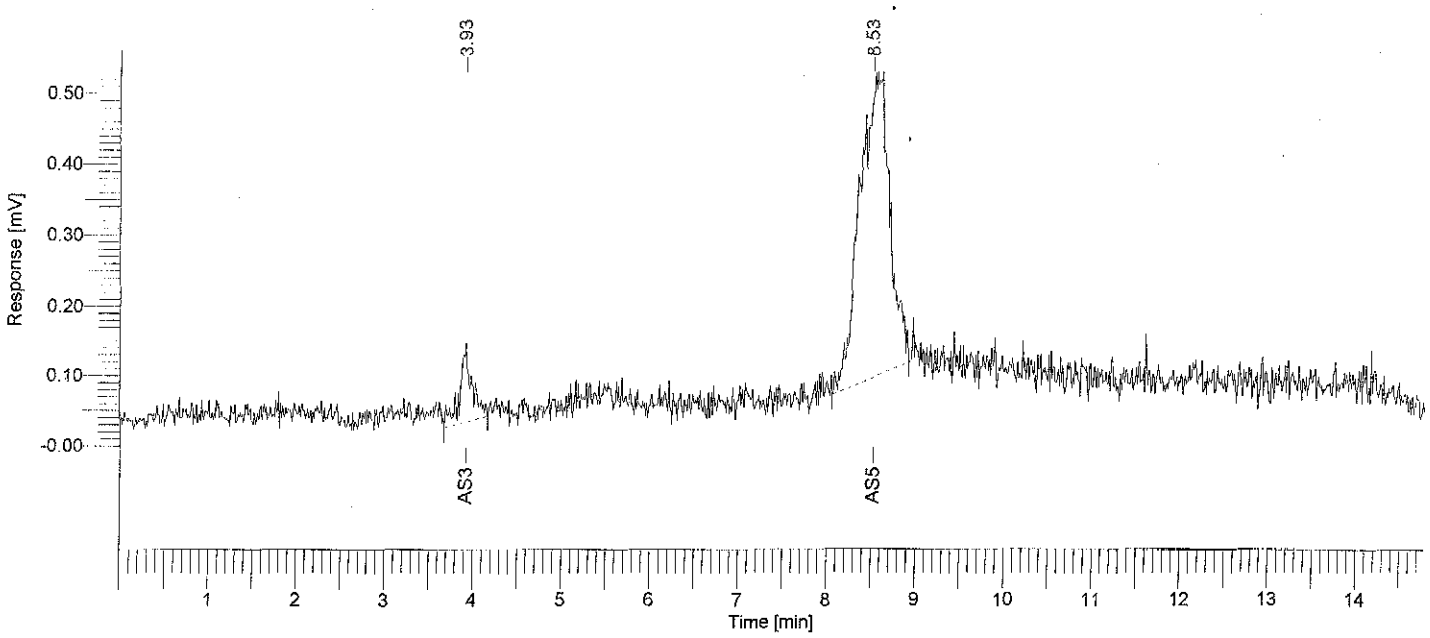


Arsenic Speciation Analysis

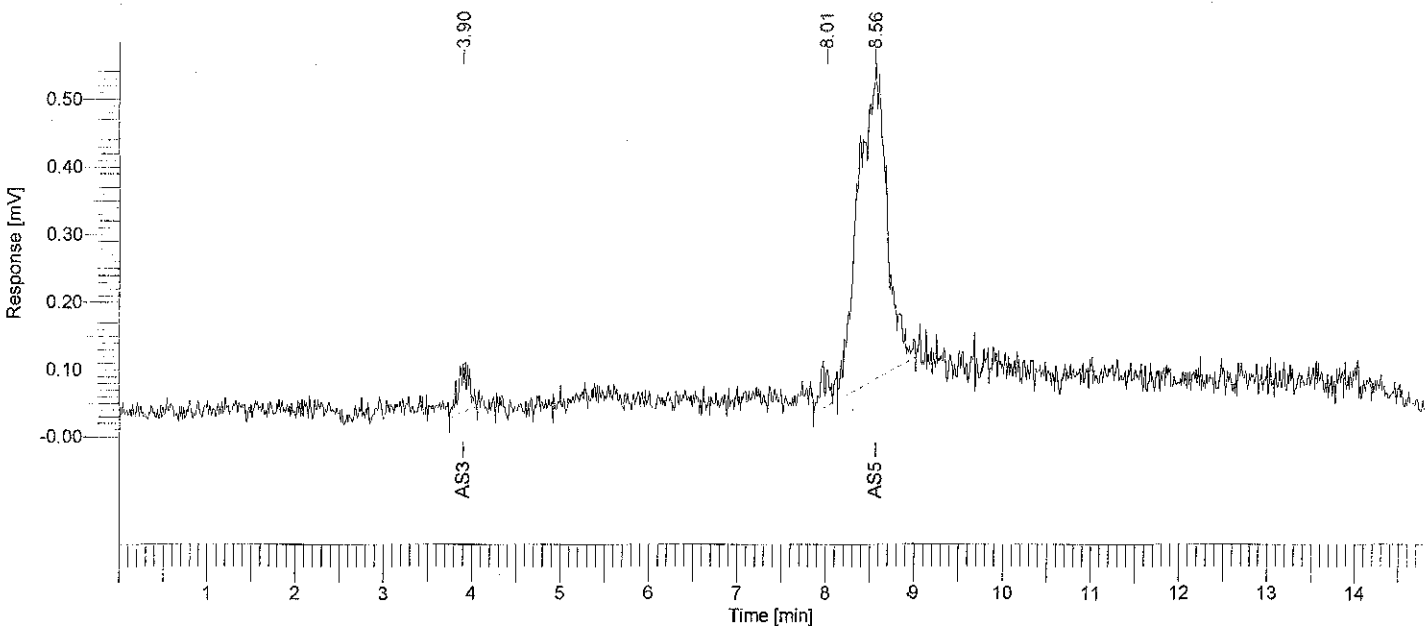
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.930	1069.26	110.35	9.57	9.57	BB	0.0011	0.0011
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.533	10108.98	397.60	90.43	90.43	BB	0.0101	0.0101
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11178.24	507.95	100.00	100.00		0.0112	0.0112

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:23 PM
Sample Name	: 6103004	Data Acquisition Time	: 10/30/2006 3:17:01 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 4		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103004-061031-094025_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.905	619.12	71.83	5.46	5.46	BB	0.0006	0.0006
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		8.011	480.09	53.85	4.23	4.23	BV	0.0005	0.0005
3	As5	8.562	10246.59	446.43	90.31	90.31	VB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11345.80	572.11	100.00	100.00		0.0113	0.0113

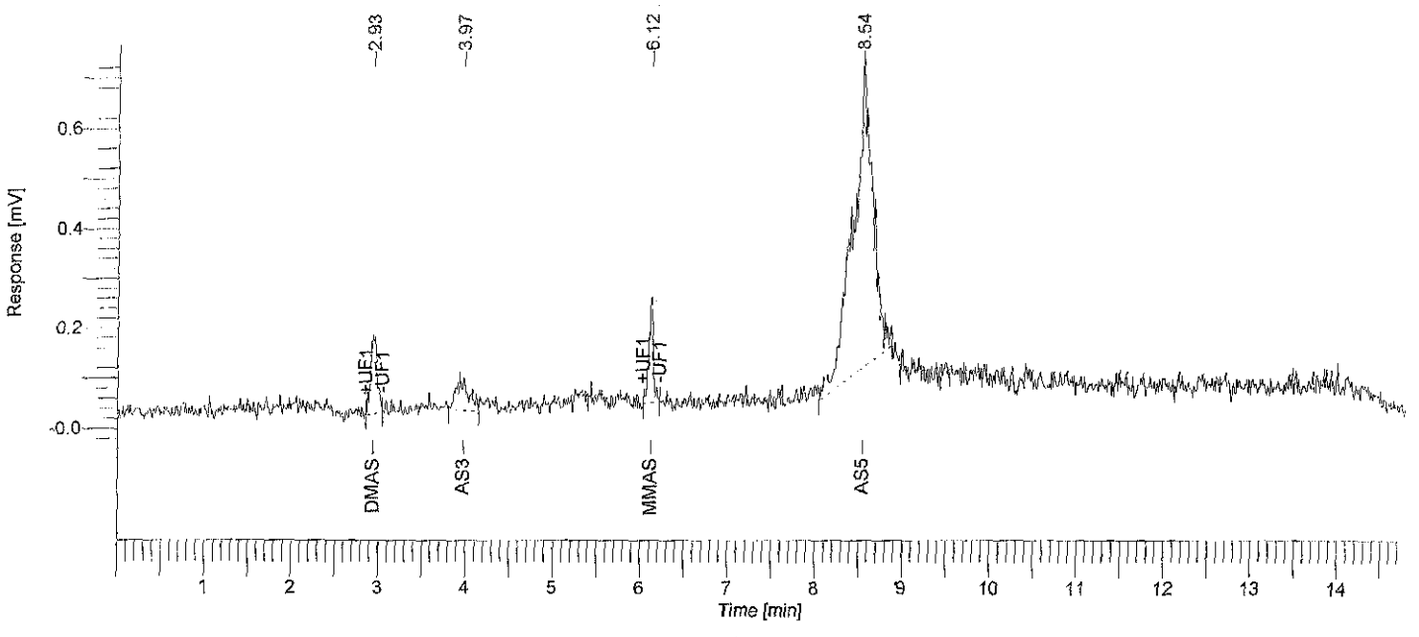
11/9/2006 4:34:23 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103004-061031-094025_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:31 PM
Sample Name	: 6103005	Data Acquisition Time	: 10/30/2006 3:32:12 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 5		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103005-061031-094031_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

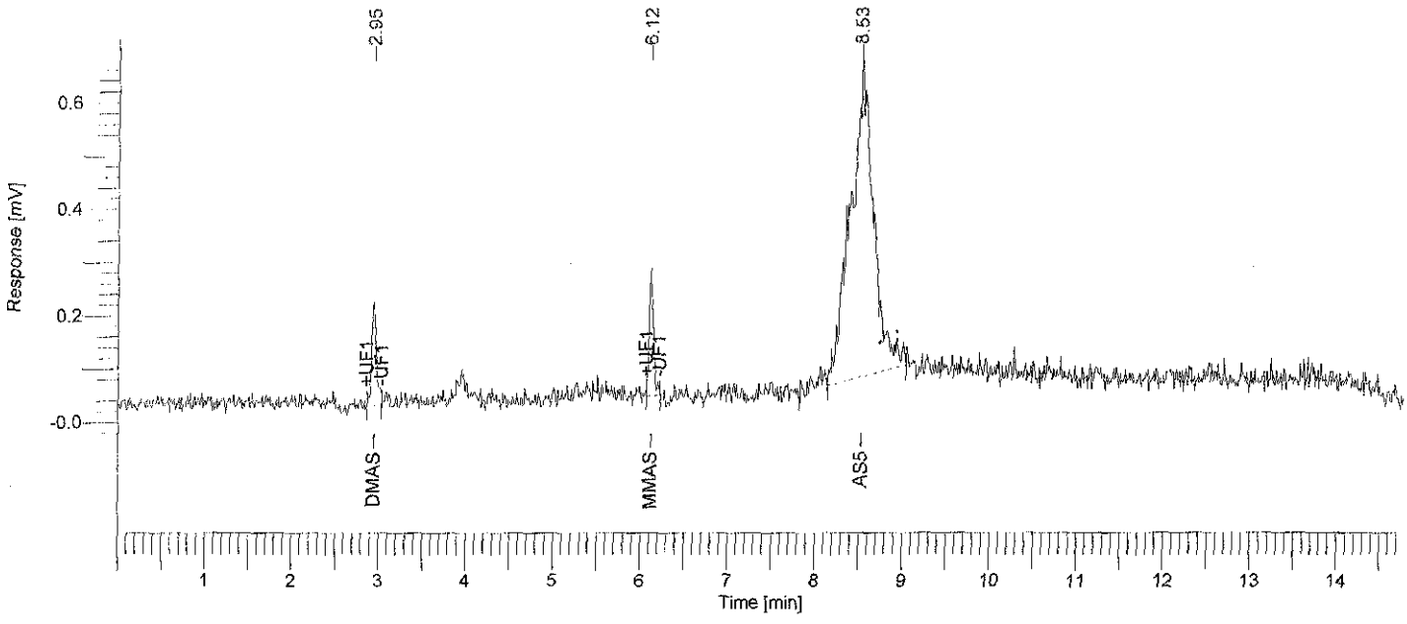
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	831.80	156.32	7.11	7.11	MM	0.0008	0.0008
2	As3	3.971	646.10	59.57	5.52	5.52	BB	0.0006	0.0006
3	MMAs	6.118	761.64	211.06	6.51	6.51	MM	0.0008	0.0008
4	As5	8.545	9464.30	607.84	80.86	80.86	BB	0.0095	0.0095
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11703.83	1034.79	100.00	100.00		0.0117	0.0117

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:42 PM
Sample Name	: 6103006	Data Acquisition Time	: 10/30/2006 3:47:23 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 6		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103006-061031-094038_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

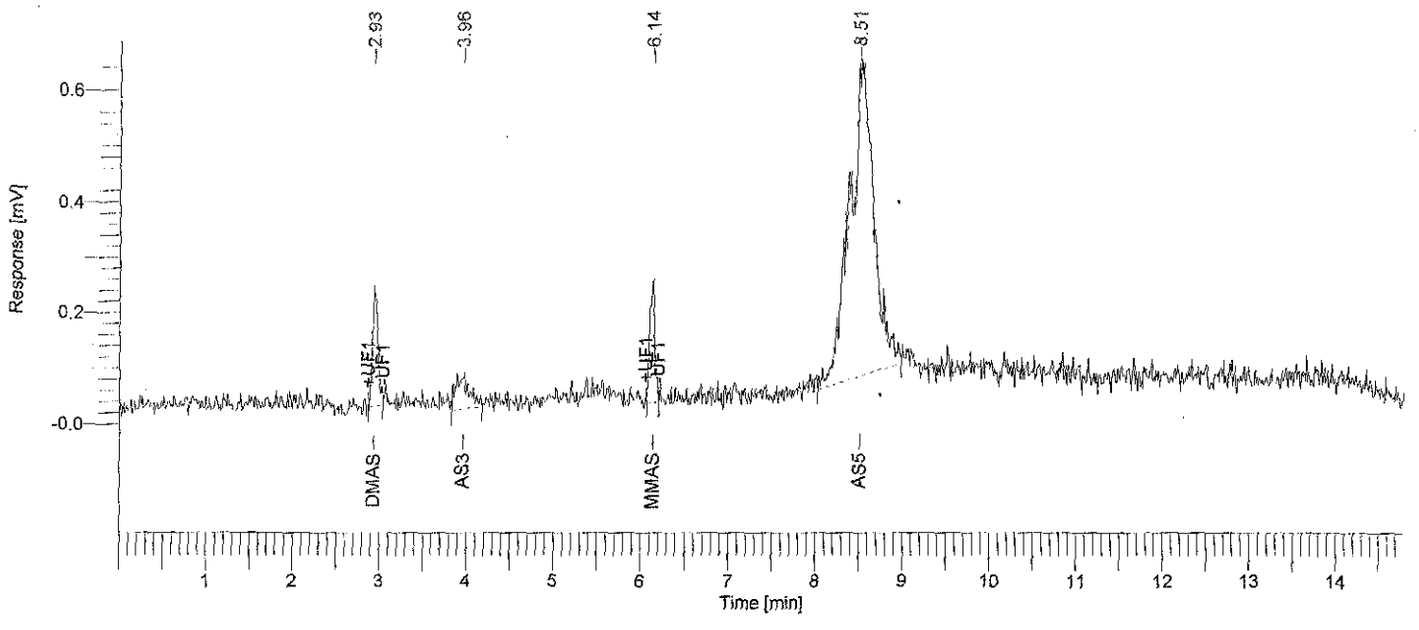
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	766.22	193.51	6.16	6.16	MM	0.0008	0.0008
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.118	802.75	240.31	6.46	6.46	MM	0.0008	0.0008
3	As5	8.534	10866.55	570.13	87.38	87.38	BB	0.0109	0.0109
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12435.52	1003.95	100.00	100.00		0.0124	0.0124

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:51 PM
Sample Name	: 6103007	Data Acquisition Time	: 10/30/2006 4:02:34 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 7		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103007-061031-094045_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

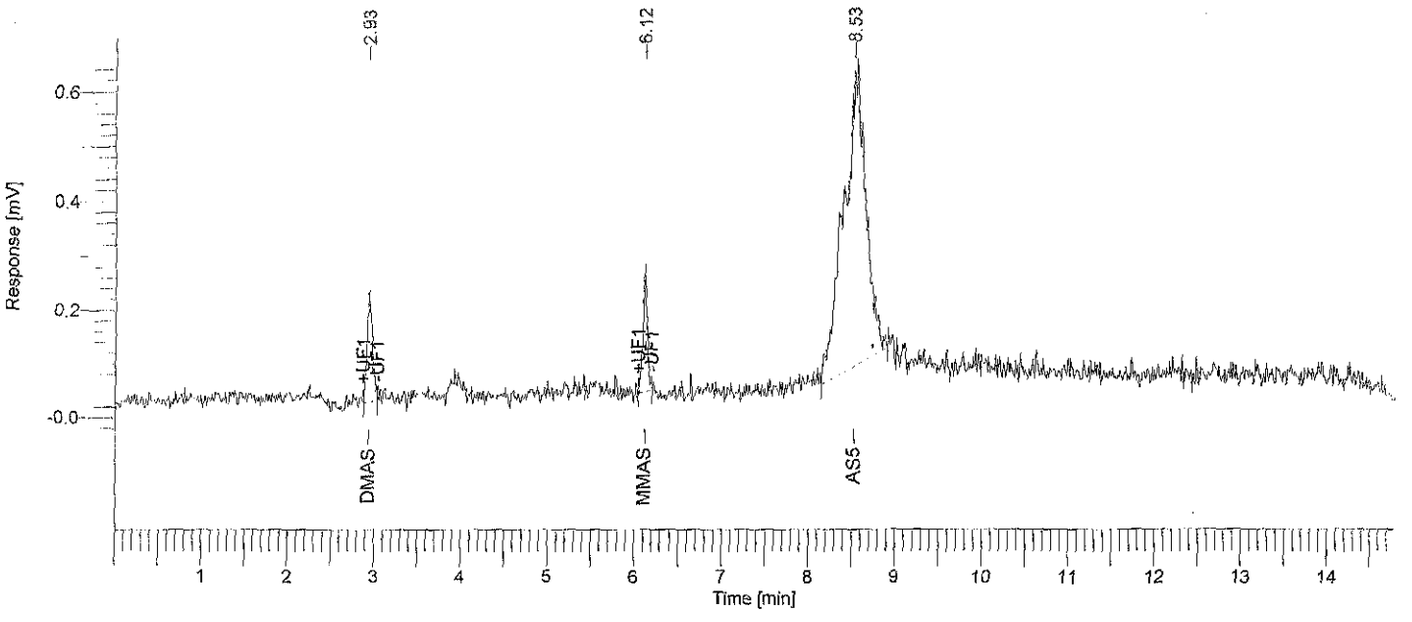
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	937.75	217.53	7.08	7.08	MM	0.0009	0.0009
2	As3	3.961	639.00	55.69	4.82	4.82	BB	0.0006	0.0006
3	MMAs	6.141	856.89	222.52	6.47	6.47	MM	0.0009	0.0009
4	As5	8.510	10814.72	557.26	81.63	81.63	BB	0.0108	0.0108
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			13248.36	1053.00	100.00	100.00		0.0132	0.0132

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:00 PM
Sample Name	: 6103008	Data Acquisition Time	: 10/30/2006 4:17:45 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 8		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103008-061031-094051_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

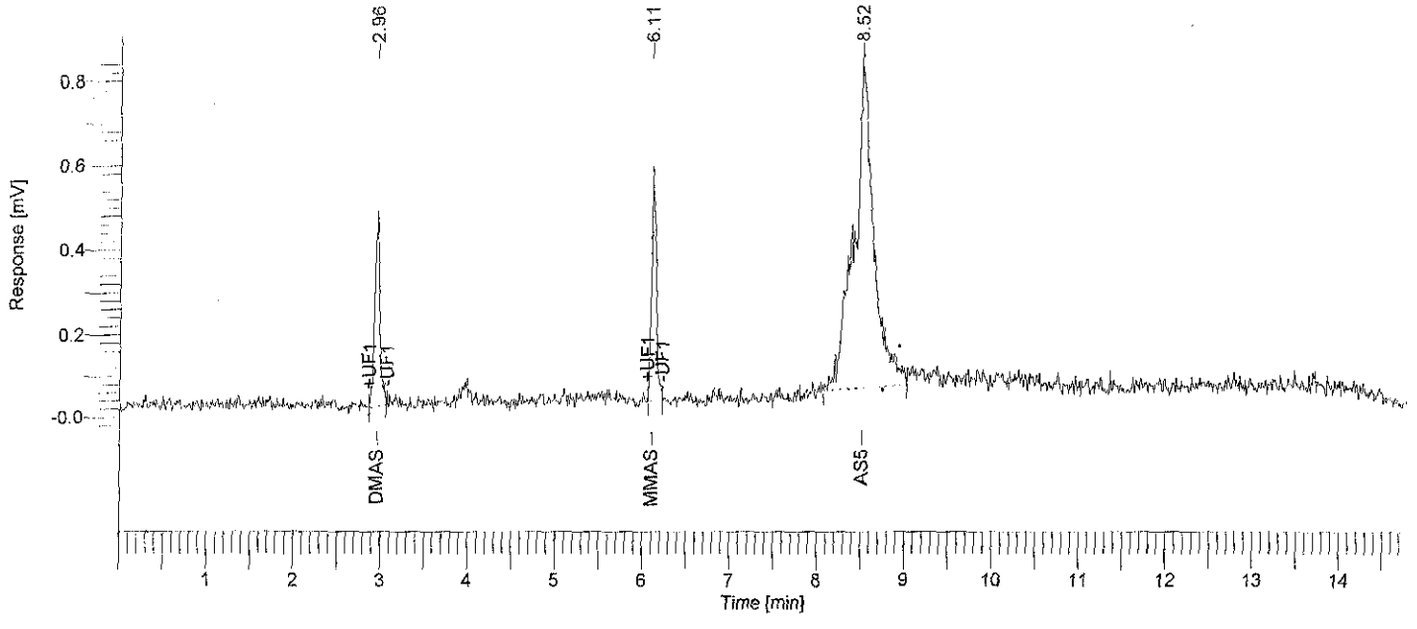
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	876.32	208.50	7.66	7.66	MM	0.0009	0.0009
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.118	808.01	237.10	7.06	7.06	MM	0.0008	0.0008
3	As5	8.527	9756.11	508.84	85.28	85.28	BB	0.0098	0.0098
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11440.44	954.44	100.00	100.00		0.0114	0.0114

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:13 PM
Sample Name	: 6103009	Data Acquisition Time	: 10/30/2006 4:32:56 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 9		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103009-061031-094058_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

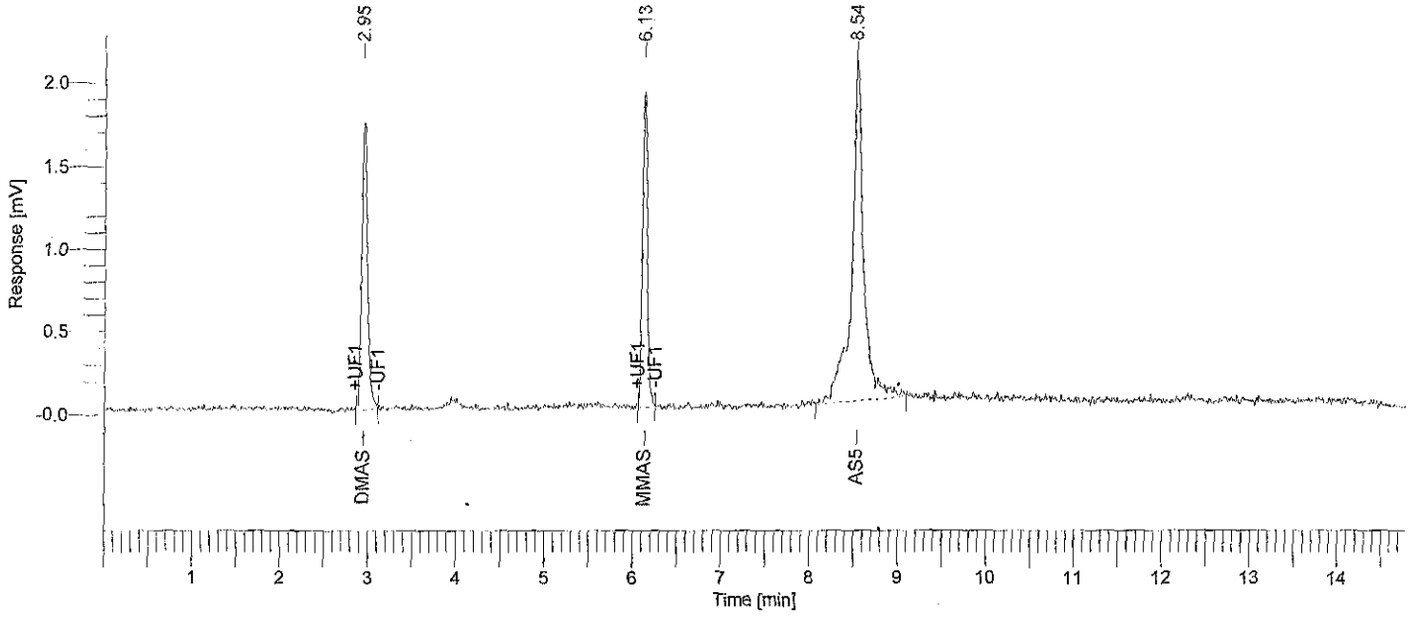
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.958	1892.36	467.82	11.68	11.68	MM	0.0019	0.0019
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.106	2093.94	557.00	12.92	12.92	MM	0.0021	0.0021
3	As5	8.515	12221.23	747.75	75.40	75.40	BB	0.0122	0.0122
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			16207.53	1772.57	100.00	100.00		0.0162	0.0162

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:21 PM
Sample Name	: 6103010	Data Acquisition Time	: 10/30/2006 4:48:07 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 10		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103010-061031-094104_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

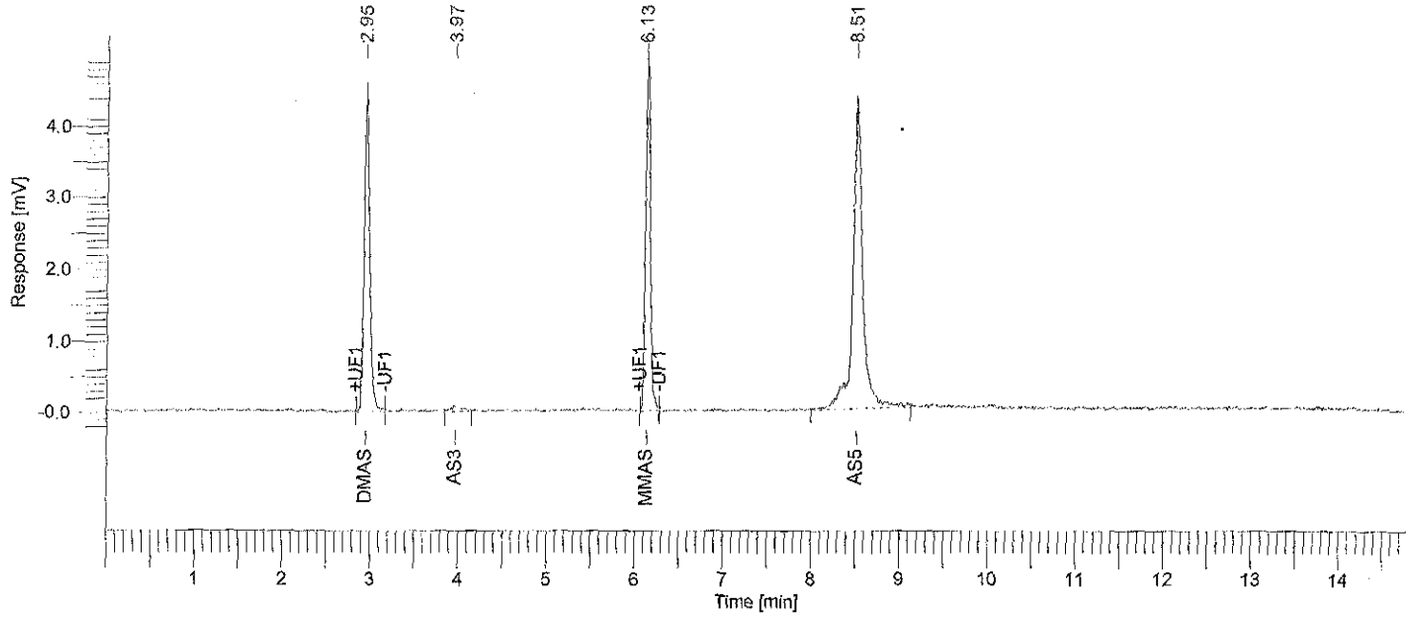
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	7946.99	1731.96	22.84	22.84	MM	0.0079	0.0079
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.130	7473.51	1900.85	21.48	21.48	MM	0.0075	0.0075
3	As5	8.536	19378.03	2056.86	55.69	55.69	BB	0.0194	0.0194
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			34798.54	5689.67	100.00	100.00		0.0348	0.0348

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:31 PM
Sample Name	: 6103011	Data Acquisition Time	: 10/30/2006 5:03:18 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 11		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103011-061031-094111_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

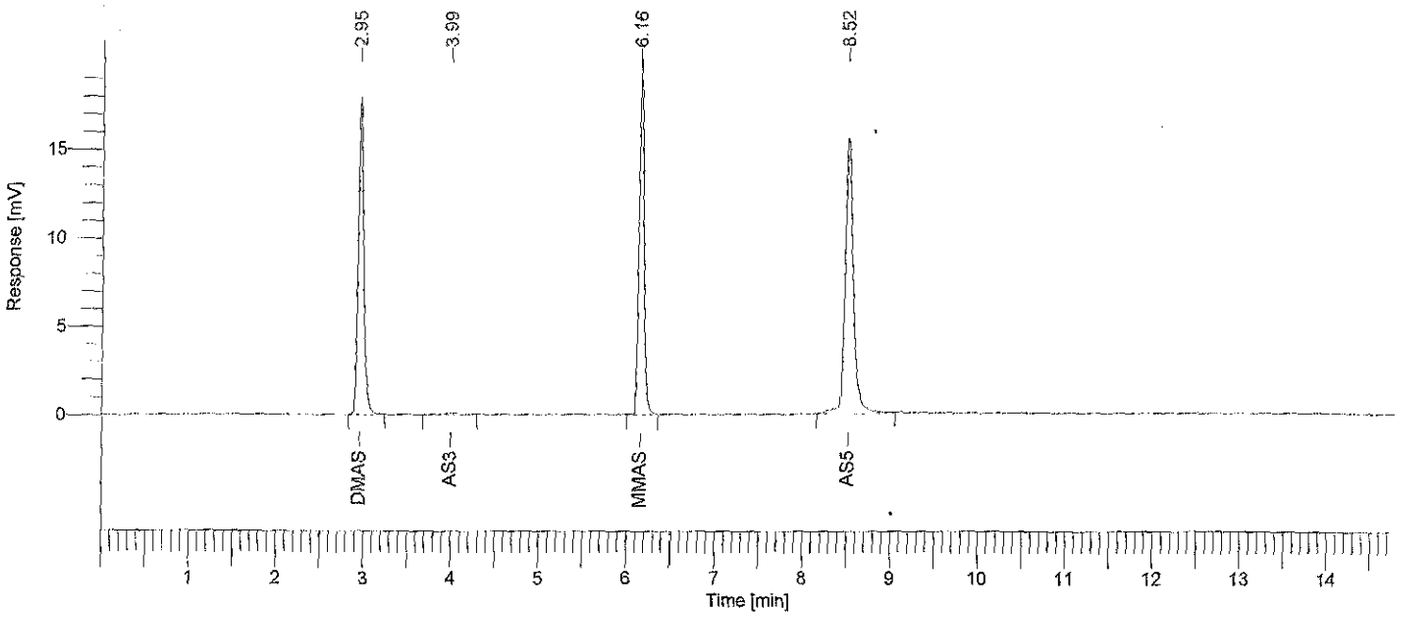
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	19506.23	4607.02	26.89	26.89	MM	0.0195	0.0195
2	As3	3.968	744.08	81.56	1.03	1.03	BB	0.0007	0.0007
3	MMAs	6.130	18732.48	4922.28	25.82	25.82	MM	0.0187	0.0187
4	As5	8.512	33570.93	4199.13	46.27	46.27	BB	0.0336	0.0336
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			72553.72	13809.99	100.00	100.00		0.0726	0.0726

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:40 PM
Sample Name	: 6103012	Data Acquisition Time	: 10/30/2006 5:18:29 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 12		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103012-061031-094117_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

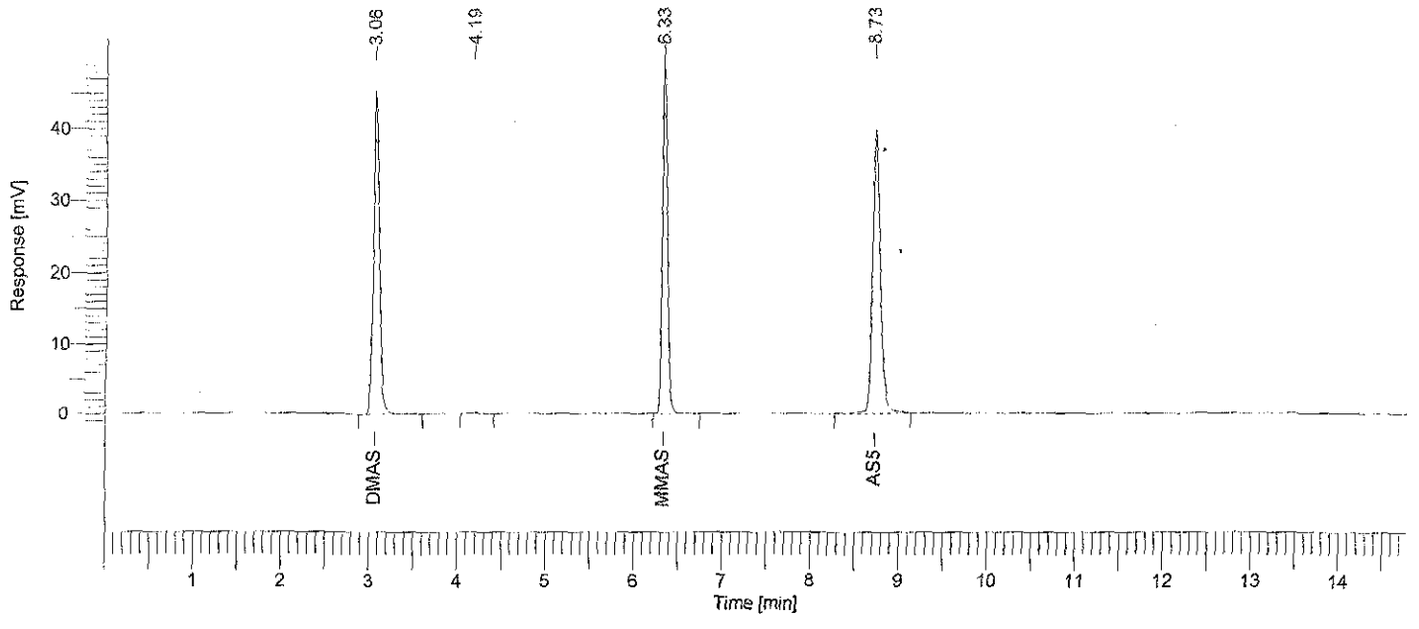
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.955	78701.37	17602.90	30.51	30.51	BB	0.0787	0.0787
2	As3	3.993	1246.76	98.90	0.48	0.48	BB	0.0012	0.0012
3	MMAs	6.156	76150.34	19725.64	29.52	29.52	BB	0.0762	0.0762
4	As5	8.517	101848.08	15622.18	39.48	39.48	BB	0.1018	0.1018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			257946.55	53049.61	100.00	100.00		0.2579	0.2579

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:16 PM
Sample Name	: 6103013	Data Acquisition Time	: 10/30/2006 5:33:40 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 13		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103013-061031-094124_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

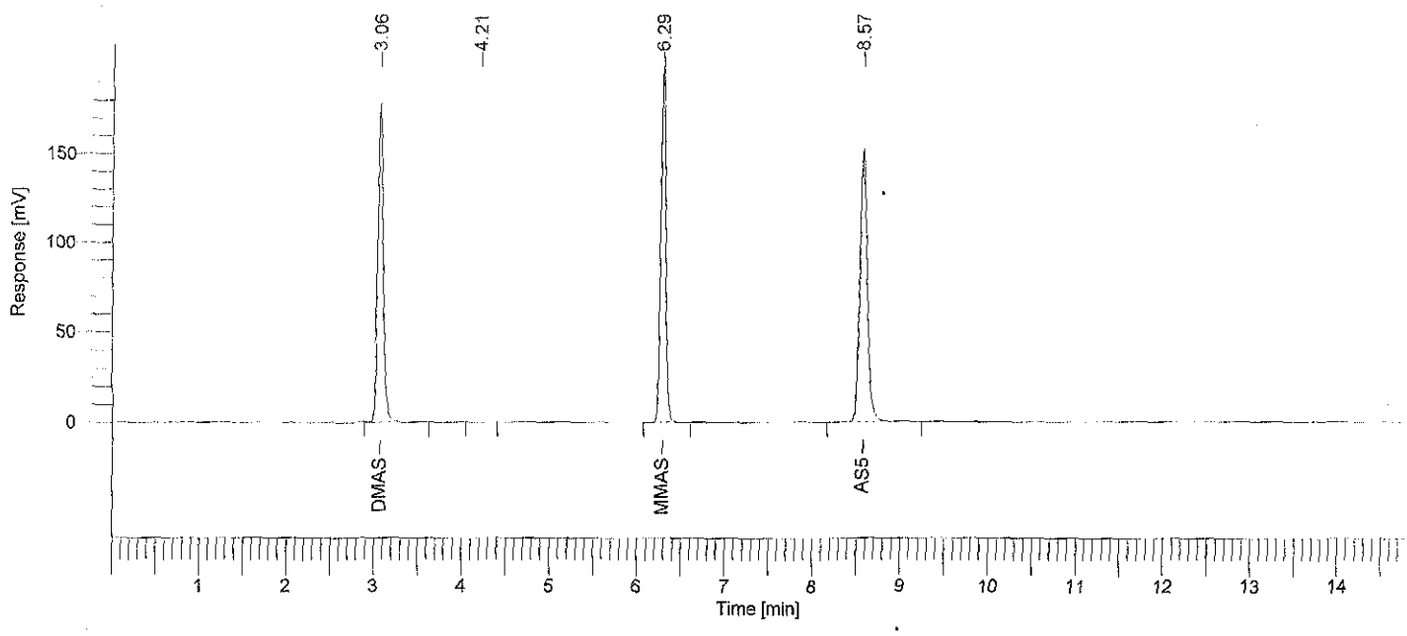
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	3.065	205410.10	44211.10	31.85	31.85	BB	0.2054	0.2054
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2		4.185	1180.02	129.74	0.18	0.18	BB	0.0012	0.0012
3	MMAs	6.330	196090.64	48563.04	30.41	30.41	BB	0.1961	0.1961
4	As5	8.727	242227.86	39342.50	37.56	37.56	BB	0.2422	0.2422
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			644908.62	132246.37	100.00	100.00		0.6449	0.6449

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:24 PM
Sample Name	: 6103014	Data Acquisition Time	: 10/30/2006 5:48:51 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 14		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103014-061031-094131_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

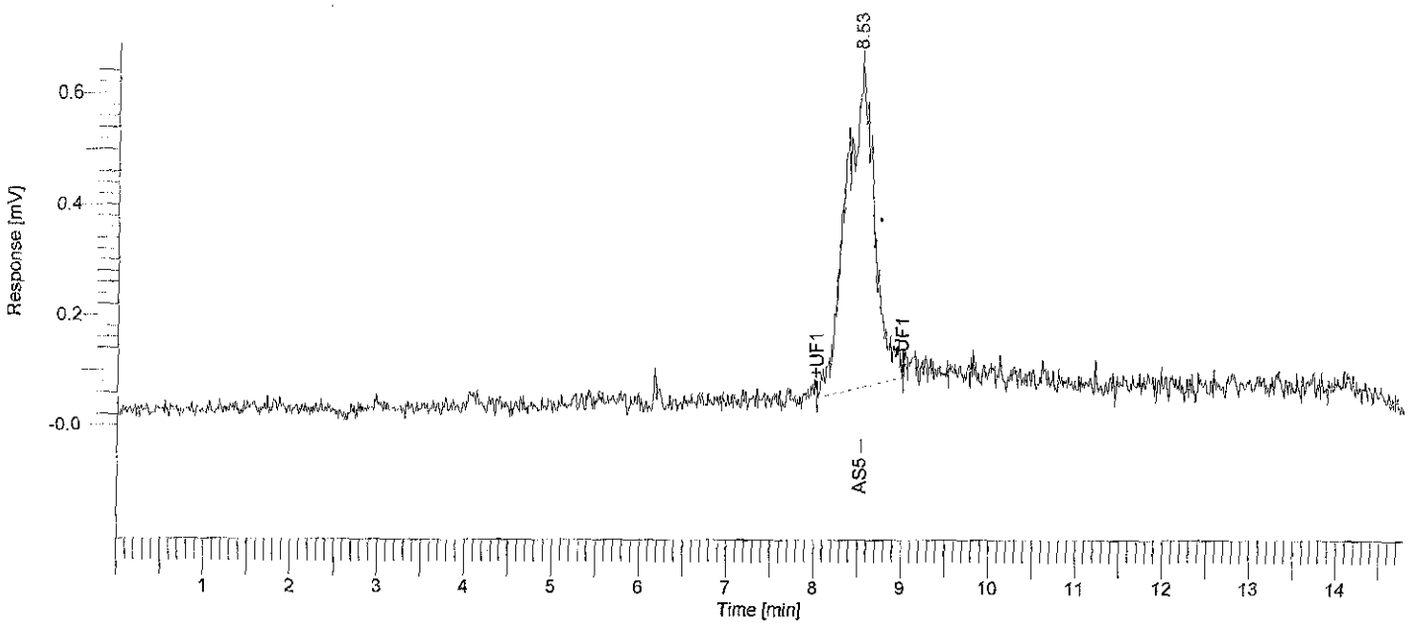
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	3.065	799127.01	174366.94	32.51	32.51	BB	0.7991	0.7991
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2		4.211	1539.99	134.01	0.06	0.06	BB	0.0015	0.0015
3	MMAs	6.288	757641.00	198521.53	30.83	30.83	BB	0.7576	0.7576
4	As5	8.574	899460.66	151820.40	36.60	36.60	BB	0.8995	0.8995
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			2457768.66	524842.88	100.00	100.00		2.4578	2.4578

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:35 PM
Sample Name	: 6103015	Data Acquisition Time	: 10/30/2006 6:04:02 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 15		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103015-061031-094137_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

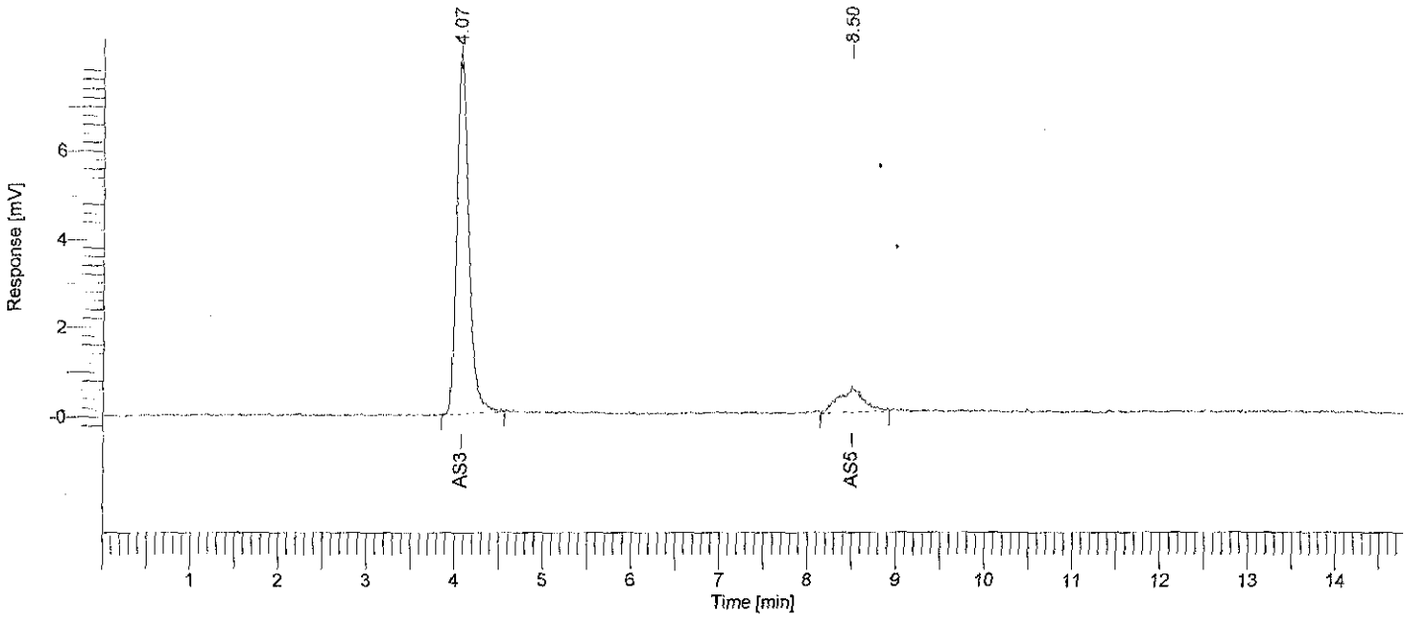
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.532	13072.58	577.94	100.00	100.00	MM	0.0131	0.0131
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			13072.58	577.94	100.00	100.00		0.0131	0.0131

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:43 PM
Sample Name	: 6103016	Data Acquisition Time	: 10/30/2006 6:19:13 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 16		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103016-061031-094144_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

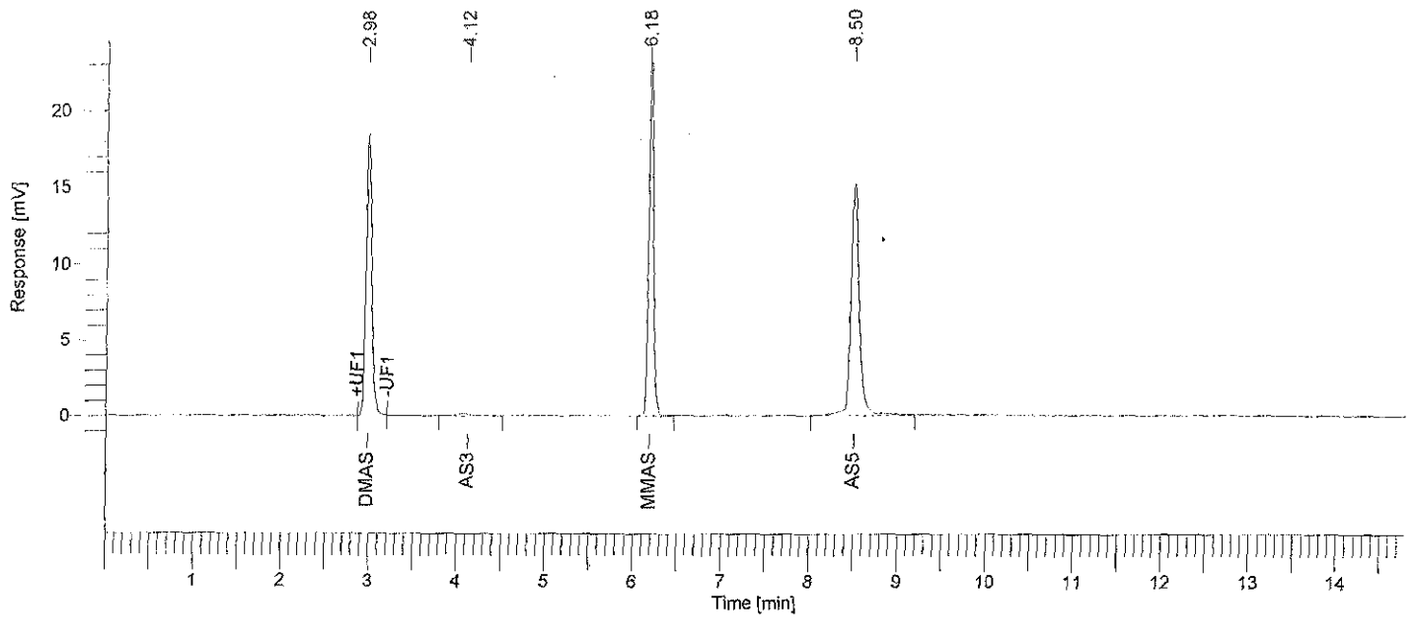
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.072	76080.76	7946.64	87.67	87.67	BB	0.0761	0.0761
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.502	10703.25	540.35	12.33	12.33	BB	0.0107	0.0107
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			86784.01	8486.99	100.00	100.00		0.0868	0.0868

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:52 PM
Sample Name	: 6103017	Data Acquisition Time	: 10/30/2006 6:34:24 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 17		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103017-061031-094151_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

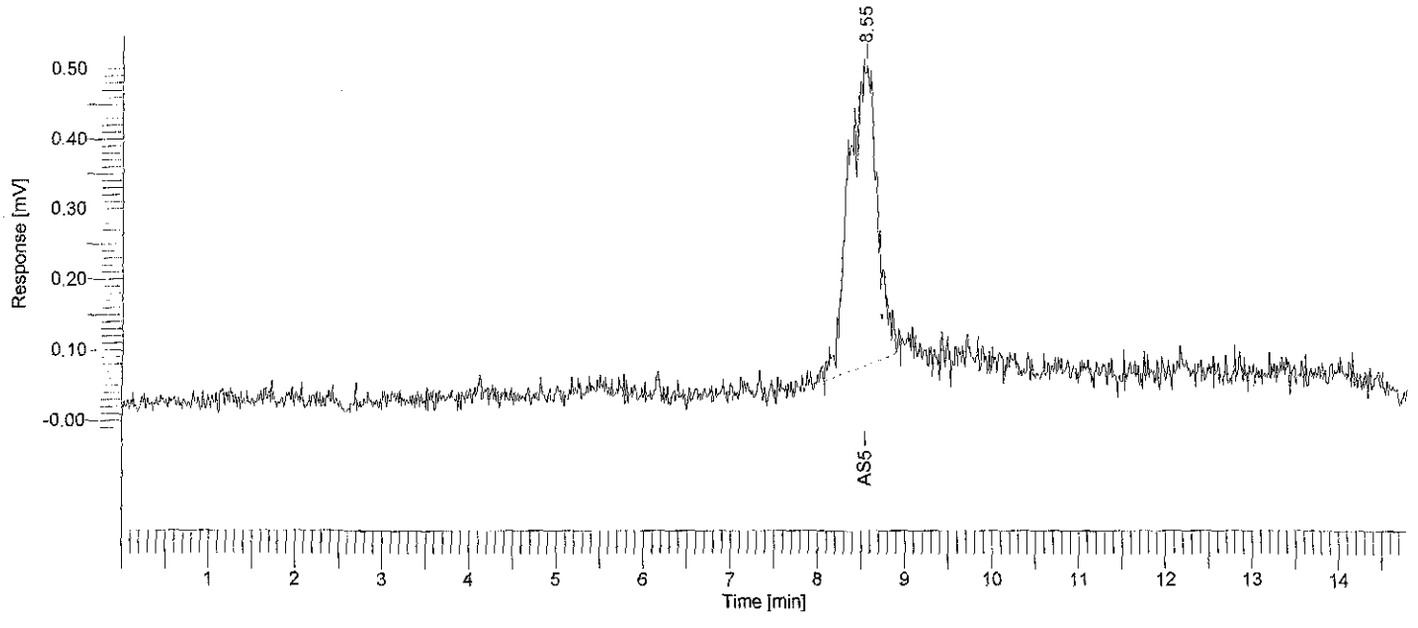
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.982	82555.63	18538.99	30.13	30.13	MM	0.0826	0.0826
2	As3	4.122	1999.36	111.43	0.73	0.73	BB	0.0020	0.0020
3	MMAs	6.182	88089.70	23435.20	32.15	32.15	BB	0.0881	0.0881
4	As5	8.502	101318.42	15229.68	36.98	36.98	BB	0.1013	0.1013
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			273963.11	57315.30	100.00	100.00		0.2740	0.2740

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:01 PM
Sample Name	: 6103018	Data Acquisition Time	: 10/30/2006 6:49:35 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 18		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103018-061031-094157_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

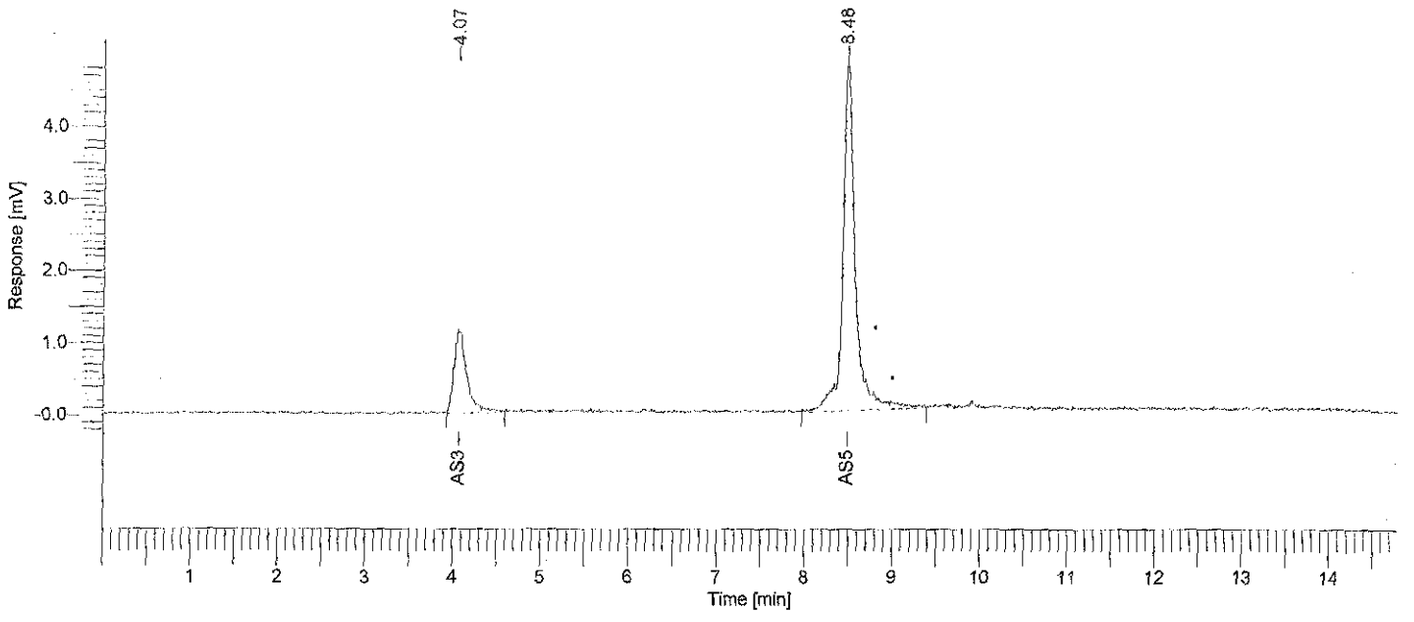
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.546	9802.26	420.40	100.00	100.00	BB	0.0098	0.0098
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9802.26	420.40	100.00	100.00		0.0098	0.0098

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:10 PM
Sample Name	: 6103019	Data Acquisition Time	: 10/30/2006 7:04:46 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 19		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103019-061031-094204_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

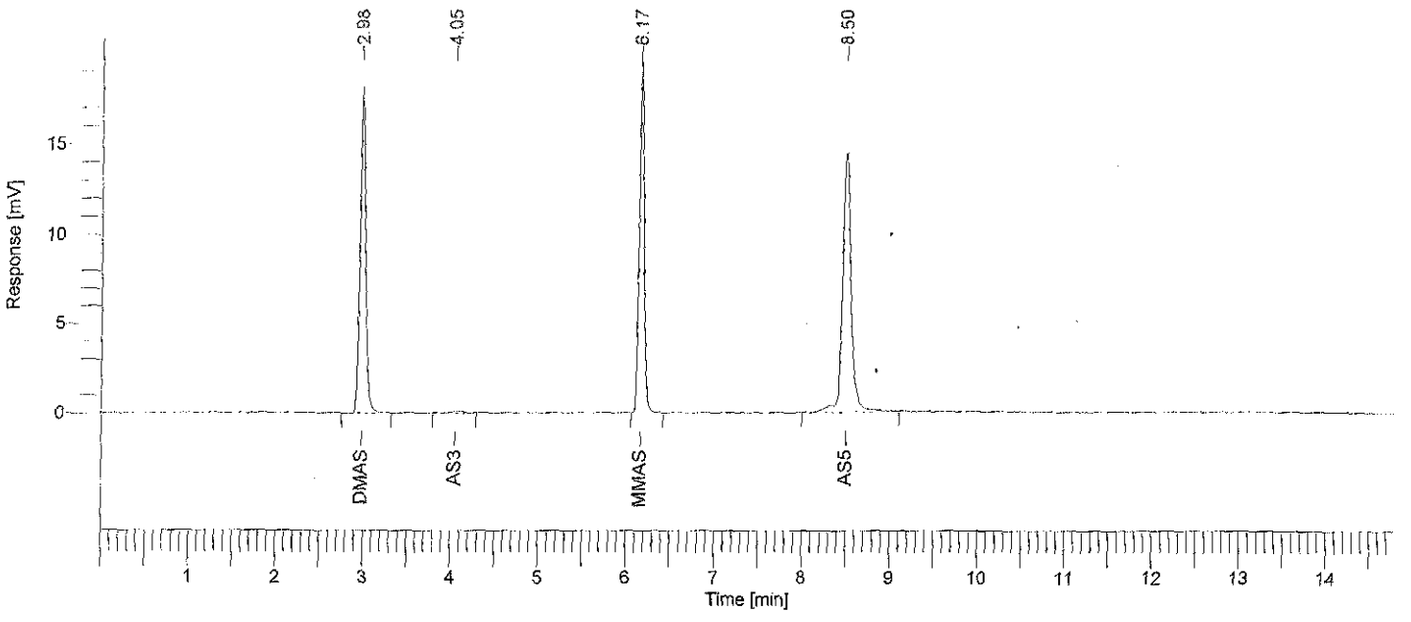
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.067	11690.15	1140.41	19.67	19.67	BB	0.0117	0.0117
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.484	47726.91	4805.41	80.33	80.33	BB	0.0477	0.0477
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			59417.06	5945.82	100.00	100.00		0.0594	0.0594

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:19 PM
Sample Name	: 6103020	Data Acquisition Time	: 10/30/2006 7:19:57 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 20		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103020-061031-094211_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

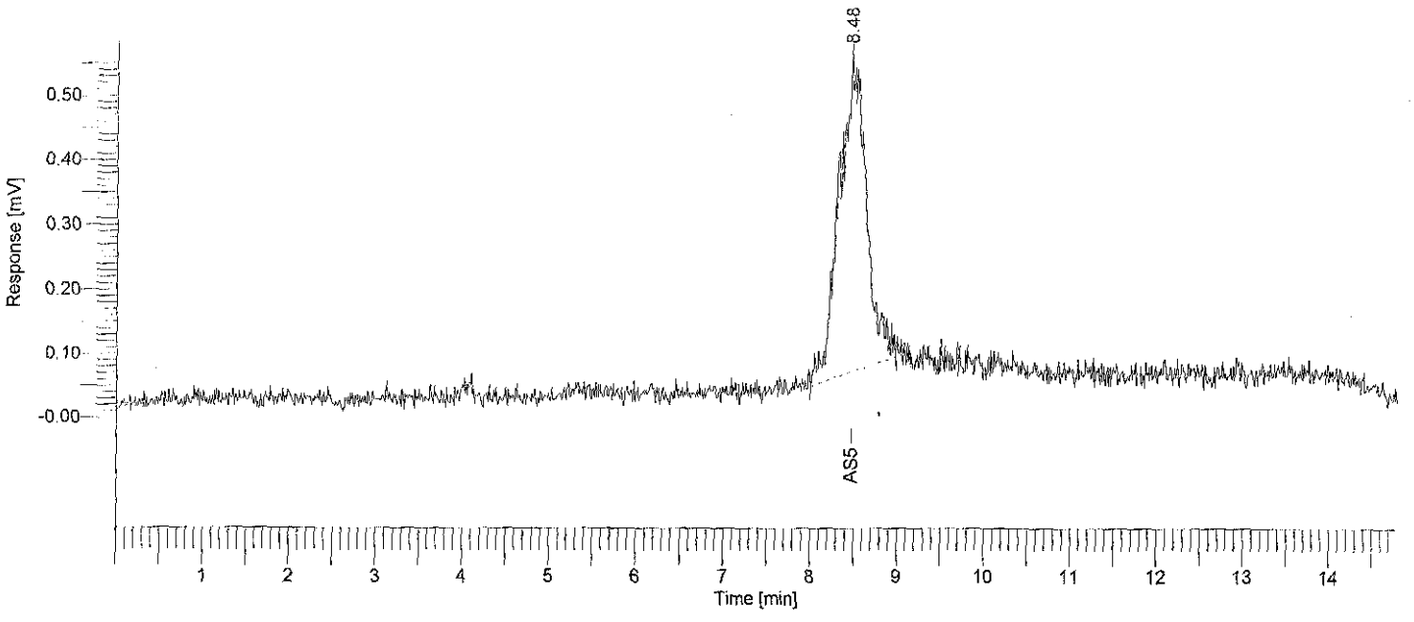
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.985	80232.13	17526.72	31.39	31.39	BB	0.0802	0.0802
2	As3	4.054	1243.92	119.20	0.49	0.49	BB	0.0012	0.0012
3	MMAs	6.166	74778.62	19504.54	29.26	29.26	BB	0.0748	0.0748
4	As5	8.502	99343.91	14558.85	38.87	38.87	BB	0.0993	0.0993
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			255598.58	51709.31	100.00	100.00		0.2556	0.2556

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:29 PM
Sample Name	: 6103021	Data Acquisition Time	: 10/30/2006 7:35:08 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 21		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103021-061031-094217_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

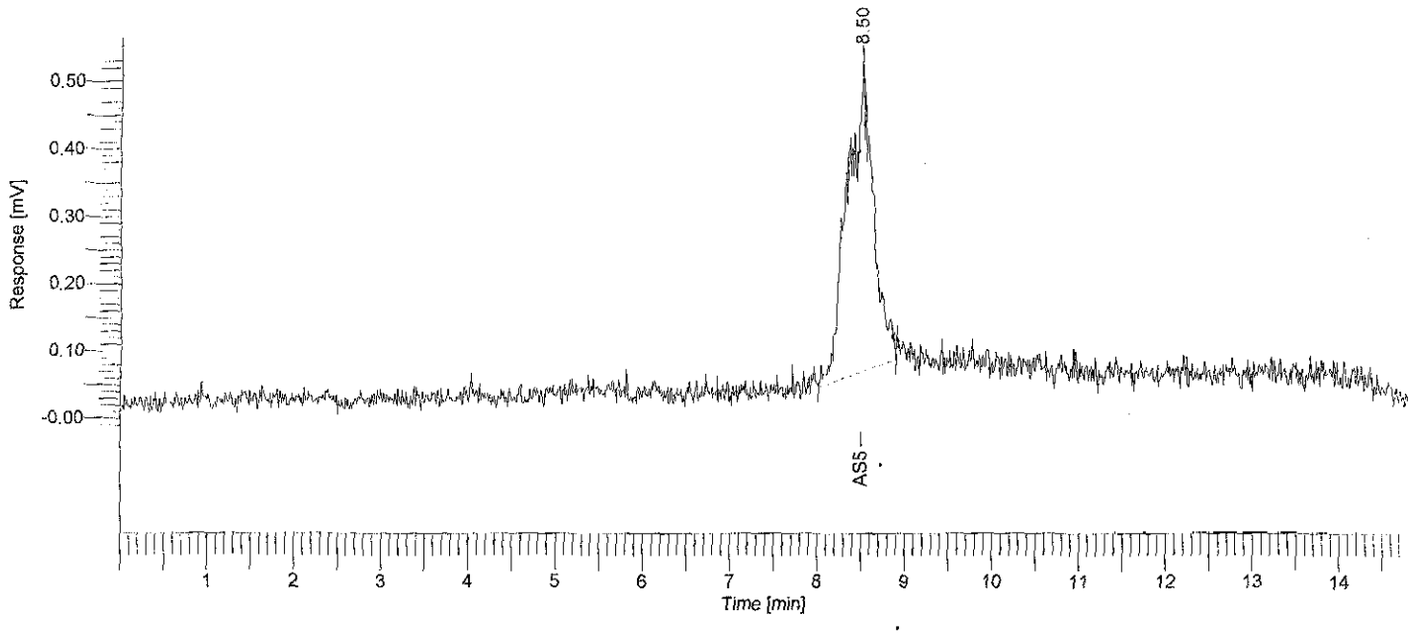
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.477	10614.50	467.66	100.00	100.00	BB	0.0106	0.0106
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10614.50	467.66	100.00	100.00		0.0106	0.0106

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:38 PM
Sample Name	: 6103022	Data Acquisition Time	: 10/30/2006 7:50:19 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 22		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103022-061031-094224_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

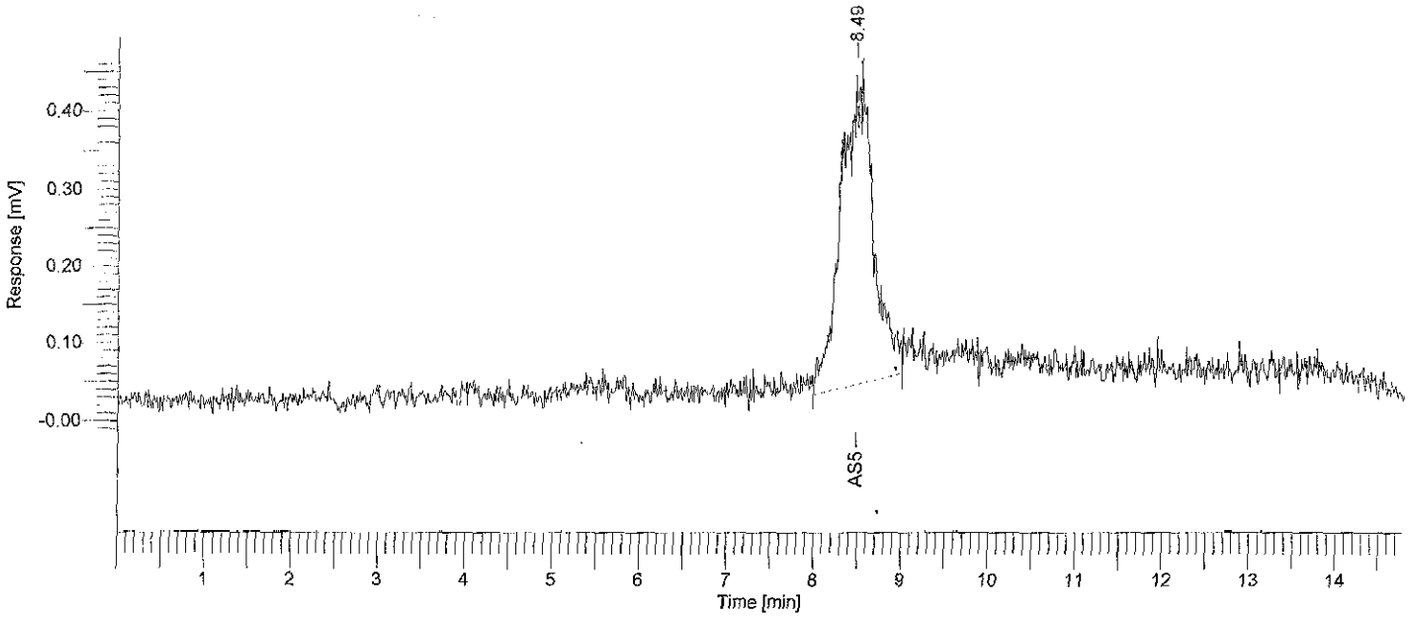
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.504	9386.91	444.04	100.00	100.00	BB	0.0094	0.0094
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9386.91	444.04	100.00	100.00		0.0094	0.0094

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:46 PM
Sample Name	: 6103023	Data Acquisition Time	: 10/30/2006 8:05:30 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 23		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103023-061031-094231_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

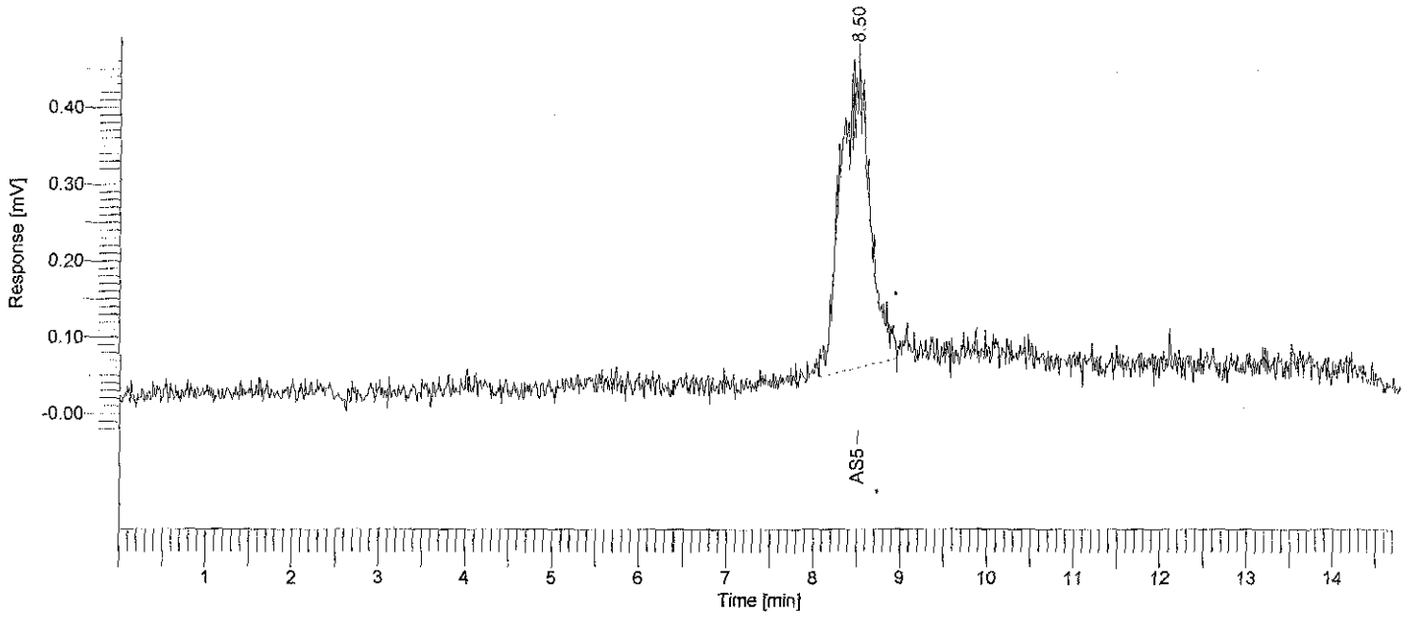
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.486	10274.41	348.94	100.00	100.00	BB	0.0103	0.0103
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10274.41	348.94	100.00	100.00		0.0103	0.0103

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:55 PM
Sample Name	: 6103024	Data Acquisition Time	: 10/30/2006 8:20:41 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 24		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103024-061031-094237_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

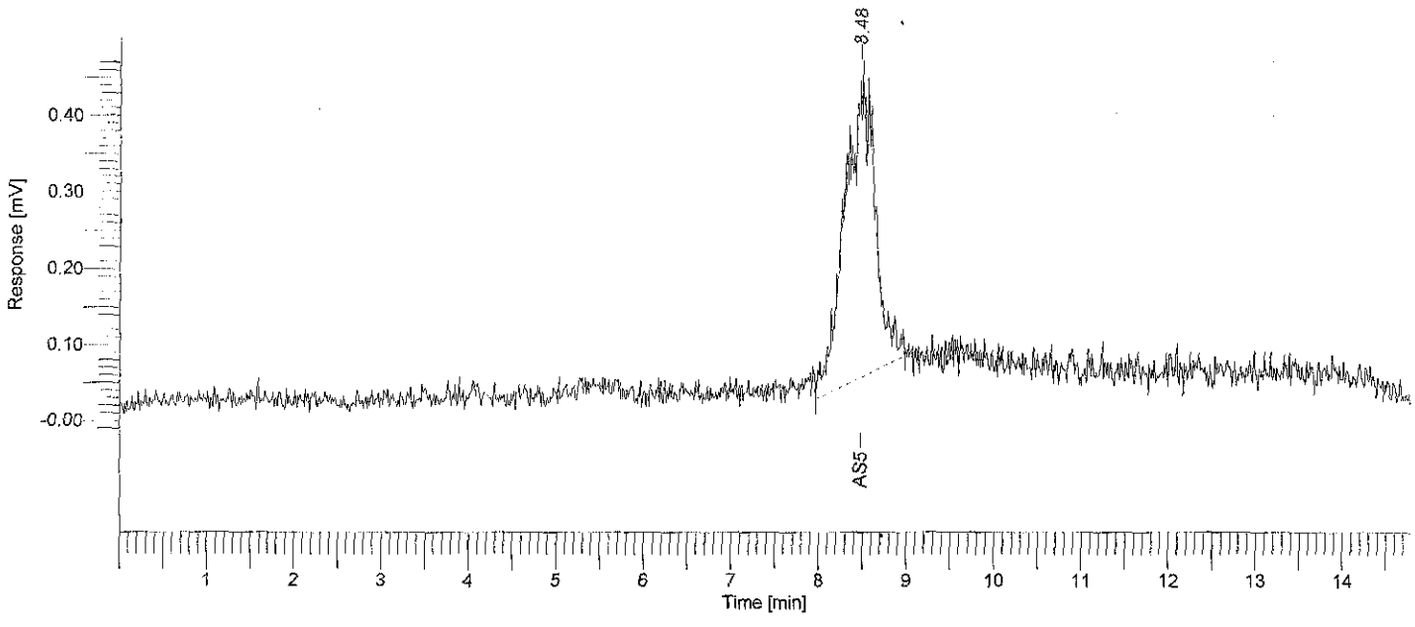
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.505	9315.20	381.61	100.00	100.00	BB	0.0093	0.0093
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9315.20	381.61	100.00	100.00		0.0093	0.0093

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:04 PM
Sample Name	: 6103025	Data Acquisition Time	: 10/30/2006 8:35:52 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 25		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103025-061031-094244_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

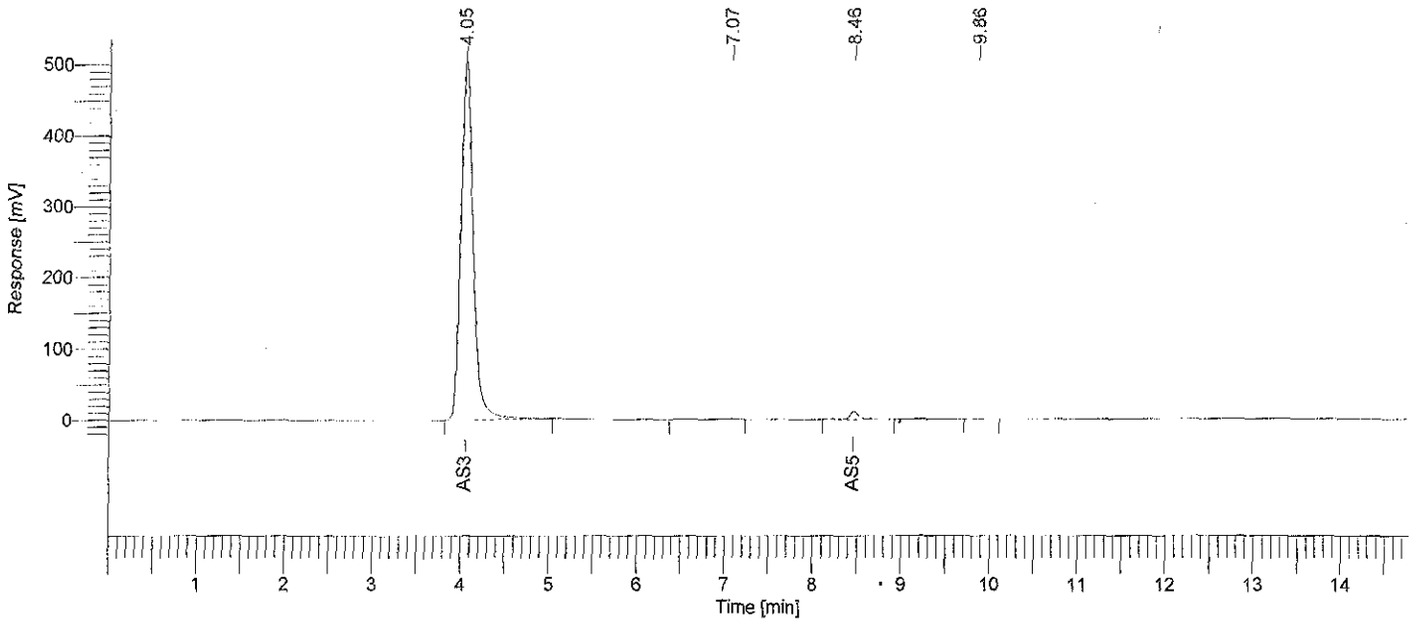
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.483	9567.25	376.12	100.00	100.00	BB	0.0096	0.0096
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9567.25	376.12	100.00	100.00		0.0096	0.0096

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:15 PM
Sample Name	: 6103026	Data Acquisition Time	: 10/30/2006 8:51:03 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 26		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103026-061031-094250_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.050	4916741.48	507554.32	97.95	97.95	BB	4.9167	4.9167
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		7.073	17136.56	298.75	0.34	0.34	BB	0.0171	0.0171
3	As5	8.455	79306.29	11440.13	1.58	1.58	BB	0.0793	0.0793
4		9.864	6392.13	1005.14	0.13	0.13	BB	0.0064	0.0064
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5019576.46	520298.34	100.00	100.00		5.0196	5.0196

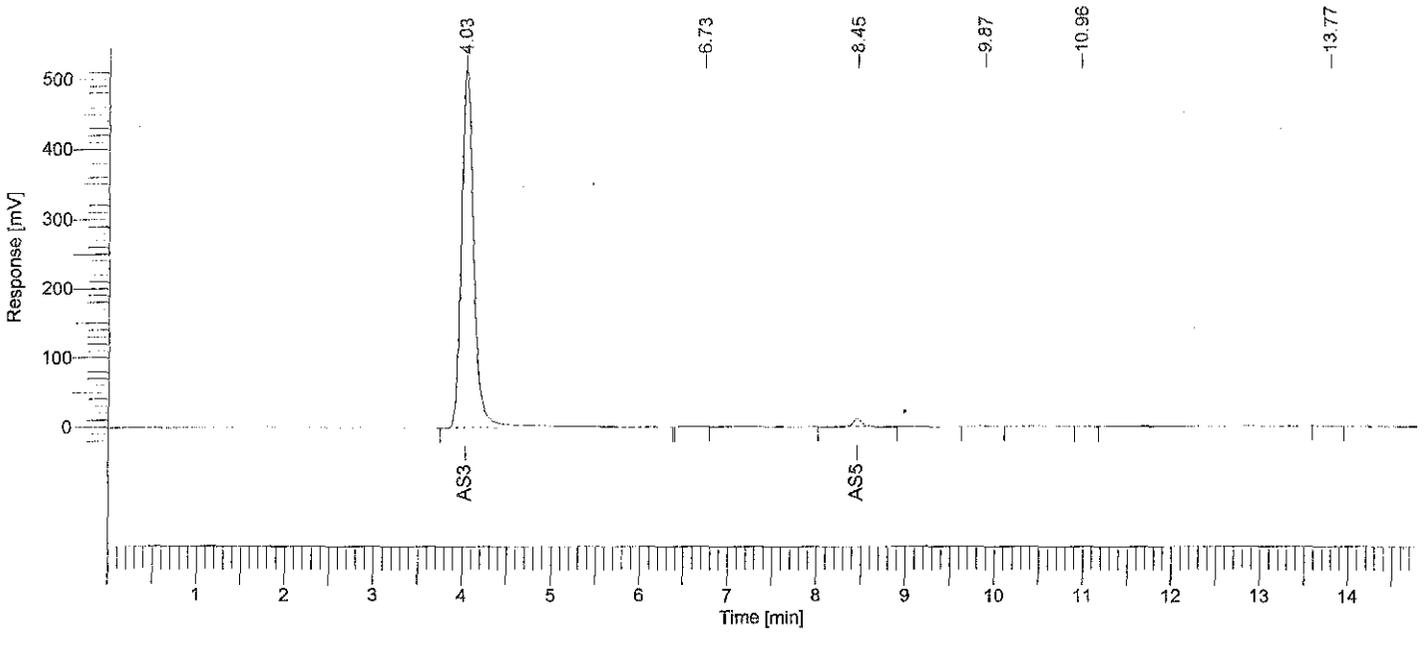
11/9/2006 4:38:15 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103026-061031-094250_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:23 PM
Sample Name	: 6103027	Data Acquisition Time	: 10/30/2006 9:06:14 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 27		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103027-061031-094257_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.032	5034444.57	516985.98	98.11	98.11	BB	5.0344	5.0344
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		6.730	4804.57	218.04	0.09	0.09	BB	0.0048	0.0048
3	As5	8.451	83934.78	11807.18	1.64	1.64	BB	0.0839	0.0839
4		9.873	7061.66	1110.07	0.14	0.14	BB	0.0071	0.0071
5		10.960	684.44	78.22	0.01	0.01	BB	0.0007	0.0007
6		13.770	735.56	56.46	0.01	0.01	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5131665.58	530255.94	100.00	100.00		5.1317	5.1317

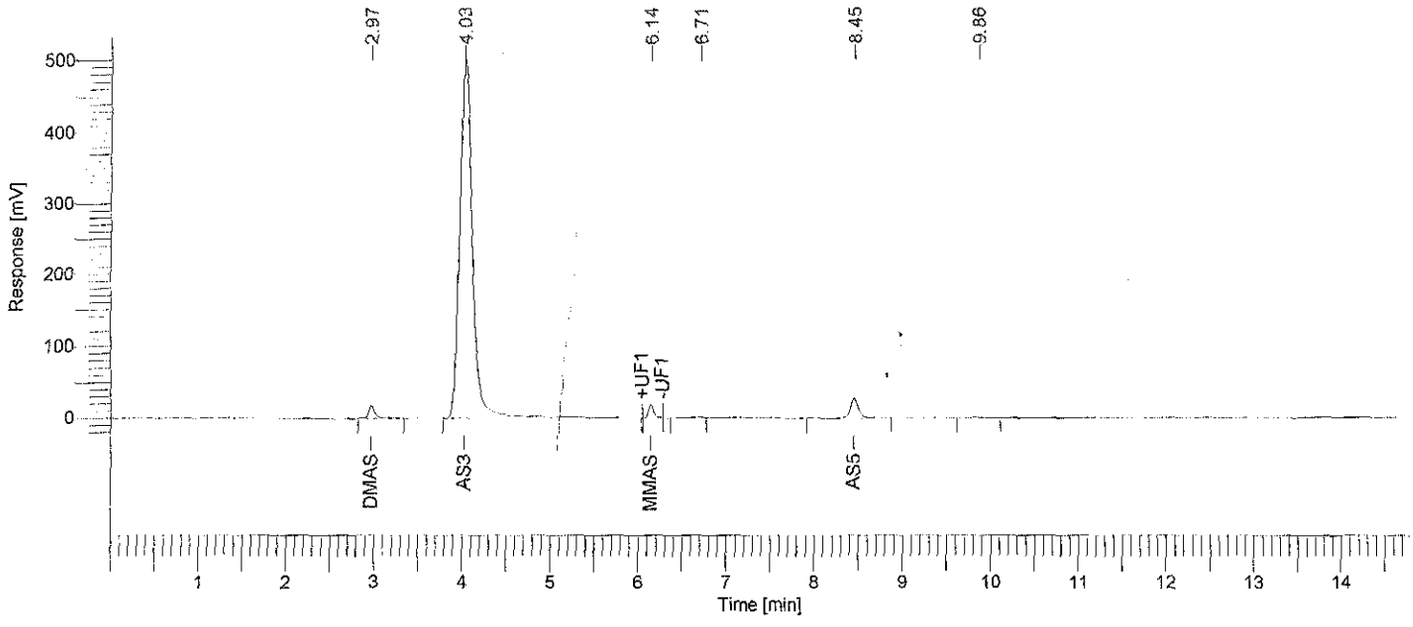
11/9/2006 4:38:23 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103027-061031-094257_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:31 PM
Sample Name	: 6103028	Data Acquisition Time	: 10/30/2006 9:21:25 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 28		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103028-061031-094303_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

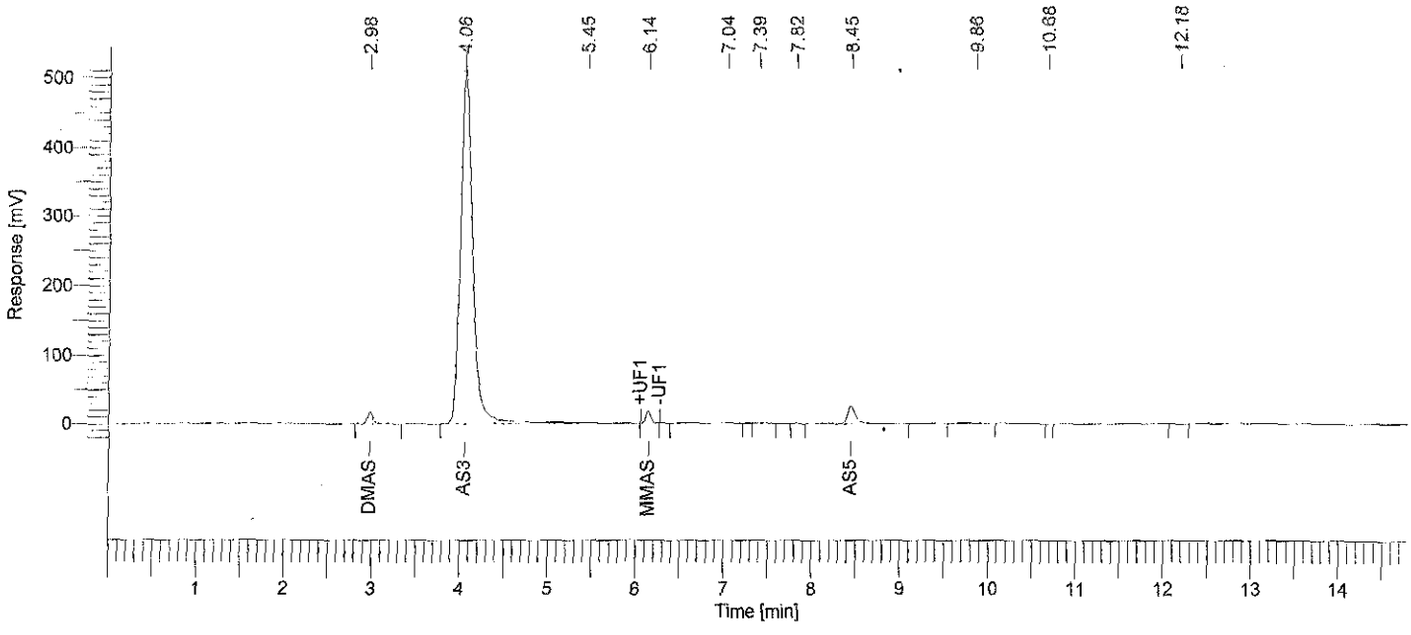
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.971	79297.06	17846.32	1.48	1.48	BB	0.0793	0.0793
2	As3	4.032	5030405.38	498871.17	93.74	93.74	BB	5.0304	5.0304
3	MMAs	6.141	74467.69	18714.52	1.39	1.39	MM	0.0745	0.0745
4		6.707	5419.43	209.94	0.10	0.10	BB	0.0054	0.0054
5	As5	8.451	170401.42	26971.99	3.18	3.18	BB	0.1704	0.1704
6		9.857	6599.45	1001.15	0.12	0.12	BB	0.0066	0.0066
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5366590.43	563615.10	100.00	100.00		5.3666	5.3666

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:40 PM
Sample Name	: 6103029	Data Acquisition Time	: 10/30/2006 9:36:36 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 29		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103029-061031-094310_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.979	79359.54	17451.48	1.47	1.47	BB	0.0794	0.0794
2	As3	4.056	4975854.66	506661.72	92.45	92.45	BE	4.9759	4.9759
3		5.448	53034.87	876.55	0.99	0.99	EB	0.0530	0.0530
4	MMAs	6.141	74816.16	18384.29	1.39	1.39	MM	0.0748	0.0748
5		7.040	14577.72	281.33	0.27	0.27	BB	0.0146	0.0146
6		7.395	4555.36	310.75	0.08	0.08	BB	0.0046	0.0046
7		7.821	601.55	77.78	0.01	0.01	BV	0.0006	0.0006
8	As5	8.445	171418.67	26235.75	3.18	3.18	VB	0.1714	0.1714
9		9.858	7278.21	1040.81	0.14	0.14	BB	0.0073	0.0073
10		10.676	205.19	74.64	0.00	0.00	BB	0.0002	0.0002
11		12.184	437.36	59.26	0.01	0.01	BB	0.0004	0.0004
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5382139.29	571454.37	100.00	100.00		5.3821	5.3821

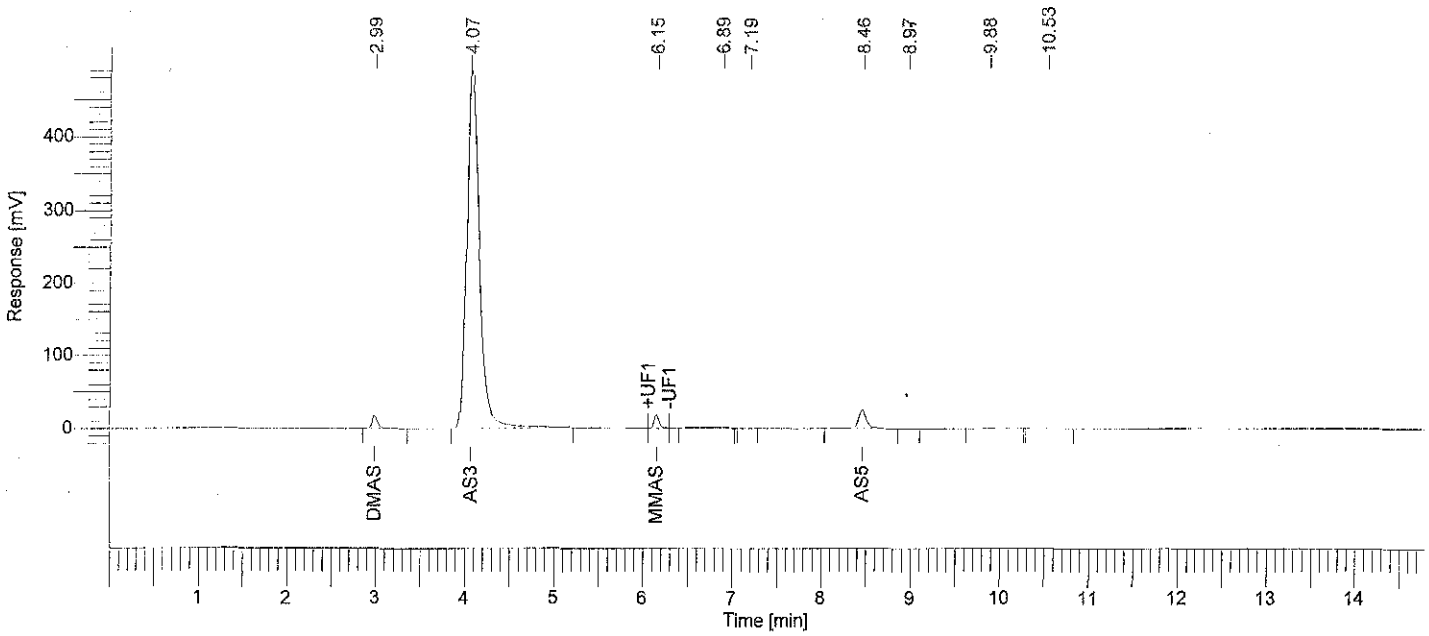
11/9/2006 4:38:40 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103029-061031-094310_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:49 PM
Sample Name	: 6103030	Data Acquisition Time	: 10/30/2006 9:51:47 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 30		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103030-061031-094317_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.990	81402.92	17850.55	1.57	1.57	BB	0.0814	0.0814
2	As3	4.073	4831564.91	492658.91	93.26	93.26	BB	4.8316	4.8316
3	MMAs	6.153	75693.56	18832.65	1.46	1.46	MM	0.0757	0.0757
4		6.889	13986.95	438.53	0.27	0.27	BV	0.0140	0.0140
5		7.194	2608.73	251.81	0.05	0.05	VB	0.0026	0.0026
6	As5	8.462	165483.25	25502.28	3.19	3.19	BB	0.1655	0.1655
7		8.970	597.11	16.80	0.01	0.01	BB	0.0006	0.0006
8		9.877	7720.54	1024.56	0.15	0.15	BB	0.0077	0.0077
9		10.532	1437.04	29.63	0.03	0.03	BB	0.0014	0.0014
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5180495.01	556605.72	100.00	100.00		5.1805	5.1805

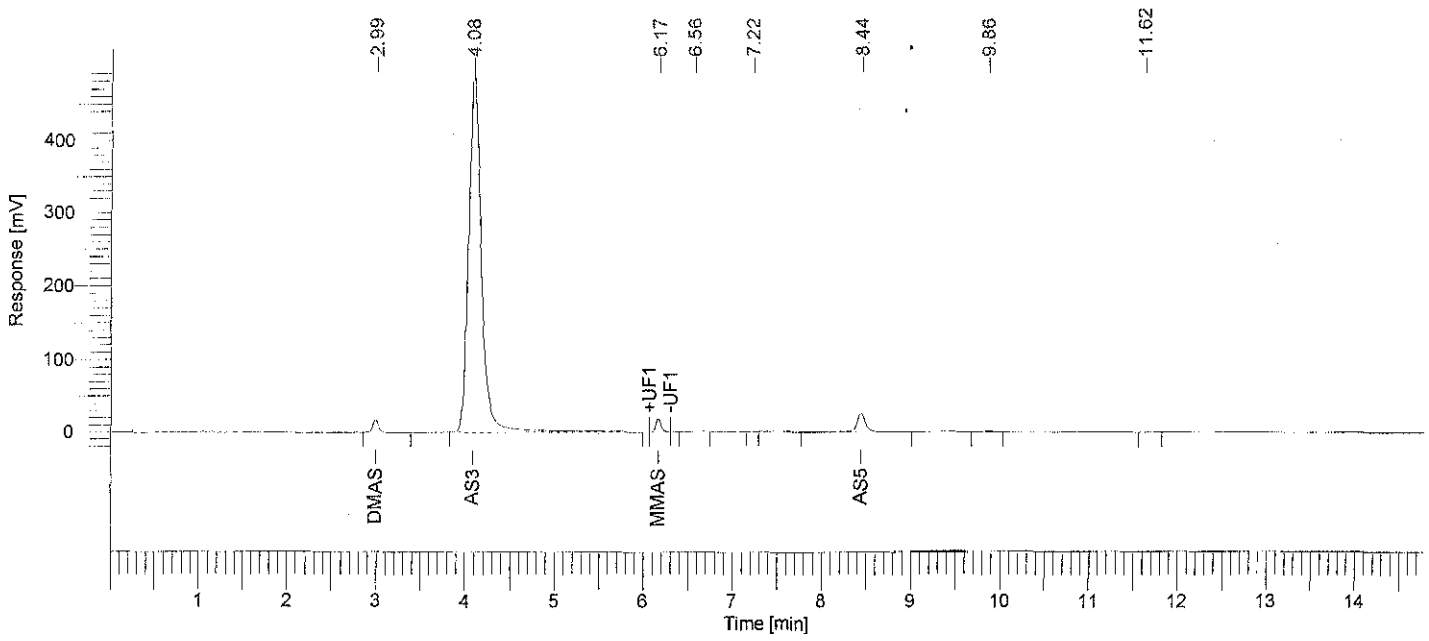
11/9/2006 4:38:49 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103030-061031-094317_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:59 PM
Sample Name	: 6103031	Data Acquisition Time	: 10/30/2006 10:06:58 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 31		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103031-061031-094324_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

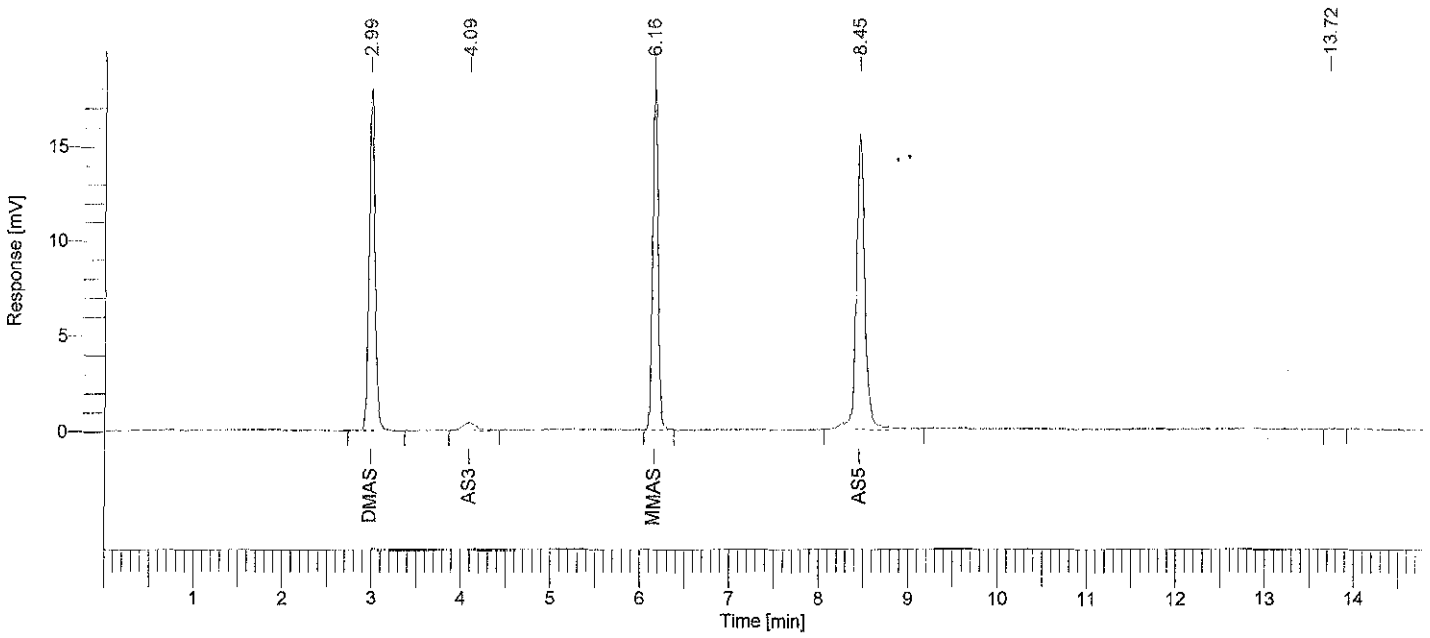
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.991	79348.18	16913.37	1.52	1.52	BB	0.0793	0.0793
2	As3	4.085	4901515.53	486496.88	93.59	93.59	BB	4.9015	4.9015
3	MMAs	6.165	74892.96	18286.71	1.43	1.43	MM	0.0749	0.0749
4		6.564	3346.94	233.55	0.06	0.06	BB	0.0033	0.0033
5		7.220	630.48	133.90	0.01	0.01	BB	0.0006	0.0006
6	As5	8.444	170453.96	25812.20	3.25	3.25	BB	0.1705	0.1705
7		9.856	6430.47	972.24	0.12	0.12	BB	0.0064	0.0064
8		11.621	697.93	76.24	0.01	0.01	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5237316.45	548925.09	100.00	100.00		5.2373	5.2373

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:09 PM
Sample Name	: 6103032	Data Acquisition Time	: 10/30/2006 10:22:09 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 32		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103032-061031-094331_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

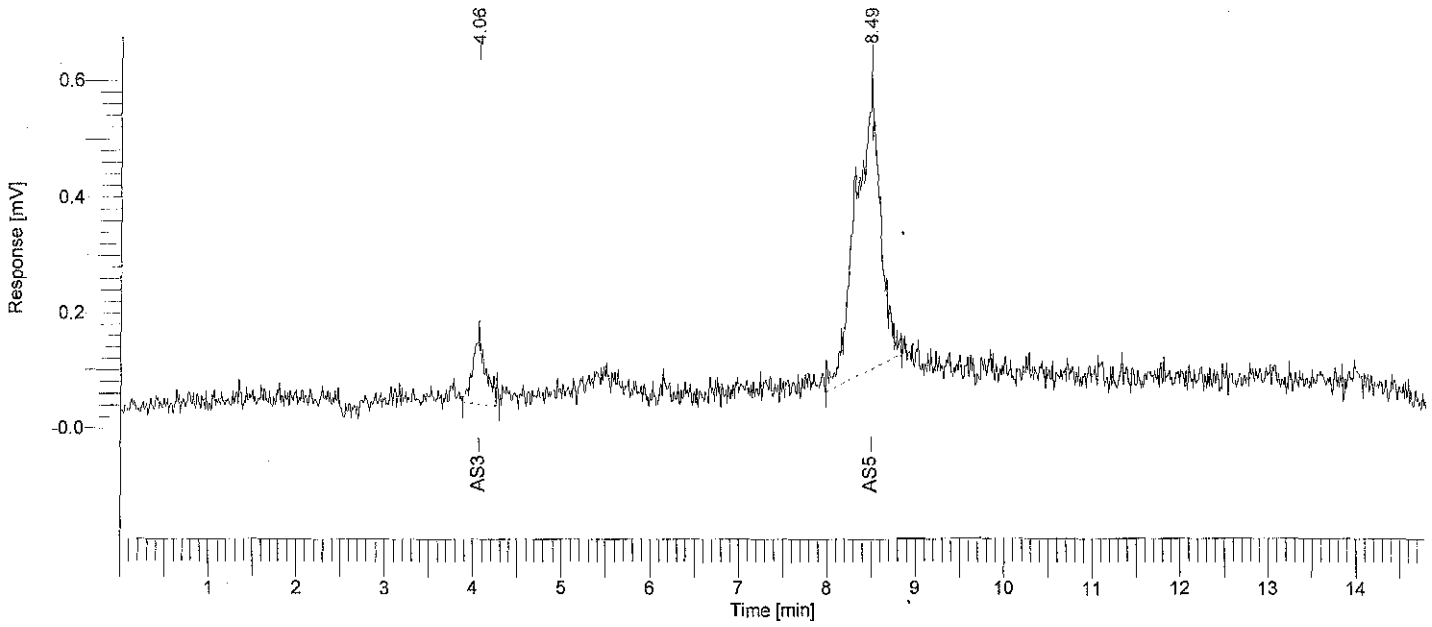
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.990	80776.70	17811.27	30.46	30.46	BB	0.0808	0.0808
2	As3	4.093	4352.30	393.20	1.64	1.64	BB	0.0044	0.0044
3	MMAs	6.157	76530.19	18588.28	28.86	28.86	BB	0.0765	0.0765
4	As5	8.454	103040.88	15355.11	38.86	38.86	BB	0.1030	0.1030
5		13.721	464.34	50.66	0.18	0.18	BB	0.0005	0.0005
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			265164.41	52198.52	100.00	100.00		0.2652	0.2652

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:17 PM
Sample Name	: 6103033	Data Acquisition Time	: 10/30/2006 10:37:20 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 33		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103033-061031-094337_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

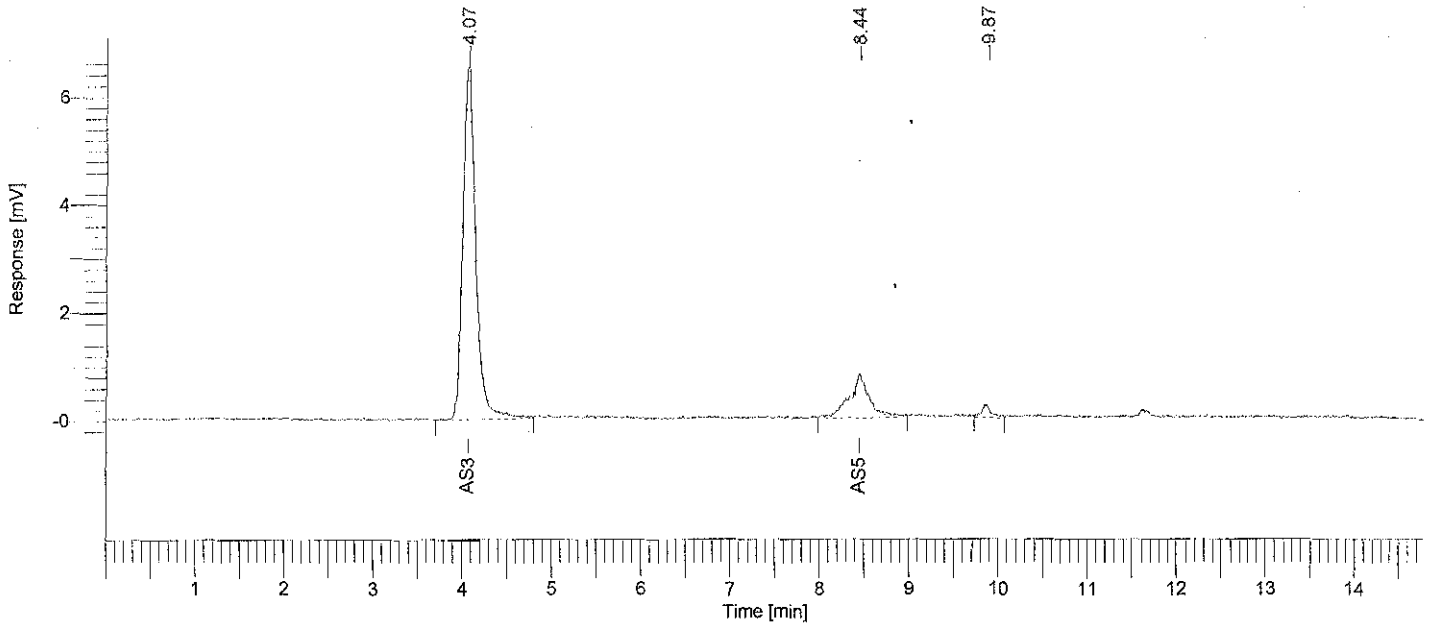
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.058	1329.12	121.40	12.18	12.18	BB	0.0013	0.0013
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.492	9582.16	475.26	87.82	87.82	BB	0.0096	0.0096
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10911.28	596.67	100.00	100.00		0.0109	0.0109

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:25 PM
Sample Name	: 6103034	Data Acquisition Time	: 10/30/2006 10:52:31 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 34		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103034-061031-094344_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.066	65653.70	6603.78	81.97	81.97	BB	0.0657	0.0657
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.442	12640.84	824.40	15.78	15.78	BB	0.0126	0.0126
3		9.873	1804.82	232.81	2.25	2.25	BB	0.0018	0.0018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			80099.36	7660.99	100.00	100.00		0.0801	0.0801

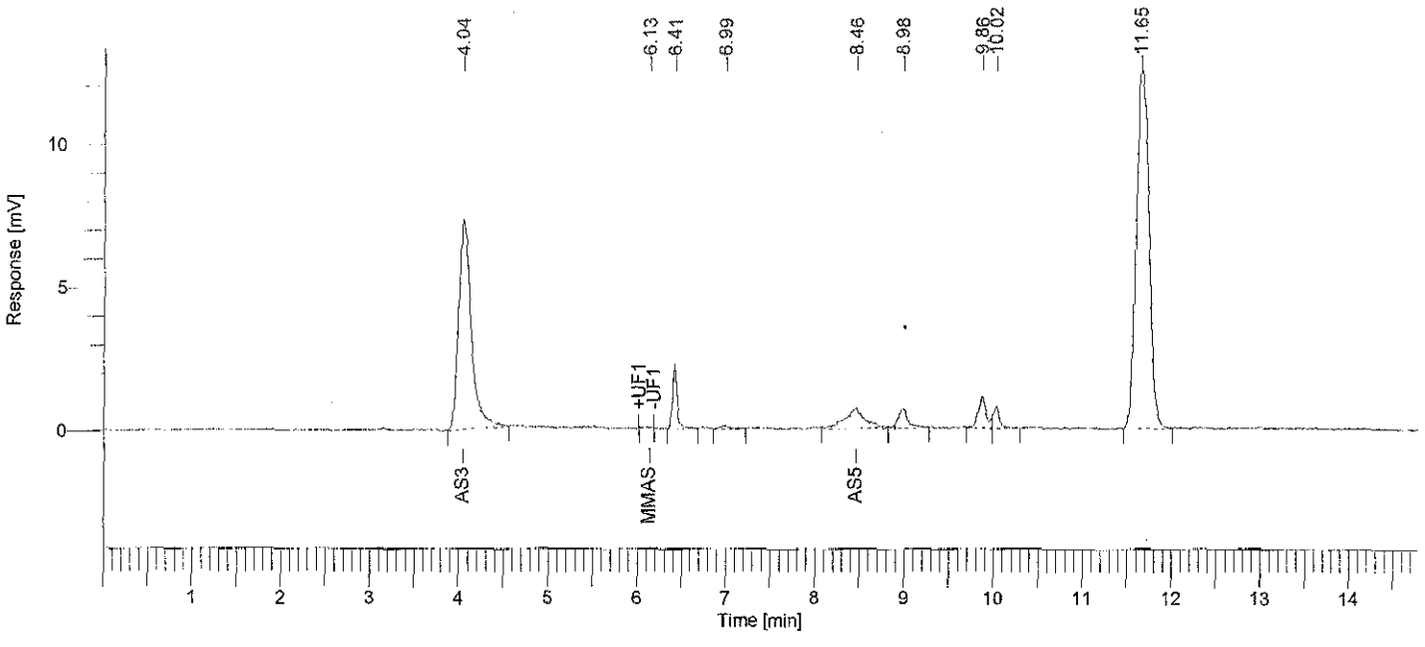
11/9/2006 4:39:25 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103034-061031-094344_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:33 PM
Sample Name	: 6103035	Data Acquisition Time	: 10/30/2006 11:07:42 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 35		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103035-061031-094350_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.042	71816.50	7286.67	30.51	30.51	BB	0.0718	0.0718
2	MMAs	6.130	295.71	57.04	0.13	0.13	MM	0.0003	0.0003
3		6.412	8720.22	2222.98	3.70	3.70	BB	0.0087	0.0087
4		6.991	1040.15	116.22	0.44	0.44	BB	0.0010	0.0010
5	As5	8.458	11313.35	722.46	4.81	4.81	BV	0.0113	0.0113
6		8.976	5443.36	678.55	2.31	2.31	VB	0.0054	0.0054
7		9.863	6950.94	1093.83	2.95	2.95	BV	0.0070	0.0070
8		10.020	4173.34	794.14	1.77	1.77	VB	0.0042	0.0042
9		11.648	125638.76	12497.30	53.37	53.37	BB	0.1256	0.1256
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			235392.33	25469.20	100.00	100.00		0.2354	0.2354

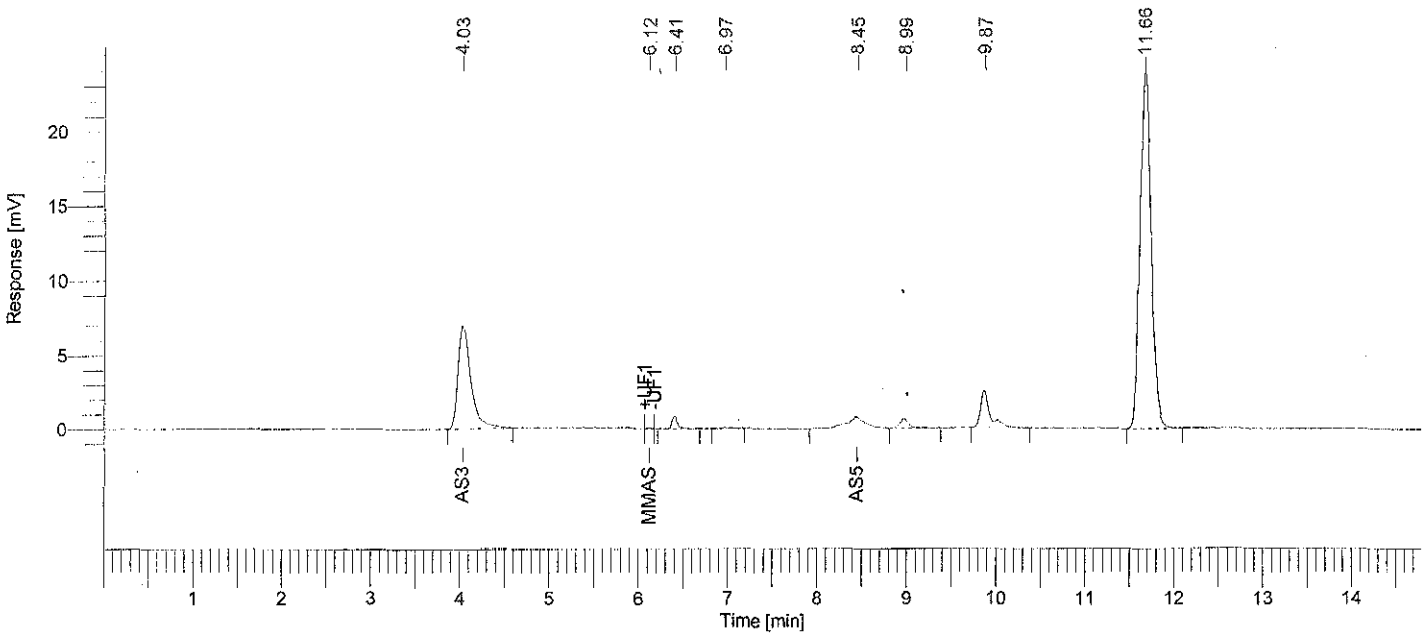
11/9/2006 4:39:33 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103035-061031-094350_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:41 PM
Sample Name	: 6103036	Data Acquisition Time	: 10/30/2006 11:22:53 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 36		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103036-061031-094357_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.032	70801.20	6925.32	21.69	21.69	BB	0.0708	0.0708
2	MMAs	6.118	131.88	46.38	0.04	0.04	MM	0.0001	0.0001
3		6.405	4086.05	878.99	1.25	1.25	BB	0.0041	0.0041
4		6.968	885.37	91.52	0.27	0.27	BB	0.0009	0.0009
5	As5	8.449	11945.14	782.05	3.66	3.66	BV	0.0119	0.0119
6		8.985	5657.89	705.36	1.73	1.73	VB	0.0057	0.0057
7		9.872	19588.90	2538.53	6.00	6.00	BB	0.0196	0.0196
8		11.665	213347.90	24078.34	65.36	65.36	BB	0.2133	0.2133
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			326444.33	36046.49	100.00	100.00		0.3264	0.3264

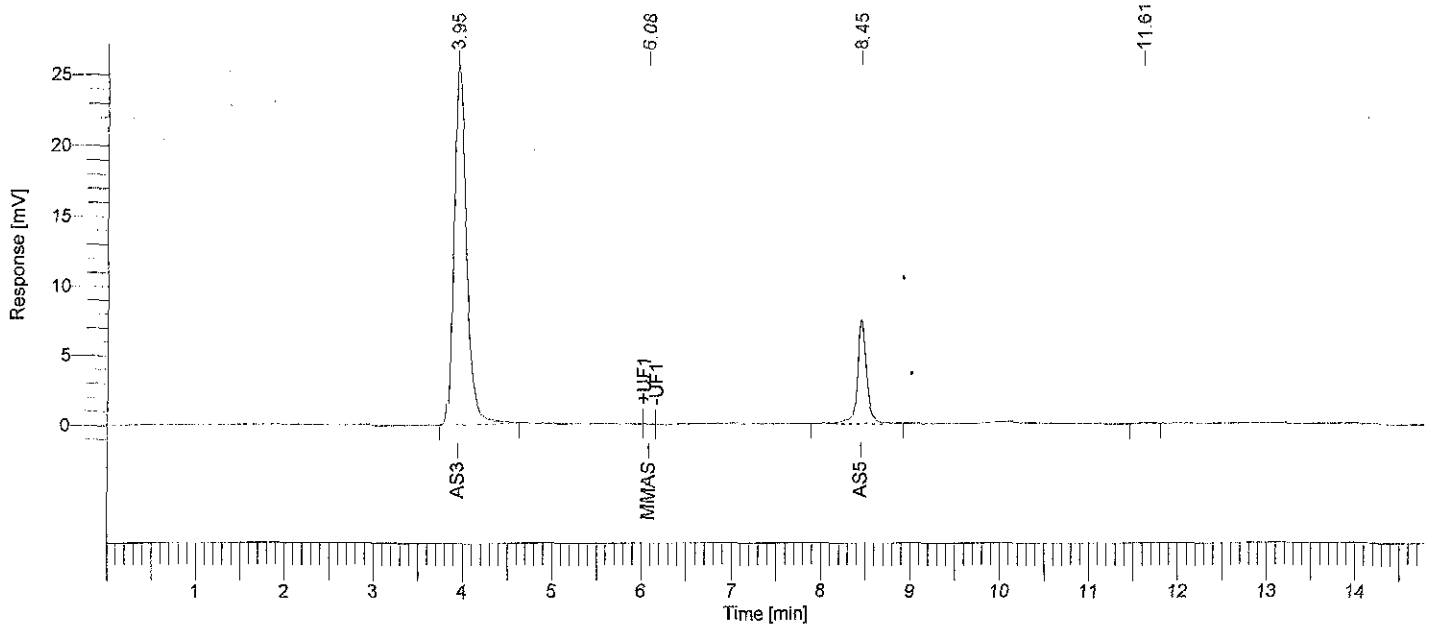
11/9/2006 4:39:41 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103036-061031-094357_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:51 PM
Sample Name	: 6103037	Data Acquisition Time	: 10/30/2006 11:38:04 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 37		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103037-061031-094404_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

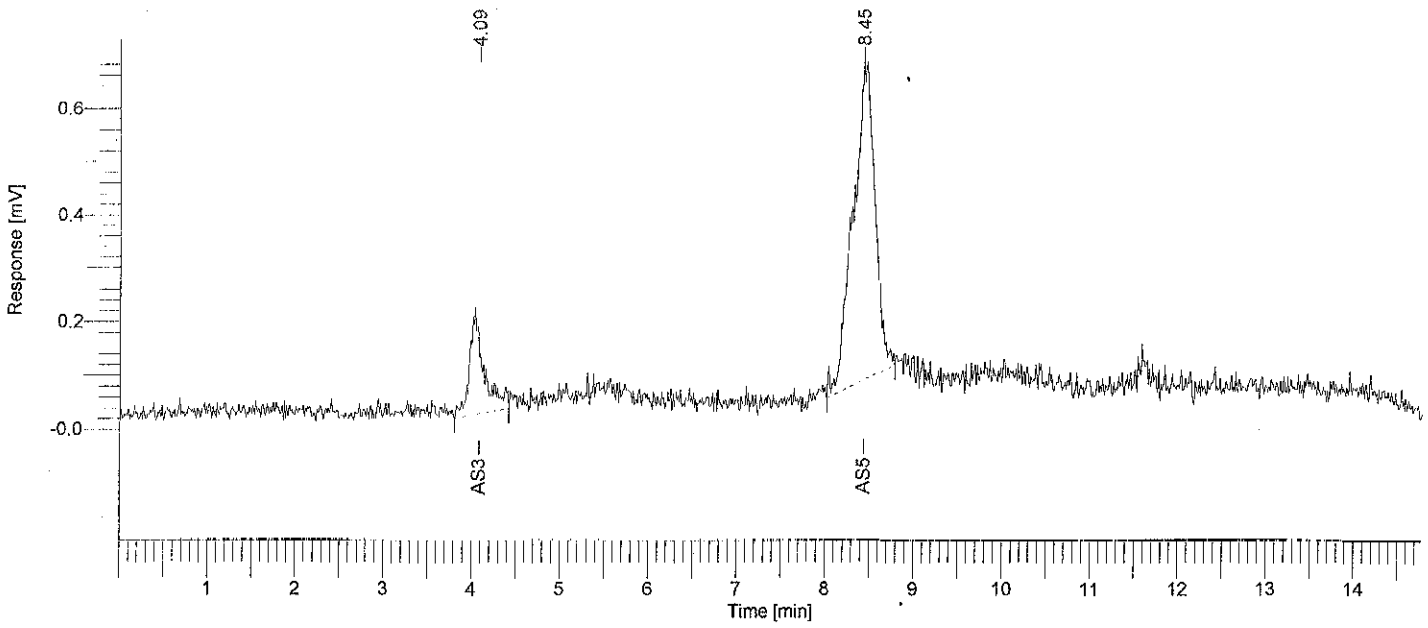
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.947	246911.02	25834.59	81.71	81.71	BB	0.2469	0.2469
2	MMAs	6.082	139.94	34.84	0.05	0.05	MM	0.0001	0.0001
3	As5	8.450	54221.99	7461.19	17.94	17.94	BB	0.0542	0.0542
4		11.609	894.60	73.40	0.30	0.30	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			302167.55	33404.02	100.00	100.00		0.3022	0.3022

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:00 PM
Sample Name	: 6103038	Data Acquisition Time	: 10/30/2006 11:53:15 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 38		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103038-061031-094410_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

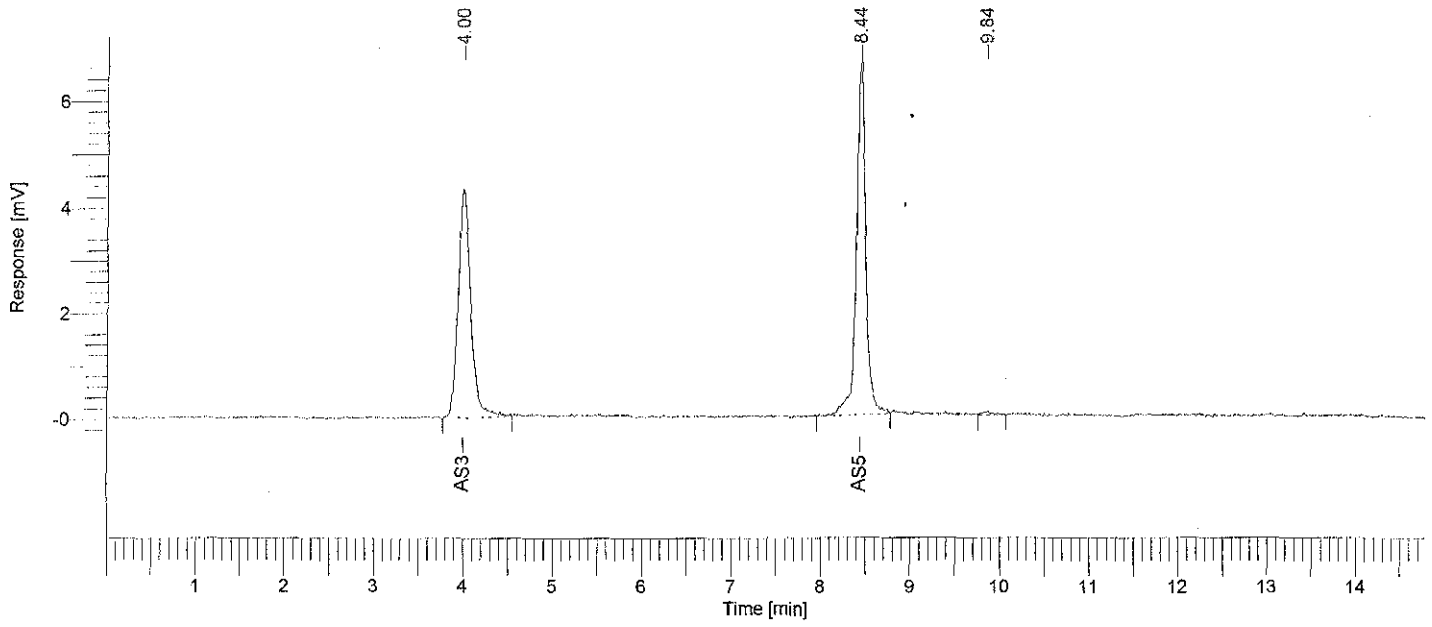
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.089	2237.21	108.44	17.95	17.95	BB	0.0022	0.0022
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.446	10228.26	579.44	82.05	82.05	BB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12465.47	687.88	100.00	100.00		0.0125	0.0125

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:10 PM
Sample Name	: 6103039	Data Acquisition Time	: 10/31/2006 12:08:26 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 39		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103039-061031-094417_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.999	42469.36	4328.89	46.03	46.03	BB	0.0425	0.0425
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.439	49154.72	6783.70	53.28	53.28	BB	0.0492	0.0492
3		9.840	635.45	60.51	0.69	0.69	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			92259.53	11173.10	100.00	100.00		0.0923	0.0923

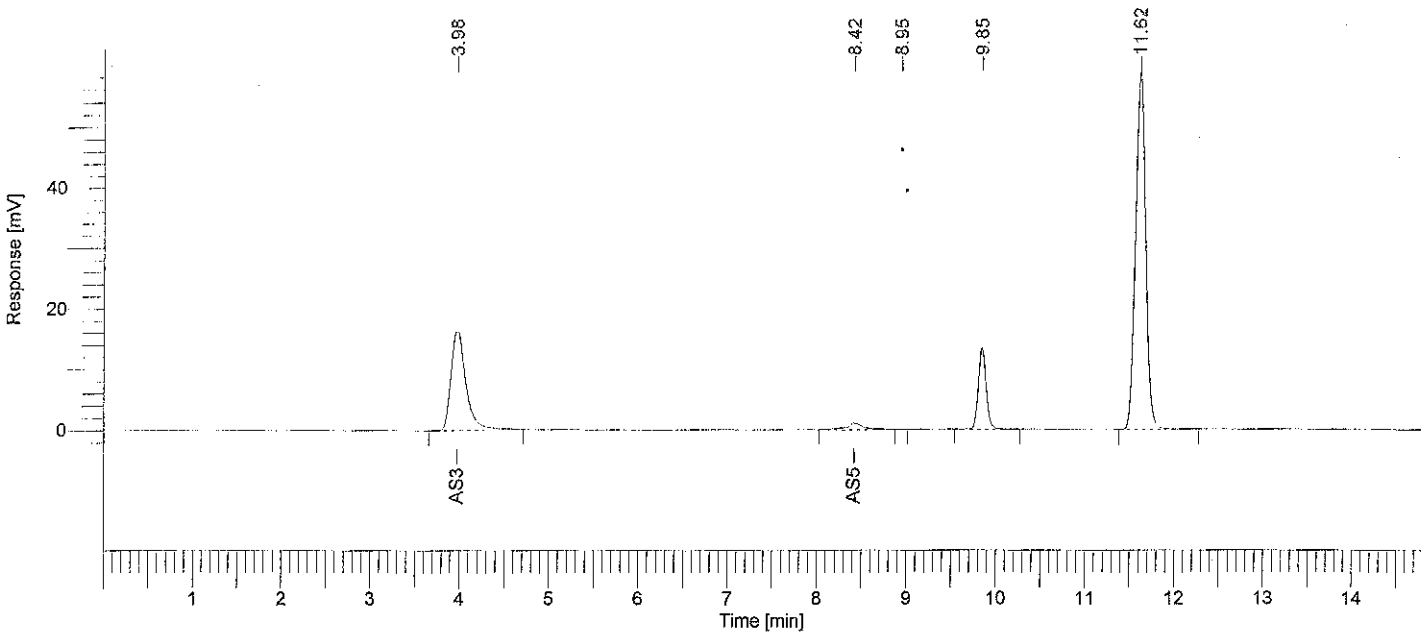
11/9/2006 4:40:10 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103039-061031-094417_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:19 PM
Sample Name	: 6103040	Data Acquisition Time	: 10/31/2006 12:23:37 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 40		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103040-061031-094423_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.976	190418.45	16387.35	25.25	25.25	BB	0.1904	0.1904
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.421	14086.40	1138.87	1.87	1.87	BB	0.0141	0.0141
3		8.947	325.89	63.17	0.04	0.04	BB	0.0003	0.0003
4		9.847	82812.27	13485.52	10.98	10.98	BB	0.0828	0.0828
5		11.618	466429.53	58898.93	61.85	61.85	BB	0.4664	0.4664
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			754072.54	89973.84	100.00	100.00		0.7541	0.7541

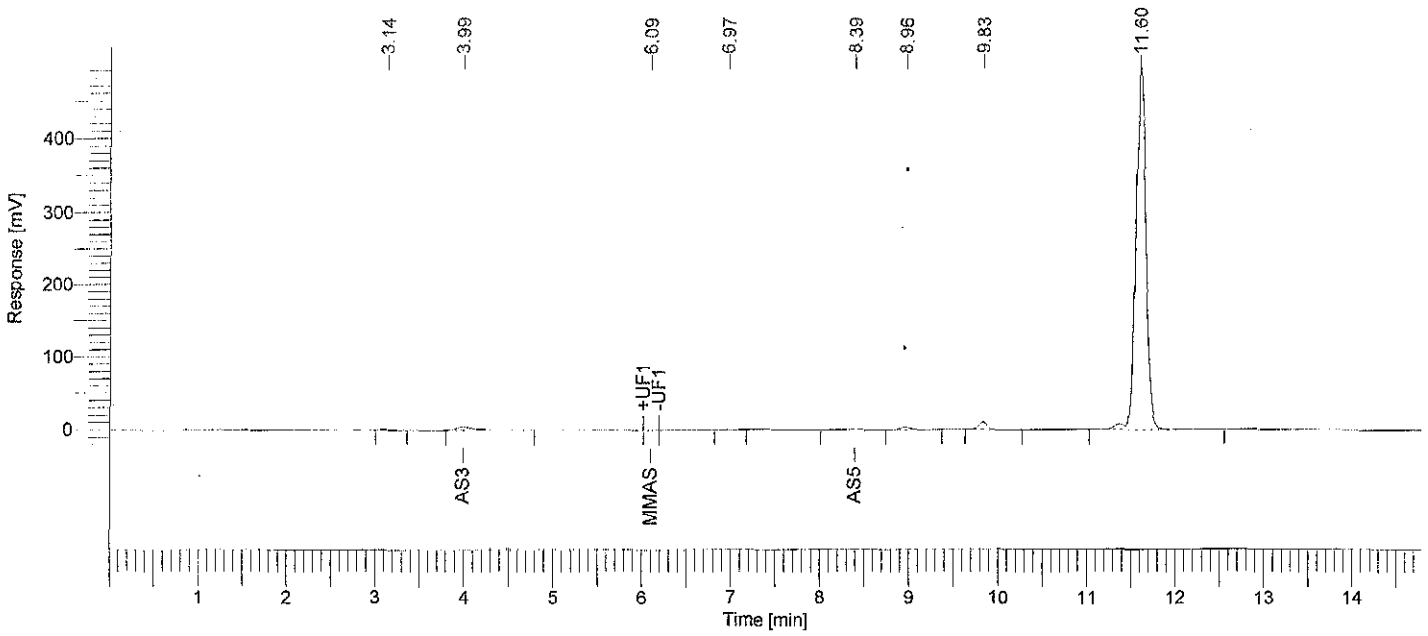
11/9/2006 4:40:19 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103040-061031-094423_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:28 PM
Sample Name	: 6103041	Data Acquisition Time	: 10/31/2006 12:38:48 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 41		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103041-061031-094430_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.140	790.94	92.47	0.02	0.02	BB	0.0008	0.0008
2	As3	3.990	52337.65	4408.61	1.27	1.27	BB	0.0523	0.0523
3	MMAs	6.094	1562.14	319.72	0.04	0.04	MM	0.0016	0.0016
4		6.969	1792.75	239.28	0.04	0.04	BB	0.0018	0.0018
5	As5	8.391	10315.79	571.24	0.25	0.25	BV	0.0103	0.0103
6		8.964	30069.01	3865.87	0.73	0.73	VB	0.0301	0.0301
7		9.830	62176.83	9783.27	1.51	1.51	BB	0.0622	0.0622
8		11.598	3957663.54	495298.40	96.14	96.14	BB	3.9577	3.9577
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			4116708.65	514578.85	100.00	100.00		4.1167	4.1167

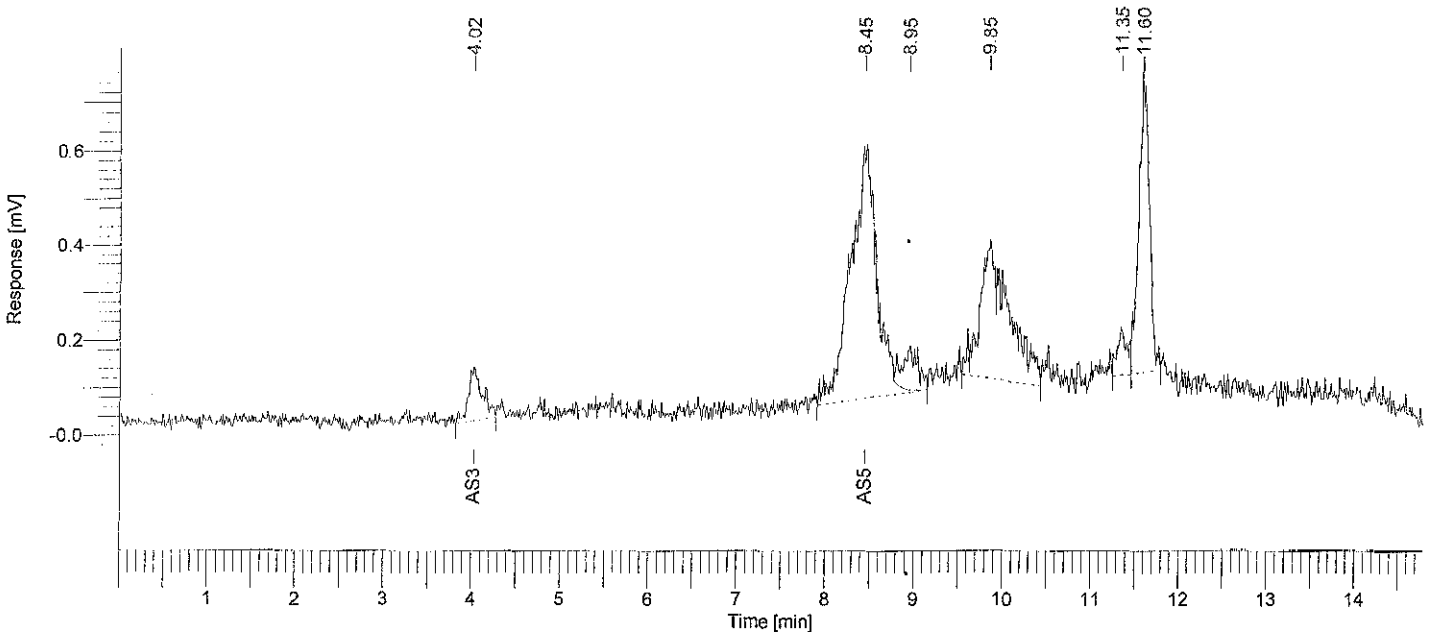
11/9/2006 4:40:28 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103041-061031-094430_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:37 PM
Sample Name	: 6103042	Data Acquisition Time	: 10/31/2006 12:53:59 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 42		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103042-061031-094437_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.023	1241.79	109.62	4.78	4.78	BB	0.0012	0.0012
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.447	10997.19	520.11	42.37	42.37	BE	0.0110	0.0110
3		8.950	1104.05	91.68	4.25	4.25	EB	0.0011	0.0011
4		9.852	6607.26	284.81	25.45	25.45	BB	0.0066	0.0066
5		11.354	757.35	95.05	2.92	2.92	BV	0.0008	0.0008
6		11.598	5249.96	598.44	20.23	20.23	VB	0.0052	0.0052
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			25957.60	1699.71	100.00	100.00		0.0260	0.0260

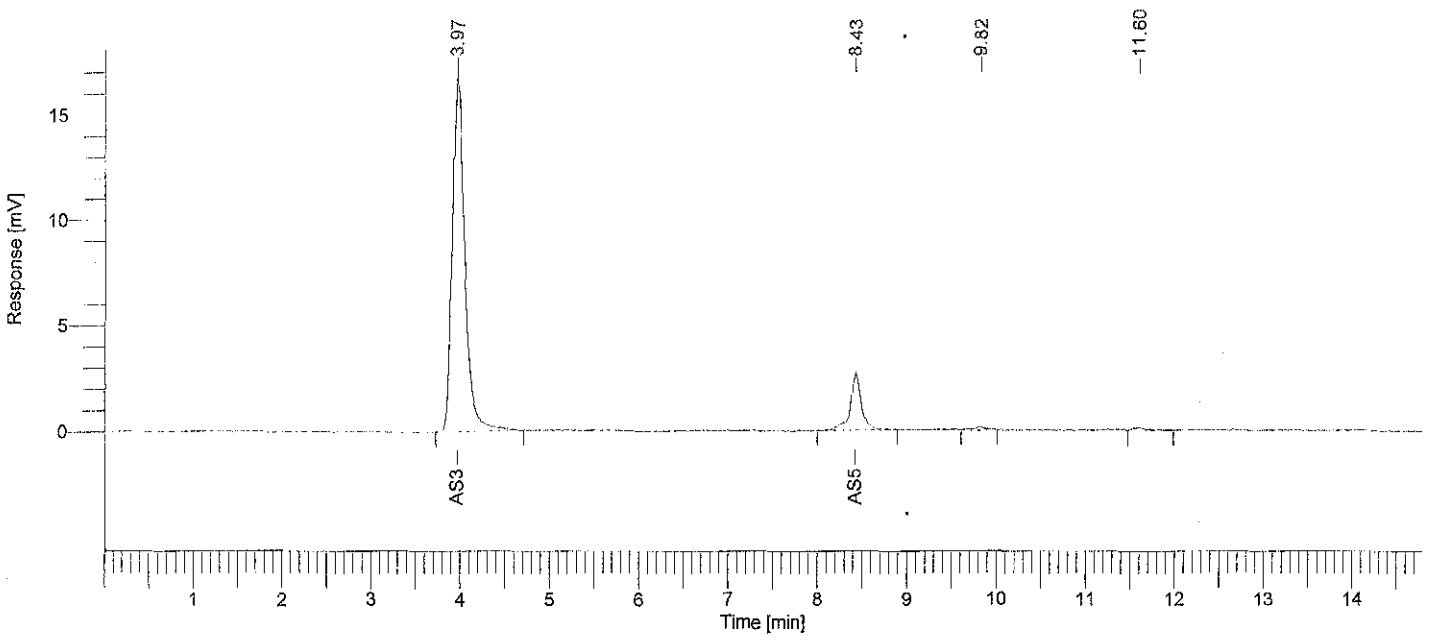
11/9/2006 4:40:37 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103042-061031-094437_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:48 PM
Sample Name	: 6103043	Data Acquisition Time	: 10/31/2006 1:09:10 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 43		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103043-061031-094443_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.970	164125.02	16635.17	86.03	86.03	BB	0.1641	0.1641
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.427	23177.24	2663.12	12.15	12.15	BB	0.0232	0.0232
3		9.822	1510.17	143.91	0.79	0.79	BB	0.0015	0.0015
4		11.602	1973.80	172.96	1.03	1.03	BB	0.0020	0.0020
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			190786.23	19615.16	100.00	100.00		0.1908	0.1908

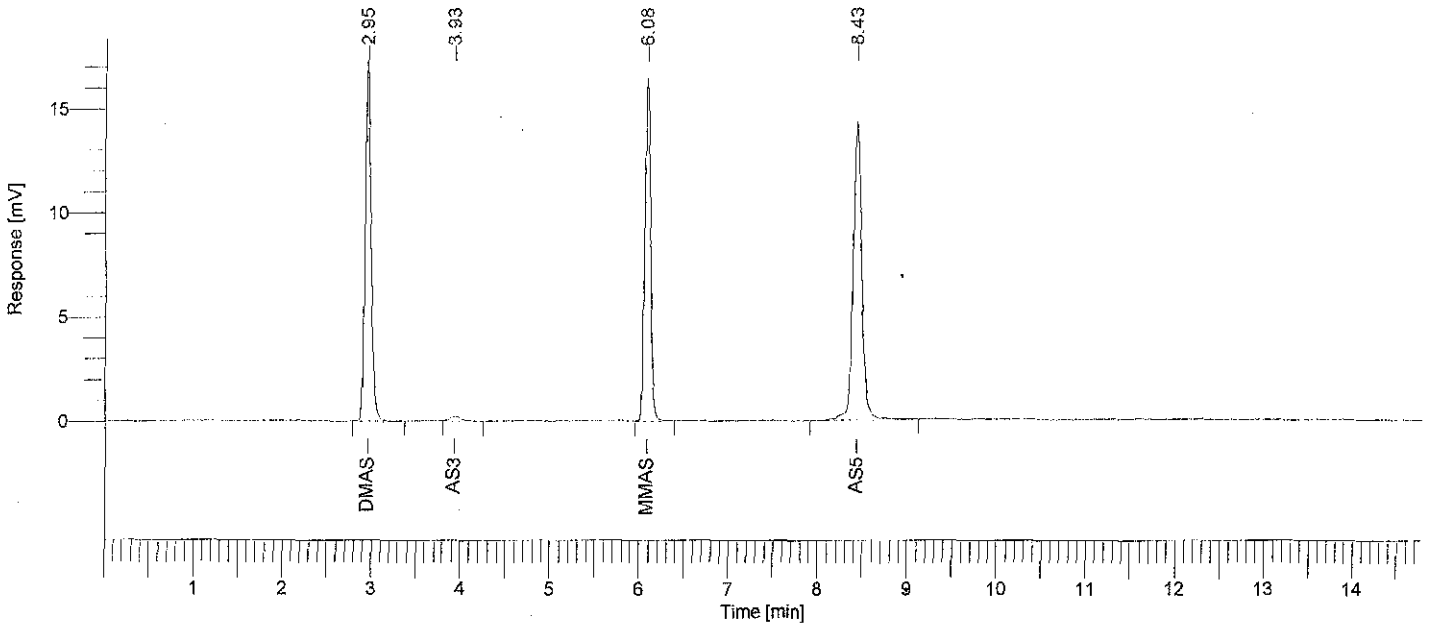
11/9/2006 4:40:48 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103043-061031-094443_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:56 PM
Sample Name	: 6103044	Data Acquisition Time	: 10/31/2006 1:24:21 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 44		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103044-061031-094450_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

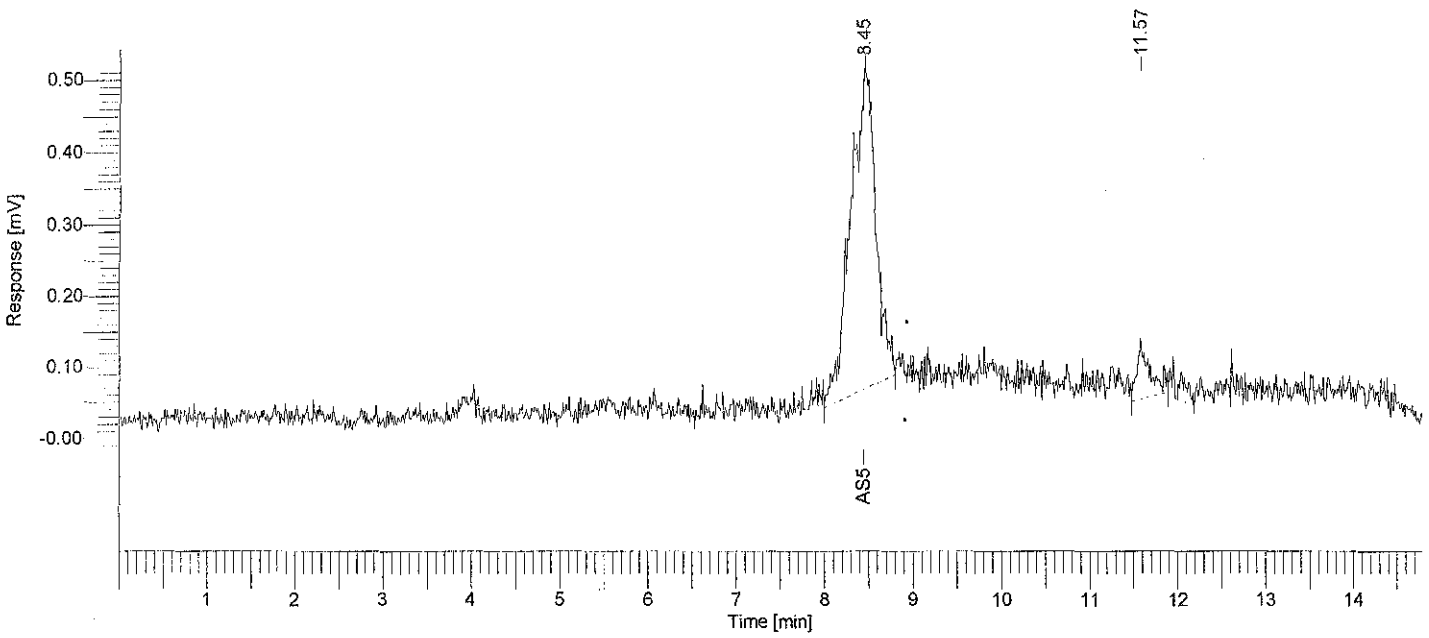
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.955	79710.28	16936.16	31.17	31.17	BB	0.0797	0.0797
2	As3	3.930	2255.67	207.49	0.88	0.88	BB	0.0023	0.0023
3	MMAs	6.083	75407.68	16475.31	29.49	29.49	BB	0.0754	0.0754
4	As5	8.433	98347.07	14395.98	38.46	38.46	BB	0.0983	0.0983
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			255720.70	48014.95	100.00	100.00		0.2557	0.2557

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:41:04 PM
Sample Name	: 6103045	Data Acquisition Time	: 10/31/2006 1:39:32 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 45		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103045-061031-094456_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.446	8936.06	446.92	91.30	91.30	BB	0.0089	0.0089
2		11.573	852.00	78.02	8.70	8.70	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9788.06	524.94	100.00	100.00		0.0098	0.0098

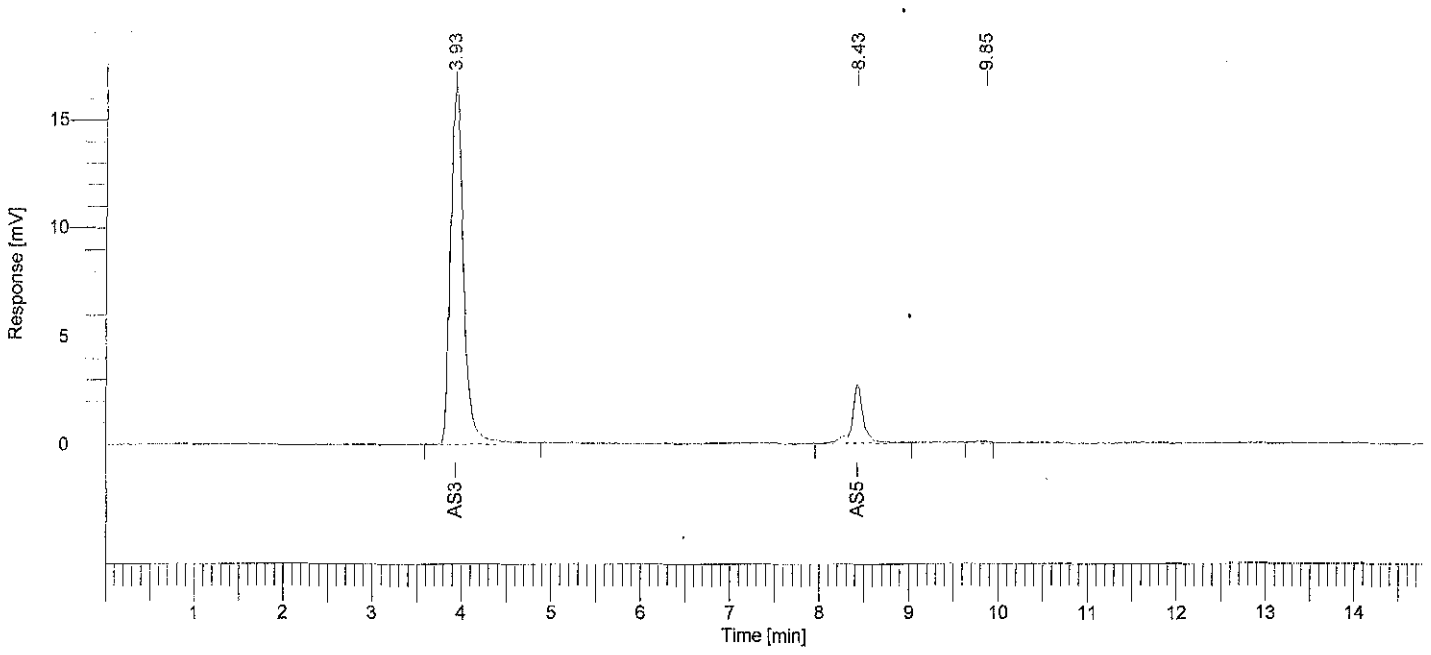
11/9/2006 4:41:04 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103045-061031-094456_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:41:14 PM
Sample Name	: 6103046	Data Acquisition Time	: 10/31/2006 1:54:43 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 46		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103046-061031-094503_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.928	168330.35	16436.12	86.75	86.75	BB	0.1683	0.1683
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.425	24566.00	2698.75	12.66	12.66	BB	0.0246	0.0246
3		9.852	1138.84	106.15	0.59	0.59	BB	0.0011	0.0011
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			194035.19	19241.01	100.00	100.00		0.1940	0.1940

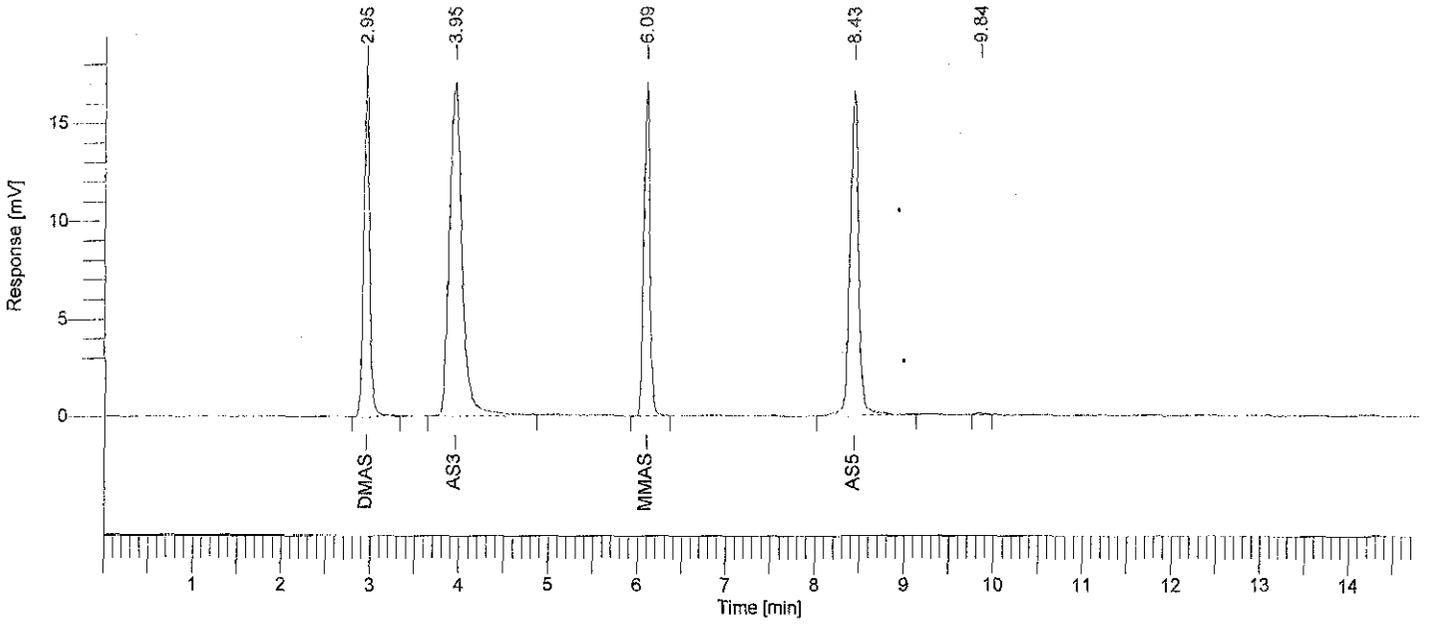
11/9/2006 4:41:14 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103046-061031-094503_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:13 PM
Sample Name	: 6103047	Data Acquisition Time	: 10/31/2006 2:09:54 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 47		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103047-061031-094509_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

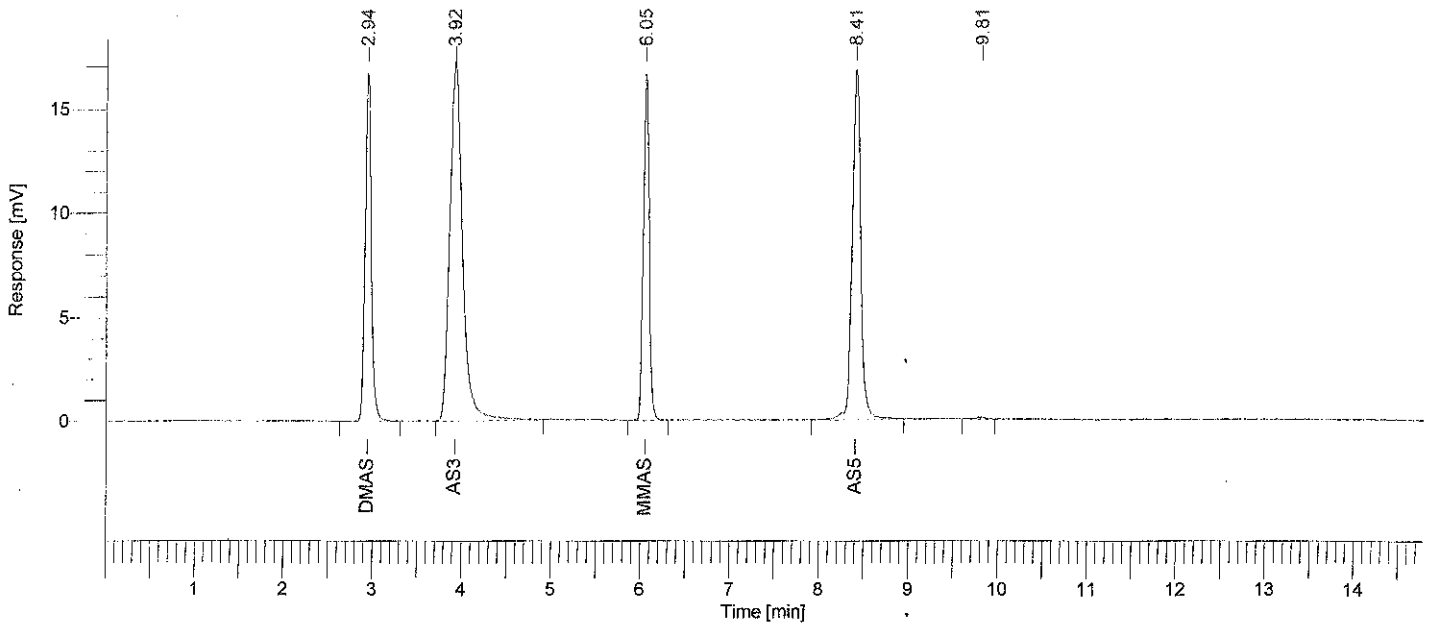
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.951	81123.18	17381.44	18.31	18.31	BB	0.0811	0.0811
2	As3	3.947	170799.73	17053.37	38.55	.38.55	BB	0.1708	0.1708
3	MMAs	6.092	76915.01	16646.88	17.36	17.36	BB	0.0769	0.0769
4	As5	8.428	113477.88	16609.22	25.61	25.61	BB	0.1135	0.1135
5		9.840	739.82	100.63	0.17	0.17	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			443055.62	67791.55	100.00	100.00		0.4431	0.4431

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:20 PM
Sample Name	: 6103048	Data Acquisition Time	: 10/31/2006 2:25:05 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 48		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103048-061031-094516_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

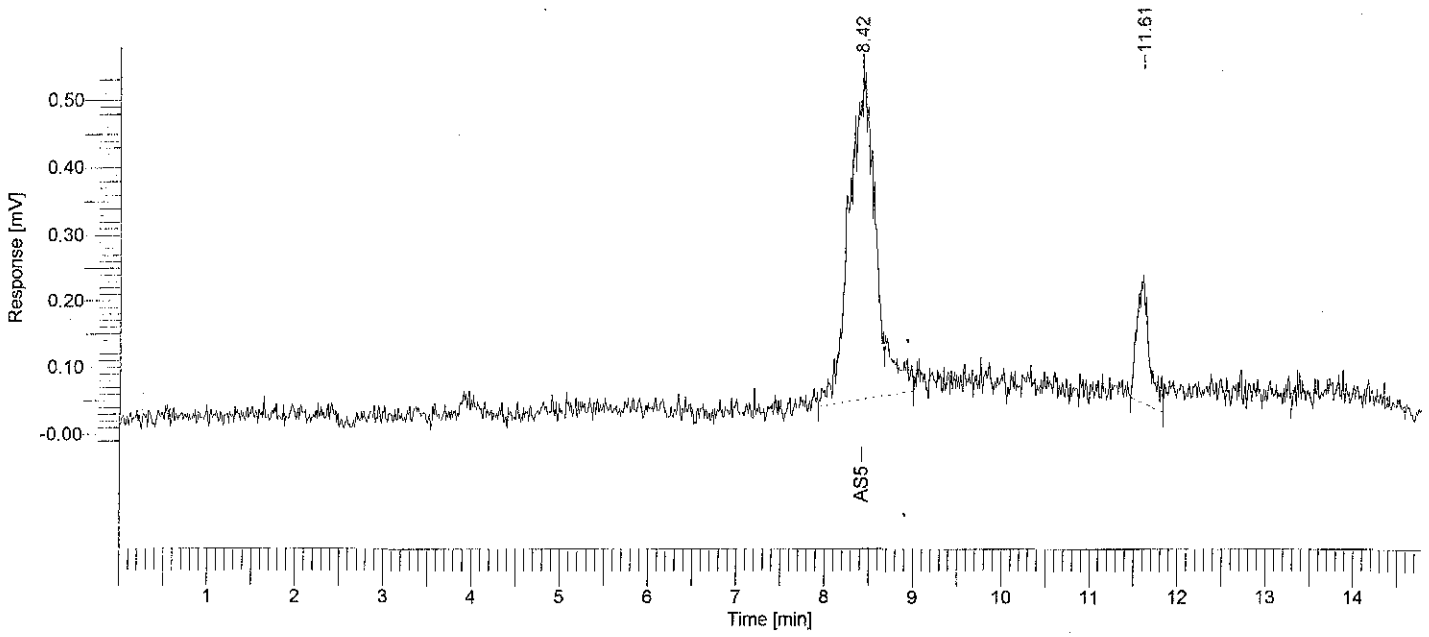
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.941	80144.80	16695.63	18.21	18.21	BB	0.0801	0.0801
2	As3	3.920	170887.77	17131.34	38.83	38.83	BB	0.1709	0.1709
3	MMAs	6.052	75326.74	16647.21	17.12	17.12	BB	0.0753	0.0753
4	As5	8.406	112823.97	16751.57	25.64	25.64	BB	0.1128	0.1128
5		9.811	905.96	98.43	0.21	0.21	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			440089.24	67324.19	100.00	100.00		0.4401	0.4401

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:30 PM
Sample Name	: 6103049	Data Acquisition Time	: 10/31/2006 2:40:16 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 49		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103049-061031-094523_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.421	10412.86	468.98	85.07	85.07	BB	0.0104	0.0104
2		11.608	1827.54	170.00	14.93	14.93	BB	0.0018	0.0018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12240.40	638.98	100.00	100.00		0.0122	0.0122

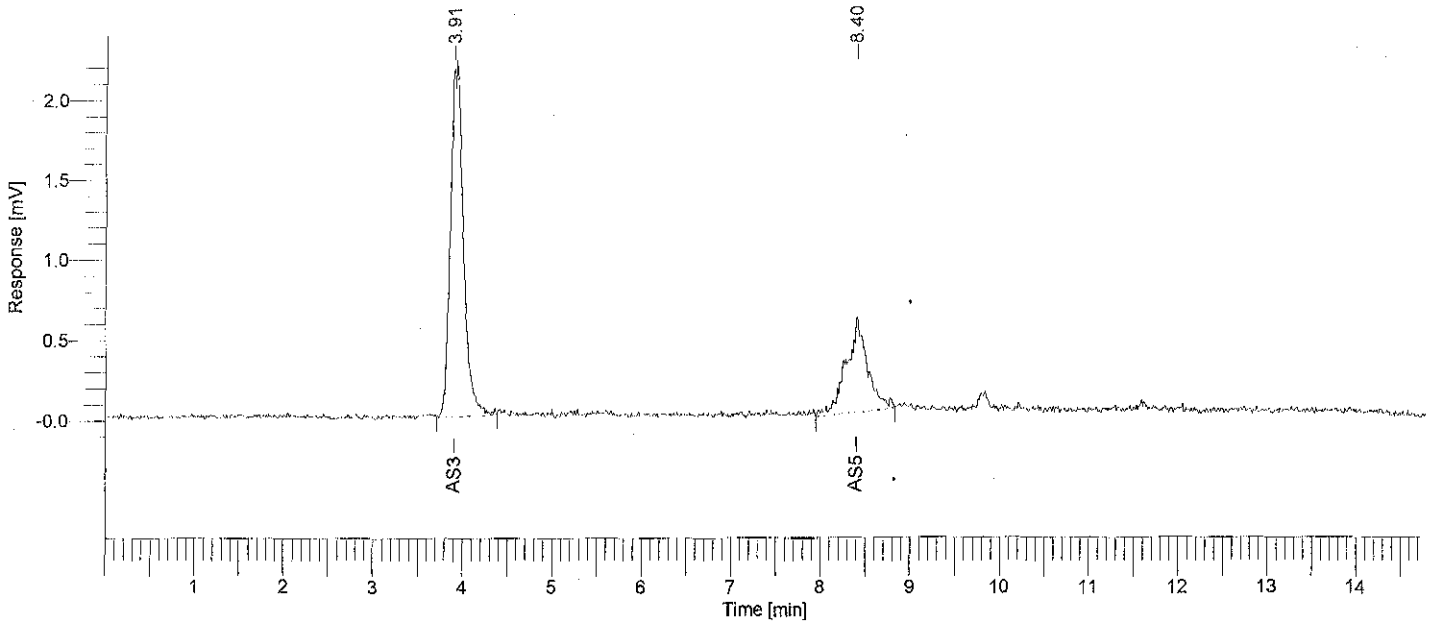
11/9/2006 4:42:30 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103049-061031-094523_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:38 PM
Sample Name	: 6103050	Data Acquisition Time	: 10/31/2006 2:55:27 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 50		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103050-061031-094529_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

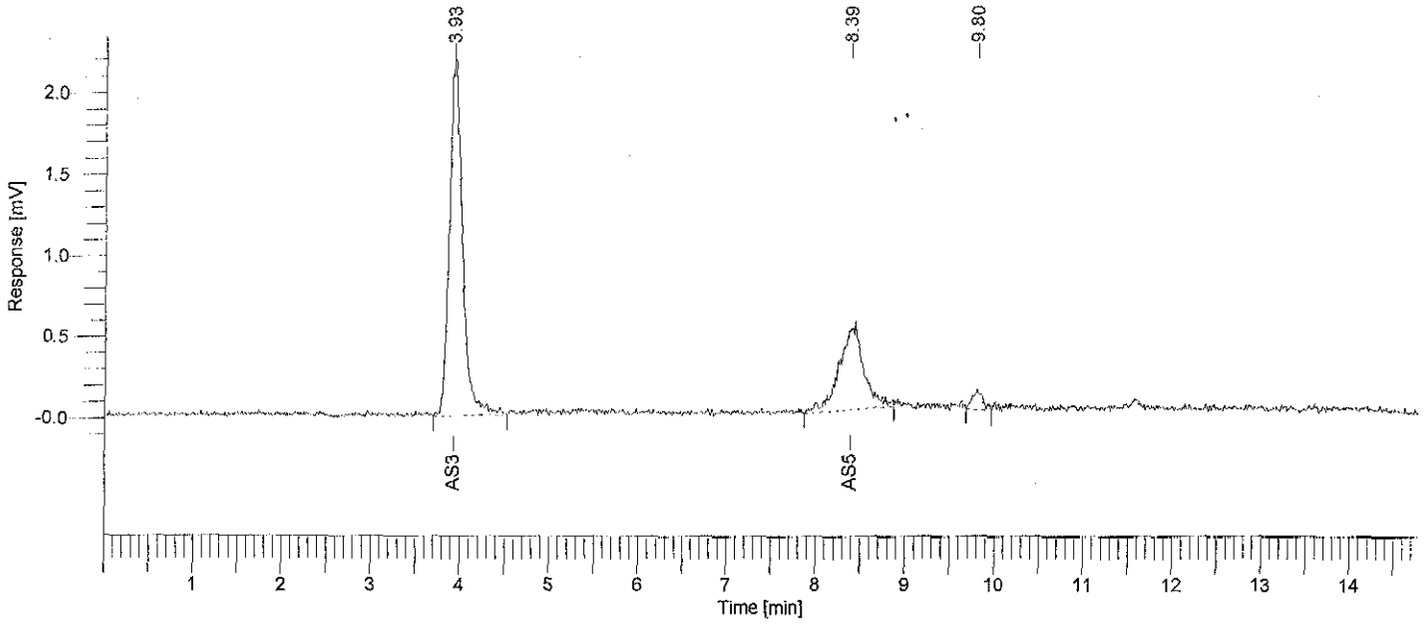
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.913	22093.78	2194.70	69.56	69.56	BB	0.0221	0.0221
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.402	9670.20	534.38	30.44	30.44	BB	0.0097	0.0097
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			31763.98	2729.08	100.00	100.00		0.0318	0.0318

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:45 PM
Sample Name	: 6103051	Data Acquisition Time	: 10/31/2006 3:10:38 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 51		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103051-061031-094536_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.931	22308.20	2162.87	67.16	67.16	BB	0.0223	0.0223
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.388	9930.06	493.46	29.90	29.90	BB	0.0099	0.0099
3		9.798	976.25	111.18	2.94	2.94	BB	0.0010	0.0010
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			33214.51	2767.51	100.00	100.00		0.0332	0.0332

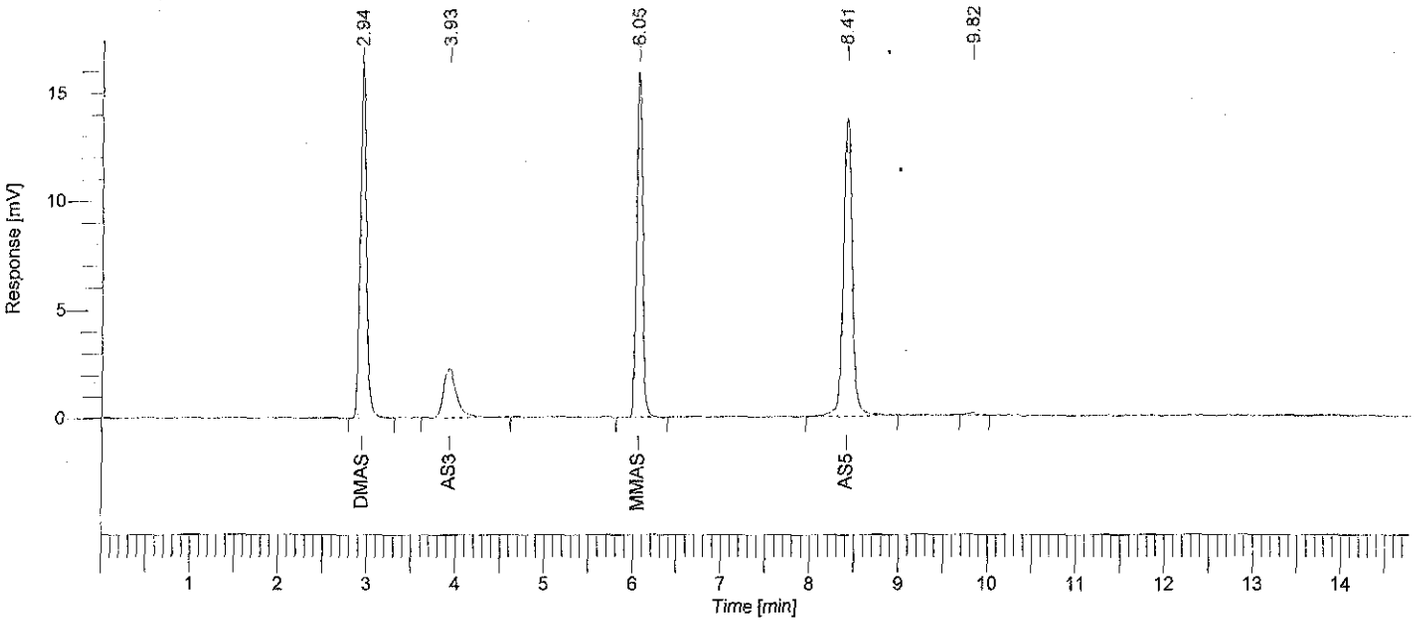
11/9/2006 4:42:45 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103051-061031-094536_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:53 PM
Sample Name	: 6103052	Data Acquisition Time	: 10/31/2006 3:25:49 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 52		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103052-061031-094542_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

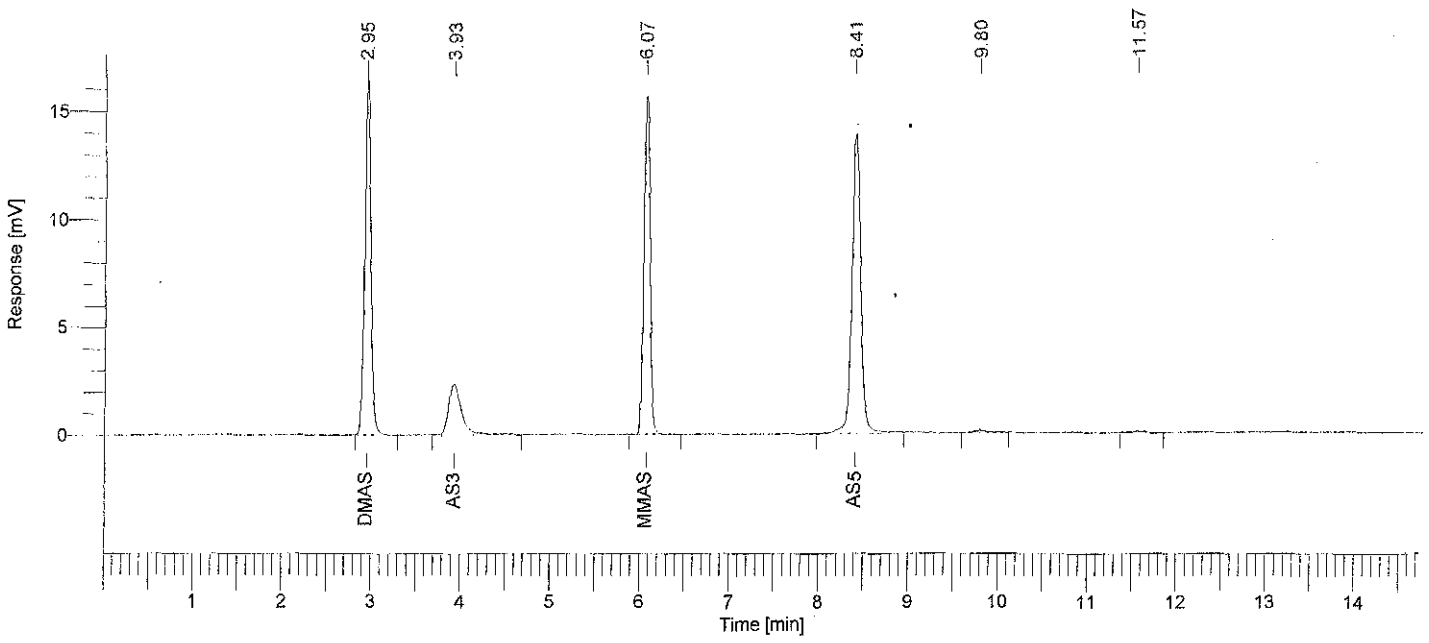
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.945	78131.95	16096.99	28.54	28.54	BB	0.0781	0.0781
2	As3	3.931	24185.44	2279.12	8.84	8.84	BB	0.0242	0.0242
3	MMAs	6.053	74518.76	15851.83	27.22	27.22	BB	0.0745	0.0745
4	As5	8.410	95894.73	13855.65	35.03	35.03	BB	0.0959	0.0959
5		9.819	994.71	118.23	0.36	0.36	BB	0.0010	0.0010
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			273725.59	48201.82	100.00	100.00		0.2737	0.2737

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:01 PM
Sample Name	: 6103053	Data Acquisition Time	: 10/31/2006 3:41:00 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 53		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103053-061031-094549_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

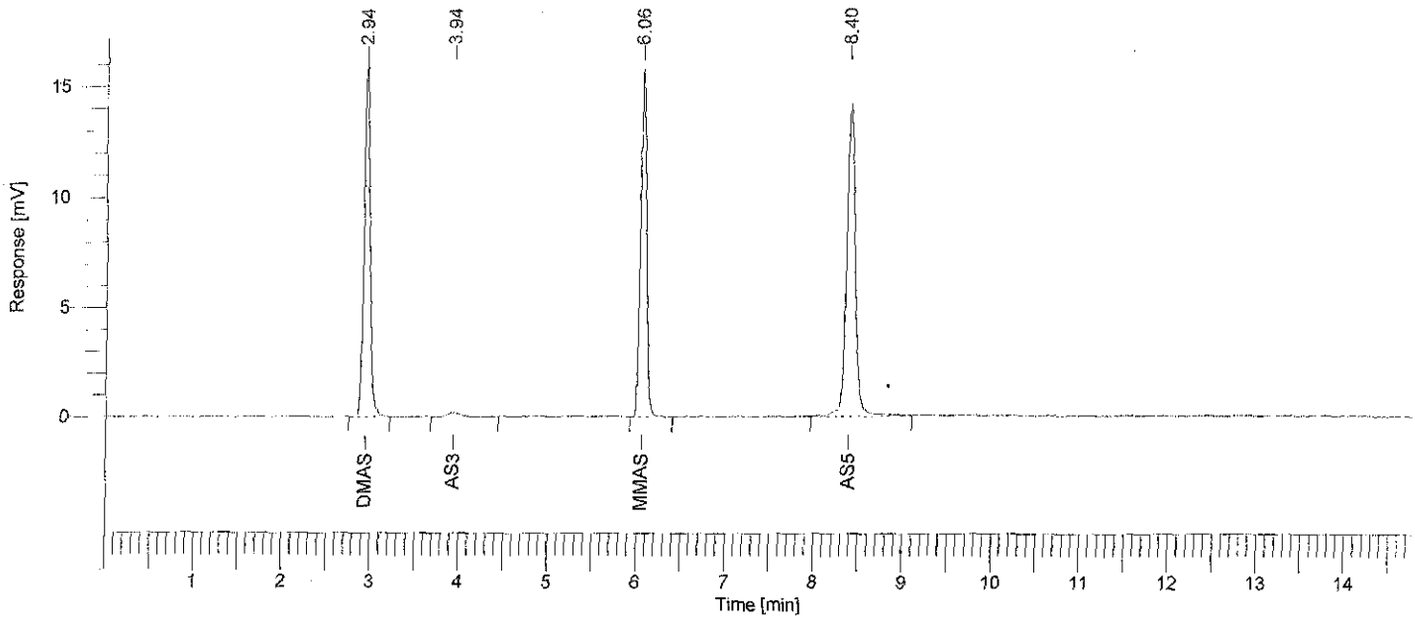
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	78679.36	16243.89	28.50	28.50	BB	0.0787	0.0787
2	As3	3.931	24026.40	2375.37	8.70	8.70	BB	0.0240	0.0240
3	MMAs	6.066	75618.55	15842.30	27.39	27.39	BB	0.0756	0.0756
4	As5	8.407	95480.80	14042.30	34.59	34.59	BB	0.0955	0.0955
5		9.799	1329.83	139.85	0.48	0.48	BB	0.0013	0.0013
6		11.565	914.48	70.82	0.33	0.33	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			276049.42	48714.53	100.00	100.00		0.2760	0.2760

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:23 PM
Sample Name	: 6103054	Data Acquisition Time	: 10/31/2006 3:56:11 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 54		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103054-061031-094555_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

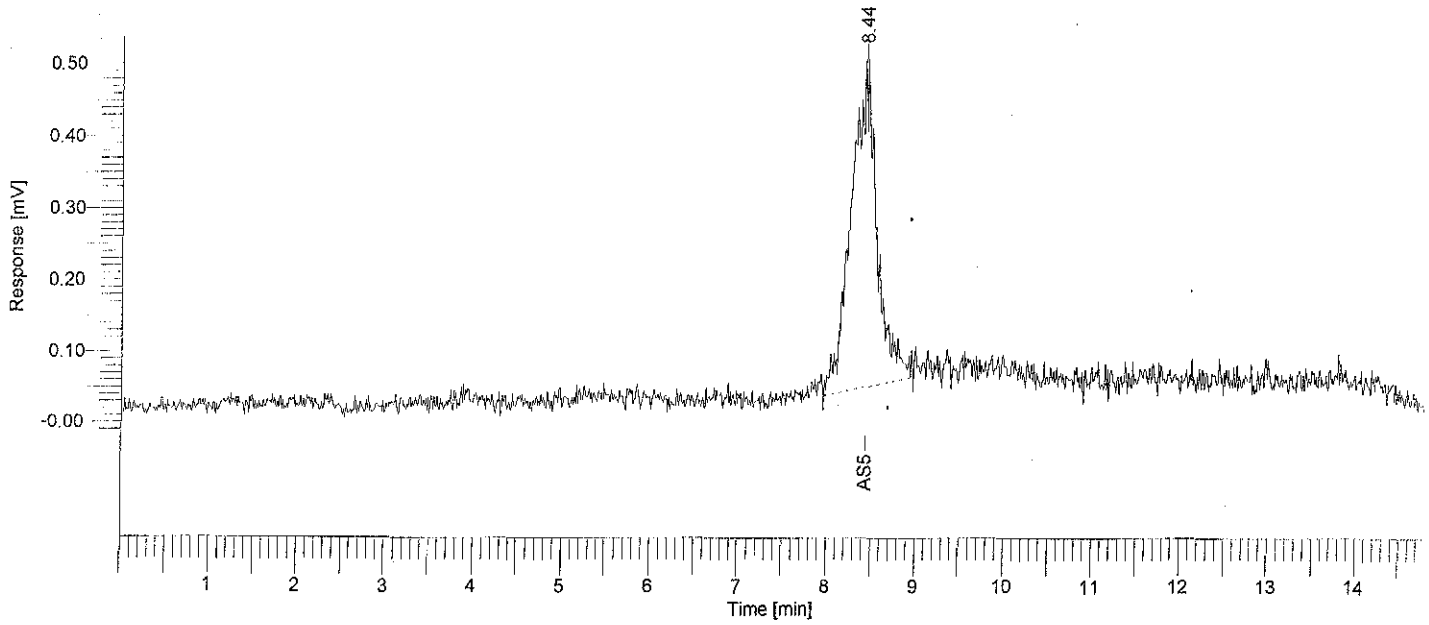
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.944	76278.85	15806.14	30.41	30.41	BB	0.0763	0.0763
2	As3	3.938	2313.89	205.96	0.92	0.92	BB	0.0023	0.0023
3	MMAs	6.059	74492.49	15616.04	29.70	29.70	BB	0.0745	0.0745
4	As5	8.398	97771.26	14110.62	38.97	38.97	BB	0.0978	0.0978
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			250856.49	45738.76	100.00	100.00		0.2509	0.2509

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:59 PM
Sample Name	: 6103055	Data Acquisition Time	: 10/31/2006 4:11:22 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 55		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103055-061031-094602_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

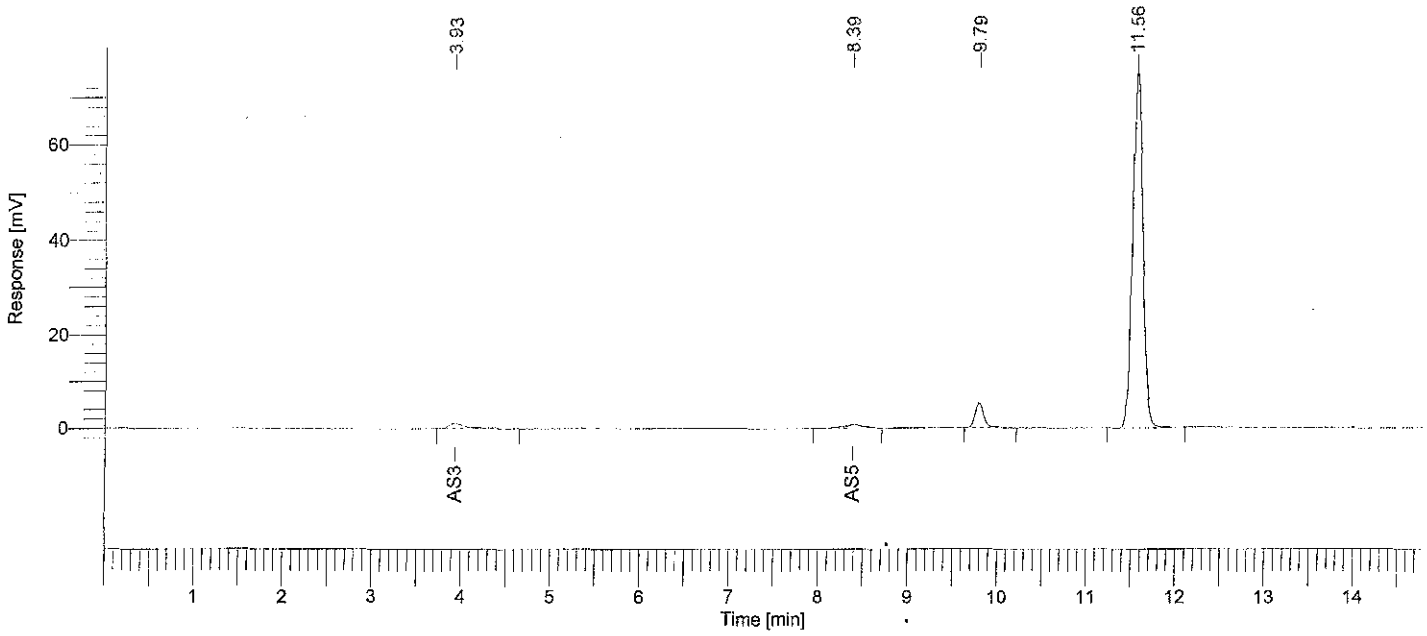
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.441	9169.65	428.01	100.00	100.00	BB	0.0092	0.0092
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9169.65	428.01	100.00	100.00		0.0092	0.0092

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:12 PM
Sample Name	: 6103056	Data Acquisition Time	: 10/31/2006 4:26:33 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 56		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103056-061031-094609_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.934	14568.49	1152.72	2.20	2.20	BB	0.0146	0.0146
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.387	9318.04	640.08	1.40	1.40	BB	0.0093	0.0093
3		9.794	34236.91	5150.62	5.16	5.16	BB	0.0342	0.0342
4		11.561	605378.66	74972.77	91.24	91.24	BB	0.6054	0.6054
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			663502.10	81916.18	100.00	100.00		0.6635	0.6635

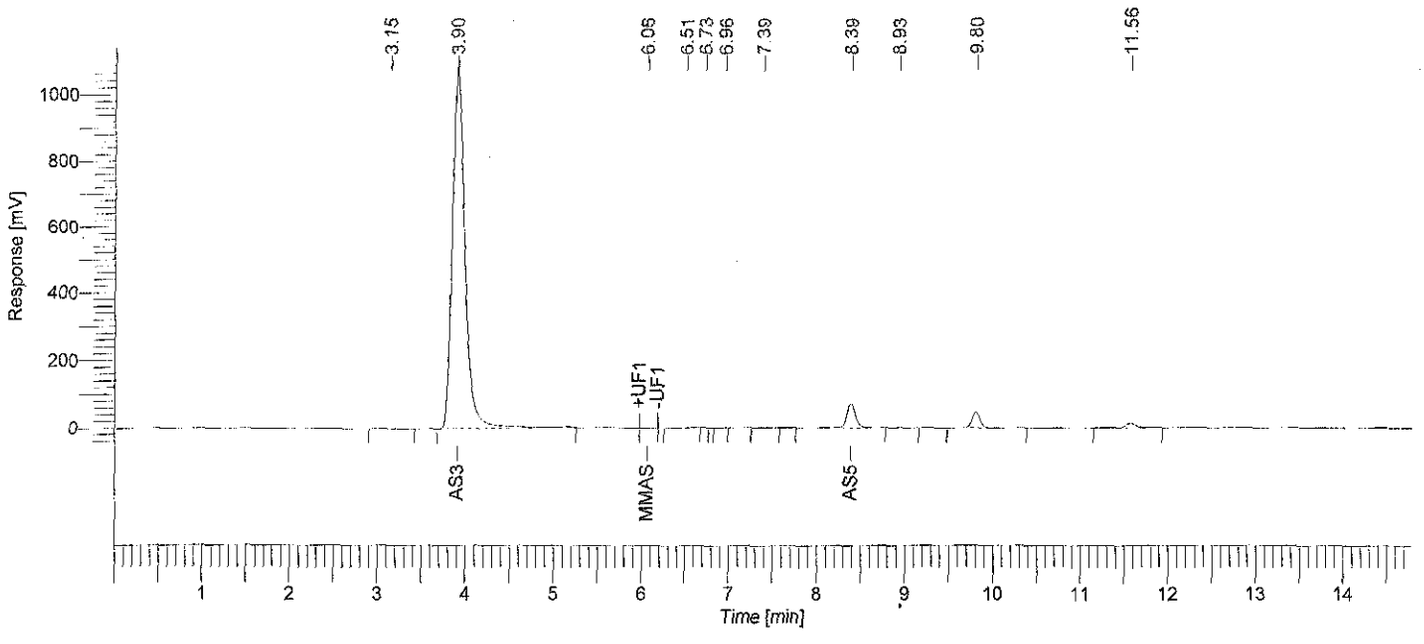
11/9/2006 4:44:12 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103056-061031-094609_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:21 PM
Sample Name	: 6103057	Data Acquisition Time	: 10/31/2006 4:41:44 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 57		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103057-061031-094615_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.146	2477.19	271.15	0.02	0.02	BB	0.0025	0.0025
2	As3	3.905	10696407.73	1.07e+06	91.62	91.62	BB	---------	---------
3	MMAs	6.059	1882.08	286.83	0.02	0.02	MM	0.0019	0.0019
4		6.510	10221.90	452.18	0.09	0.09	BV	0.0102	0.0102
5		6.730	1040.12	276.48	0.01	0.01	VB	0.0010	0.0010
6		6.958	2156.27	306.99	0.02	0.02	BB	0.0022	0.0022
7		7.390	12021.72	1000.43	0.10	0.10	BB	0.0120	0.0120
8	As5	8.389	532449.77	74199.65	4.56	4.56	BV	0.5324	0.5324
9		8.926	4185.01	541.39	0.04	0.04	VB	0.0042	0.0042
10		9.801	295195.28	46328.36	2.53	2.53	BB	0.2952	0.2952
11		11.565	116356.22	13966.50	1.00	1.00	BB	0.1164	0.1164
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11674393.30	1.21e+06	100.00	100.00		0.9780	0.9780

11/9/2006 4:44:21 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103057-061031-094615_As.rst

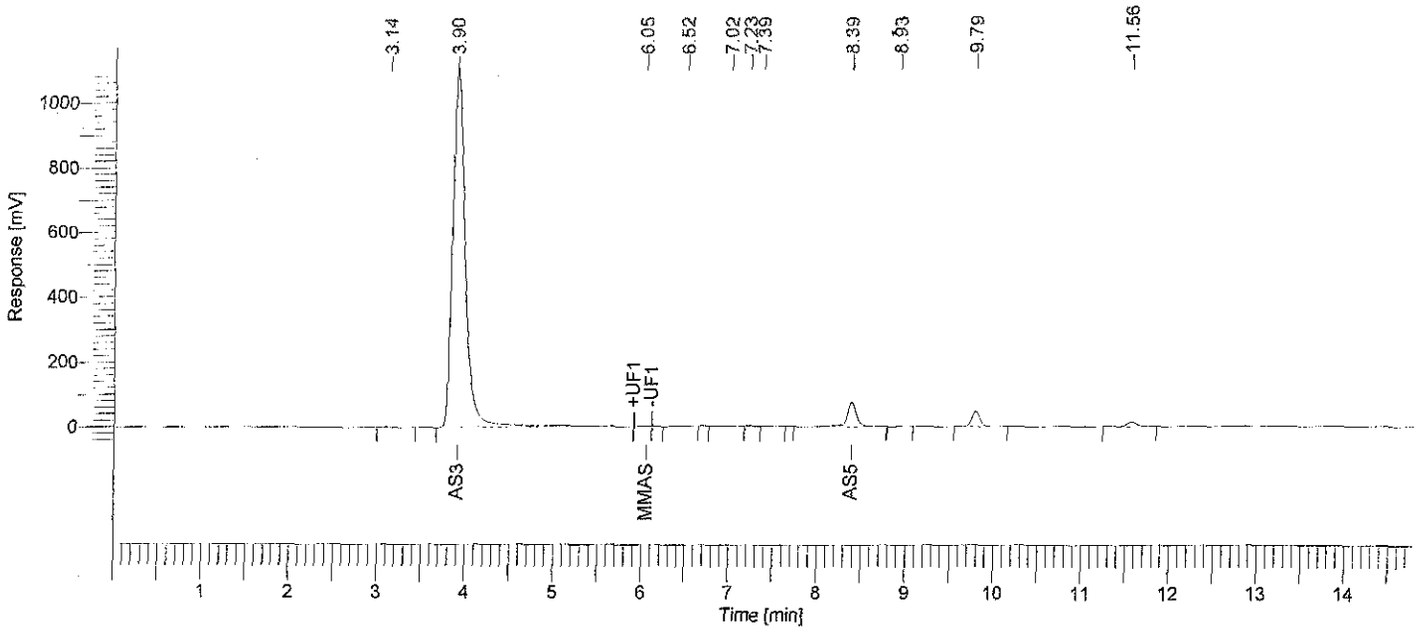
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:28 PM
Sample Name	: 6103058	Data Acquisition Time	: 10/31/2006 4:56:55 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 58		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103058-061031-094622_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.142	2747.70	318.22	0.02	0.02	BB	0.0027	0.0027
2	As3	3.905	10979387.27	1.10e+06	91.54	91.54	BB	---------	---------
3	MMAs	6.047	1532.51	238.88	0.01	0.01	MM	0.0015	0.0015
4		6.525	8241.68	320.89	0.07	0.07	BB	0.0082	0.0082
5		7.018	14072.55	781.18	0.12	0.12	BV	0.0141	0.0141
6		7.231	10813.61	1061.24	0.09	0.09	VV	0.0108	0.0108
7		7.392	12539.36	1358.00	0.10	0.10	VB	0.0125	0.0125
8	As5	8.390	547820.38	76031.46	4.57	4.57	BB	0.5478	0.5478
9		8.934	4466.61	554.75	0.04	0.04	BB	0.0045	0.0045
10		9.788	293922.25	45827.48	2.45	2.45	BB	0.2939	0.2939
11		11.562	118104.95	14392.79	0.98	0.98	BB	0.1181	0.1181
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11993648.87	1.24e+06	100.00	100.00		1.0143	1.0143

11/9/2006 4:44:28 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103058-061031-094622_As.rst

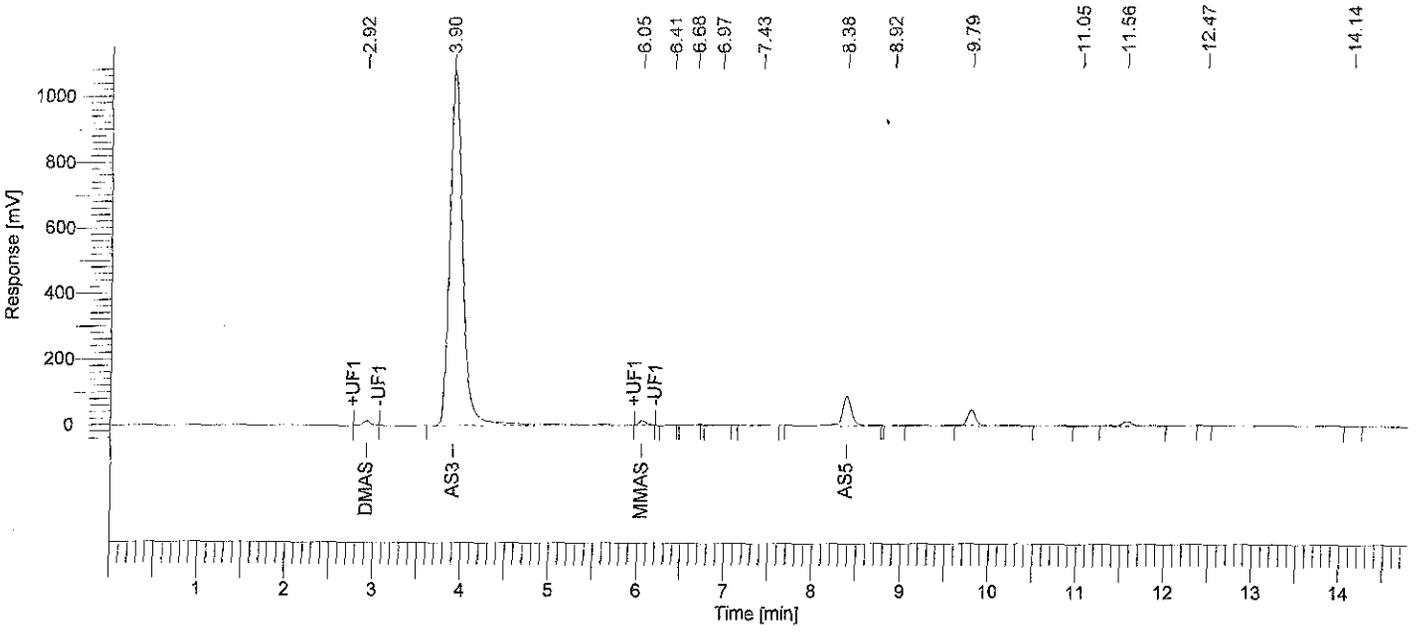
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version : 6.2.0.0.0:B27		Date	: 11/9/2006 4:44:36 PM
Sample Name : 6103059		Data Acquisition Time	: 10/31/2006 5:12:06 AM
Instrument Name :		Channel	: A
Rack/Vial : 0/1		Operator	: Haican
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 59			

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103059-061031-094629_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.923	74987.00	12966.28	0.61	0.61	MM	0.0750	0.0750
2	As3	3.905	11054195.19	1.08e+06	89.48	89.48	BB	----------	----------
3	MMAs	6.047	75384.44	15058.30	0.61	0.61	MM	0.0754	0.0754
4		6.414	8363.19	897.23	0.07	0.07	BV	0.0084	0.0084
5		6.682	14113.48	1098.54	0.11	0.11	VV	0.0141	0.0141
6		6.965	23900.00	1435.23	0.19	0.19	VV	0.0239	0.0239
7		7.426	32885.68	1706.32	0.27	0.27	VB	0.0329	0.0329
8	As5	8.383	642770.81	89952.25	5.20	5.20	BB	0.6428	0.6428
9		8.916	4075.40	574.01	0.03	0.03	BB	0.0041	0.0041
10		9.792	302143.34	46192.51	2.45	2.45	BB	0.3021	0.3021
11		11.050	953.38	97.29	0.01	0.01	BV	0.0010	0.0010
12		11.561	119123.24	14559.09	0.96	0.96	VB	0.1191	0.1191
13		12.472	429.55	89.69	0.00	0.00	BB	0.0004	0.0004
14		14.143	602.08	59.44	0.00	0.00	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12353926.78	1.27e+06	100.00	100.00		1.2997	1.2997

0093

11/9/2006 4:44:36 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103059-061031-094629_As.rst

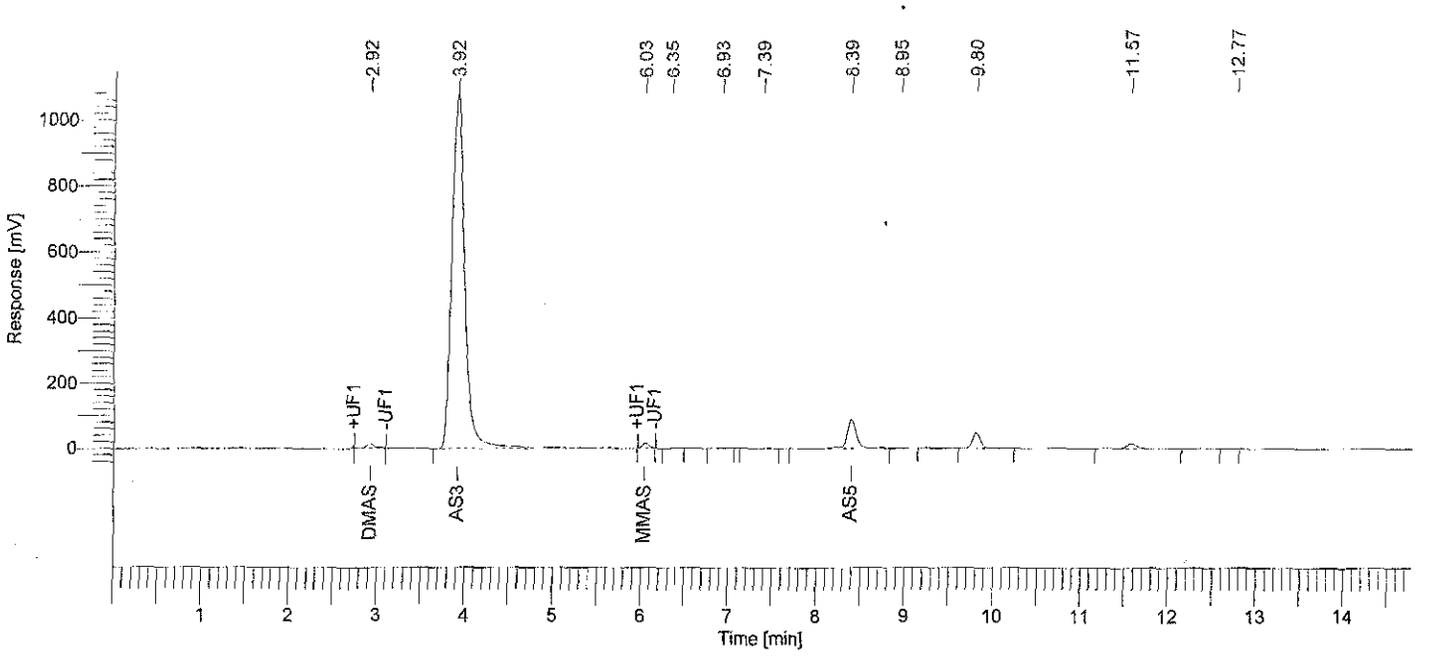
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:43 PM
Sample Name	: 6103060	Data Acquisition Time	: 10/31/2006 5:27:17 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 60		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103060-061031-094635_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.923	73535.67	13081.25	0.60	0.60	MM	0.0735	0.0735
2	As3	3.917	11028861.68	1.08e+06	89.77	89.77	BB	----------	----------
3	MMAs	6.035	75361.41	15412.57	0.61	0.61	MM	0.0754	0.0754
4		6.349	3640.17	509.38	0.03	0.03	BB	0.0036	0.0036
5		6.926	10125.29	732.70	0.08	0.08	BV	0.0101	0.0101
6		7.393	27433.49	1484.89	0.22	0.22	VB	0.0274	0.0274
7	As5	8.392	637684.37	87848.21	5.19	5.19	BB	0.6377	0.6377
8		8.951	5025.38	525.56	0.04	0.04	BB	0.0050	0.0050
9		9.804	300981.78	47390.51	2.45	2.45	BB	0.3010	0.3010
10		11.566	122621.26	14775.27	1.00	1.00	BB	0.1226	0.1226
11		12.773	803.72	126.36	0.01	0.01	BB	0.0008	0.0008
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12286074.22	1.26e+06	100.00	100.00		1.2572	1.2572

11/9/2006 4:44:43 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103060-061031-094635_As.rst

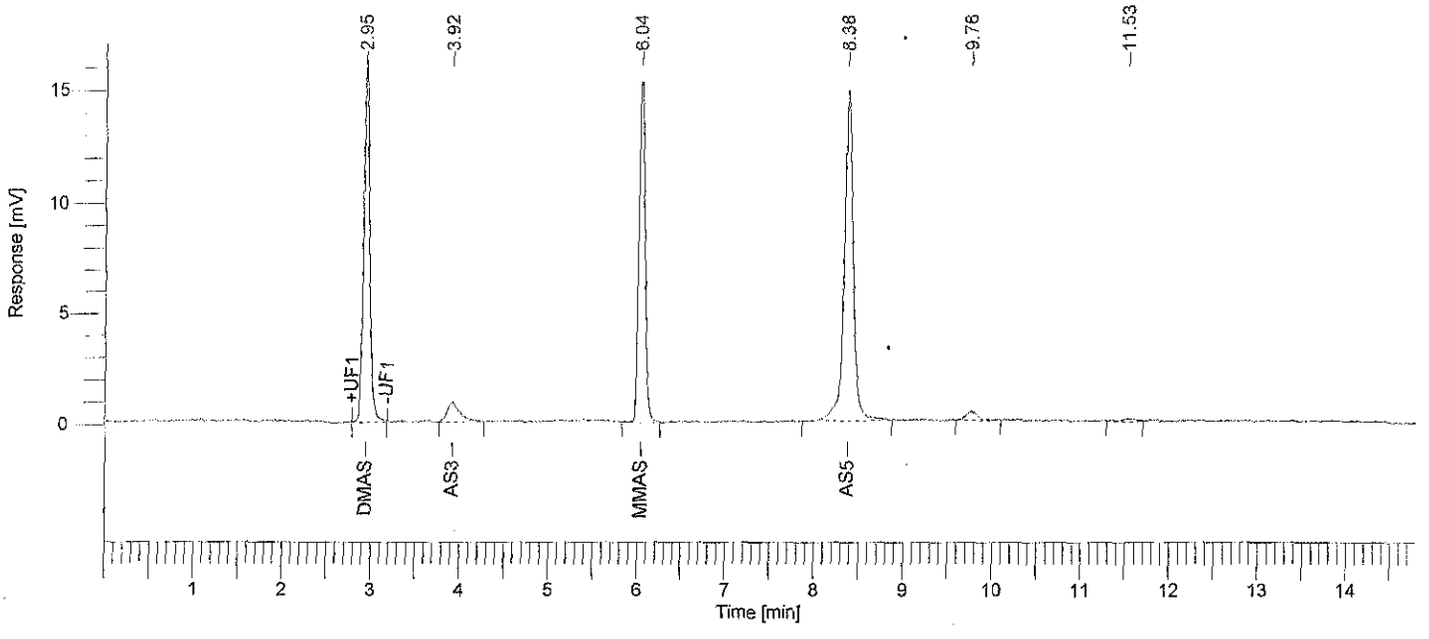
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:54 PM
Sample Name	: 6103061	Data Acquisition Time	: 10/31/2006 5:42:28 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 61		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103061-061031-094642_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

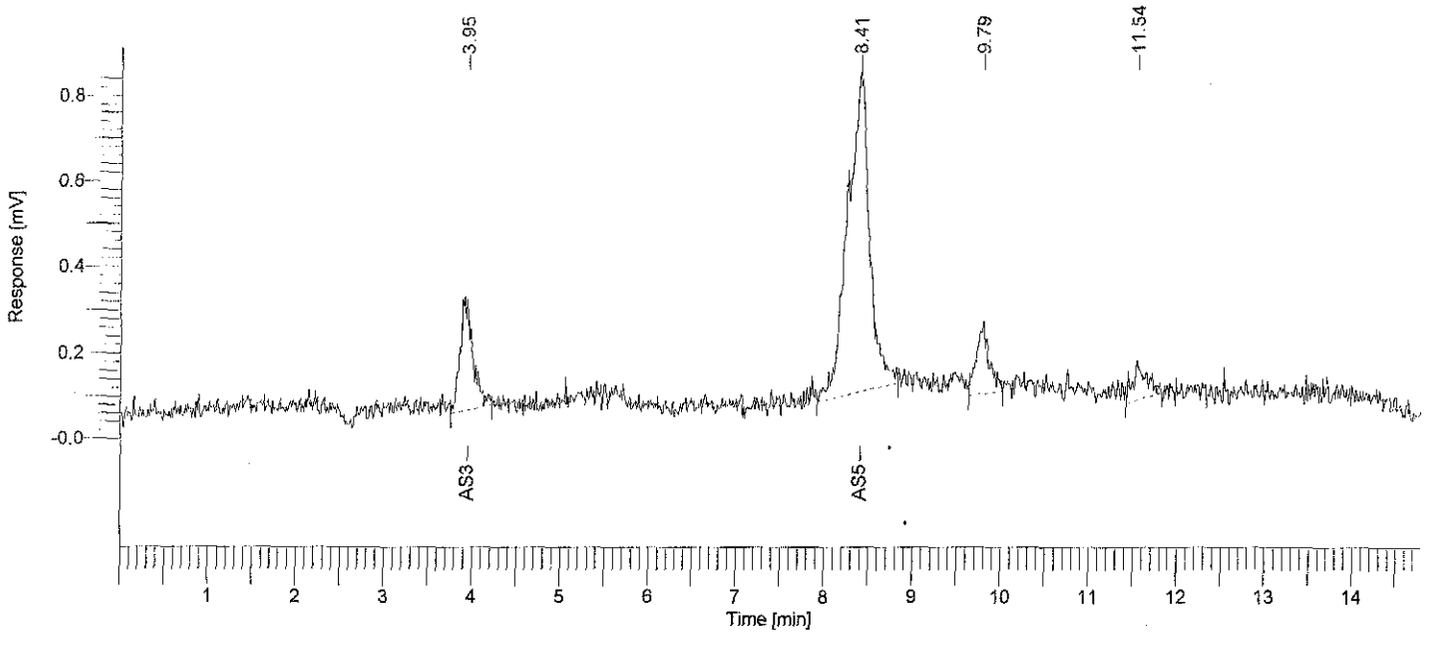
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	77380.74	15977.67	28.44	28.44	MM	0.0774	0.0774
2	As3	3.924	8707.44	875.48	3.20	3.20	BB	0.0087	0.0087
3	MMAs	6.041	75078.24	15484.83	27.59	27.59	BB	0.0751	0.0751
4	As5	8.381	105537.24	14615.12	38.78	38.78	BB	0.1055	0.1055
5		9.760	3775.78	396.91	1.39	1.39	BB	0.0038	0.0038
6		11.530	1630.16	135.98	0.60	0.60	BB	0.0016	0.0016
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			272109.60	47485.99	100.00	100.00		0.2721	0.2721

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:02 PM
Sample Name	: 6103062	Data Acquisition Time	: 10/31/2006 5:57:39 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 62		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103062-061031-094648_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.946	2632.68	240.42	14.68	14.68	BB	0.0026	0.0026
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.407	12704.74	730.07	70.83	70.83	BB	0.0127	0.0127
3		9.789	1656.43	149.45	9.23	9.23	BB	0.0017	0.0017
4		11.544	943.59	88.32	5.26	5.26	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			17937.44	1208.25	100.00	100.00		0.0179	0.0179

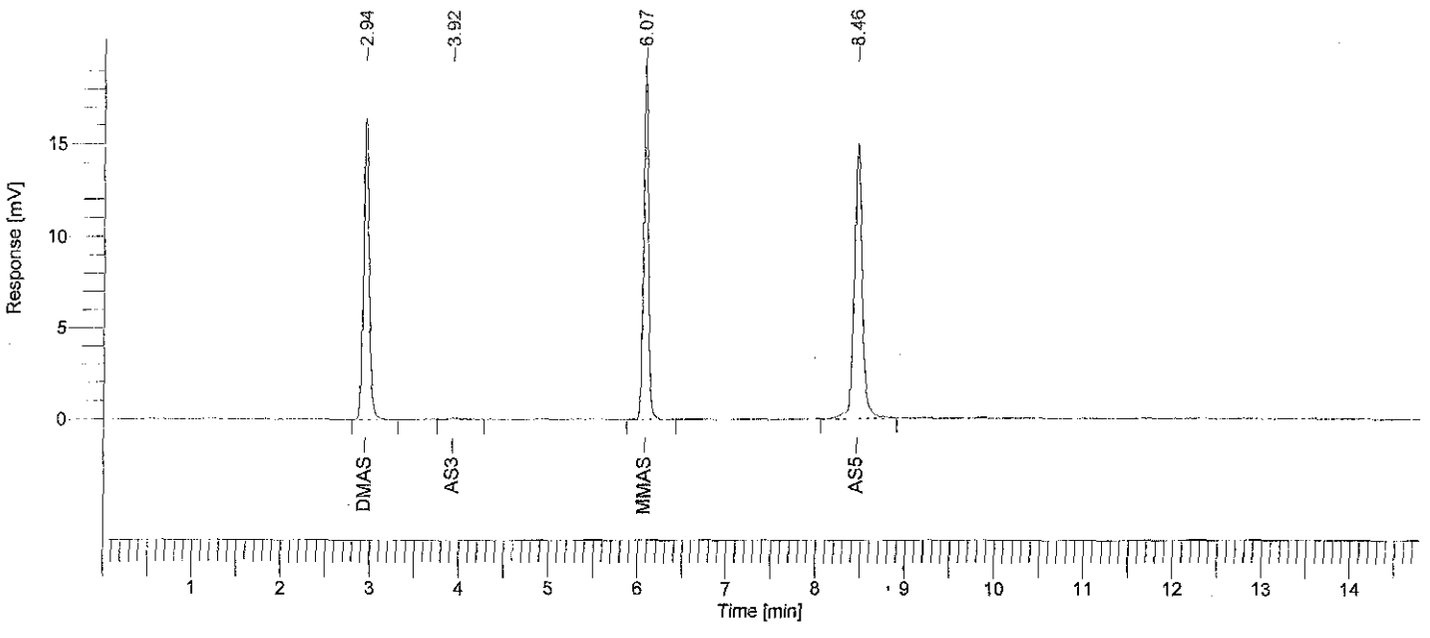
11/9/2006 4:45:02 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103062-061031-094648_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:18 PM
Sample Name	: 6103068	Data Acquisition Time	: 10/31/2006 10:48:08 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103068-061031-123447_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

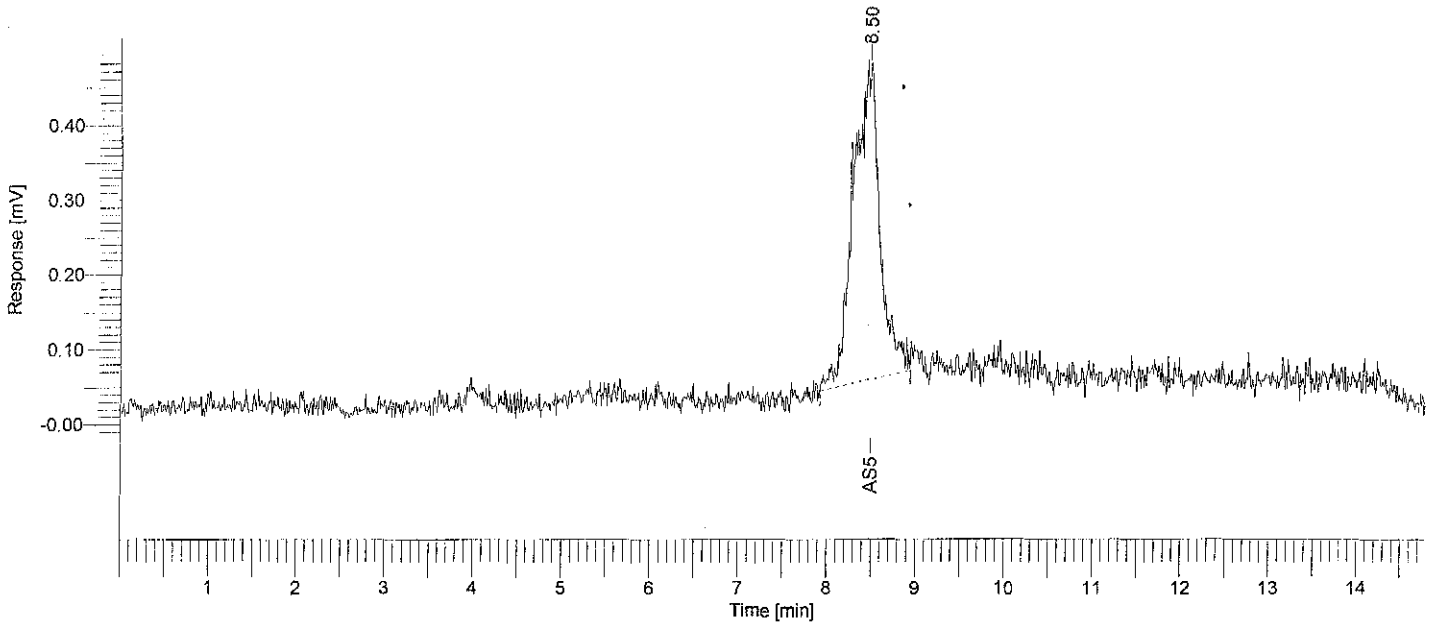
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.942	72657.14	16595.25	30.75	30.75	BB	0.0727	0.0727
2	As3	3.925	1115.41	107.78	0.47	0.47	BB	0.0011	0.0011
3	MMAs	6.072	70010.26	18478.64	29.63	29.63	BB	0.0700	0.0700
4	As5	8.457	92493.12	14814.96	39.15	39.15	BB	0.0925	0.0925
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			236275.93	49996.62	100.00	100.00		0.2363	0.2363

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:26 PM
Sample Name	: 6103069	Data Acquisition Time	: 10/31/2006 11:04:03 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103069-061031-123454_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

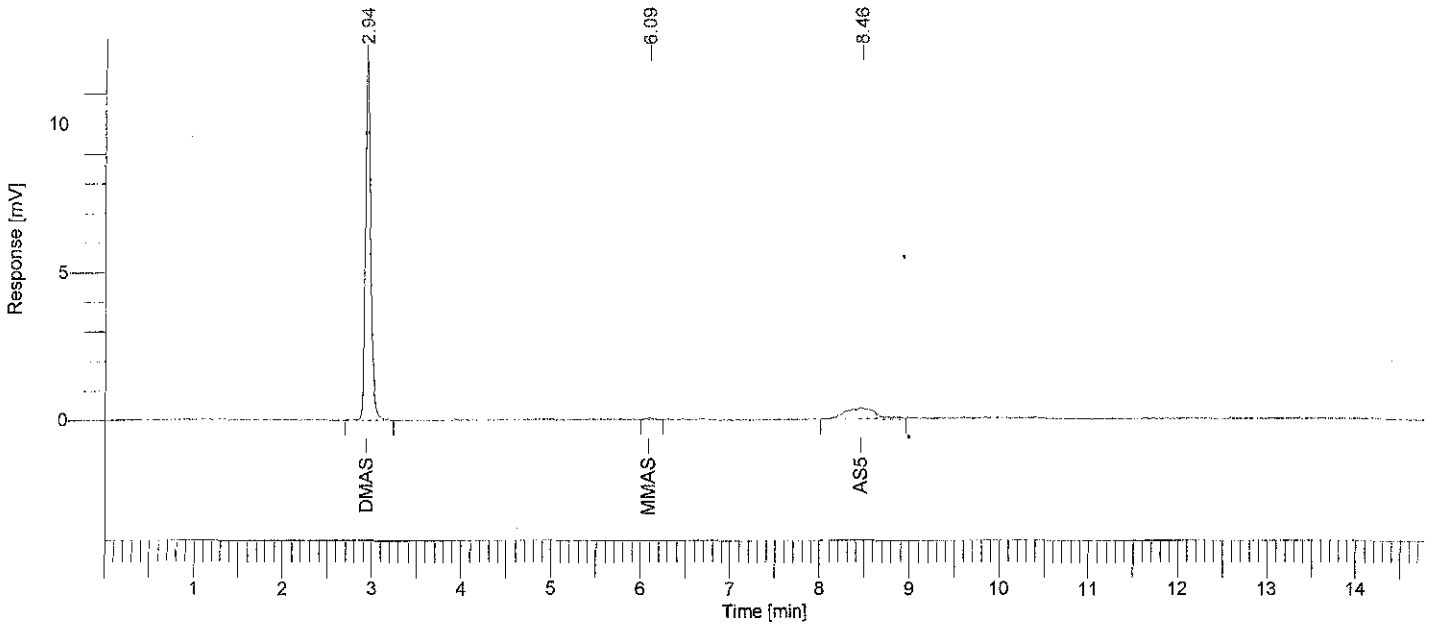
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.498	8767.08	414.42	100.00	100.00	BB	0.0088	0.0088
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			8767.08	414.42	100.00	100.00		0.0088	0.0088

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:34 PM
Sample Name	: 6103070	Data Acquisition Time	: 10/31/2006 11:19:14 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103070-061031-123501_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

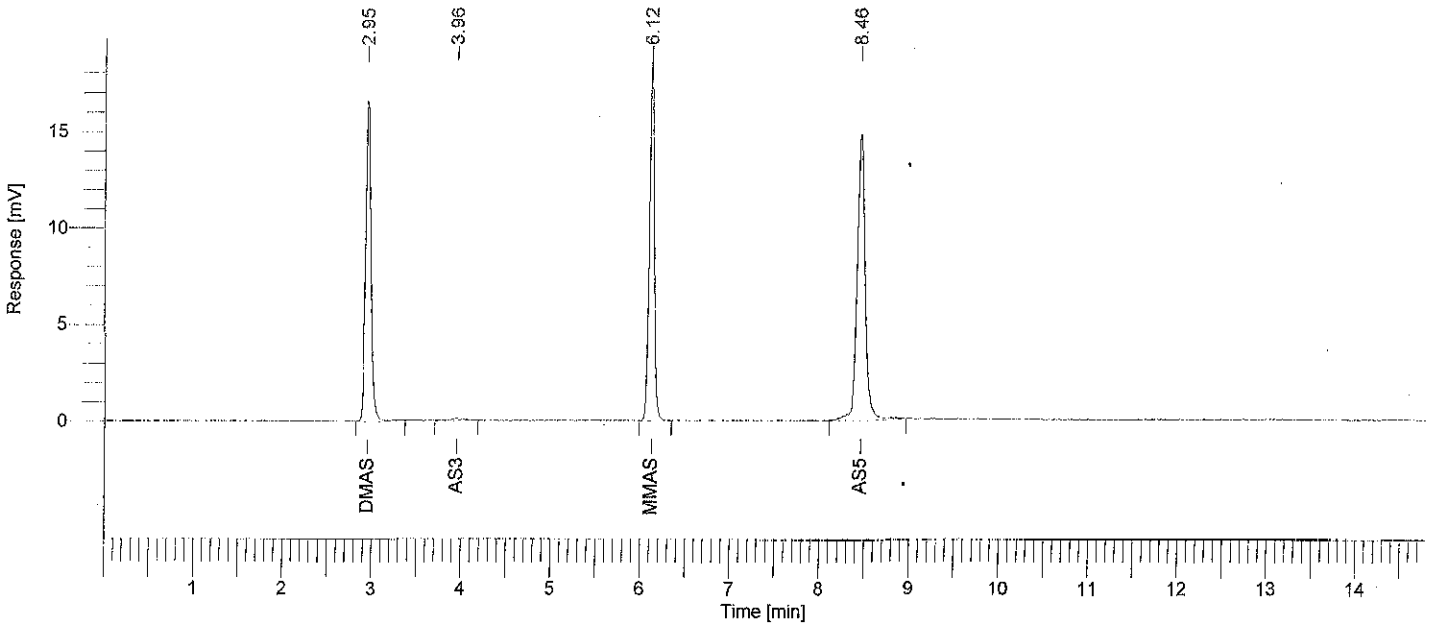
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.941	51527.54	11922.00	84.91	84.91	BB	0.0515	0.0515
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.093	423.16	72.66	0.70	0.70	BB	0.0004	0.0004
3	As5	8.464	8731.58	366.40	14.39	14.39	BB	0.0087	0.0087
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			60682.28	12361.06	100.00	100.00		0.0607	0.0607

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:42 PM
Sample Name	: 6103071	Data Acquisition Time	: 10/31/2006 11:34:25 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103071-061031-131954_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

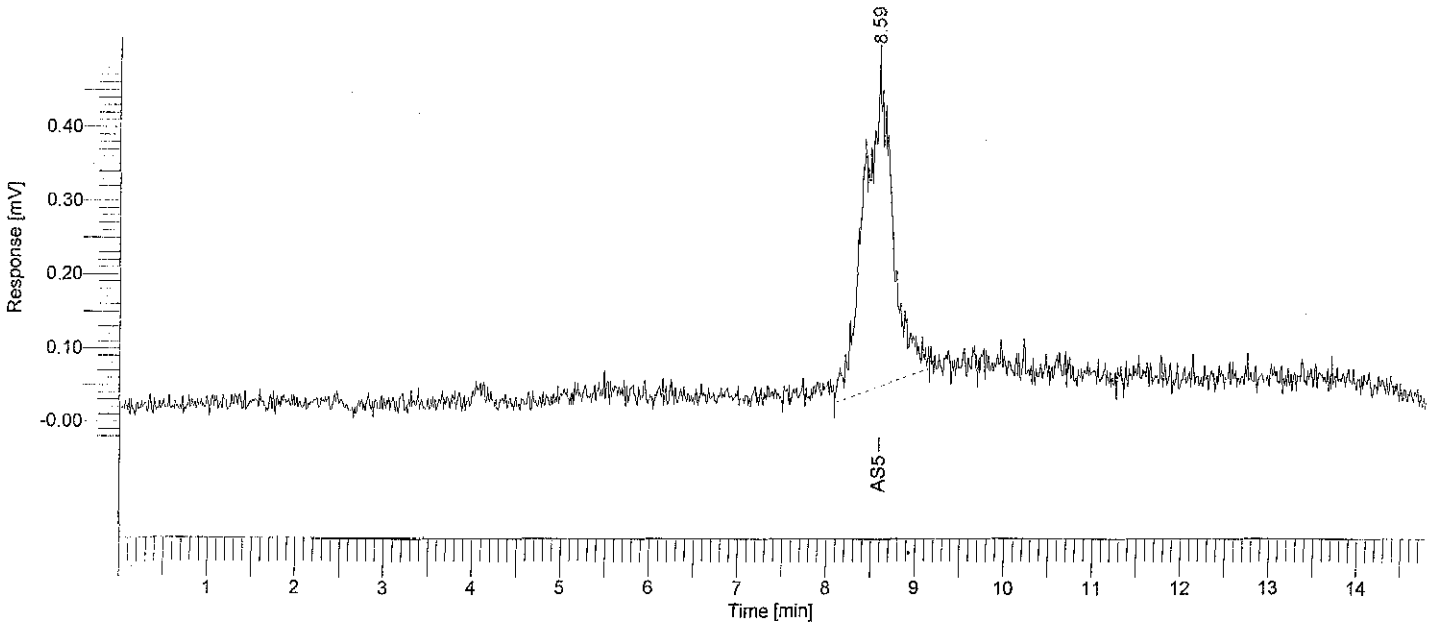
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.952	73296.85	16603.04	30.70	30.70	BB	0.0733	0.0733
2	As3	3.955	1329.12	129.39	0.56	0.56	BB	0.0013	0.0013
3	MMAs	6.122	70720.97	18090.68	29.62	29.62	BB	0.0707	0.0707
4	As5	8.459	93385.59	14785.50	39.12	39.12	BB	0.0934	0.0934
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			238732.53	49608.61	100.00	100.00		0.2387	0.2387

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:54 PM
Sample Name	: 6103072	Data Acquisition Time	: 10/31/2006 11:49:36 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103072-061031-132001_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.594	9729.13	418.22	100.00	100.00	BB	0.0097	0.0097
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9729.13	418.22	100.00	100.00		0.0097	0.0097

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

APPLIED SPECIATION AND CONSULTING, LLC

953 Industry Drive Tukwila, WA 98188
Tel: (206) 219-3779 Fax: (206) 388-3485
www.appliedspeciation.com

November 10, 2006

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608
(352) 335-5877

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027

Dear Ms. Klopper,

Attached is the report associated with five (5) samples submitted for monomethylarsonic acid (MMAs) and cacodylic acid (DMAs) quantification on October 26, 2006. All samples were received on October 27, 2006, in a sealed cooler at 6.1°C. MMAs and DMAs speciation analysis was performed by ion chromatography inductively coupled plasma mass spectrometry (IC-ICP-MS). Any analytical issues associated with the analysis are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Table of Contents

Prepared for:

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027

November 10, 2006

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Sample Results	6-10
QC Summary	11-12
Raw Data (ICICPMS-061030-As)	13-106

Applied Speciation and Consulting, LLC

Report Prepared for:

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027

November 10, 2006

1. Sample Reception

Five (5) samples in 125mL HDPE bottles were submitted for monomethylarsonic acid (MMAs) and cacodylic acid (DMAs) quantification on October 26, 2006. All samples were received in a sealed cooler on October 27, 2006 at 6.1°C.

It should be noted that an amended chain of custody form was provided by CH2M HILL on November 3, 2006 which reflected modified field sample IDs for all samples associated with this SDG. All laboratory IDs were adjusted in accordance with the revised field sample IDs. This report reflects only the revised field sample IDs and amended laboratory sample IDs. Both the as received and amended chain of custody forms are included with this report.

All samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. Upon reception, all samples were designated discrete sample identifiers and were immediately placed in a secure, monitored cryofreezer (maintained at -80°C) until analysis could be performed. All samples were analyzed for MMAs and DMAs by ion chromatography inductively coupled plasma mass spectrometry (IC-ICP-MS).

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

In accordance with the project specific work plan, designated samples were field preserved with a buffered 0.125 M EDTA acetic acid/acetate solution.

MMAs and DMAs Quantification by IC-ICP-MS All samples were filtered with a syringe filter (0.45um) and injected directly into sealed autosampler vials. No further sample preparation was performed as any chemical alteration of the samples may shift the equilibrium of the system resulting in changes in speciation ratios.

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

MMAs and DMAs Quantification by IC-ICP-MS All samples for MMAs and DMAs quantification were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Aliquots of each sample are injected onto an anion exchange column and are mobilized by a basic (pH > 7) gradient. The eluting arsenic species are then introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and separated on the basis of their mass-to-charge ratio (m/z) by a mass spectrometer. A solid-state detector detects ions transmitted through the mass analyzer and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

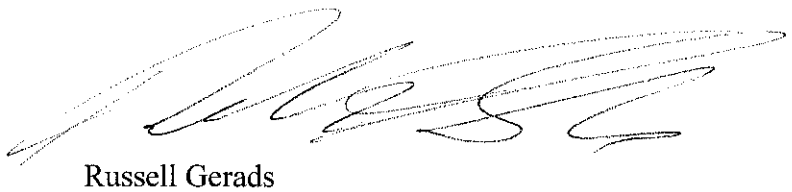
4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control parameters associated with these samples was within acceptance limits.

It should be noted that the estimated method detection limits (eMDLs) for MMAs and DMAs are generated from replicate analyses of the lowest standard in the calibration curve. Not all arsenic species are present in preparation blanks; therefore, eMDL calculations based on preparation blanks are artificially biased low.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,



Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC
953 Industry Drive
Tukwila, WA 98188
Russ Gerads

Honeywell — Chain Of Custody / Analysis Request

AESI Ref: 39010.55982
COC# 30916-102606-GW-ASC | 30916-XXXXX-GW-ASC

Privileged & Confidential		Site Name:	Quanta Resources (Edgewater)	Phase:	Lab Proj # (SDG):
Sampling Co.: CH2M HILL	EDD To: john.mitchell@ch2m.com, amy.klopper@ch2m.com	Location of Site:	Edgewater, NJ	Sampling Program: Quanta 2006 OU1 SI	Lab ID
Client Contact: (name, co., address)	Sampler:				Site ID: Quanta
Jennifer Simms	PO #	Preservative			Lab Job #
1700 Market Street, Suite 1600	Analysis Turnaround Time (TAT):				Authorized User: Honeywell
Philadelphia, PA 19103	Consultant: CH2M				
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com					Text & Excel File Drive: Excel & Text File Order
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com					
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608	Full Report TAT:				
Invoice To: jennifer.simms@ch2m.com					

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	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample?	ASC-085 - DMA/MMA	Sampling Method (code)	Lab Sample Numbers
											Units				
1	MW-107-A	—	—	MW-107-A-102606	10/26/06	10:15	GW	W	REG	1	G	F	X		0004
2	MW-109-A	—	—	MW-109-A-102606	10/26/06	10:10	GW	W	REG	1	G	F	X		
3	MW-36	—	—	MW-36-102606	10/26/06	10:25	GW	W	REG	1	G	F	X		
4	MW-111-B	—	—	MW-111-B-102606	10/26/06	13:35	GW	W	REG	1	G	F	X		
5	EB	—	—	EB-102606-GW	10/26/06	14:30	GW	W	EB	1	G	F	X		
6															
7															
8															
9															
10															
11															
12															

Relinquished by	Company: CH2M HILL	Received by	Company		Condition		Custody Seals Intact	
Kimberly A Stores	Date/Time: 10/26/06 16:00		Date/Time: 10-27-06/10:30		Cooler Temp: 6.1°C			
Relinquished by	Company	Received by	Company		Condition		Custody Seals Intact	
	Date/Time		Date/Time		Cooler Temp.			

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

Applied Speciation and Consulting, LLC
953 Industry Drive
Tukwila, WA 98188
Russ Gerads

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39024.61818
COC#	39015-102606-GW/ASC
Lab Proj # (SDG):	
Lab ID	
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Quanta Resources (Edgewater)
Phase:
Location of Site: Edgewater, NJ
Sampling Program: Quanta 2006 OU1 SI

Sampling Co.: CH2M HILL
EDD To: john.mitchell@ch2m.com, amy.klopper@ch2m.com
Client Contact: (name, co., address)
Jennifer Simms
1700 Market Street, Suite 1600
Philadelphia, PA 19103
Sampler: D. Reamer/ L. Baechler/ K. Stokes
PO #
Preservative: sp
Analysis Turnaround Time (TAT):
Consultant: CH2M
Full Report TAT:
Preliminary Data To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To: amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To: Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Invoice To: jennifer.simms@ch2m.com

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	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	ASC-085 - DMA/MMA	Sampling Method (code)	Lab Sample Numbers
											Units				
1	MW-107A			MW-107A-102606-F	10/26/2006	10:15	GW	WATER	REG	1	grab	Y	X		
2	MW-109A			MW-109A-102606-F	10/25/2006	10:10	GW	WATER	REG	1	grab	Y	X		
3	MW-36			MW-36-102606-F	10/26/2006	10:25	GW	WATER	REG	1	grab	Y	X		
4	MW-111B			MW-111B-102606-F	10/26/2006	13:35	GW	WATER	REG	1	grab	Y	X		
5	Equip Blank			EB-102606-GW	10/26/2006	14:30	BLKWATER	WATER	EB	1	grab	N	X		
6															
7															
8															
9															
10															
11															
12															

Relinquished by	Company	CH2M HILL	Received by	Company		Condition		Custody Seals Intact
Kimberly Stokes	Date/Time	10/26/06 16:00		Date/Time		Cooler Temp.		
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.		

Preservatives: (Other; Specify): DMA and MMA samples are preserved with EDTA

0 (none), 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

0005

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/26/2006 Date Received: 10/27/2006

Field Sample ID
MW-107-A-102606-F

Laboratory Sample ID
MW-107-A-102606-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/31/2006	10000	52	500	52 U
MMAs	EPA6800	10/31/2006	10000	30	500	30 U

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/26/2006 Date Received: 10/27/2006

Field Sample ID
MW-109-A-102606-F

Laboratory Sample ID
MW-109-A-102606-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/31/2006	20	0.11	1.0	0.11 U
MMAs	EPA6800	10/31/2006	20	0.059	1.0	0.059 U

All results are reported in μg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/26/2006 Date Received: 10/27/2006

Field Sample ID
MW-36-102606-F

Laboratory Sample ID
MW-36-102606-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/31/2006	20	0.11	1.0	0.11 U
MMAs	EPA6800	10/31/2006	20	0.059	1.0	0.779 J

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/26/2006 Date Received: 10/27/2006

Field Sample ID
MW-111-B-102606-F

Laboratory Sample ID
MW-111-B-102606-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/31/2006	10000	52	500	52 U
MMAs	EPA6800	10/31/2006	10000	30	500	30 U

All results are reported in μg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/26/2006 Date Received: 10/27/2006

Field Sample ID
EB-102606-GW

Laboratory Sample ID
EB-102606-GW

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/31/2006	20	0.11	1.0	0.11 U
MMAs	EPA6800	10/31/2006	20	0.059	1.0	0.059 U

All results are reported in μg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*	eMDL 20x*	eMDL 10000x*	RL 20x	RL 10000x
DMAs	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.11	52	1.0	500
MMAs	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.059	30	1.0	500

eMDL = Estimated Method Detection Limit
*Please see narrative regarding eMDL calculations

Quality Control Summary - Laboratory Control Sample

Analyte (µg/L)	LCS	True Value	Result	Recovery
DMAs	ICV	2.000	1.974	98.7
MMAs	ICV	2.000	2.196	109.8

0011

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Rep 1	Rep 2	Mean	RPD
DMAs	MW-111-B-102606-F	52 U	52 U	NC	NC
MMAs	MW-111-B-102606-F	30 U	30 U	NC	NC

ND = Not detected at the applied dilution
U = Sample concentration is below the eMDL

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
DMAs	MW-111-B-102606-F	20000	19390	97.0	20000	19160	95.8	1.2
MMAs	MW-111-B-102606-F	20000	19180	95.9	20000	18780	93.9	2.1

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061027
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Initial and Continuing Calibration Verification Standards

Analyte (µg/L)	ICV	True Value	Recovery	CCV1/CCV3	True Value	Recovery	CCV2/CCV4	True Value	Recovery
DMAs	1.97	2.00	98.7	1.918	2.000	95.9	1.931	2.000	96.6
				1.906	2.000	95.3	1.824	2.000	91.2
MMAs	2.20	2.00	109.8	1.864	2.000	93.2	1.908	2.000	95.4
				1.880	2.000	94.0	1.857	2.000	92.9

Quality Control Summary - Initial and Continuing Calibration Blanks

Analyte (µg/L)	ICB	CCB1	CCB2	CCB3	CCB4
DMAs	0.000	0.000	0.000	0.000	0.000
MMAs	0.000	0.000	0.000	0.000	0.000

0012

Applied Speciation And Consulting, LLC

Dataset Cover Page

Dataset ID: ICICPMS-061030-As

Analyst: H. Gürleyük

Computations Performed by: H. Gürleyük

Selenium Speciation Analysis by IC-ICP-MS	
Client Name(s): CHM HILL (C061026, C061027, C061030)	QA Level: High
Sample Reception Date: 10/26/06, 10/27/06, 10/30/06	
Does Data Meet all DQOs? yes	

Analytical Discussion:

All samples and Prep Blanks were filtered with 0.45 um syringe filter.

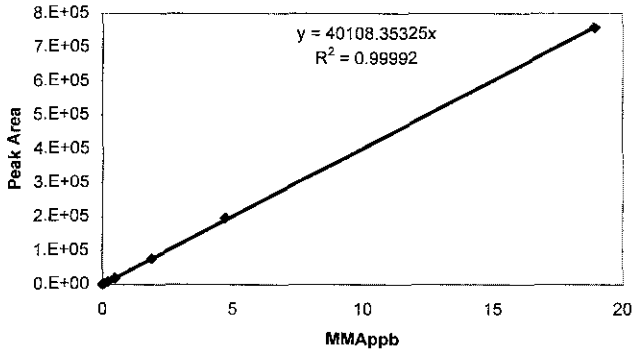
A 0.02 ppb standard was run in quadruplicate to get an accurate MDL for As speciation.

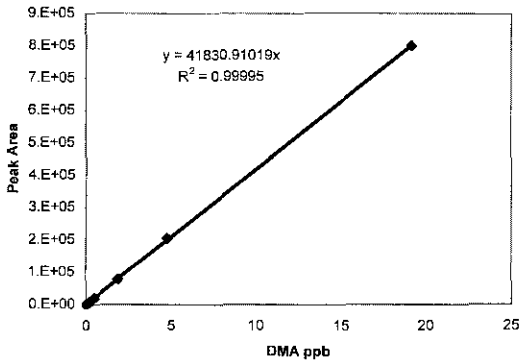
All Samples were diluted in water

The recovery for the 1640 reference material was low but within QC specifications

No Significant Analytical issues were encountered.

Dataset ID: ICICPMS-061027-As
Analyst: HakanG
MMAs DMAs





Run #	Conc (ppb)	Peak Area	Peak Area
			956606
		DMA	
		Conc (ppb)	Peak Area
		0	0.00
		0	0.00
		0	0.00
		832	0.02
		766.22	0.02
		938	0.02
		876	0.02
		1892	0.05
		7947	0.19
		19506	0.47
		78701	1.89
		205410	4.73
		799127	18.93
			1.89
		41830.91019	
		0.	

			946471
		MMA	
		Conc (ppb)	
		0	
		0	
		0	
		762	
		803	
		857	
		808	
		2094	
		7474	
		18732	
		76150	
		196091	
		757641	
		757641	
		40108.35325	
		43642.08781	

Run #	Dil Fac	TV	DMA Peak Area	MMA Peak Area	Conc (ppb) DMA	Conc (ppb) MMA	Remarks	DMA Calc.	MMA Calc.
6103001 blank	1		0	0	0.000	0.000			
6103002 blank	1		0	0	0.000	0.000			
6103003 blank	1		0	0	0.000	0.000			
6103004 blank	1		0	0	0.000	0.000			
6103005 0.02 ppb 5DM	1		832	762	0.020	0.019	Mean ppb=	0.0204	0.0201
6103006 0.02 ppb 5DM	1		766	803	0.018	0.020	stdev=	0.0017	0.0010
6103007 0.02 ppb 5DM	1		938	857	0.022	0.021	eMDL=	0.0052	0.0029
6103008 0.02 ppb 5DM	1		876	808	0.021	0.020			
6103009 0.05 ppb	1		1892	2094	0.045	0.052			
6103010 0.2 ppb	1		7947	7474	0.190	0.186			
6103011 0.5 ppb	1		19506	18732	0.466	0.467			
6103012 2 ppb	1		78701	76150	1.881	1.899			
6103013 5 ppb	1		205410	196091	4.910	4.889			
6103014 20 ppb	1		799127	757641	19.104	18.890			
6103015 Rinse	1		0	0	0.000	0.000			
6103016 ICV 2 ppb As3	1	2	0	0	0.000	0.000			
6103017 ICV 2ppb 5MD	1	2	82556	88090	1.974	2.196	%Rec=	98.7	109.8
6103018 ICB	1		0	0	0.000	0.000			
6103019 1640 25x	25	26.67	0	0	0.000	0.000			
6103020 CCV1 2ppb	1	2	80232	74779	1.918	1.864	%Rec=	95.9	98.5
6103021 CCB1	1		0	0	0.000	0.000			
6103022 PB1	1		0	0	0.000	0.000	PB Average=	0.00	0.00
6103023 PB2	1		0	0	0.000	0.000	PB RSD=	0.0	0.0
6103024 PB3	1		0	0	0.000	0.000	eMDL=	0	0
6103025 PB4	1		0	0	0.000	0.000			
6103026 MW-N-1-102506-ASC-B-805 A 10,000X	10000		0	0	0.000	0.000	AD Average=	0.0	0.0
6103027 MW-N-1-102506-ASC-B-805 AD 10,000X	10000		0	0	0.000	0.000	MD RPD	0.0	0.0
03028 MW-N-1-102506-ASC-B-805 AS + 2ppb 10,00	10000	20000	79297	74468	18957	18567	AS %Rec.=	94.8	98.1
03029 MW-N-1-102506-ASC-B-805 ASD + 2ppb 10,0	10000	20000	79360	74816	18972	18653	ASD %Rec.=	94.9	98.5
3103030 MW-N-1-102506-ASC-B-800 + 2 ppb 10,000	10000	20000	81403	75694	19460	18872	AS %Rec.=	97.3	99.7
3103031 MW-N-1-102506-ASC-B-811 + 2 ppb 10,000	10000	20000	79348	74893	18969	18673	ASD %Rec.=	94.8	98.6

0014

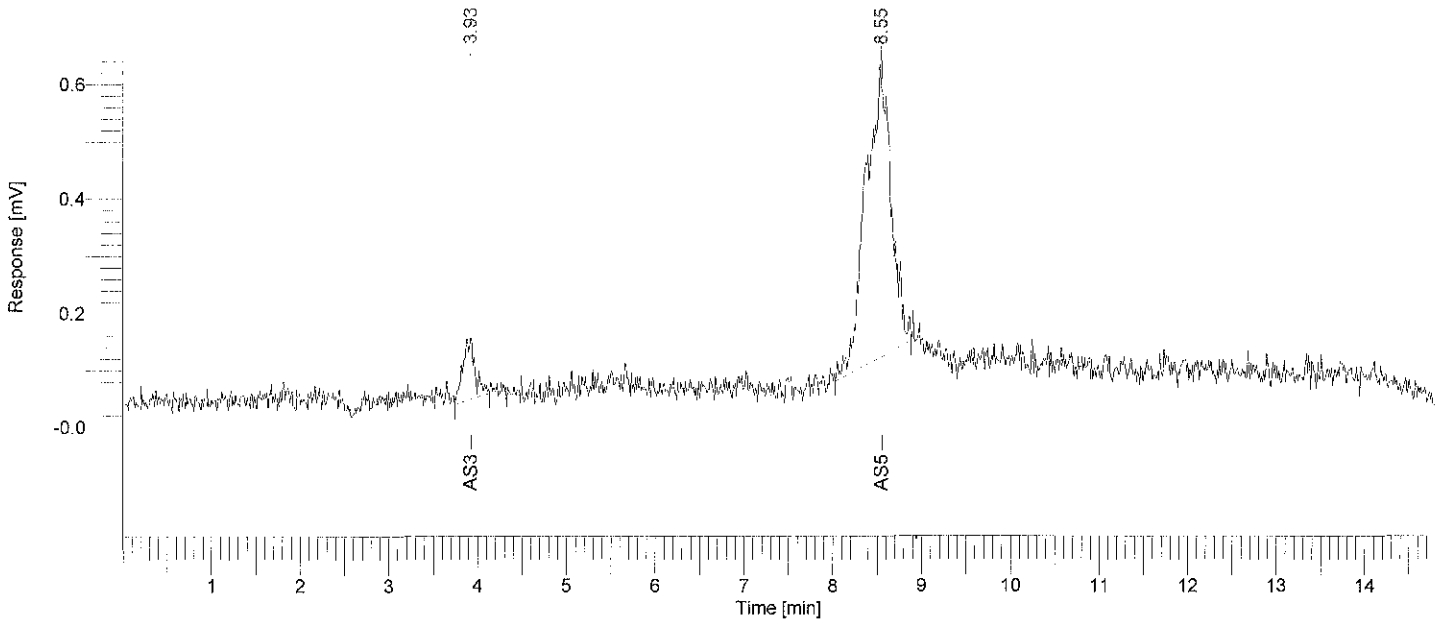
Dataset ID: ICICPMS-061027-As
Analyst: HakanG
MMAs DMAs

Run #	Dil Fac	TV	DMA Peak Area	MMA Peak Area		Conc (ppb) DMA	MMA	Remarks	DMA Calc.	MMA Calc.
6103032 CCV2 2ppb	1	2	80777	76530		1.93	1.91	%Rec=	96.6	100.8
6103033 CCB2	1		0	0		0.00	0.00			
6103034 MW-N-2-102506 10,000X	10000		0	0		0.00	0.00			
6103035 MW-O-102506 20X	20		0	296		0.00	0.15			
6103036 DUP-102506-GW 20X	20		0	132		0.00	0.07			
6103037 MW-A-2-102506 10,000X	10000		0	140		0.00	34.91			
6103038 EB-102506-GW 20X	20		0	0		0.00	0.00			
6103039 MW-107-A-102606 10,000X	10000		0	0		0.00	0.00			
6103040 MW-109-A-102606 20X	20		0	0		0.00	0.00			
6103041 MW-36-102606 20X	20		0	1562		0.00	0.78			
6103042 EB-102606-GW 20X	20		0	0	0	0.00	0.00			
6103043 MW-111-B-102606 A 10,000X	10000		0	0	0	0.00	0.00			
6103044 CCV3 2 ppb	1	2	79710	75408	0	1.91	1.88	%Rec=	95.3	99.3
6103045 CCB3	1		0	0	2892	0.00	0.00			
6103046 MW-111-B-102606 AD 10,000X	10000		0	0	85138	0.00	0.00	AD Average=	0.0	0.0
6103047 MW-111-B-102606 AS 10,000X	10000	20000	81123	76915	0	19393.08	19176.80	MD RPD	0.0	0.0
6103048 MW-111-B-102606 ASD 10,000X	10000	20000	80145	75327	0	19159.28	18780.88	AS %Rec.=	97.0	93.9
6103049 MW-L-102606 10,000X-	10000		0	0	0	0.00	0.00	ASD %Rec.=	95.8	95.9
6103050 MW-114B-102606 A 10,000X	10000		0	0	0	0.00	0.00	AD Average=	0.0	0.0
6103051 MW-114B-102606 AD 10,000X	10000		0	0	0	0.00	0.00	MD RPD	0.0	0.0
6103052 MW-114B-102606 AS + 2ppb 10,000X	10000	20000	78132	74519	0	18678.05	18579.42	AS %Rec.=	93.4	92.9
6103053 MW-114B-102606 ASD + 2ppb 10,000X	10000	20000	78679	75619	82825	18808.82	18853.68	ASD %Rec.=	94.0	94.3
6103054 CCV4 2 ppb	1	2	76279	74492	0	1.82	1.86	%Rec=	91.2	98.1
6103055 CCB4	1		0	0	0	0.00	0.00			
6103056 MW-L-102606 20X	20		0	0	0	0.00	0.00			
6103057 MW-114B-102606 A 20X	20		0	1882	0	0.00	0.94	AD Average=	0.0	0.9
6103058 MW-114B-102606 AD 20X	20		0	1533	0	0.00	0.76	MD RPD	0.0	20.4
6103059 MW-114B-102606 AS + 2ppb 20X	20	40	74987	75384		35.85	37.59	AS %Rec.=	89.6	91.8
6103060 MW-114B-102606 ASD + 2ppb 20X	20	40	73536	75361		35.16	37.58	ASD %Rec.=	87.9	91.8
6103061 CCV5 2 ppb	1	2	77381	75078		1.85	1.87	%Rec=	92.5	98.9
6103062 CCB5	1		0	0		0.00	0.00			
6103068 CCV6	1	2	72657	70010		1.74	1.75			
6103069 CCB6	1		0	0		0.00	0.00			
6103070 DMAs ICV 2ppb	1	1.34	51528	423		1.23	0.01	%Rec=	91.9	
6103071 CCV7	1	2	73297	70721		1.75	1.76	%Rec=	87.6	93.1
6103072 CCB7	1		0	0		0.00	0.00			

0015

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:33:43 PM
Sample Name	: 6103001	Data Acquisition Time	: 10/30/2006 2:31:28 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103001-061031-094005_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

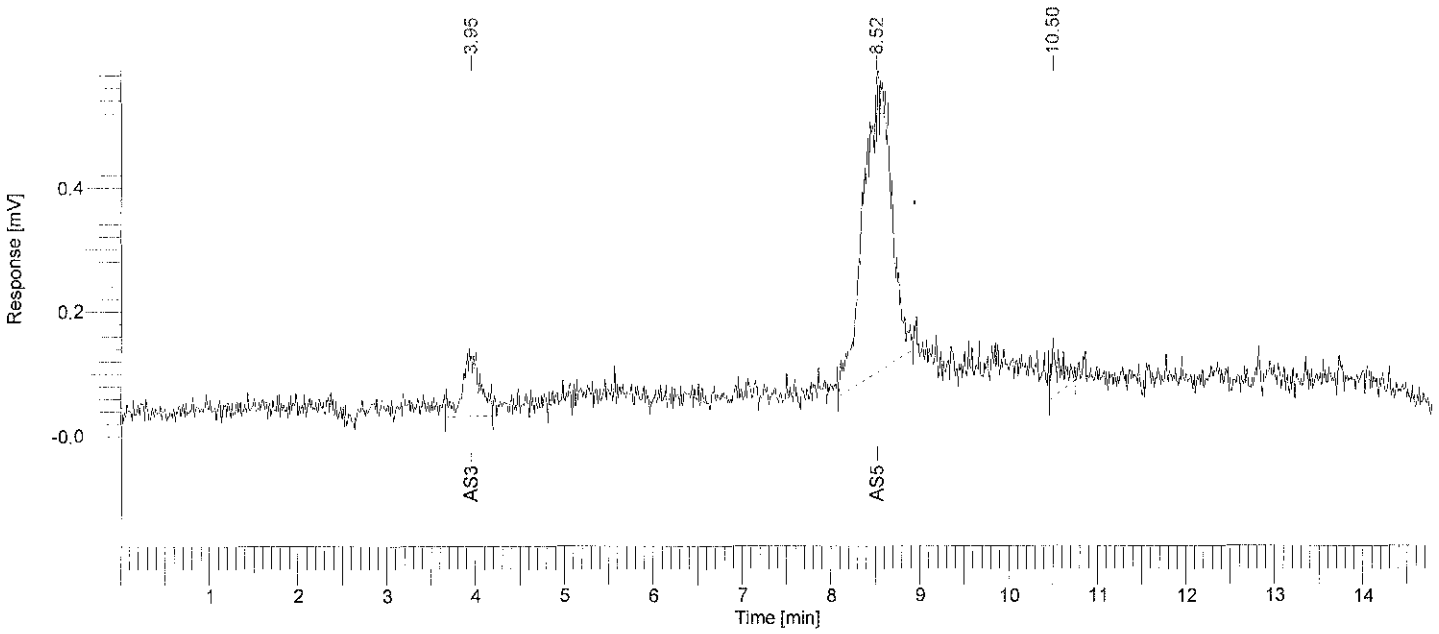
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.926	1045.12	108.79	9.30	9.30	BB	0.0010	0.0010
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.553	10189.21	507.26	90.70	90.70	BB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11234.33	616.05	100.00	100.00		0.0112	0.0112

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:33:57 PM
Sample Name	: 6103002	Data Acquisition Time	: 10/30/2006 2:46:39 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103002-061031-094012_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.951	1438.46	95.66	11.51	11.51	BB	0.0014	0.0014
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.519	10439.84	454.58	83.55	83.55	BB	0.0104	0.0104
3		10.501	616.28	73.02	4.93	4.93	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12494.58	623.26	100.00	100.00		0.0125	0.0125

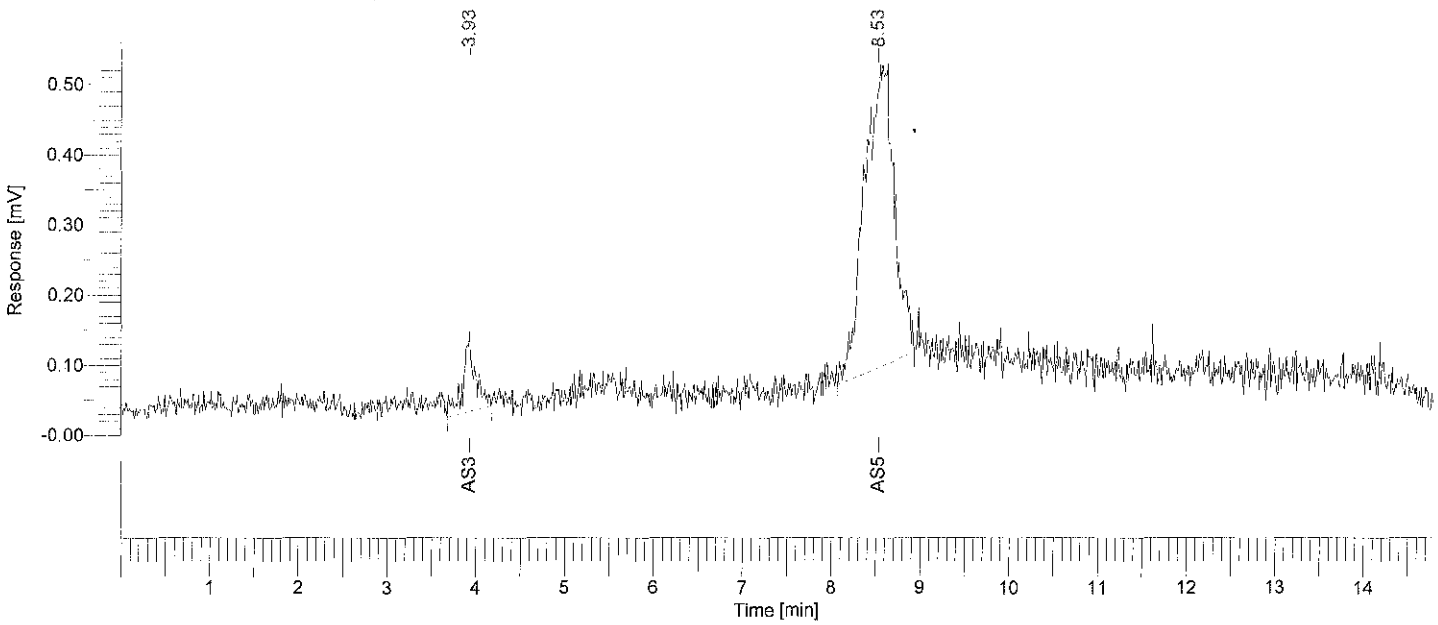
11/9/2006 4:33:57 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103002-061031-094012_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0:B27	Date	: 11/9/2006 4:34:08 PM
Sample Name	: 6103003	Data Acquisition Time	: 10/30/2006 3:01:50 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103003-061031-094018_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

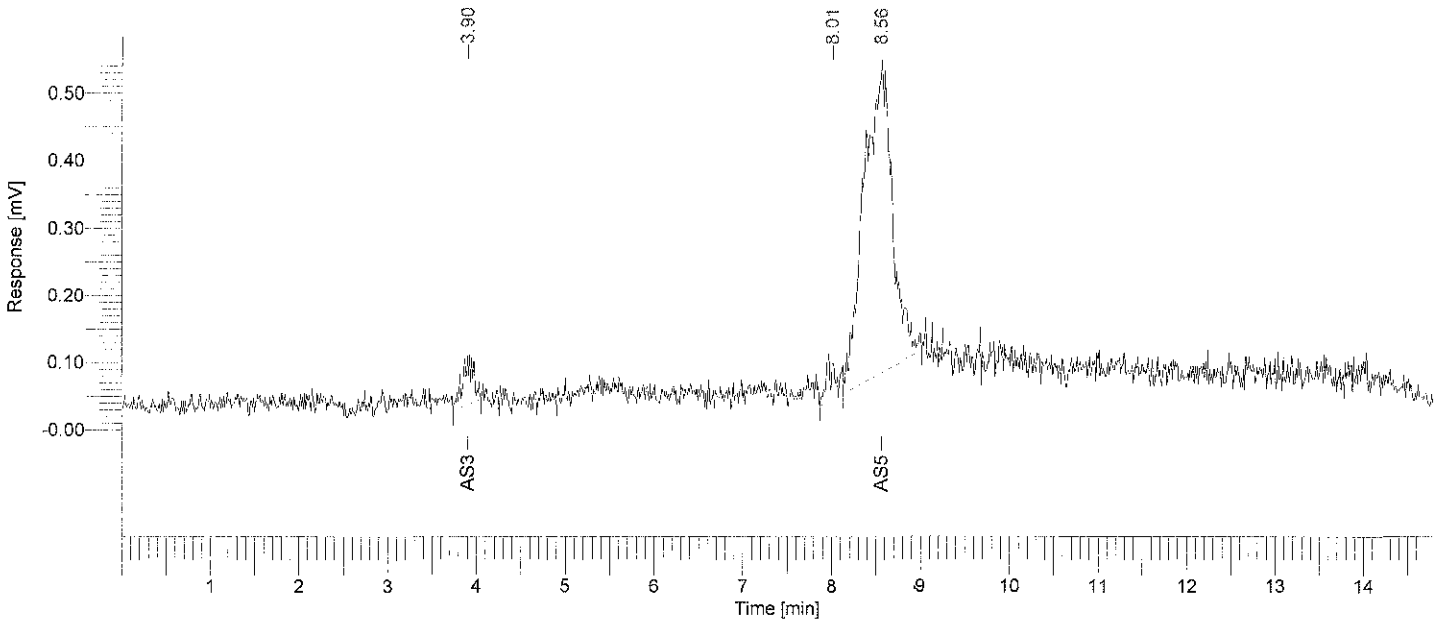
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.930	1069.26	110.35	9.57	9.57	BB	0.0011	0.0011
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.533	10108.98	397.60	90.43	90.43	BB	0.0101	0.0101
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11178.24	507.95	100.00	100.00		0.0112	0.0112

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:23 PM
Sample Name	: 6103004	Data Acquisition Time	: 10/30/2006 3:17:01 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 4		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103004-061031-094025_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.905	619.12	71.83	5.46	5.46	BB	0.0006	0.0006
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		8.011	480.09	53.85	4.23	4.23	BV	0.0005	0.0005
3	As5	8.562	10246.59	446.43	90.31	90.31	VB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11345.80	572.11	100.00	100.00		0.0113	0.0113

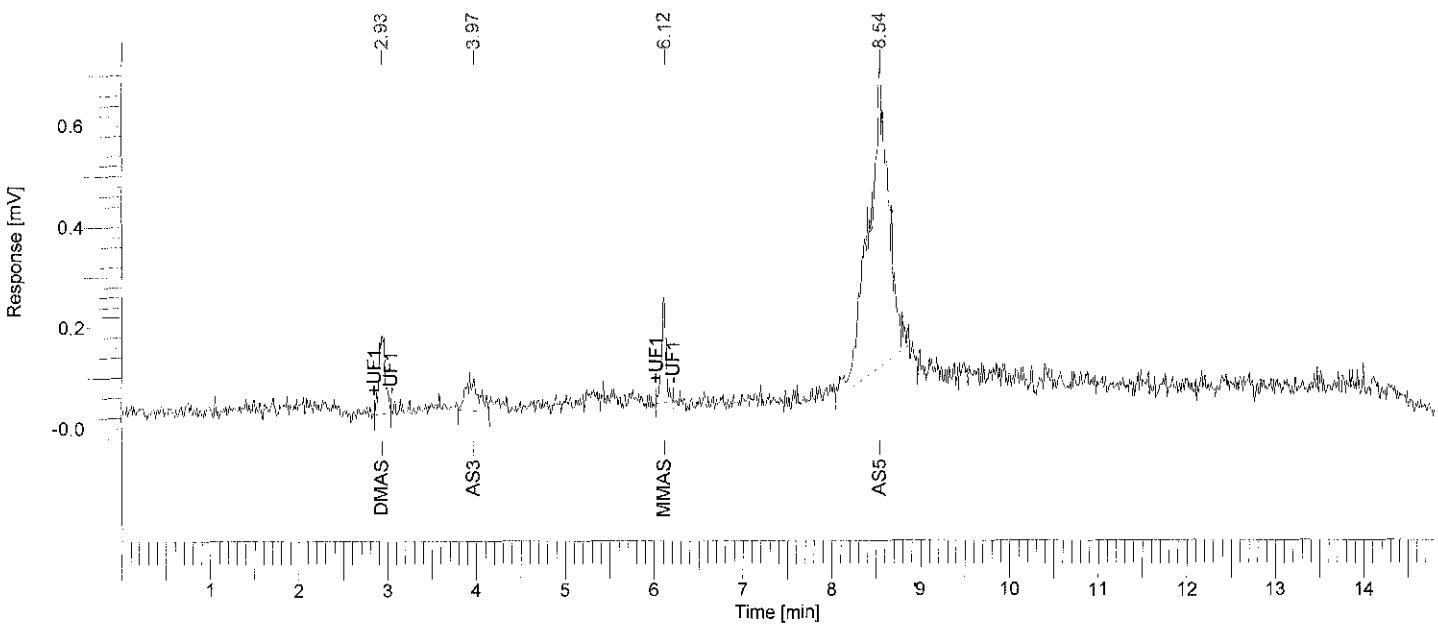
11/9/2006 4:34:23 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103004-061031-094025_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:31 PM
Sample Name	: 6103005	Data Acquisition Time	: 10/30/2006 3:32:12 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 5		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103005-061031-094031_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

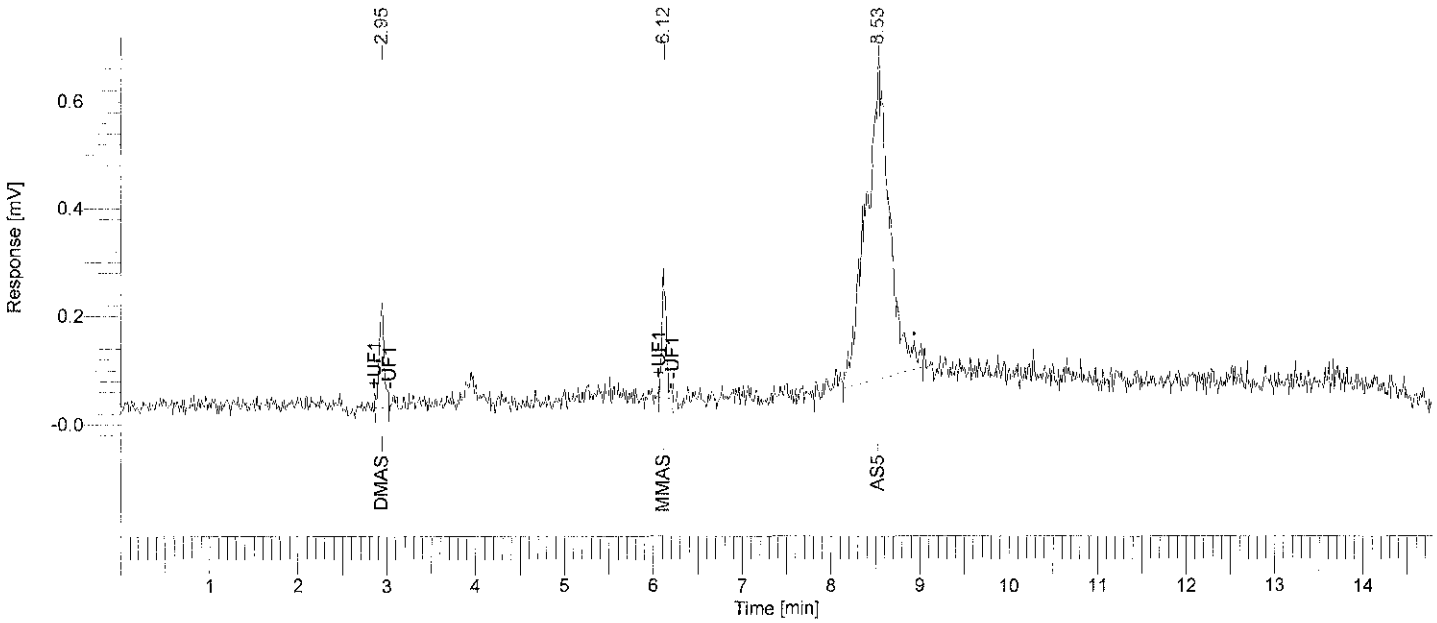
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	831.80	156.32	7.11	7.11	MM	0.0008	0.0008
2	As3	3.971	646.10	59.57	5.52	5.52	BB	0.0006	0.0006
3	MMAs	6.118	761.64	211.06	6.51	6.51	MM	0.0008	0.0008
4	As5	8.545	9464.30	607.84	80.86	80.86	BB	0.0095	0.0095
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11703.83	1034.79	100.00	100.00		0.0117	0.0117

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:42 PM
Sample Name	: 6103006	Data Acquisition Time	: 10/30/2006 3:47:23 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 6		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103006-061031-094038_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

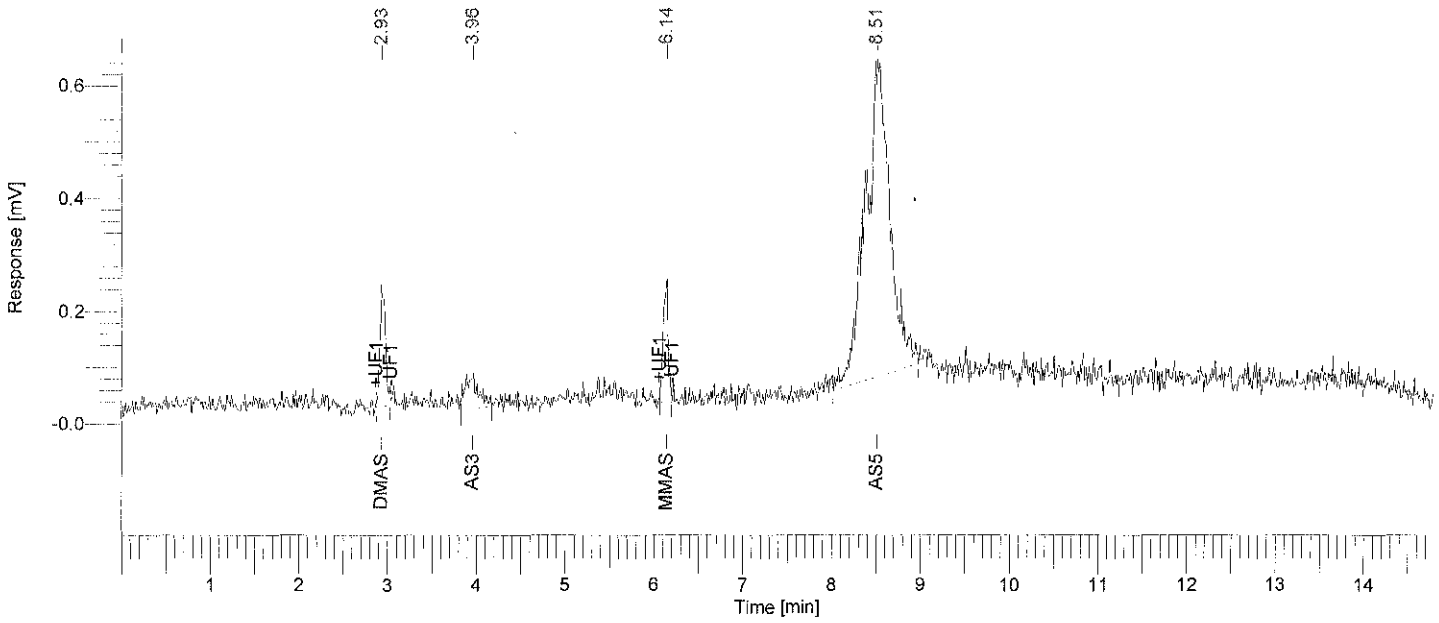
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	766.22	193.51	6.16	6.16	MM	0.0008	0.0008
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.118	802.75	240.31	6.46	6.46	MM	0.0008	0.0008
3	As5	8.534	10866.55	570.13	87.38	87.38	BB	0.0109	0.0109
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12435.52	1003.95	100.00	100.00		0.0124	0.0124

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:51 PM
Sample Name	: 6103007	Data Acquisition Time	: 10/30/2006 4:02:34 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 7		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103007-061031-094045_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

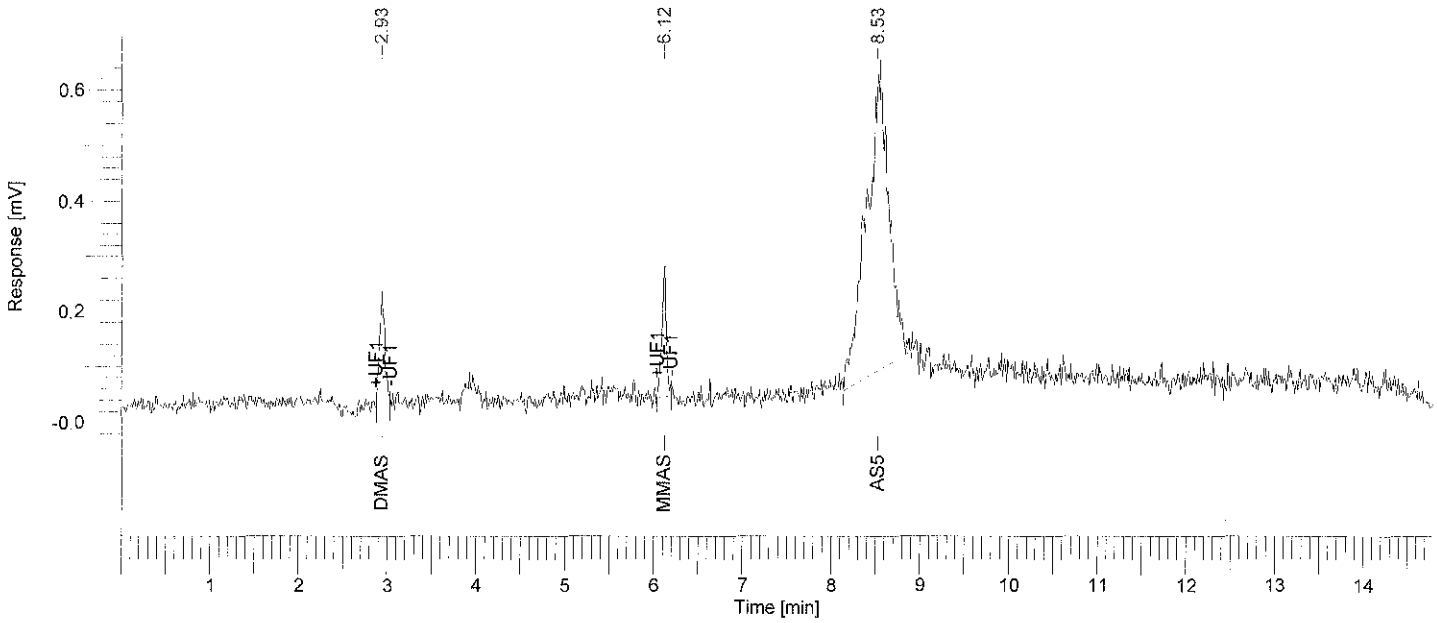
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	937.75	217.53	7.08	7.08	MM	0.0009	0.0009
2	As3	3.961	639.00	55.69	4.82	4.82	BB	0.0006	0.0006
3	MMAs	6.141	856.89	222.52	6.47	6.47	MM	0.0009	0.0009
4	As5	8.510	10814.72	557.26	81.63	81.63	BB	0.0108	0.0108
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			13248.36	1053.00	100.00	100.00		0.0132	0.0132

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:00 PM
Sample Name	: 6103008	Data Acquisition Time	: 10/30/2006 4:17:45 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 8		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103008-061031-094051_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

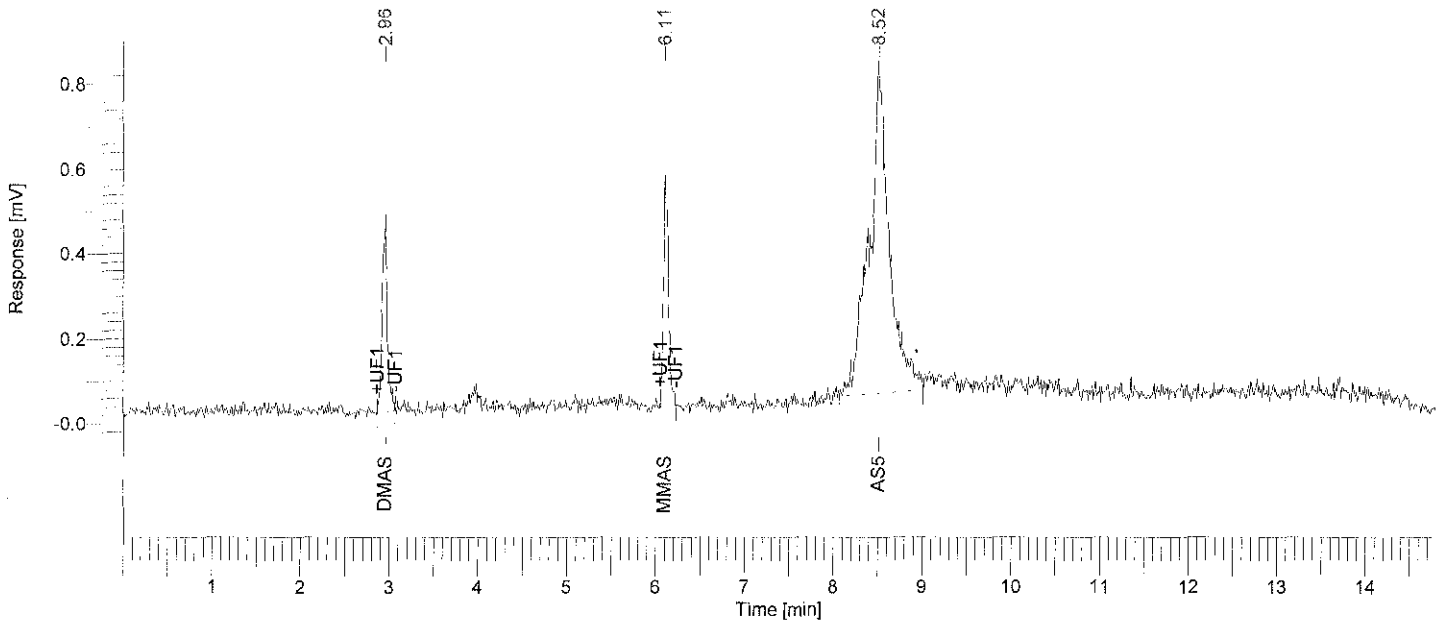
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	876.32	208.50	7.66	7.66	MM	0.0009	0.0009
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.118	808.01	237.10	7.06	7.06	MM	0.0008	0.0008
3	As5	8.527	9756.11	508.84	85.28	85.28	BB	0.0098	0.0098
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11440.44	954.44	100.00	100.00		0.0114	0.0114

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:13 PM
Sample Name	: 6103009	Data Acquisition Time	: 10/30/2006 4:32:56 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 9		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103009-061031-094058_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

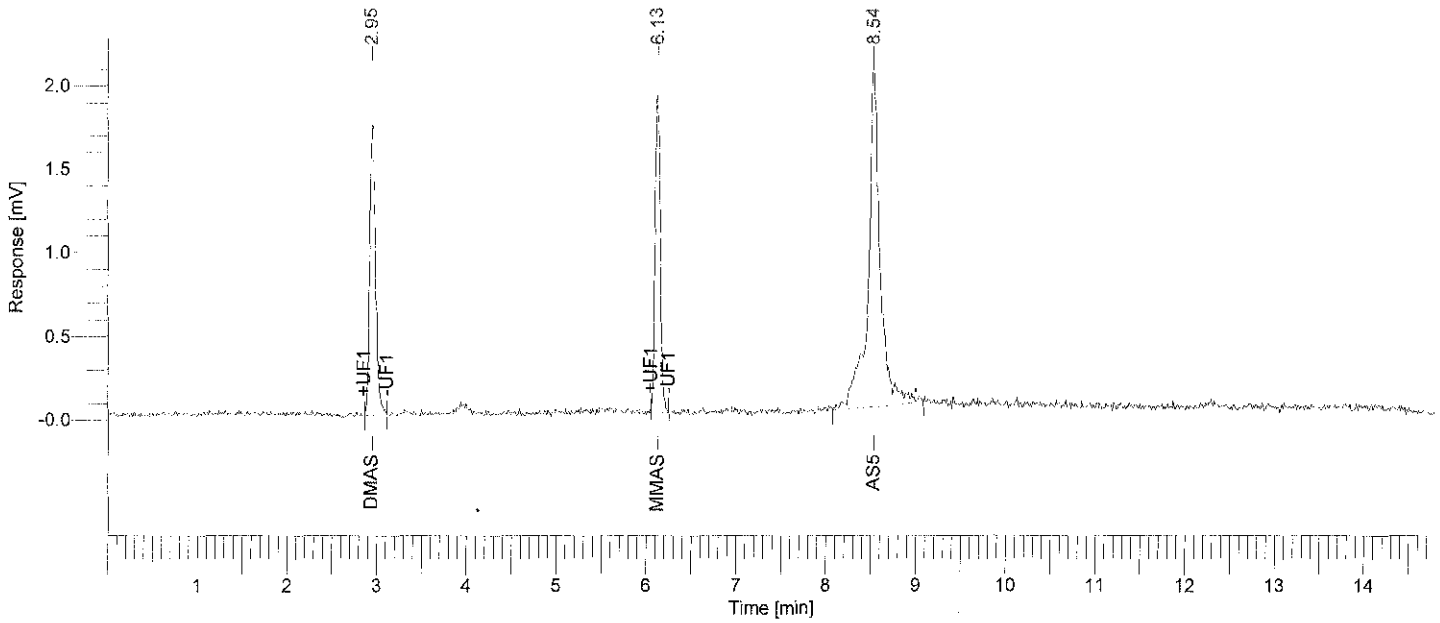
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.958	1892.36	467.82	11.68	11.68	MM	0.0019	0.0019
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.106	2093.94	557.00	12.92	12.92	MM	0.0021	0.0021
3	As5	8.515	12221.23	747.75	75.40	75.40	BB	0.0122	0.0122
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			16207.53	1772.57	100.00	100.00		0.0162	0.0162

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:21 PM
Sample Name	: 6103010	Data Acquisition Time	: 10/30/2006 4:48:07 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 10		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103010-061031-094104_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

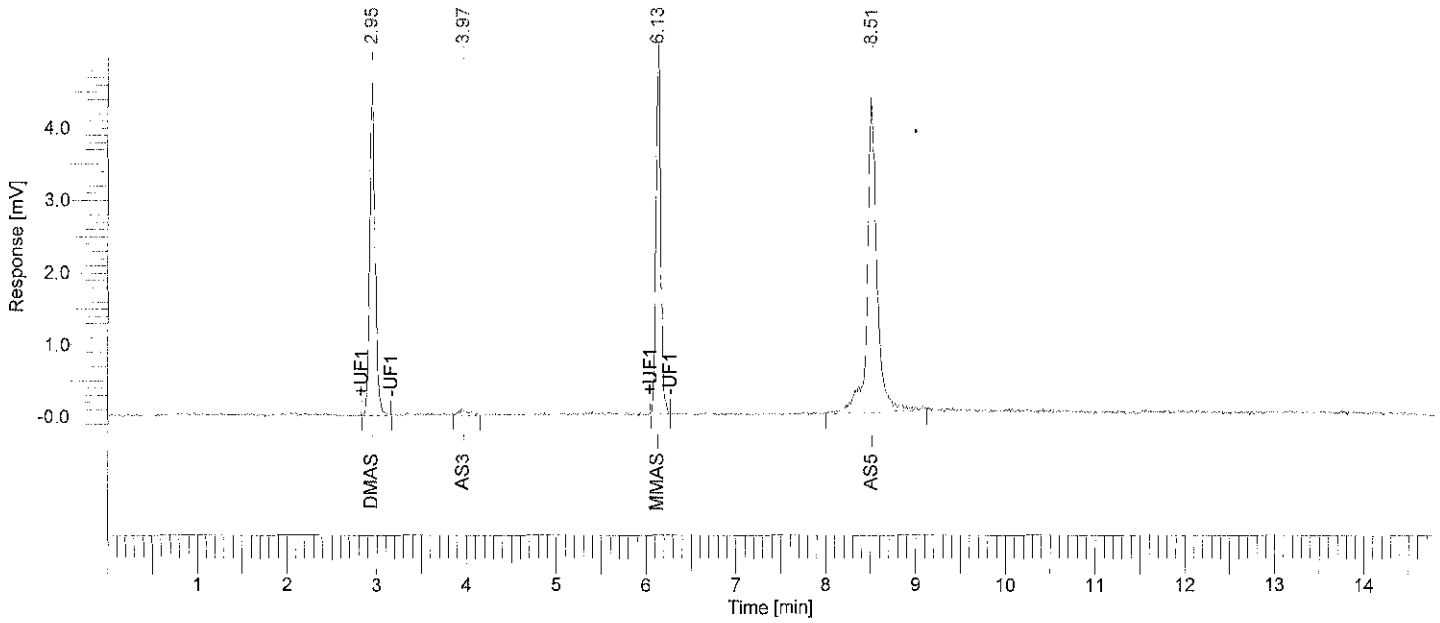
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	7946.99	1731.96	22.84	22.84	MM	0.0079	0.0079
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.130	7473.51	1900.85	21.48	21.48	MM	0.0075	0.0075
3	As5	8.536	19378.03	2056.86	55.69	55.69	BB	0.0194	0.0194
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			34798.54	5689.67	100.00	100.00		0.0348	0.0348

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:31 PM
Sample Name	: 6103011	Data Acquisition Time	: 10/30/2006 5:03:18 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 11		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103011-061031-094111_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

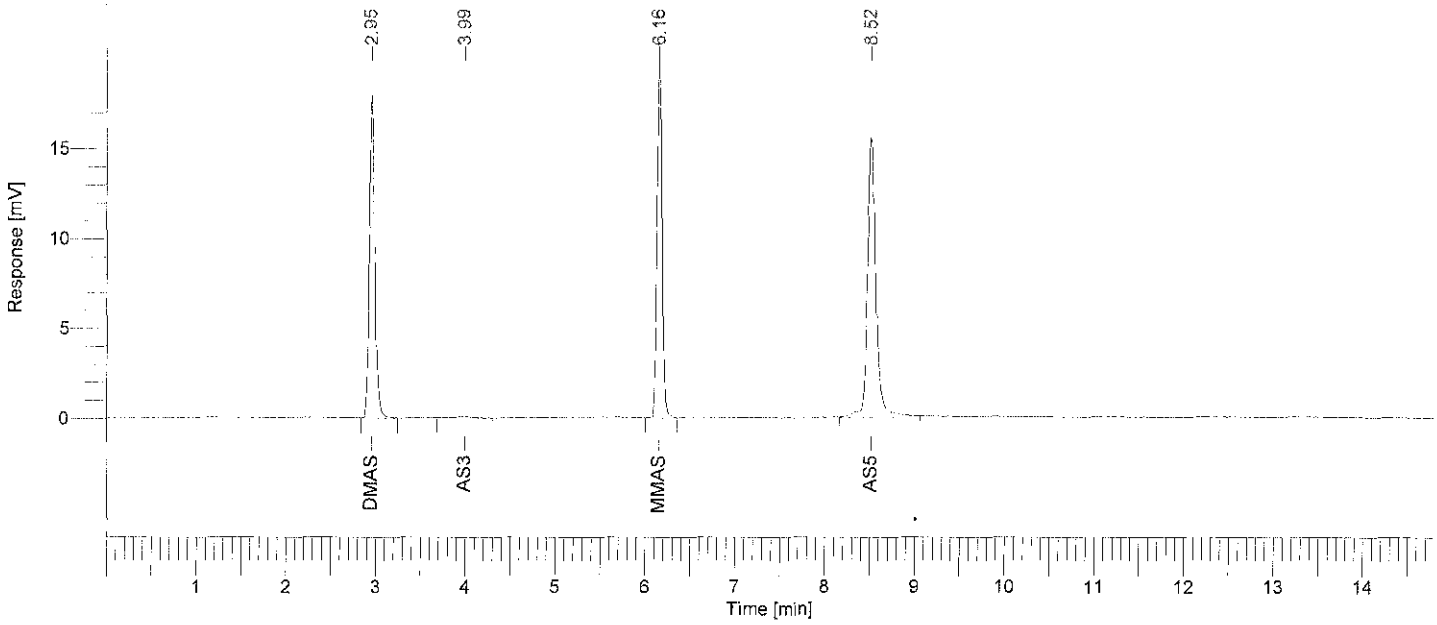
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	19506.23	4607.02	26.89	26.89	MM	0.0195	0.0195
2	As3	3.968	744.08	81.56	1.03	1.03	BB	0.0007	0.0007
3	MMAs	6.130	18732.48	4922.28	25.82	25.82	MM	0.0187	0.0187
4	As5	8.512	33570.93	4199.13	46.27	46.27	BB	0.0336	0.0336
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			72553.72	13809.99	100.00	100.00		0.0726	0.0726

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:40 PM
Sample Name	: 6103012	Data Acquisition Time	: 10/30/2006 5:18:29 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 12		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103012-061031-094117_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

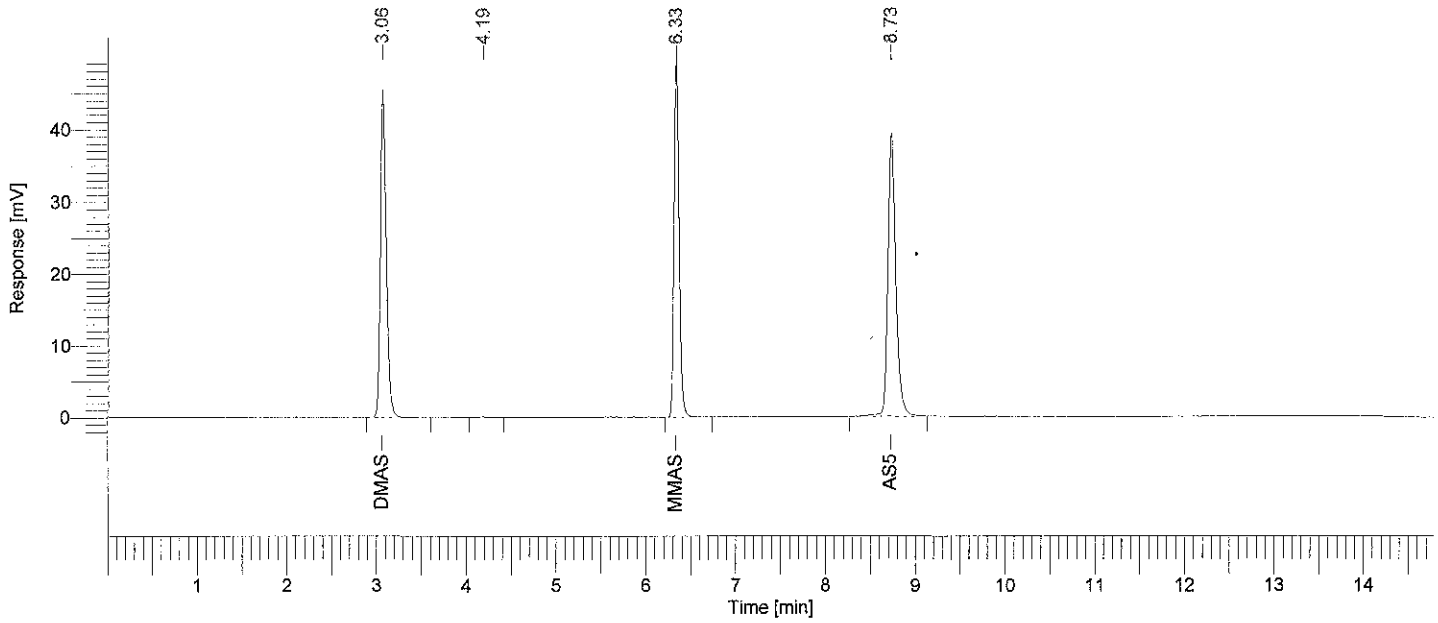
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.955	78701.37	17602.90	30.51	30.51	BB	0.0787	0.0787
2	As3	3.993	1246.76	98.90	0.48	0.48	BB	0.0012	0.0012
3	MMAs	6.156	76150.34	19725.64	29.52	29.52	BB	0.0762	0.0762
4	As5	8.517	101848.08	15622.18	39.48	39.48	BB	0.1018	0.1018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			257946.55	53049.61	100.00	100.00		0.2579	0.2579

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:16 PM
Sample Name	: 6103013	Data Acquisition Time	: 10/30/2006 5:33:40 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 13		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103013-061031-094124_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

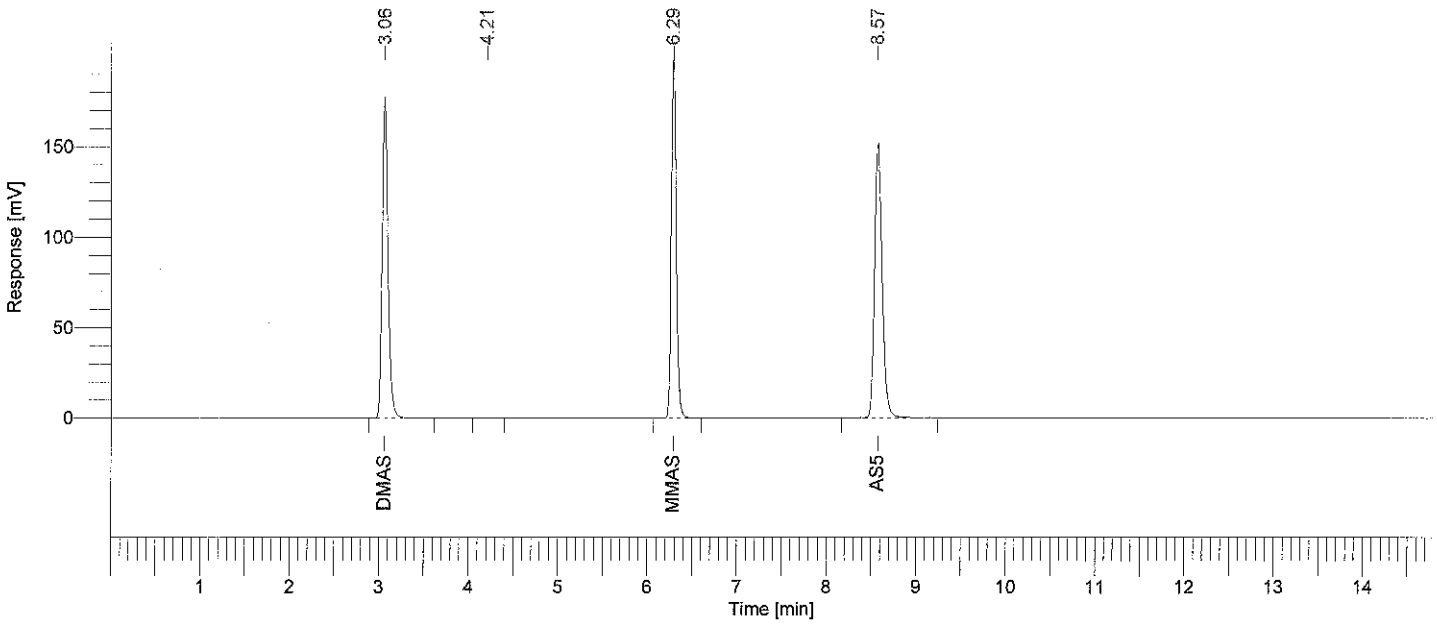
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	3.065	205410.10	44211.10	31.85	31.85	BB	0.2054	0.2054
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2		4.185	1180.02	129.74	0.18	0.18	BB	0.0012	0.0012
3	MMAs	6.330	196090.64	48563.04	30.41	30.41	BB	0.1961	0.1961
4	As5	8.727	242227.86	39342.50	37.56	37.56	BB	0.2422	0.2422
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			644908.62	132246.37	100.00	100.00		0.6449	0.6449

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:24 PM
Sample Name	: 6103014	Data Acquisition Time	: 10/30/2006 5:48:51 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 14		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103014-061031-094131_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

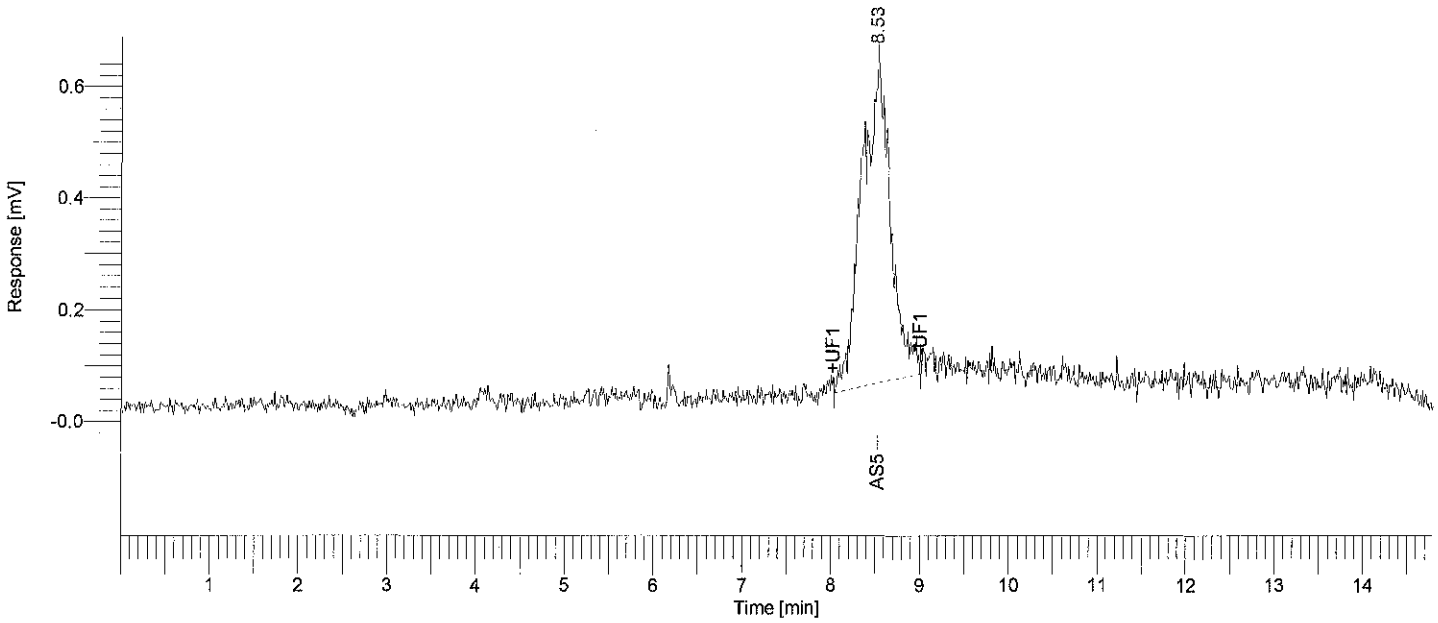
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	3.065	799127.01	174366.94	32.51	32.51	BB	0.7991	0.7991
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2		4.211	1539.99	134.01	0.06	0.06	BB	0.0015	0.0015
3	MMAs	6.288	757641.00	198521.53	30.83	30.83	BB	0.7576	0.7576
4	As5	8.574	899460.66	151820.40	36.60	36.60	BB	0.8995	0.8995
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			2457768.66	524842.88	100.00	100.00		2.4578	2.4578

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:35 PM
Sample Name	: 6103015	Data Acquisition Time	: 10/30/2006 6:04:02 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 15		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103015-061031-094137_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

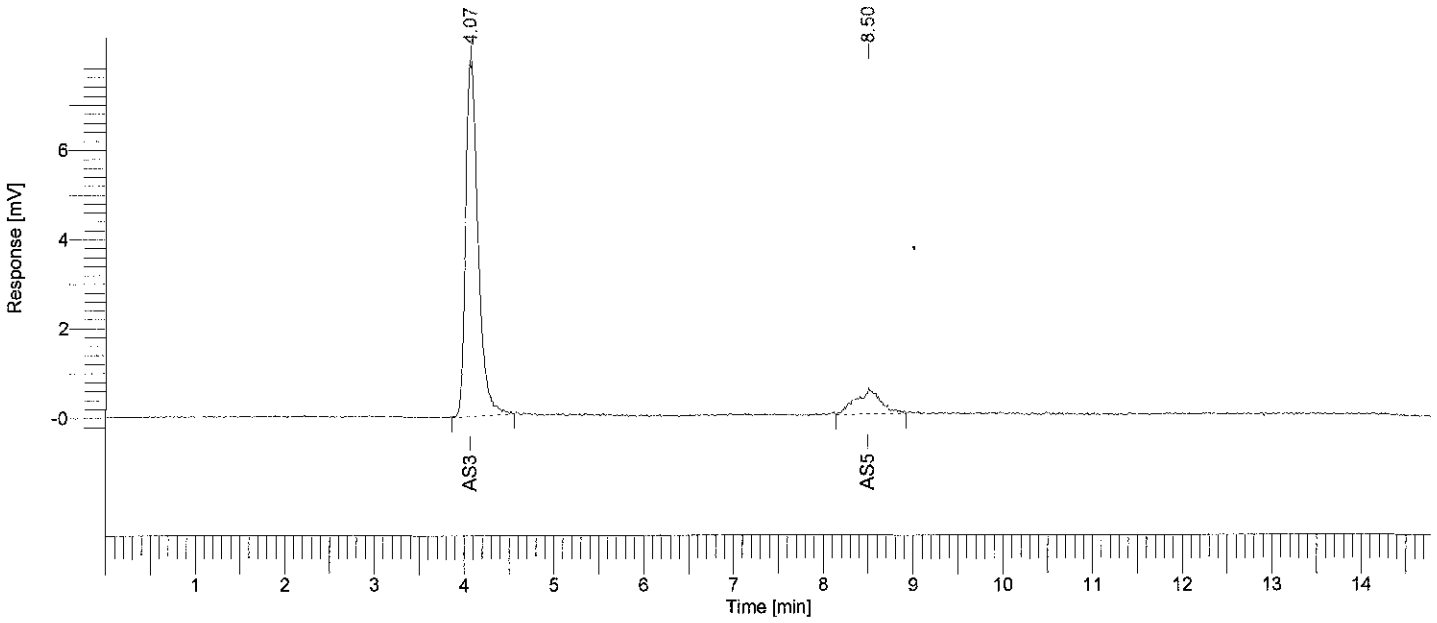
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.532	13072.58	577.94	100.00	100.00	MM	0.0131	0.0131
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			13072.58	577.94	100.00	100.00		0.0131	0.0131

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:43 PM
Sample Name	: 6103016	Data Acquisition Time	: 10/30/2006 6:19:13 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 16		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103016-061031-094144_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

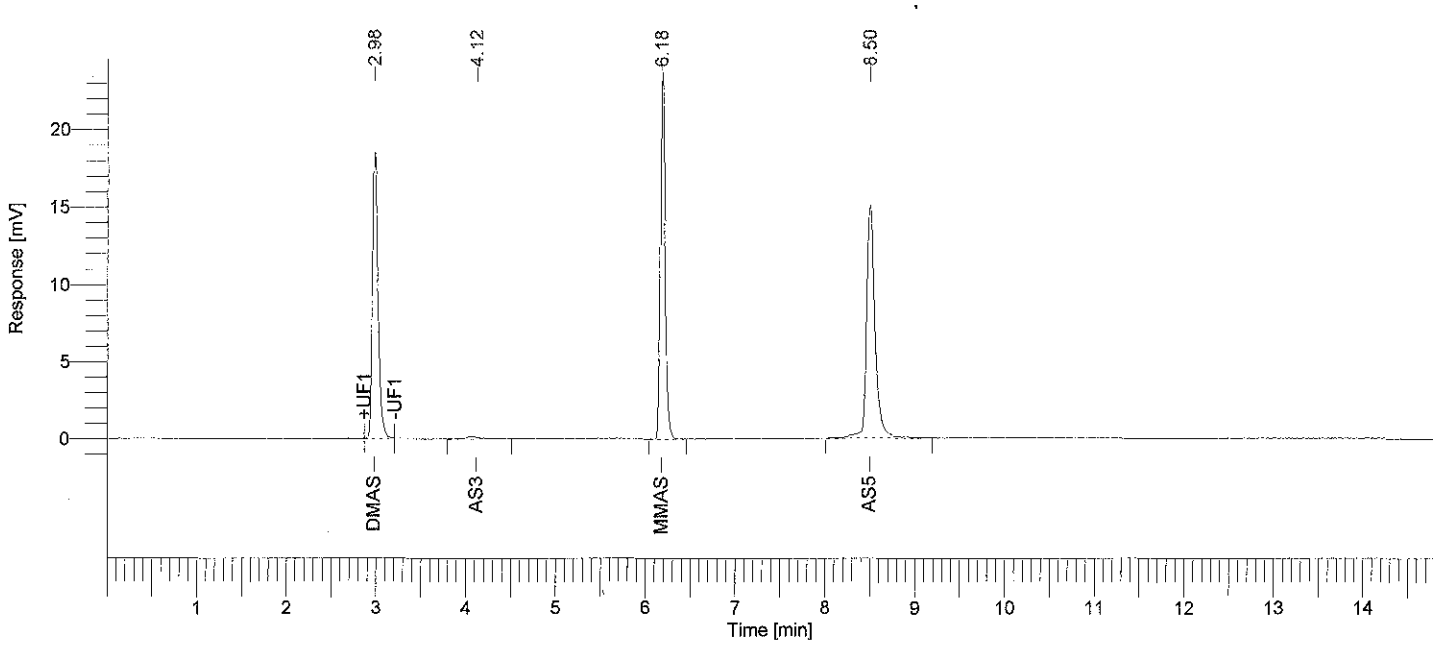
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.072	76080.76	7946.64	87.67	87.67	BB	0.0761	0.0761
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.502	10703.25	540.35	12.33	12.33	BB	0.0107	0.0107
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			86784.01	8486.99	100.00	100.00		0.0868	0.0868

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:52 PM
Sample Name	: 6103017	Data Acquisition Time	: 10/30/2006 6:34:24 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 17		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103017-061031-094151_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

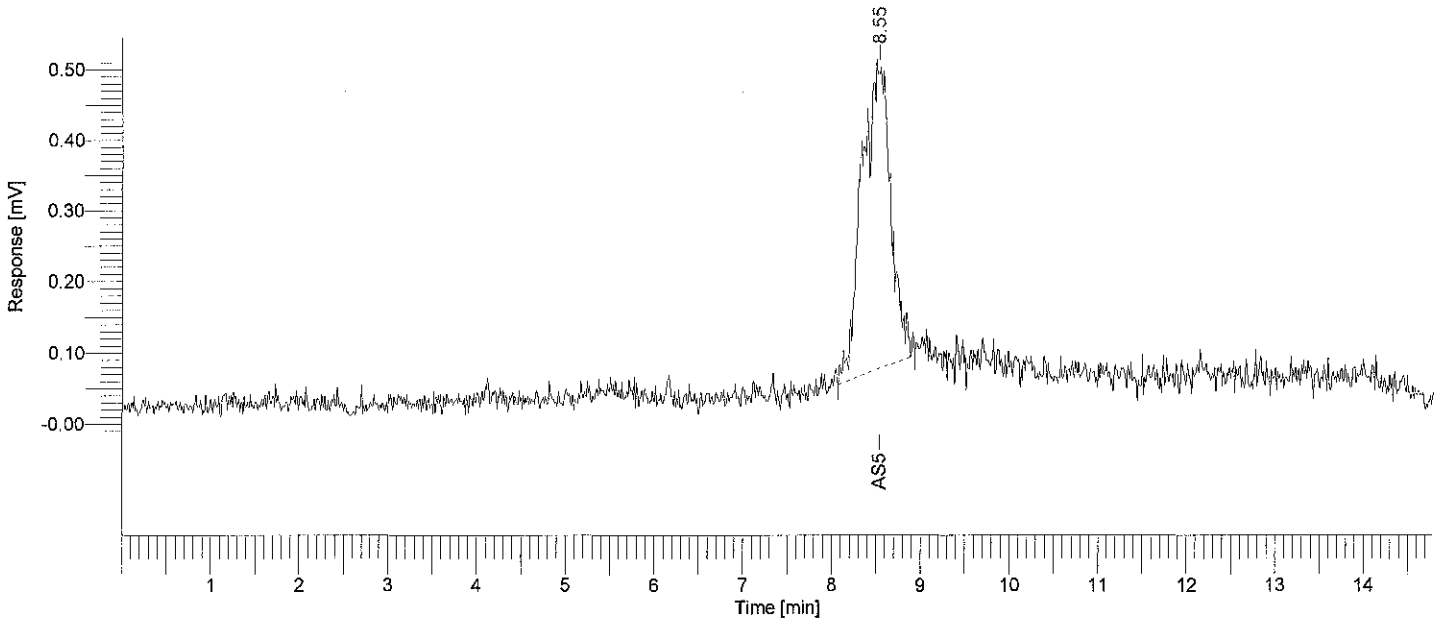
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.982	82555.63	18538.99	30.13	30.13	MM	0.0826	0.0826
2	As3	4.122	1999.36	111.43	0.73	0.73	BB	0.0020	0.0020
3	MMAs	6.182	88089.70	23435.20	32.15	32.15	BB	0.0881	0.0881
4	As5	8.502	101318.42	15229.68	36.98	36.98	BB	0.1013	0.1013
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			273963.11	57315.30	100.00	100.00		0.2740	0.2740

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:01 PM
Sample Name	: 6103018	Data Acquisition Time	: 10/30/2006 6:49:35 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 18		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103018-061031-094157_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

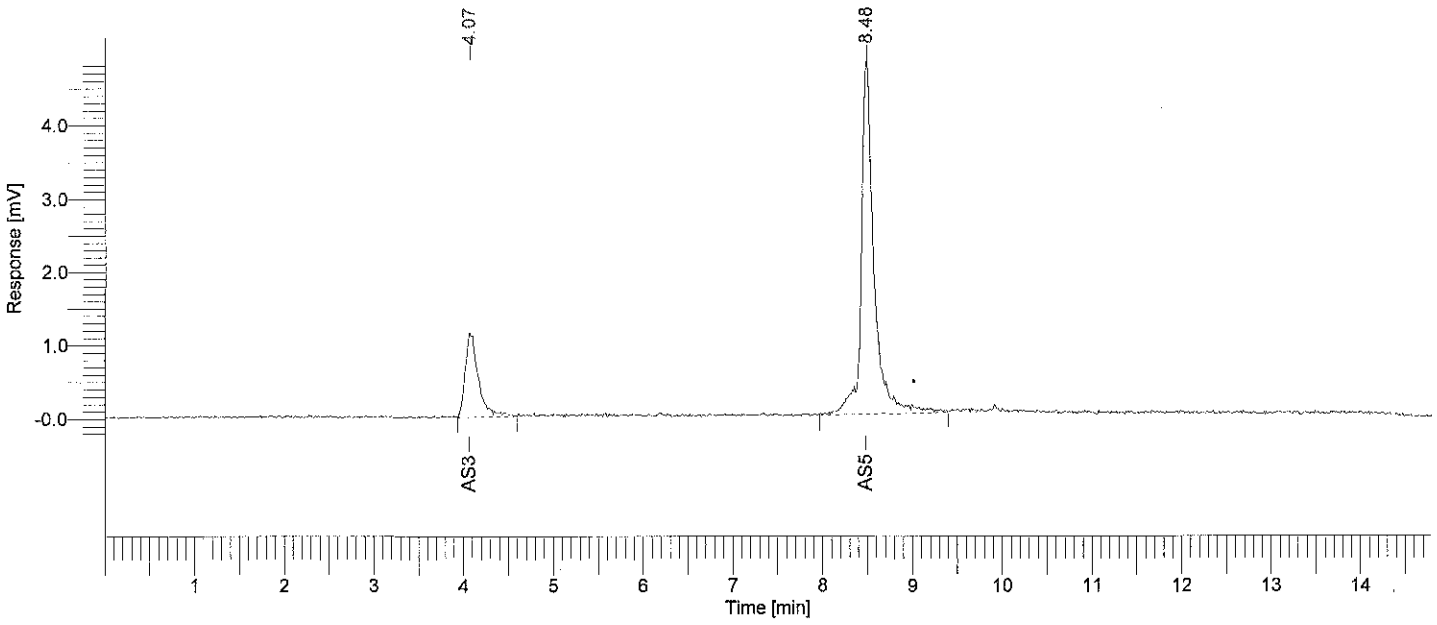
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.546	9802.26	420.40	100.00	100.00	BB	0.0098	0.0098
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9802.26	420.40	100.00	100.00		0.0098	0.0098

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:10 PM
Sample Name	: 6103019	Data Acquisition Time	: 10/30/2006 7:04:46 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 19		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103019-061031-094204_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

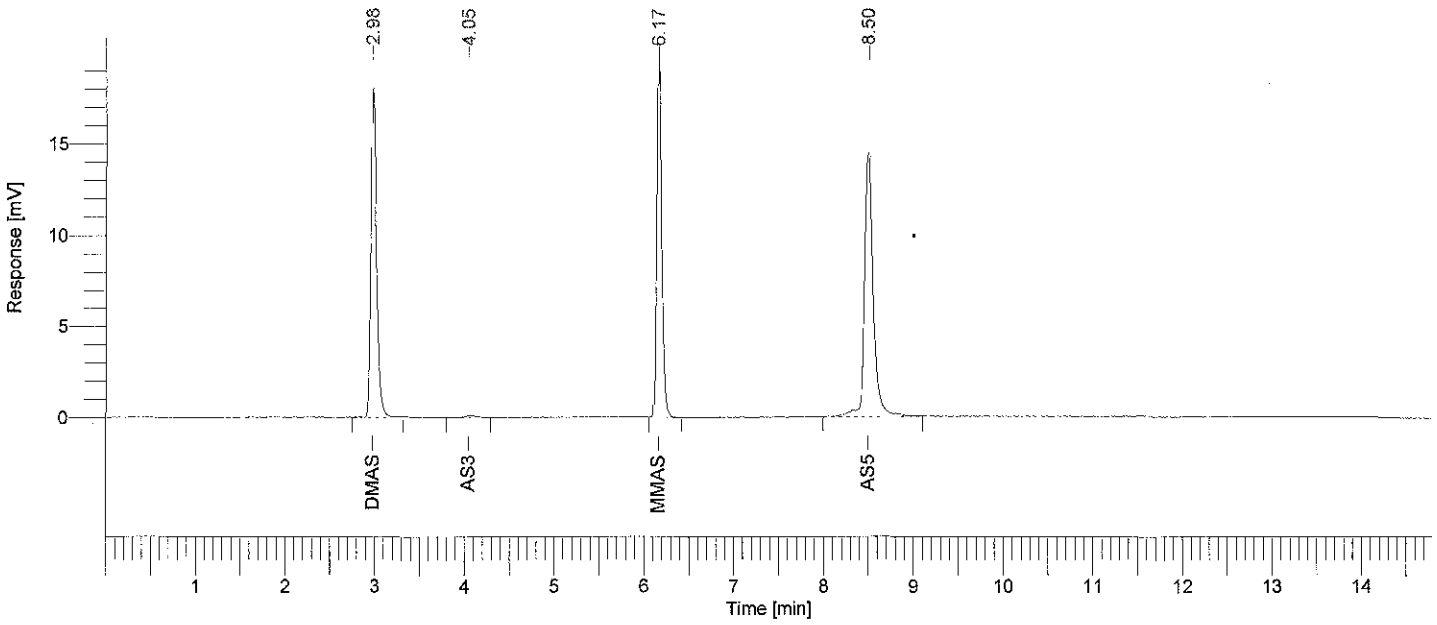
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.067	11690.15	1140.41	19.67	19.67	BB	0.0117	0.0117
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.484	47726.91	4805.41	80.33	80.33	BB	0.0477	0.0477
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			59417.06	5945.82	100.00	100.00		0.0594	0.0594

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:19 PM
Sample Name	: 6103020	Data Acquisition Time	: 10/30/2006 7:19:57 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 20		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103020-061031-094211_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

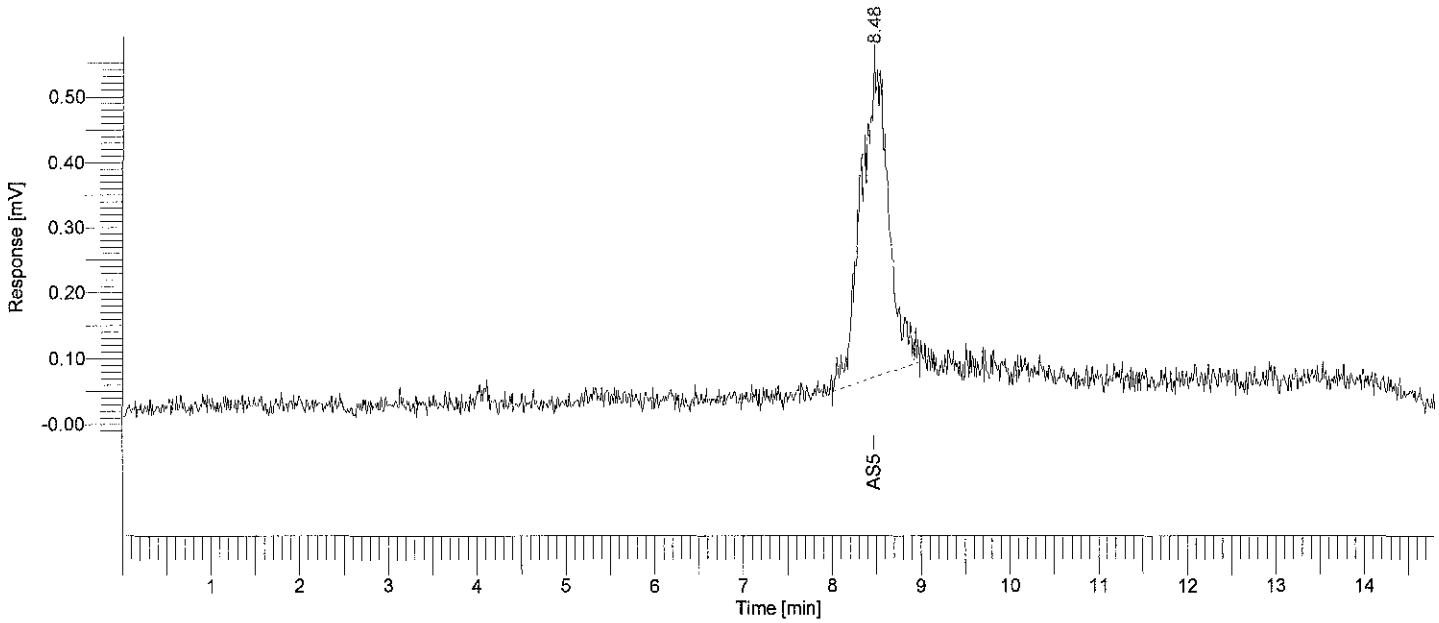
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.985	80232.13	17526.72	31.39	31.39	BB	0.0802	0.0802
2	As3	4.054	1243.92	119.20	0.49	0.49	BB	0.0012	0.0012
3	MMAs	6.166	74778.62	19504.54	29.26	29.26	BB	0.0748	0.0748
4	As5	8.502	99343.91	14558.85	38.87	38.87	BB	0.0993	0.0993
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			255598.58	51709.31	100.00	100.00		0.2556	0.2556

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:29 PM
Sample Name	: 6103021	Data Acquisition Time	: 10/30/2006 7:35:08 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 21		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103021-061031-094217_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

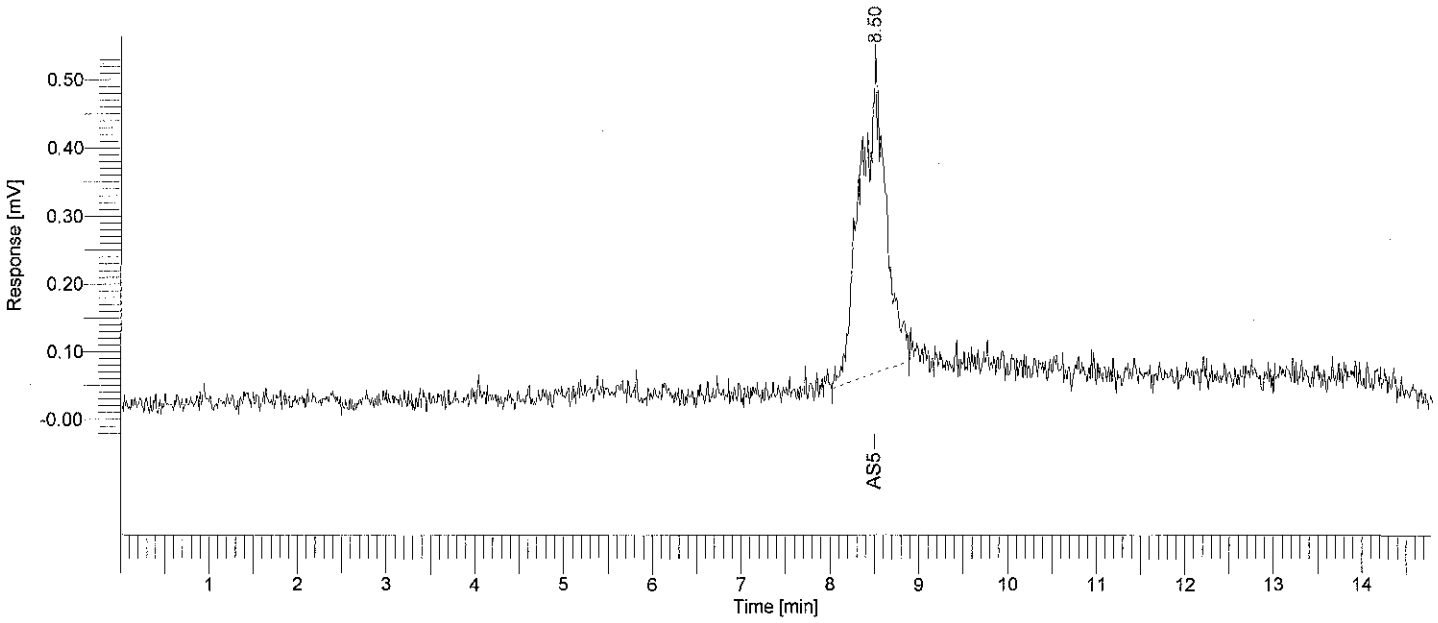
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.477	10614.50	467.66	100.00	100.00	BB	0.0106	0.0106
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10614.50	467.66	100.00	100.00		0.0106	0.0106

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:38 PM
Sample Name	: 6103022	Data Acquisition Time	: 10/30/2006 7:50:19 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 22		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103022-061031-094224_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

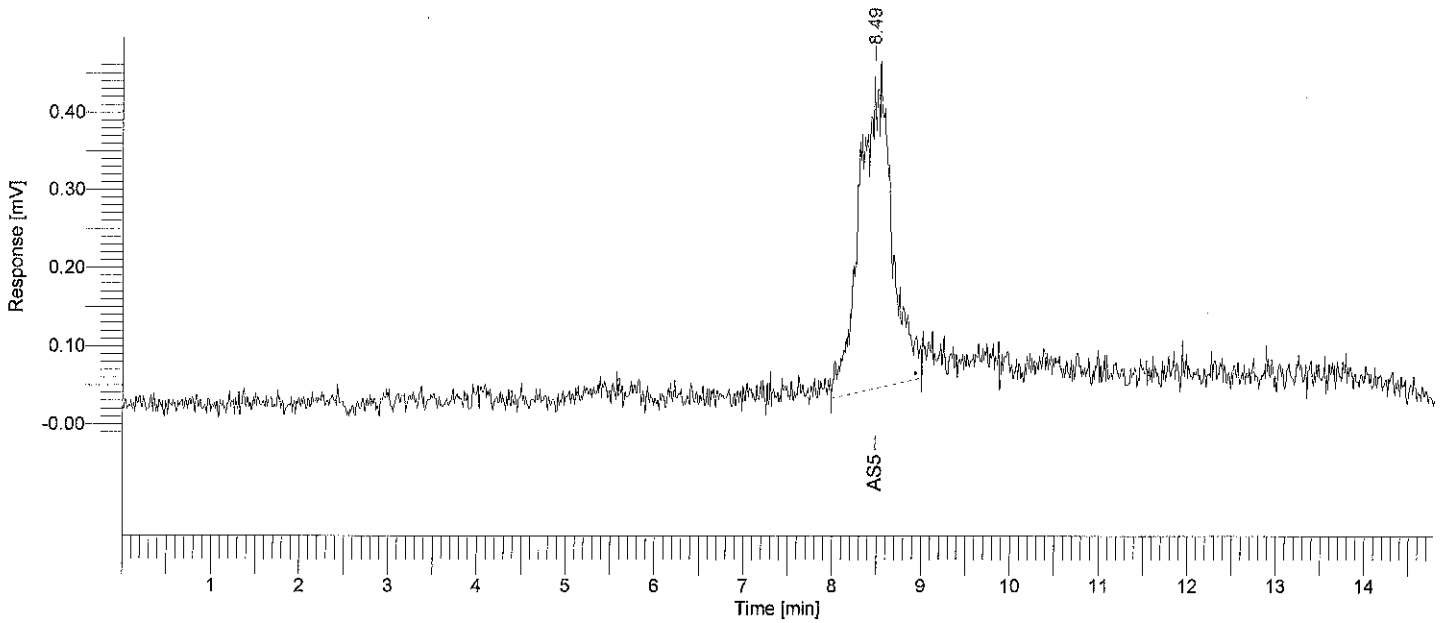
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.504	9386.91	444.04	100.00	100.00	BB	0.0094	0.0094
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9386.91	444.04	100.00	100.00		0.0094	0.0094

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:46 PM
Sample Name	: 6103023	Data Acquisition Time	: 10/30/2006 8:05:30 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 23		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103023-061031-094231_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

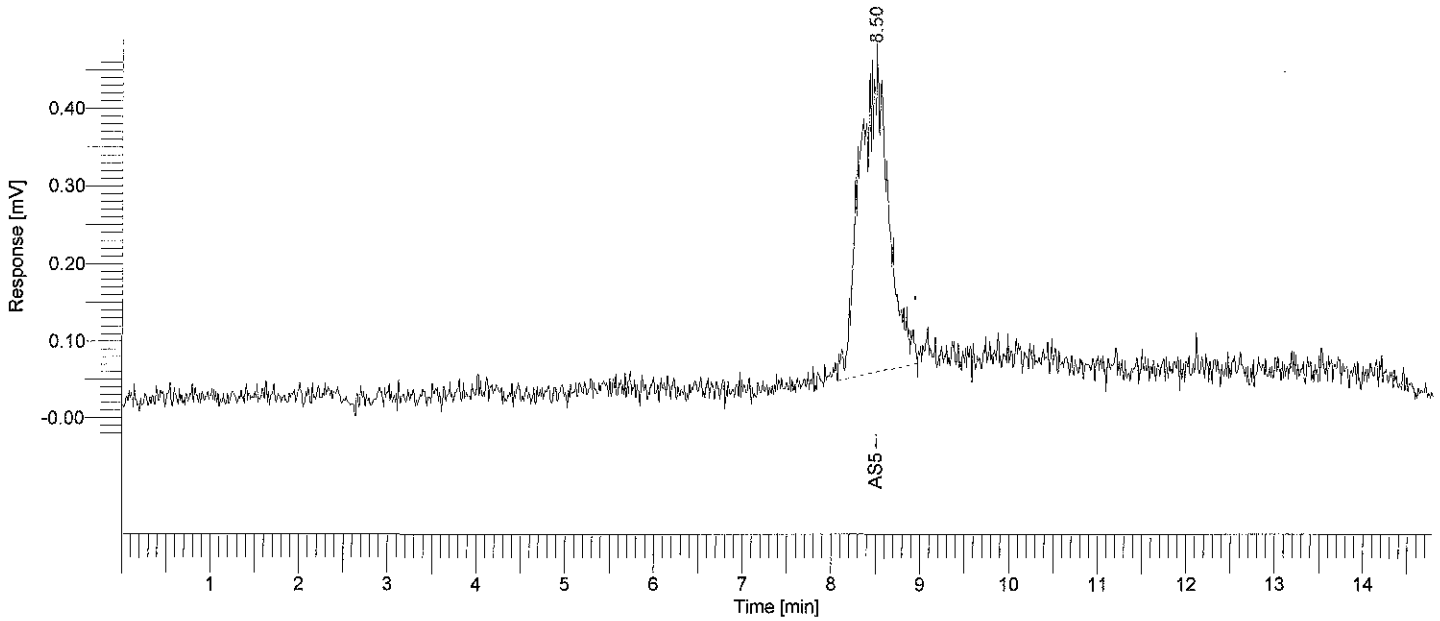
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.486	10274.41	348.94	100.00	100.00	BB	0.0103	0.0103
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10274.41	348.94	100.00	100.00		0.0103	0.0103

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:55 PM
Sample Name	: 6103024	Data Acquisition Time	: 10/30/2006 8:20:41 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 24		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103024-061031-094237_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

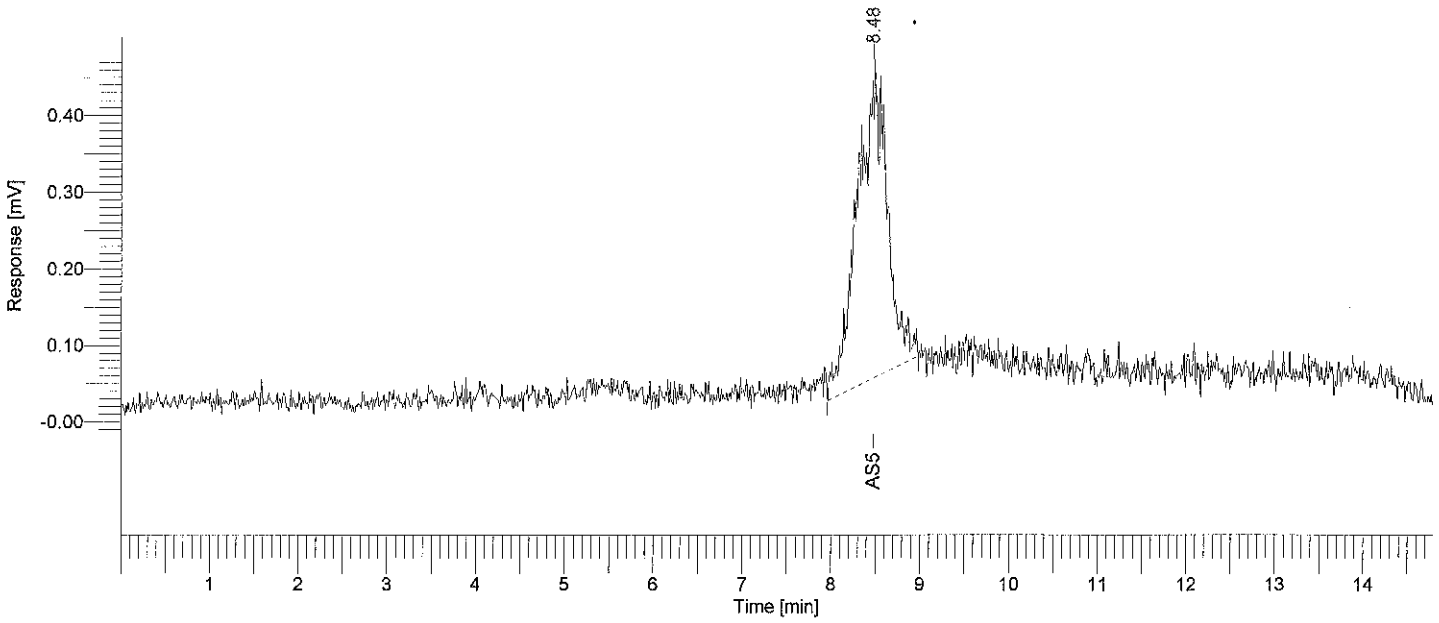
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.505	9315.20	381.61	100.00	100.00	BB	0.0093	0.0093
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9315.20	381.61	100.00	100.00		0.0093	0.0093

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:04 PM
Sample Name	: 6103025	Data Acquisition Time	: 10/30/2006 8:35:52 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 25		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103025-061031-094244_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

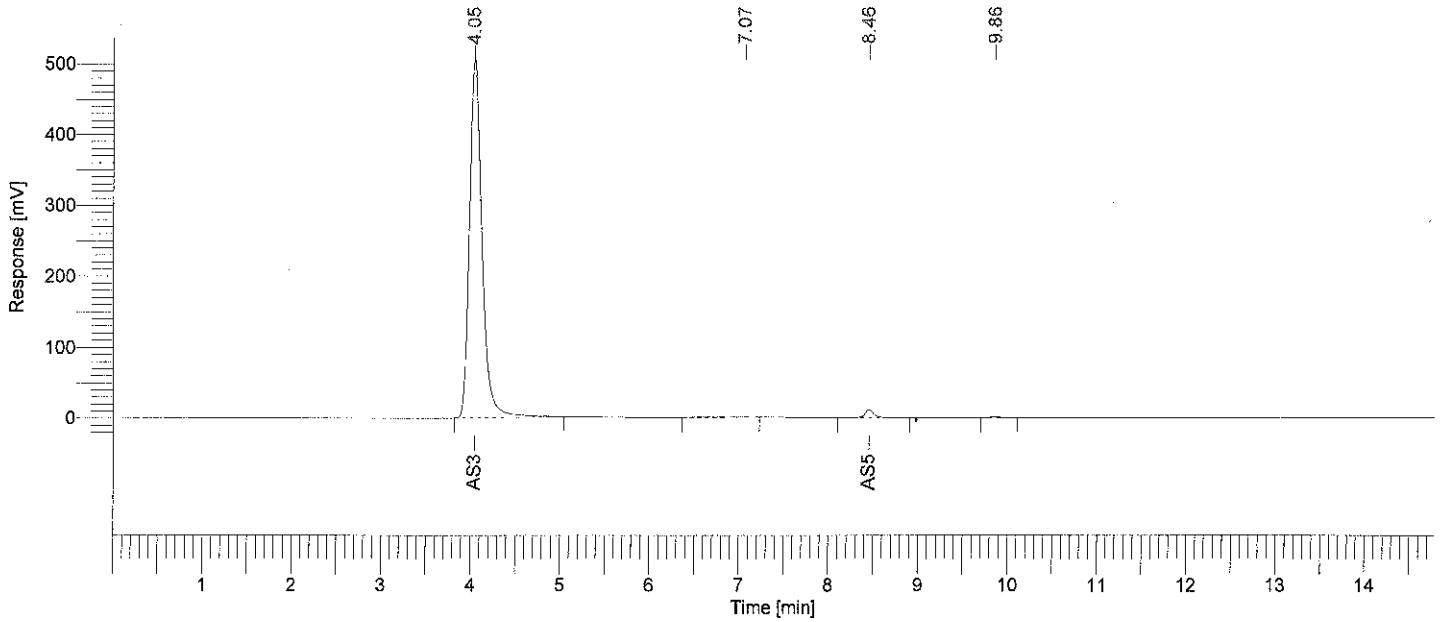
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.483	9567.25	376.12	100.00	100.00	BB	0.0096	0.0096
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9567.25	376.12	100.00	100.00		0.0096	0.0096

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:15 PM
Sample Name	: 6103026	Data Acquisition Time	: 10/30/2006 8:51:03 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 26		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103026-061031-094250_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.050	4916741.48	507554.32	97.95	97.95	BB	4.9167	4.9167
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		7.073	17136.56	298.75	0.34	0.34	BB	0.0171	0.0171
3	As5	8.455	79306.29	11440.13	1.58	1.58	BB	0.0793	0.0793
4		9.864	6392.13	1005.14	0.13	0.13	BB	0.0064	0.0064
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5019576.46	520298.34	100.00	100.00		5.0196	5.0196

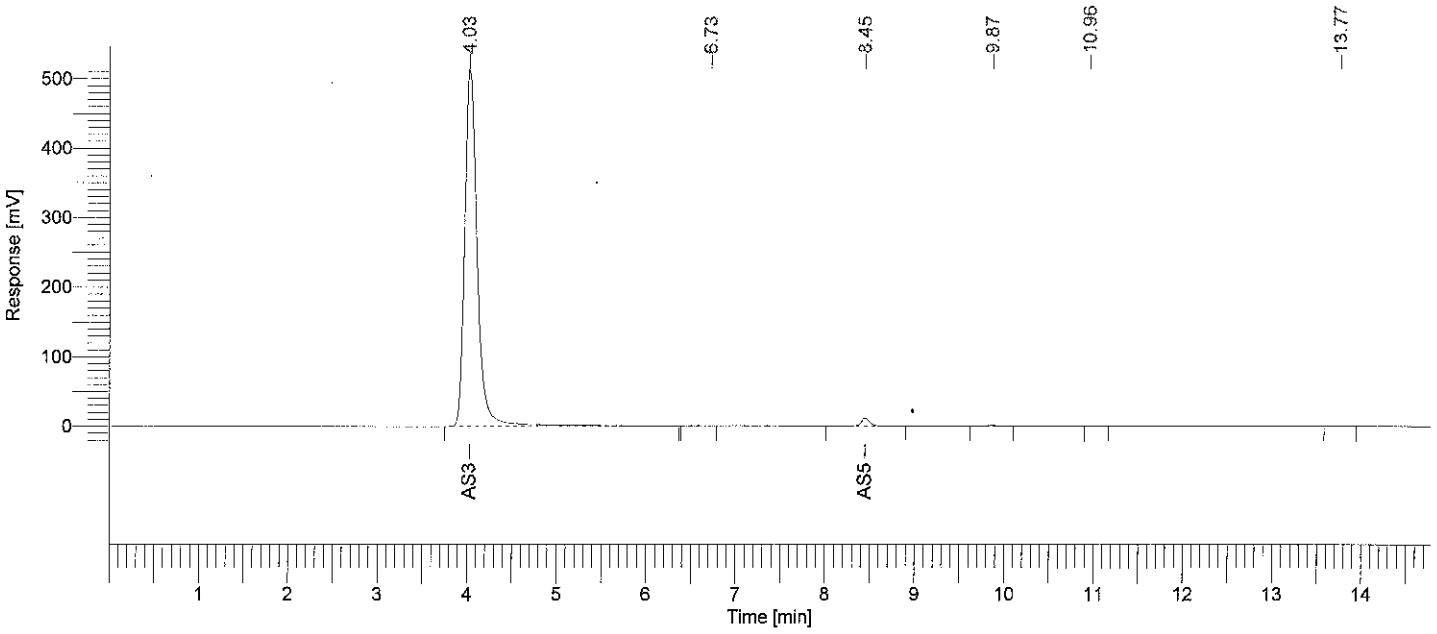
11/9/2006 4:38:15 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103026-061031-094250_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:23 PM
Sample Name	: 6103027	Data Acquisition Time	: 10/30/2006 9:06:14 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 27		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103027-061031-094257_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.032	5034444.57	516985.98	98.11	98.11	BB	5.0344	5.0344
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		6.730	4804.57	218.04	0.09	0.09	BB	0.0048	0.0048
3	As5	8.451	83934.78	11807.18	1.64	1.64	BB	0.0839	0.0839
4		9.873	7061.66	1110.07	0.14	0.14	BB	0.0071	0.0071
5		10.960	684.44	78.22	0.01	0.01	BB	0.0007	0.0007
6		13.770	735.56	56.46	0.01	0.01	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5131665.58	530255.94	100.00	100.00		5.1317	5.1317

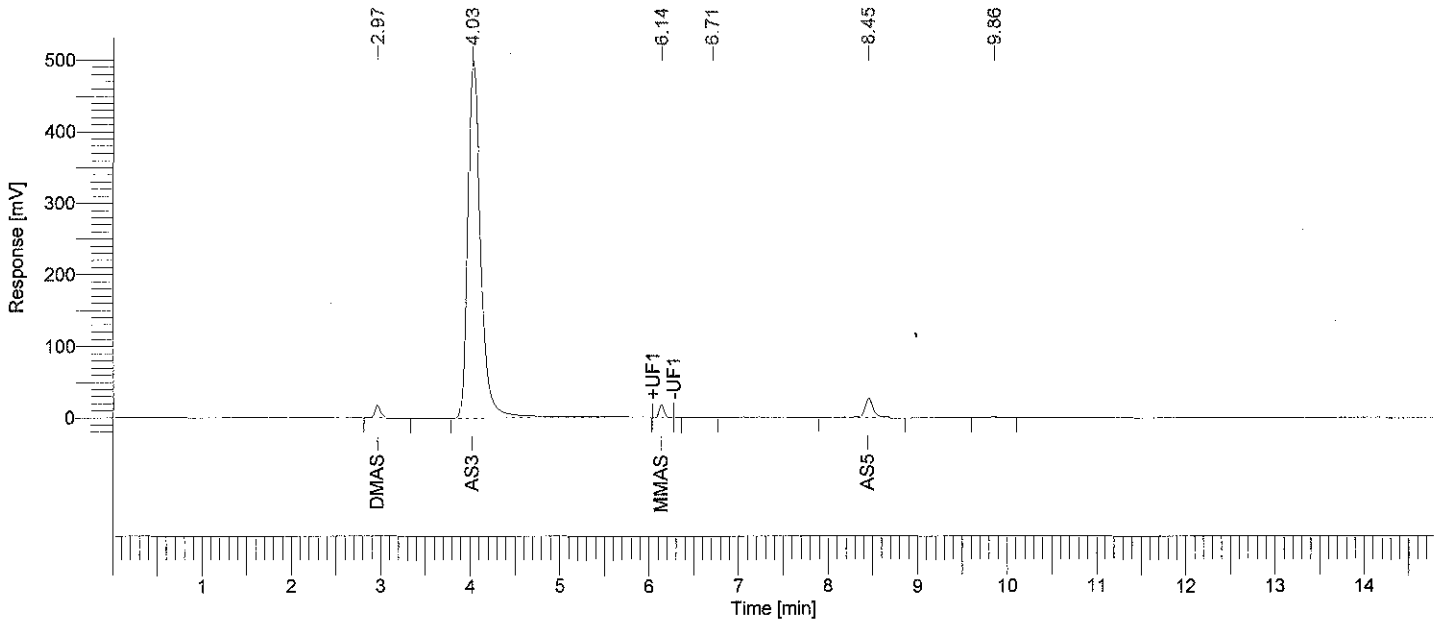
11/9/2006 4:38:23 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103027-061031-094257_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:31 PM
Sample Name	: 6103028	Data Acquisition Time	: 10/30/2006 9:21:25 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 28		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103028-061031-094303_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

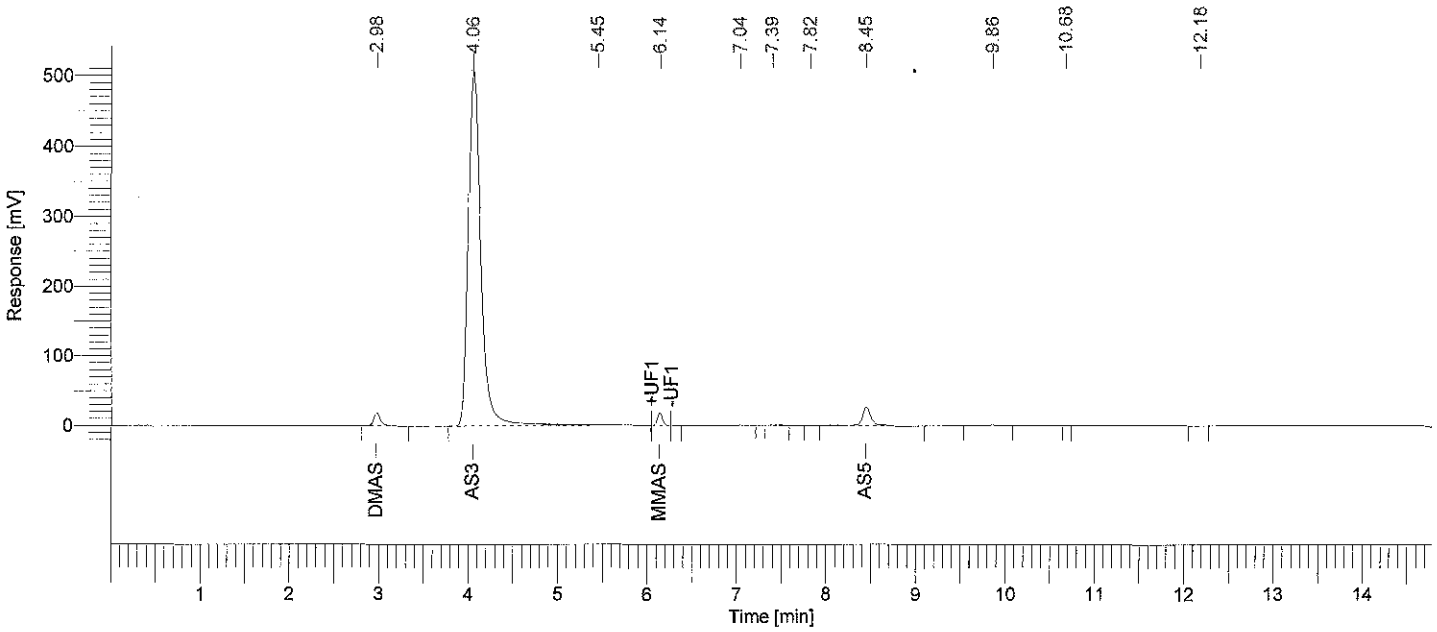
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.971	79297.06	17846.32	1.48	1.48	BB	0.0793	0.0793
2	As3	4.032	5030405.38	498871.17	93.74	93.74	BB	5.0304	5.0304
3	MMAs	6.141	74467.69	18714.52	1.39	1.39	MM	0.0745	0.0745
4		6.707	5419.43	209.94	0.10	0.10	BB	0.0054	0.0054
5	As5	8.451	170401.42	26971.99	3.18	3.18	BB	0.1704	0.1704
6		9.857	6599.45	1001.15	0.12	0.12	BB	0.0066	0.0066
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5366590.43	563615.10	100.00	100.00		5.3666	5.3666

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:40 PM
Sample Name	: 6103029	Data Acquisition Time	: 10/30/2006 9:36:36 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 29		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103029-061031-094310_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.979	79359.54	17451.48	1.47	1.47	BB	0.0794	0.0794
2	As3	4.056	4975854.66	506661.72	92.45	92.45	BE	4.9759	4.9759
3		5.448	53034.87	876.55	0.99	0.99	EB	0.0530	0.0530
4	MMAs	6.141	74816.16	18384.29	1.39	1.39	MM	0.0748	0.0748
5		7.040	14577.72	281.33	0.27	0.27	BB	0.0146	0.0146
6		7.395	4555.36	310.75	0.08	0.08	BB	0.0046	0.0046
7		7.821	601.55	77.78	0.01	0.01	BV	0.0006	0.0006
8	As5	8.445	171418.67	26235.75	3.18	3.18	VB	0.1714	0.1714
9		9.858	7278.21	1040.81	0.14	0.14	BB	0.0073	0.0073
10		10.676	205.19	74.64	0.00	0.00	BB	0.0002	0.0002
11		12.184	437.36	59.26	0.01	0.01	BB	0.0004	0.0004
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5382139.29	571454.37	100.00	100.00		5.3821	5.3821

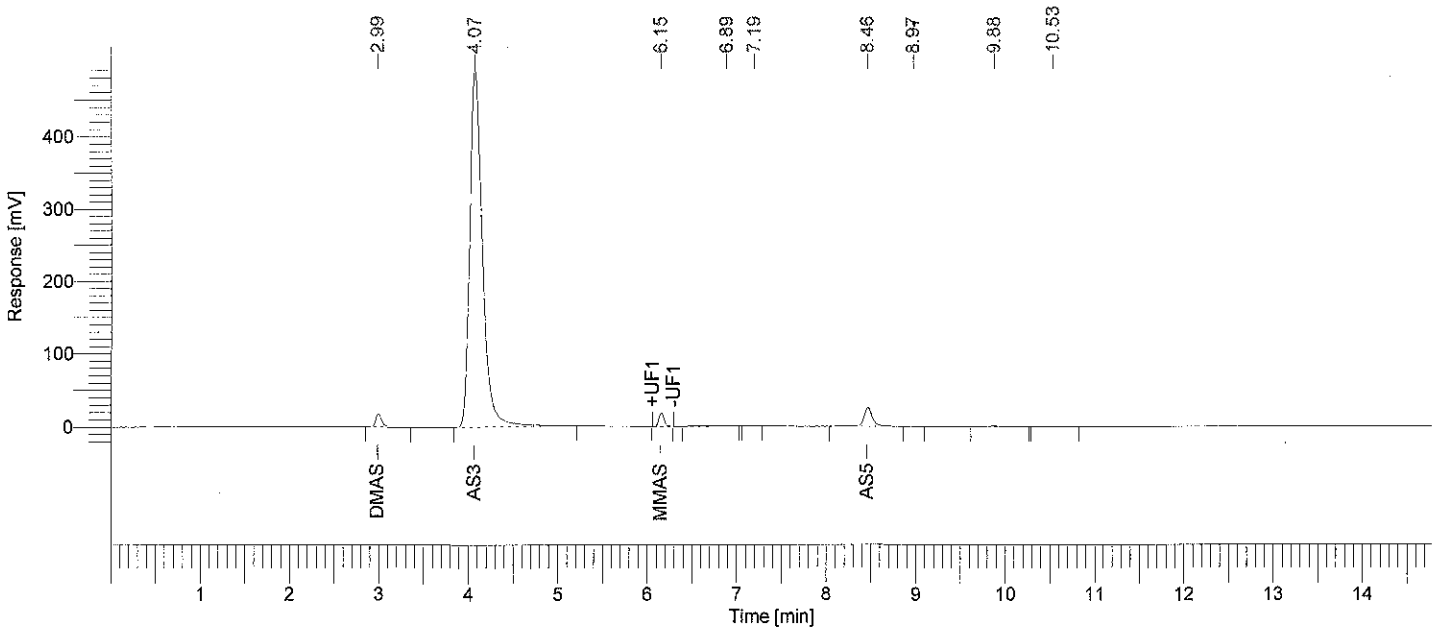
11/9/2006 4:38:40 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103029-061031-094310_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:49 PM
Sample Name	: 6103030	Data Acquisition Time	: 10/30/2006 9:51:47 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 30		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103030-061031-094317_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.990	81402.92	17850.55	1.57	1.57	BB	0.0814	0.0814
2	As3	4.073	4831564.91	492658.91	93.26	93.26	BB	4.8316	4.8316
3	MMAs	6.153	75693.56	18832.65	1.46	1.46	MM	0.0757	0.0757
4		6.889	13986.95	438.53	0.27	0.27	BV	0.0140	0.0140
5		7.194	2608.73	251.81	0.05	0.05	VB	0.0026	0.0026
6	As5	8.462	165483.25	25502.28	3.19	3.19	BB	0.1655	0.1655
7		8.970	597.11	16.80	0.01	0.01	BB	0.0006	0.0006
8		9.877	7720.54	1024.56	0.15	0.15	BB	0.0077	0.0077
9		10.532	1437.04	29.63	0.03	0.03	BB	0.0014	0.0014
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5180495.01	556605.72	100.00	100.00		5.1805	5.1805

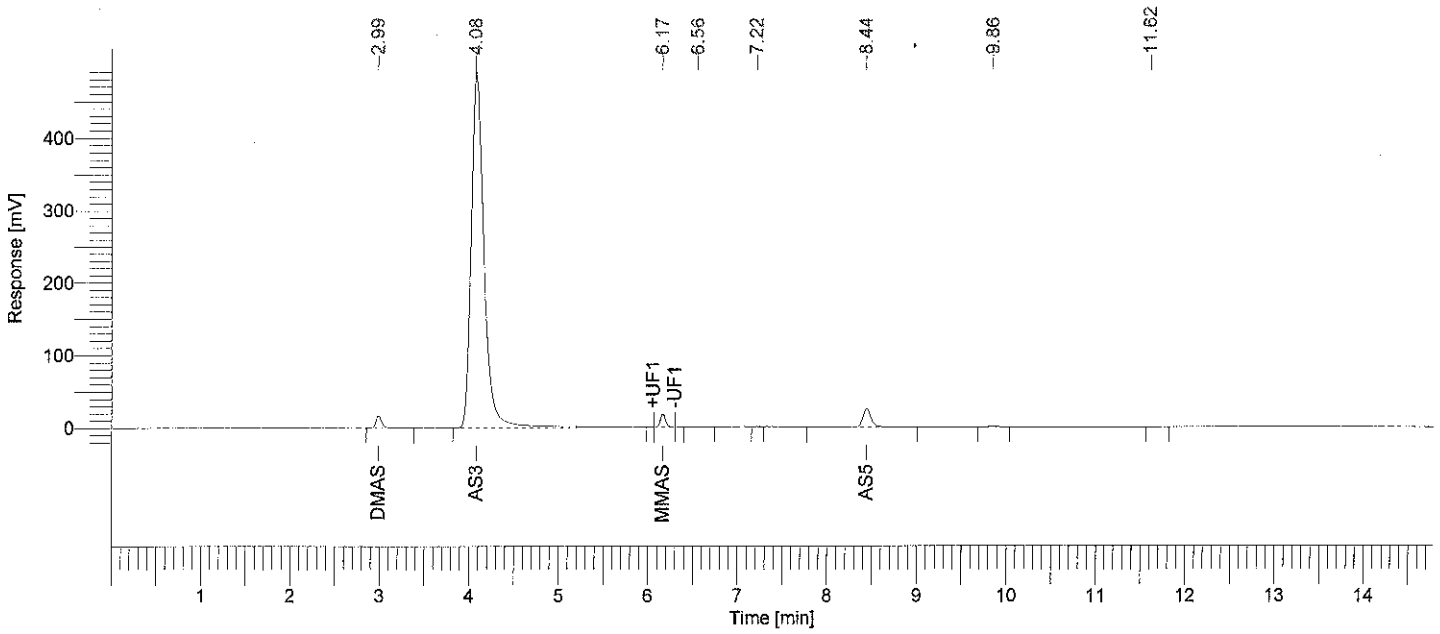
11/9/2006 4:38:49 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103030-061031-094317_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:59 PM
Sample Name	: 6103031	Data Acquisition Time	: 10/30/2006 10:06:58 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 31		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103031-061031-094324_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

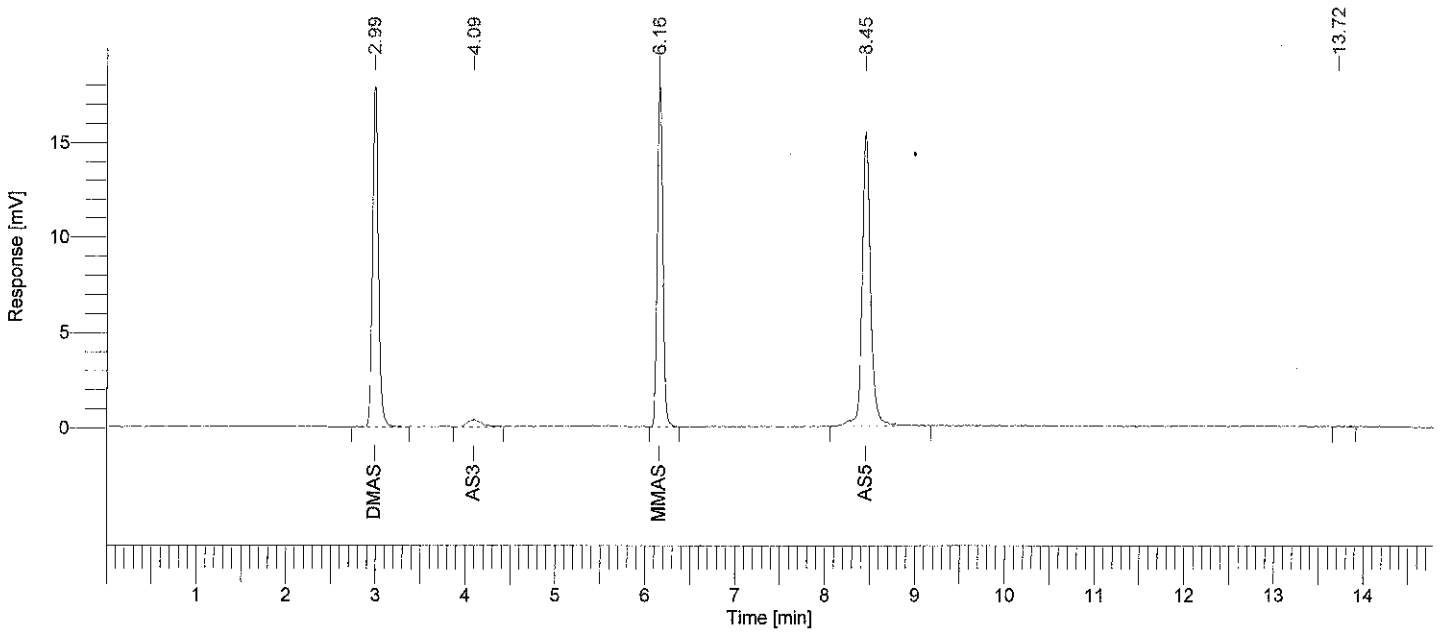
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.991	79348.18	16913.37	1.52	1.52	BB	0.0793	0.0793
2	As3	4.085	4901515.53	486496.88	93.59	93.59	BB	4.9015	4.9015
3	MMAs	6.165	74892.96	18286.71	1.43	1.43	MM	0.0749	0.0749
4		6.564	3346.94	233.55	0.06	0.06	BB	0.0033	0.0033
5		7.220	630.48	133.90	0.01	0.01	BB	0.0006	0.0006
6	As5	8.444	170453.96	25812.20	3.25	3.25	BB	0.1705	0.1705
7		9.856	6430.47	972.24	0.12	0.12	BB	0.0064	0.0064
8		11.621	697.93	76.24	0.01	0.01	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5237316.45	548925.09	100.00	100.00		5.2373	5.2373

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:09 PM
Sample Name	: 6103032	Data Acquisition Time	: 10/30/2006 10:22:09 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 32		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103032-061031-094331_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

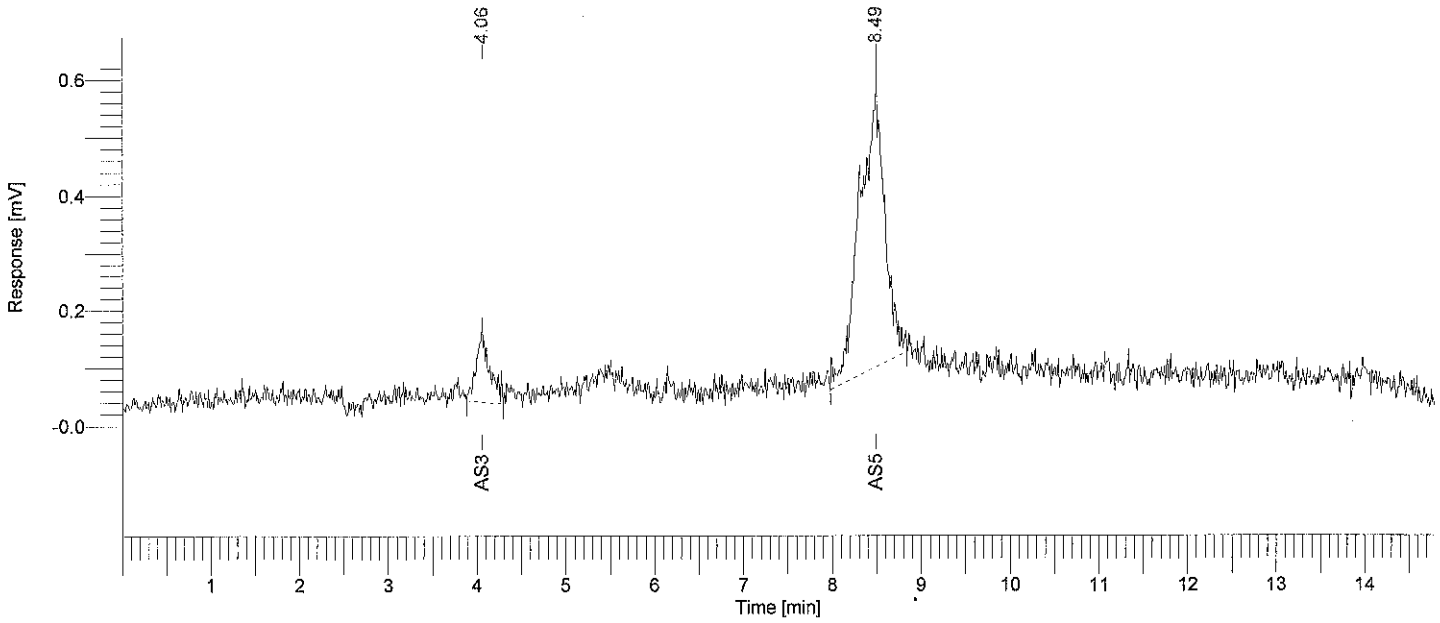
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.990	80776.70	17811.27	30.46	30.46	BB	0.0808	0.0808
2	As3	4.093	4352.30	393.20	1.64	1.64	BB	0.0044	0.0044
3	MMAs	6.157	76530.19	18588.28	28.86	28.86	BB	0.0765	0.0765
4	As5	8.454	103040.88	15355.11	38.86	38.86	BB	0.1030	0.1030
5		13.721	464.34	50.66	0.18	0.18	BB	0.0005	0.0005
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			265164.41	52198.52	100.00	100.00		0.2652	0.2652

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:17 PM
Sample Name	: 6103033	Data Acquisition Time	: 10/30/2006 10:37:20 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 33		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103033-061031-094337_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

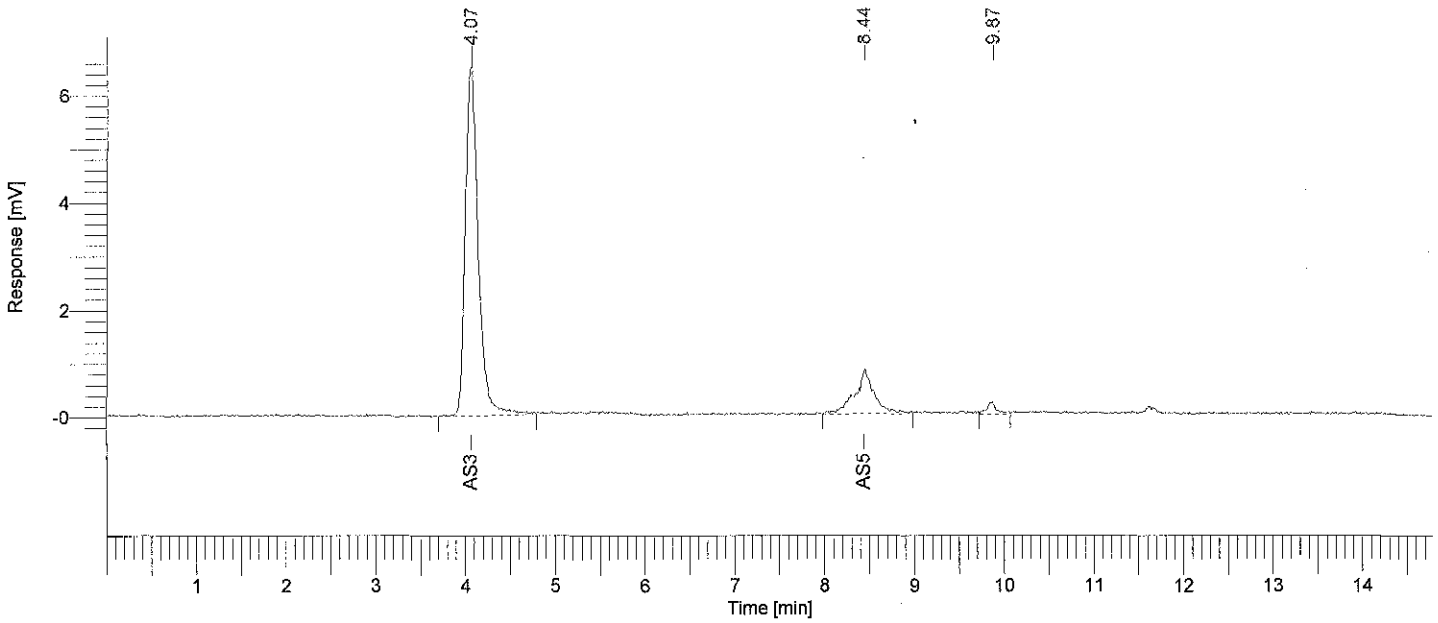
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.058	1329.12	121.40	12.18	12.18	BB	0.0013	0.0013
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.492	9582.16	475.26	87.82	87.82	BB	0.0096	0.0096
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10911.28	596.67	100.00	100.00		0.0109	0.0109

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:25 PM
Sample Name	: 6103034	Data Acquisition Time	: 10/30/2006 10:52:31 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 34		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103034-061031-094344_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.066	65653.70	6603.78	81.97	81.97	BB	0.0657	0.0657
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.442	12640.84	824.40	15.78	15.78	BB	0.0126	0.0126
3		9.873	1804.82	232.81	2.25	2.25	BB	0.0018	0.0018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			80099.36	7660.99	100.00	100.00		0.0801	0.0801

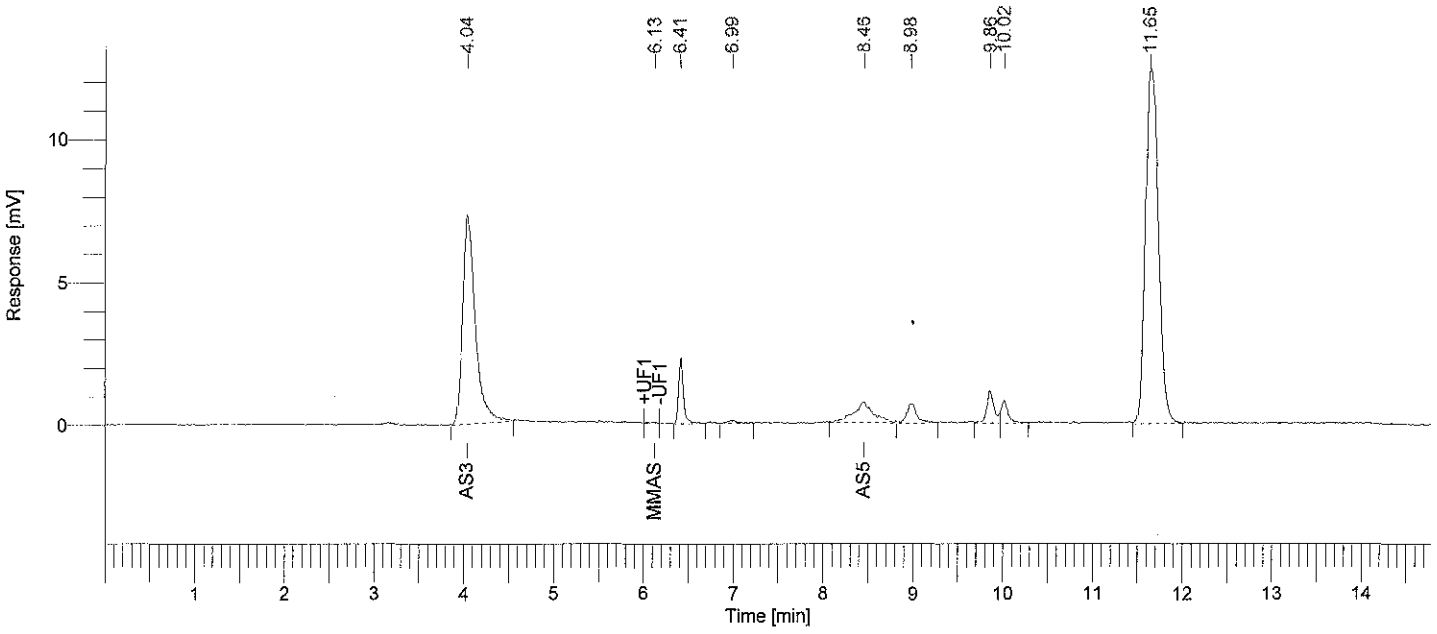
11/9/2006 4:39:25 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103034-061031-094344_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:33 PM
Sample Name	: 6103035	Data Acquisition Time	: 10/30/2006 11:07:42 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 35		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103035-061031-094350_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.042	71816.50	7286.67	30.51	30.51	BB	0.0718	0.0718
2	MMAs	6.130	295.71	57.04	0.13	0.13	MM	0.0003	0.0003
3		6.412	8720.22	2222.98	3.70	3.70	BB	0.0087	0.0087
4		6.991	1040.15	116.22	0.44	0.44	BB	0.0010	0.0010
5	As5	8.458	11313.35	722.46	4.81	4.81	BV	0.0113	0.0113
6		8.976	5443.36	678.55	2.31	2.31	VB	0.0054	0.0054
7		9.863	6950.94	1093.83	2.95	2.95	BV	0.0070	0.0070
8		10.020	4173.34	794.14	1.77	1.77	VB	0.0042	0.0042
9		11.648	125638.76	12497.30	53.37	53.37	BB	0.1256	0.1256
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			235392.33	25469.20	100.00	100.00		0.2354	0.2354

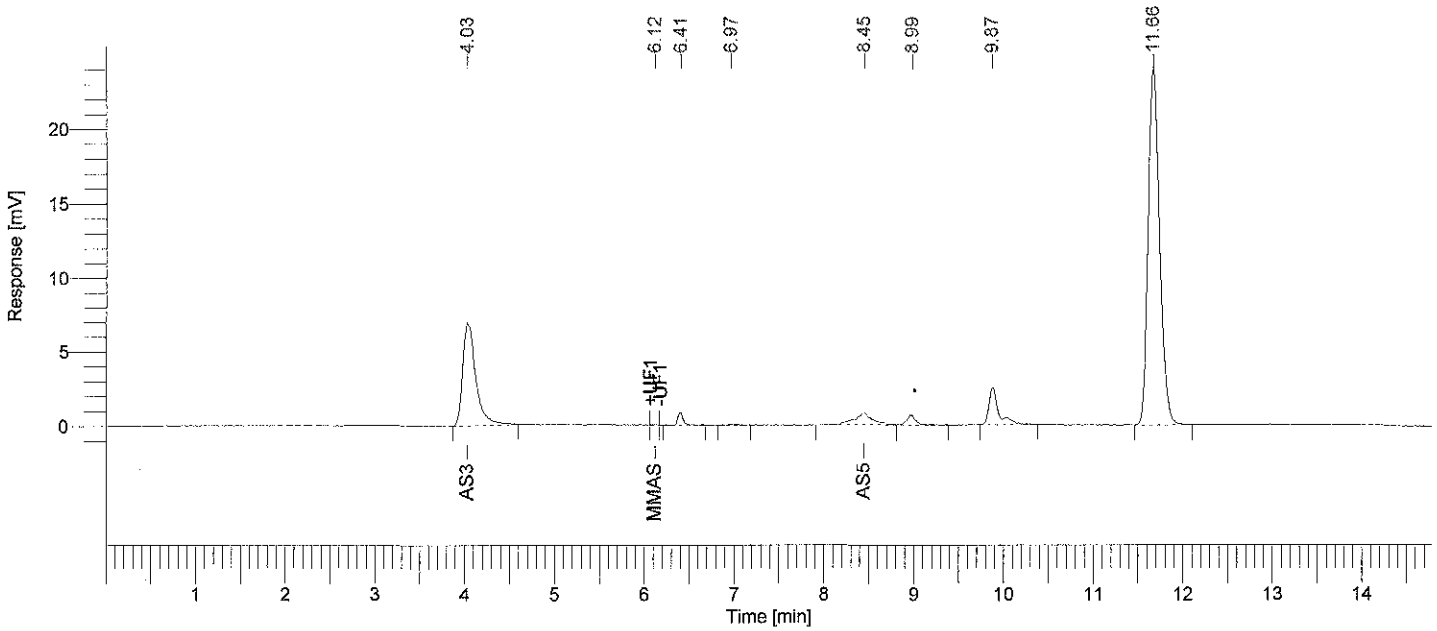
11/9/2006 4:39:33 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103035-061031-094350_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:41 PM
Sample Name	: 6103036	Data Acquisition Time	: 10/30/2006 11:22:53 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 36		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103036-061031-094357_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.032	70801.20	6925.32	21.69	21.69	BB	0.0708	0.0708
2	MMAs	6.118	131.88	46.38	0.04	0.04	MM	0.0001	0.0001
3		6.405	4086.05	878.99	1.25	1.25	BB	0.0041	0.0041
4		6.968	885.37	91.52	0.27	0.27	BB	0.0009	0.0009
5	As5	8.449	11945.14	782.05	3.66	3.66	BV	0.0119	0.0119
6		8.985	5657.89	705.36	1.73	1.73	VB	0.0057	0.0057
7		9.872	19588.90	2538.53	6.00	6.00	BB	0.0196	0.0196
8		11.665	213347.90	24078.34	65.36	65.36	BB	0.2133	0.2133
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			326444.33	36046.49	100.00	100.00		0.3264	0.3264

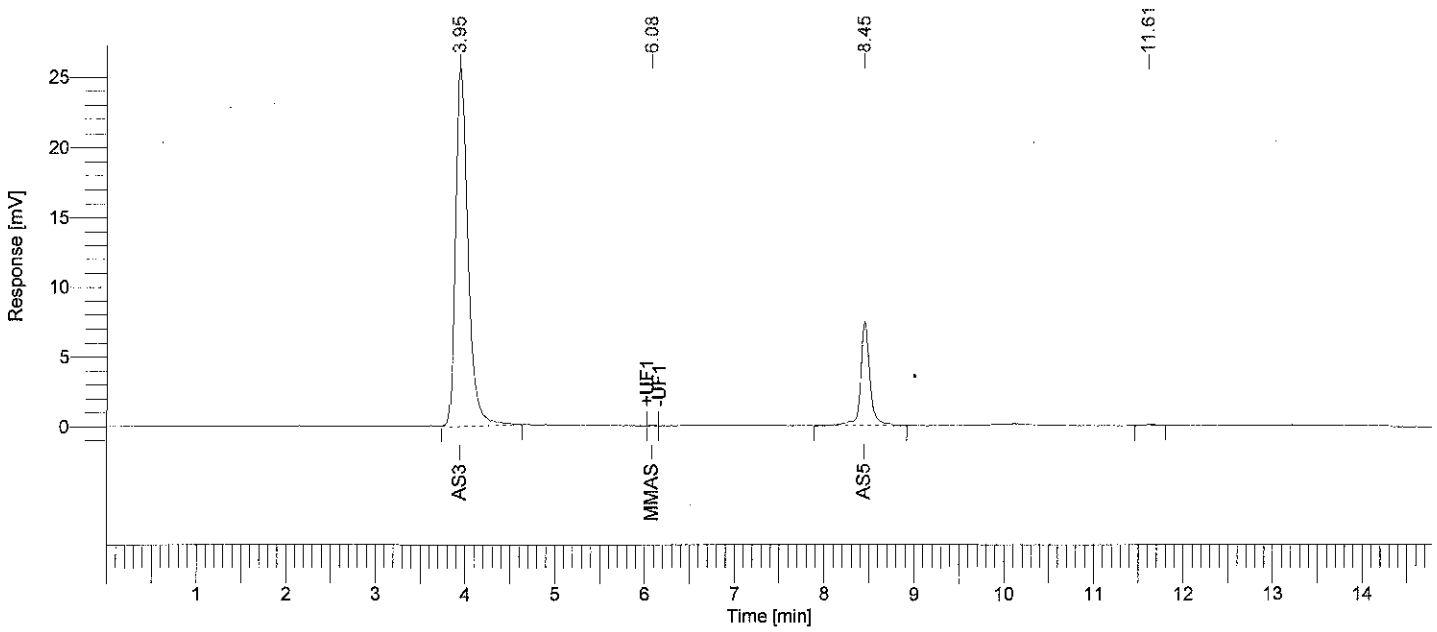
11/9/2006 4:39:41 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103036-061031-094357_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:51 PM
Sample Name	: 6103037	Data Acquisition Time	: 10/30/2006 11:38:04 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 37		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103037-061031-094404_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

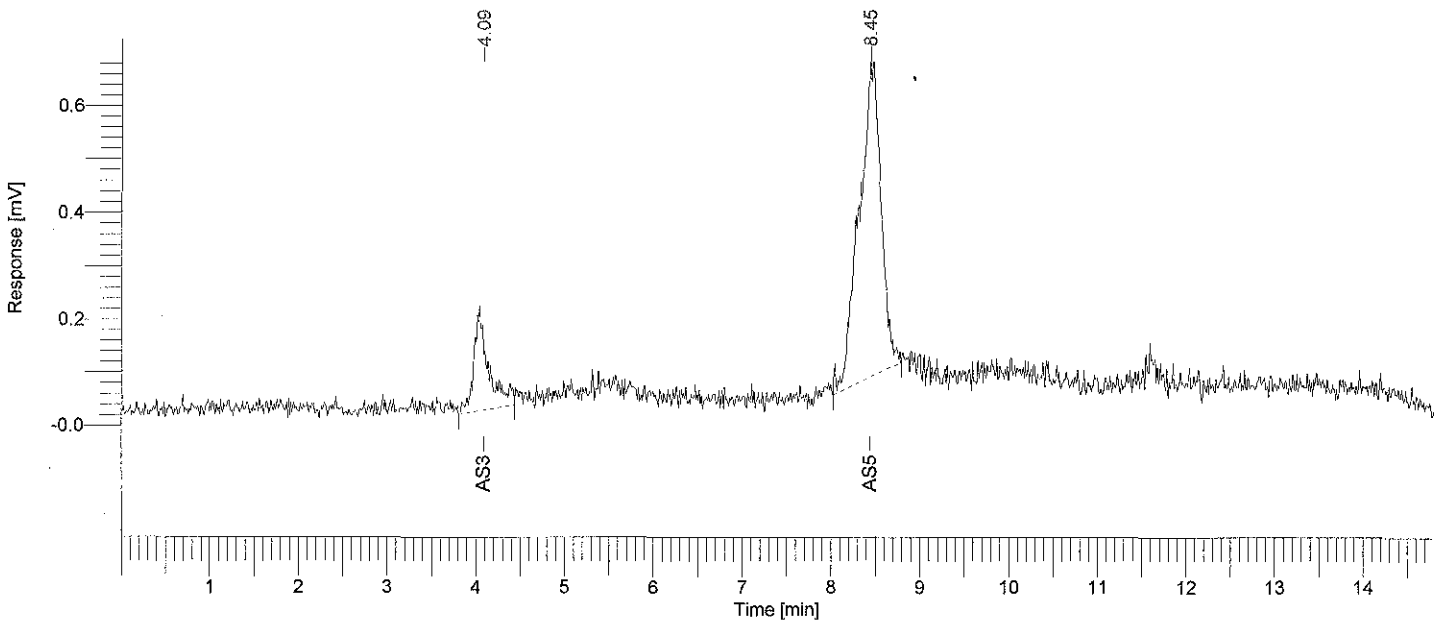
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.947	246911.02	25834.59	81.71	81.71	BB	0.2469	0.2469
2	MMAs	6.082	139.94	34.84	0.05	0.05	MM	0.0001	0.0001
3	As5	8.450	54221.99	7461.19	17.94	17.94	BB	0.0542	0.0542
4		11.609	894.60	73.40	0.30	0.30	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			302167.55	33404.02	100.00	100.00		0.3022	0.3022

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:00 PM
Sample Name	: 6103038	Data Acquisition Time	: 10/30/2006 11:53:15 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 38		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103038-061031-094410_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

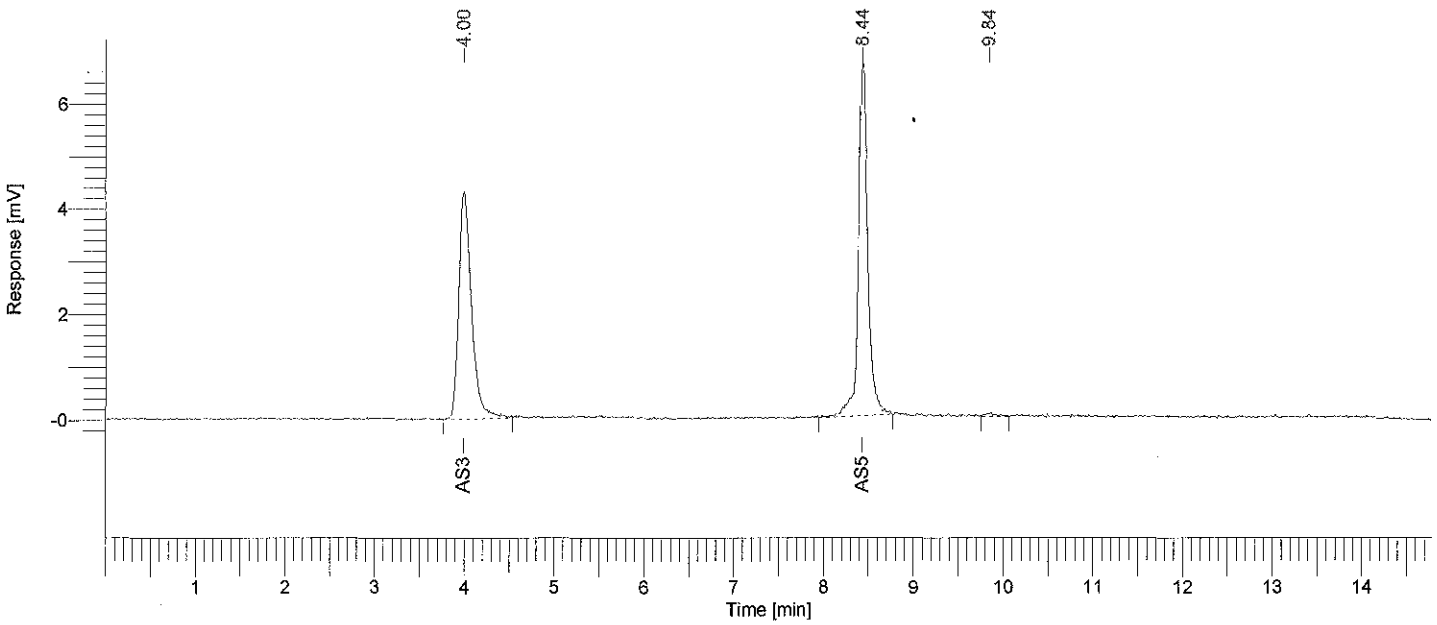
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.089	2237.21	108.44	17.95	17.95	BB	0.0022	0.0022
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.446	10228.26	579.44	82.05	82.05	BB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12465.47	687.88	100.00	100.00		0.0125	0.0125

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:10 PM
Sample Name	: 6103039	Data Acquisition Time	: 10/31/2006 12:08:26 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 39		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103039-061031-094417_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.999	42469.36	4328.89	46.03	46.03	BB	0.0425	0.0425
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.439	49154.72	6783.70	53.28	53.28	BB	0.0492	0.0492
3		9.840	635.45	60.51	0.69	0.69	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			92259.53	11173.10	100.00	100.00		0.0923	0.0923

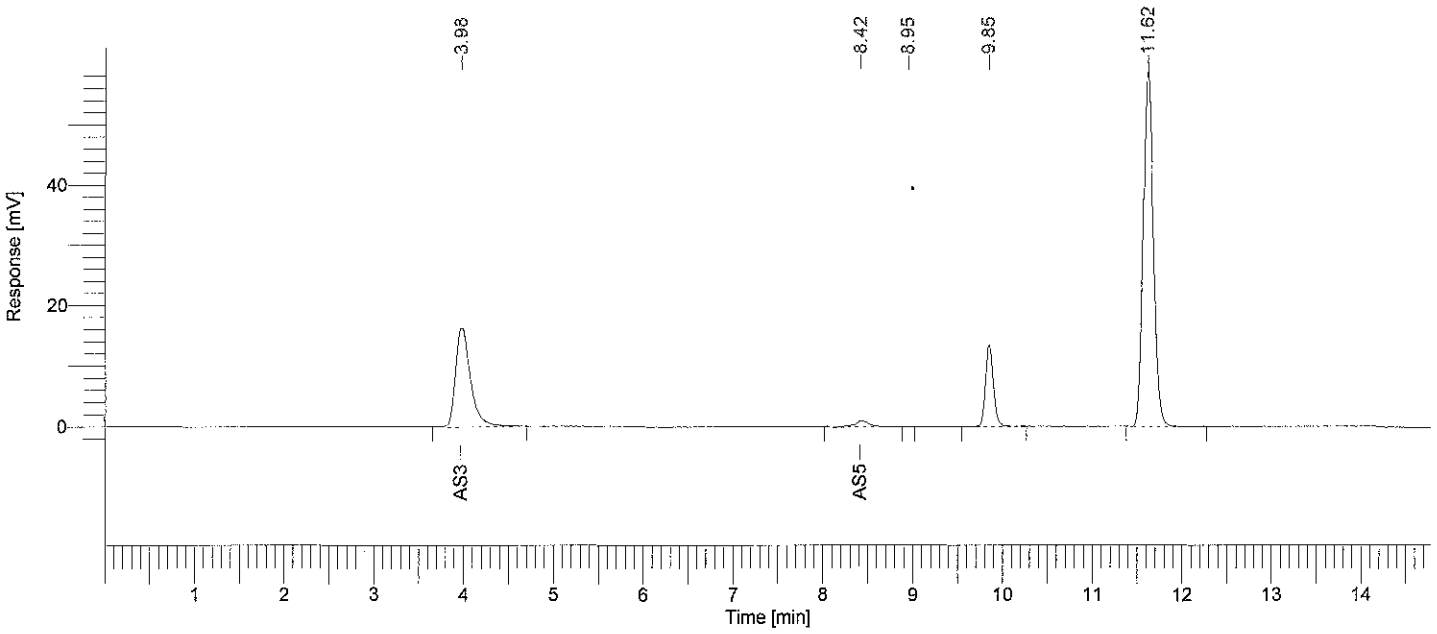
11/9/2006 4:40:10 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103039-061031-094417_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:19 PM
Sample Name	: 6103040	Data Acquisition Time	: 10/31/2006 12:23:37 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 40		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103040-061031-094423_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.976	190418.45	16387.35	25.25	25.25	BB	0.1904	0.1904
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.421	14086.40	1138.87	1.87	1.87	BB	0.0141	0.0141
3		8.947	325.89	63.17	0.04	0.04	BB	0.0003	0.0003
4		9.847	82812.27	13485.52	10.98	10.98	BB	0.0828	0.0828
5		11.618	466429.53	58898.93	61.85	61.85	BB	0.4664	0.4664
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			754072.54	89973.84	100.00	100.00		0.7541	0.7541

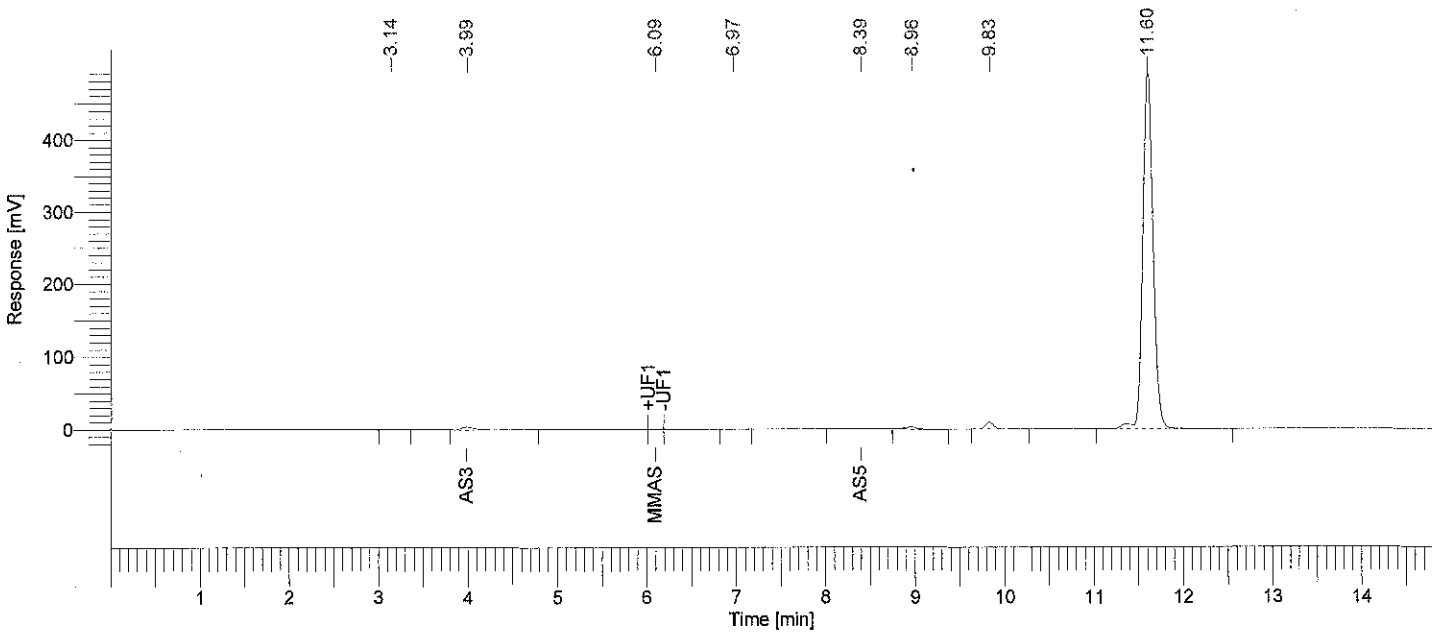
11/9/2006 4:40:19 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103040-061031-094423_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:28 PM
Sample Name	: 6103041	Data Acquisition Time	: 10/31/2006 12:38:48 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 41		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103041-061031-094430_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.140	790.94	92.47	0.02	0.02	BB	0.0008	0.0008
2	As3	3.990	52337.65	4408.61	1.27	1.27	BB	0.0523	0.0523
3	MMAs	6.094	1562.14	319.72	0.04	0.04	MM	0.0016	0.0016
4		6.969	1792.75	239.28	0.04	0.04	BB	0.0018	0.0018
5	As5	8.391	10315.79	571.24	0.25	0.25	BV	0.0103	0.0103
6		8.964	30069.01	3865.87	0.73	0.73	VB	0.0301	0.0301
7		9.830	62176.83	9783.27	1.51	1.51	BB	0.0622	0.0622
8		11.598	3957663.54	495298.40	96.14	96.14	BB	3.9577	3.9577
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			4116708.65	514578.85	100.00	100.00		4.1167	4.1167

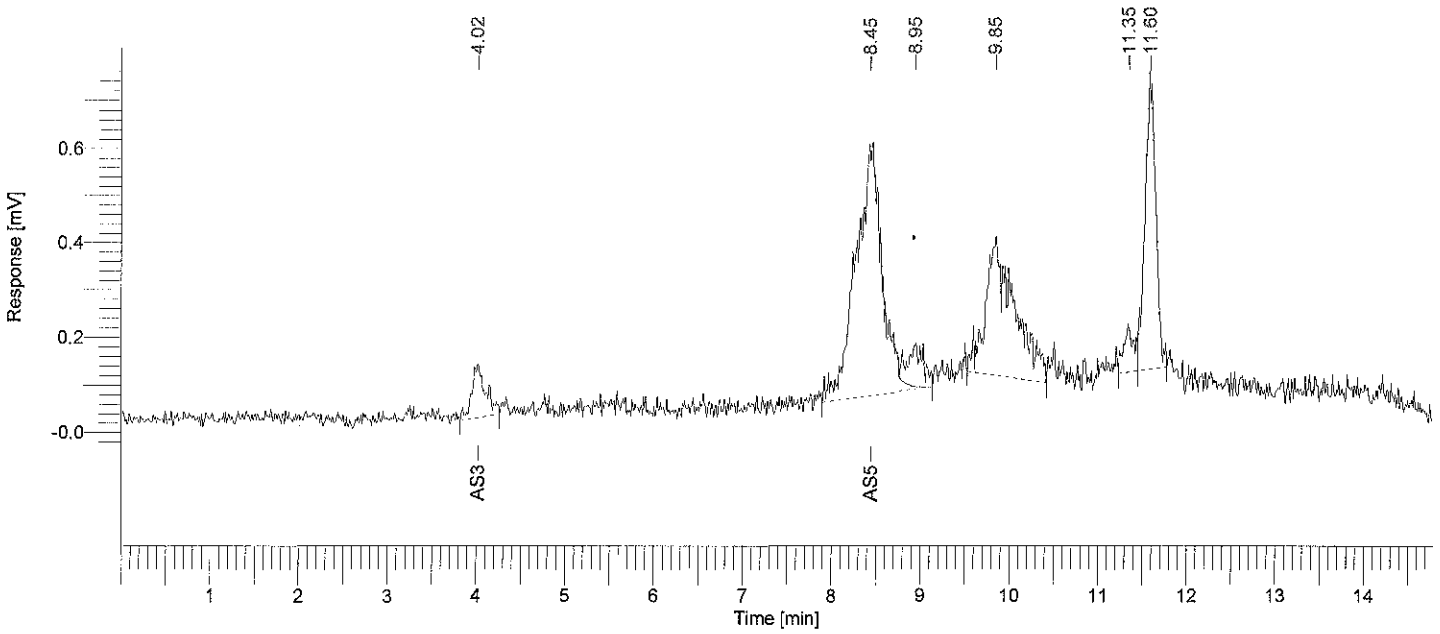
11/9/2006 4:40:28 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103041-061031-094430_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:37 PM
Sample Name	: 6103042	Data Acquisition Time	: 10/31/2006 12:53:59 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 42		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103042-061031-094437_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.023	1241.79	109.62	4.78	4.78	BB	0.0012	0.0012
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.447	10997.19	520.11	42.37	42.37	BE	0.0110	0.0110
3		8.950	1104.05	91.68	4.25	4.25	EB	0.0011	0.0011
4		9.852	6607.26	284.81	25.45	25.45	BB	0.0066	0.0066
5		11.354	757.35	95.05	2.92	2.92	BV	0.0008	0.0008
6		11.598	5249.96	598.44	20.23	20.23	VB	0.0052	0.0052
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			25957.60	1699.71	100.00	100.00		0.0260	0.0260

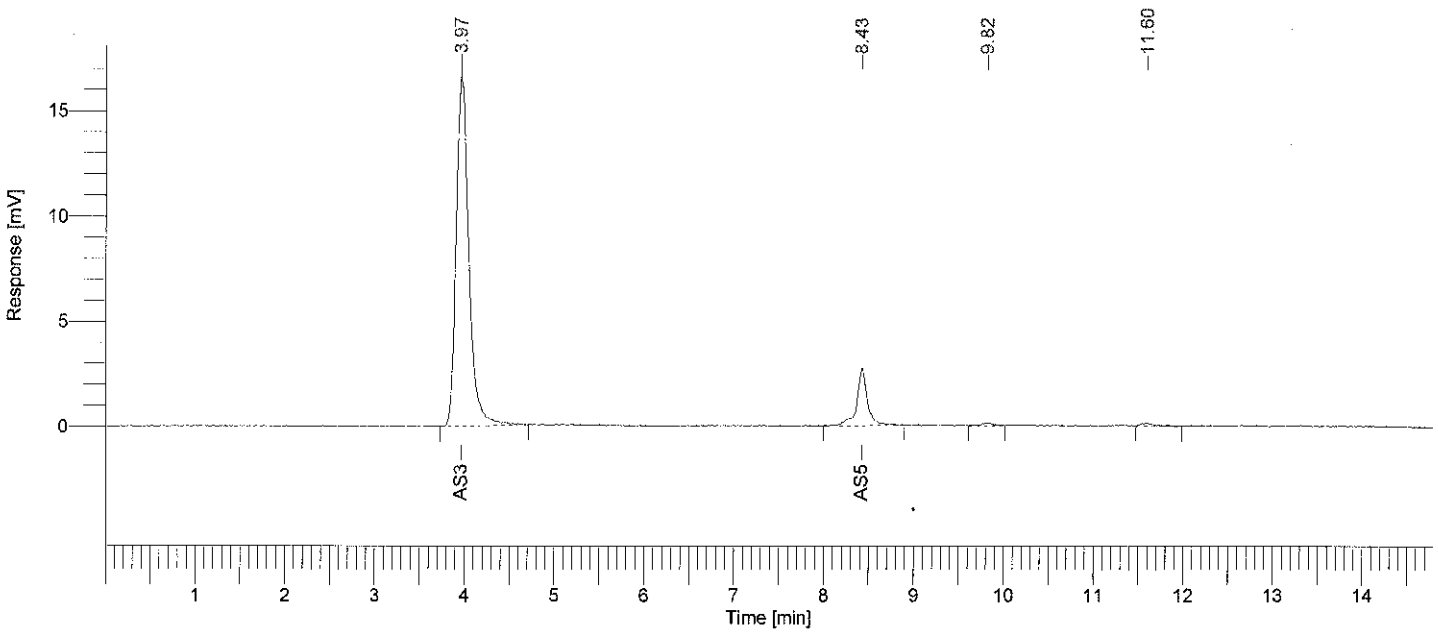
11/9/2006 4:40:37 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103042-061031-094437_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:48 PM
Sample Name	: 6103043	Data Acquisition Time	: 10/31/2006 1:09:10 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 43		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103043-061031-094443_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.970	164125.02	16635.17	86.03	86.03	BB	0.1641	0.1641
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.427	23177.24	2663.12	12.15	12.15	BB	0.0232	0.0232
3		9.822	1510.17	143.91	0.79	0.79	BB	0.0015	0.0015
4		11.602	1973.80	172.96	1.03	1.03	BB	0.0020	0.0020
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			190786.23	19615.16	100.00	100.00		0.1908	0.1908

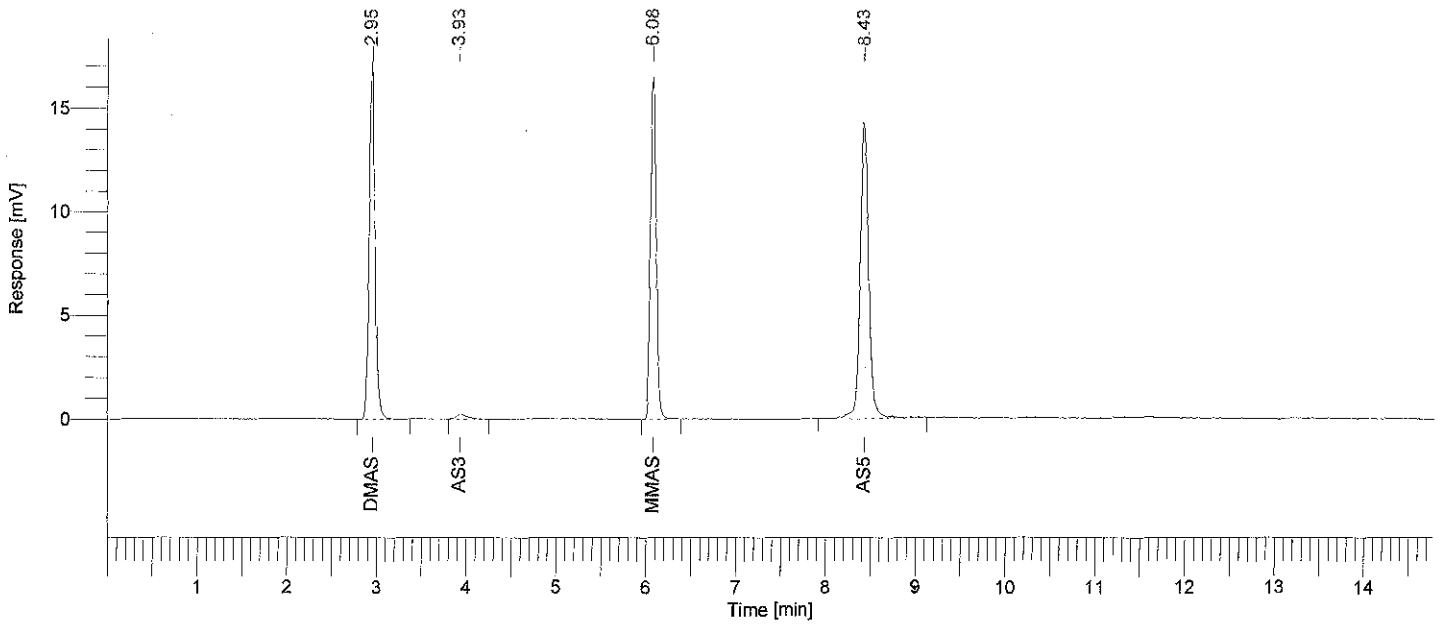
11/9/2006 4:40:48 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103043-061031-094443_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:56 PM
Sample Name	: 6103044	Data Acquisition Time	: 10/31/2006 1:24:21 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 44		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103044-061031-094450_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

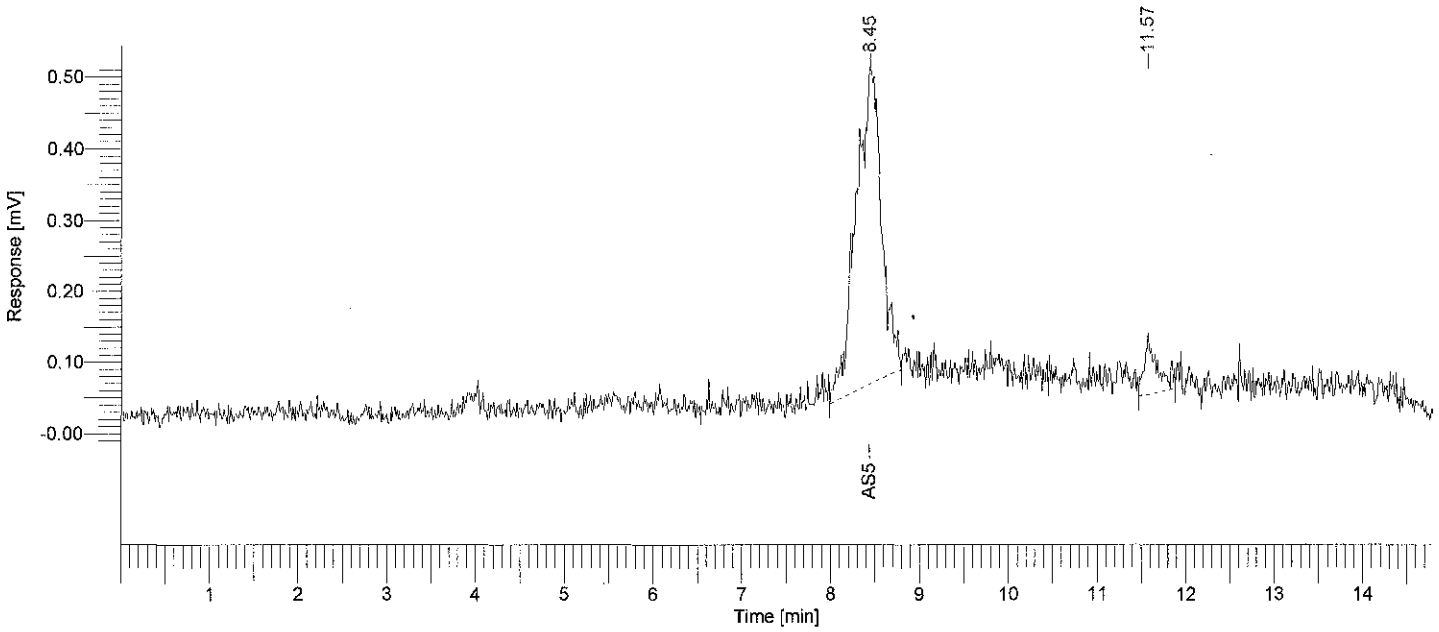
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.955	79710.28	16936.16	31.17	31.17	BB	0.0797	0.0797
2	As3	3.930	2255.67	207.49	0.88	0.88	BB	0.0023	0.0023
3	MMAs	6.083	75407.68	16475.31	29.49	29.49	BB	0.0754	0.0754
4	As5	8.433	98347.07	14395.98	38.46	38.46	BB	0.0983	0.0983
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			255720.70	48014.95	100.00	100.00		0.2557	0.2557

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:41:04 PM
Sample Name	: 6103045	Data Acquisition Time	: 10/31/2006 1:39:32 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 45		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103045-061031-094456_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.446	8936.06	446.92	91.30	91.30	BB	0.0089	0.0089
2		11.573	852.00	78.02	8.70	8.70	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9788.06	524.94	100.00	100.00		0.0098	0.0098

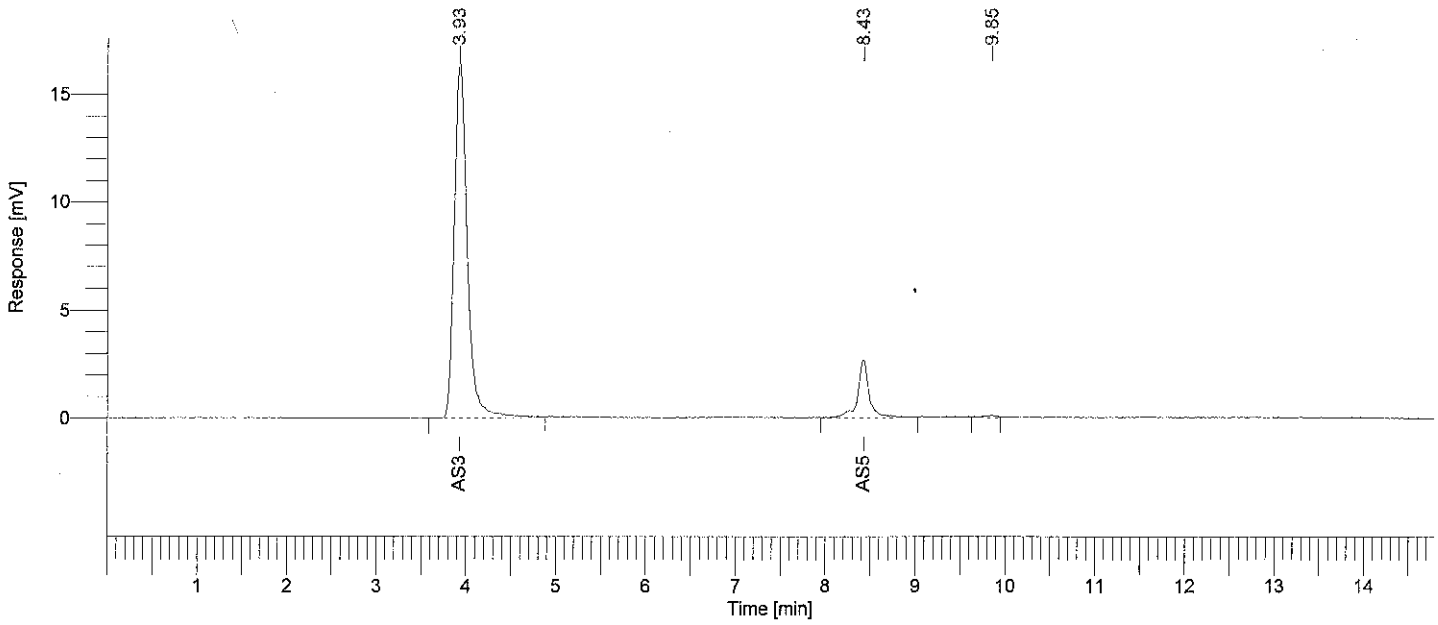
11/9/2006 4:41:04 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103045-061031-094456_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:41:14 PM
Sample Name	: 6103046	Data Acquisition Time	: 10/31/2006 1:54:43 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 46		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103046-061031-094503_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.928	168330.35	16436.12	86.75	86.75	BB	0.1683	0.1683
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.425	24566.00	2698.75	12.66	12.66	BB	0.0246	0.0246
3		9.852	1138.84	106.15	0.59	0.59	BB	0.0011	0.0011
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			194035.19	19241.01	100.00	100.00		0.1940	0.1940

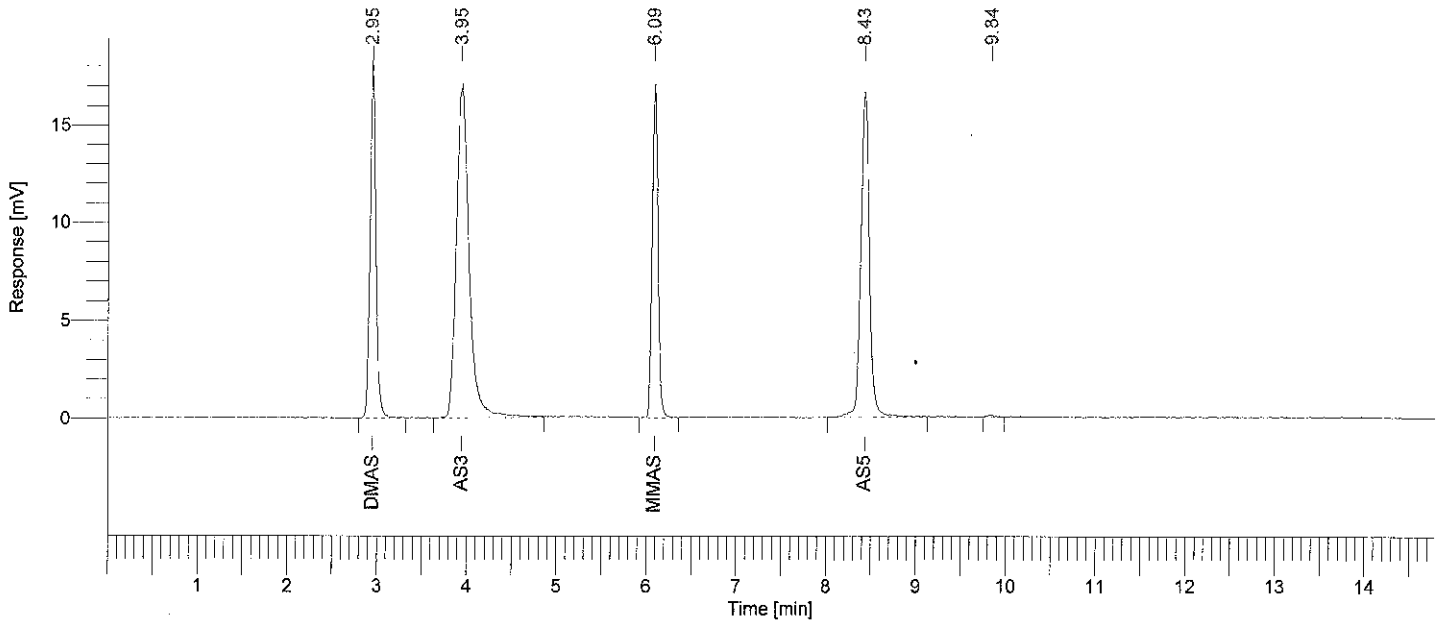
11/9/2006 4:41:14 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103046-061031-094503_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:13 PM
Sample Name	: 6103047	Data Acquisition Time	: 10/31/2006 2:09:54 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 47		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103047-061031-094509_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

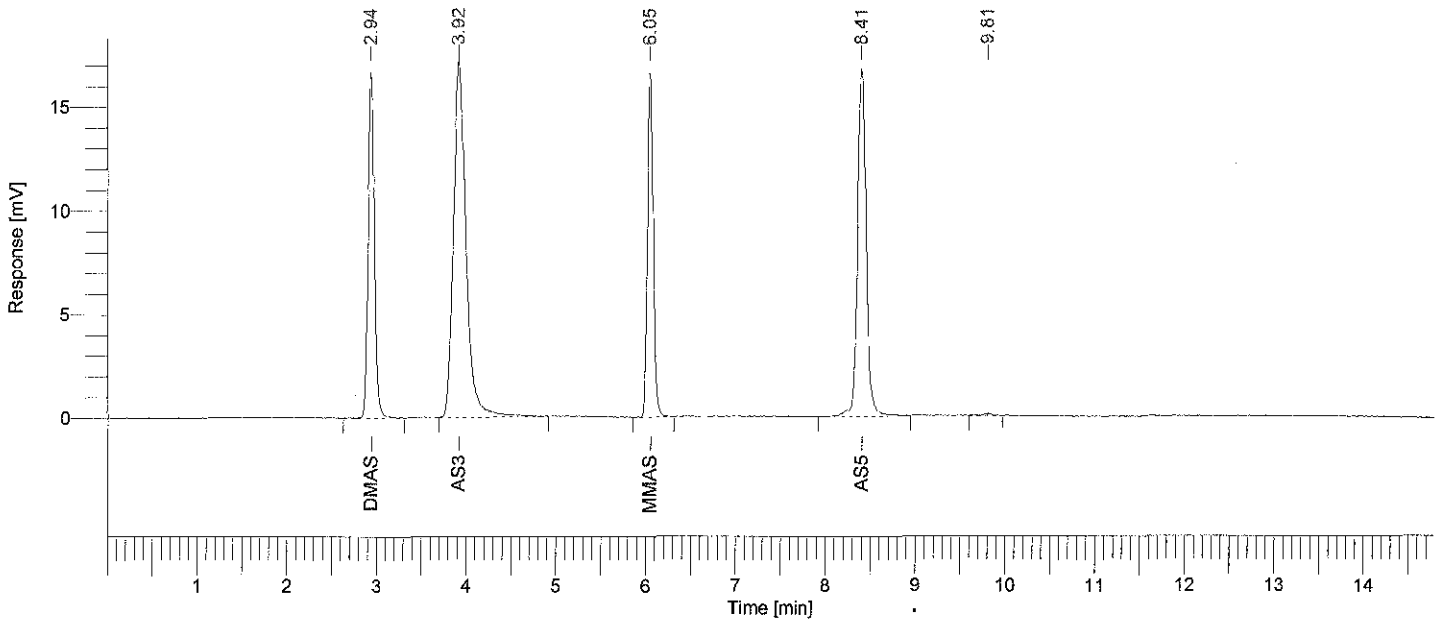
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.951	81123.18	17381.44	18.31	18.31	BB	0.0811	0.0811
2	As3	3.947	170799.73	17053.37	38.55	38.55	BB	0.1708	0.1708
3	MMAs	6.092	76915.01	16646.88	17.36	17.36	BB	0.0769	0.0769
4	As5	8.428	113477.88	16609.22	25.61	25.61	BB	0.1135	0.1135
5		9.840	739.82	100.63	0.17	0.17	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			443055.62	67791.55	100.00	100.00		0.4431	0.4431

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:20 PM
Sample Name	: 6103048	Data Acquisition Time	: 10/31/2006 2:25:05 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 48		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103048-061031-094516_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

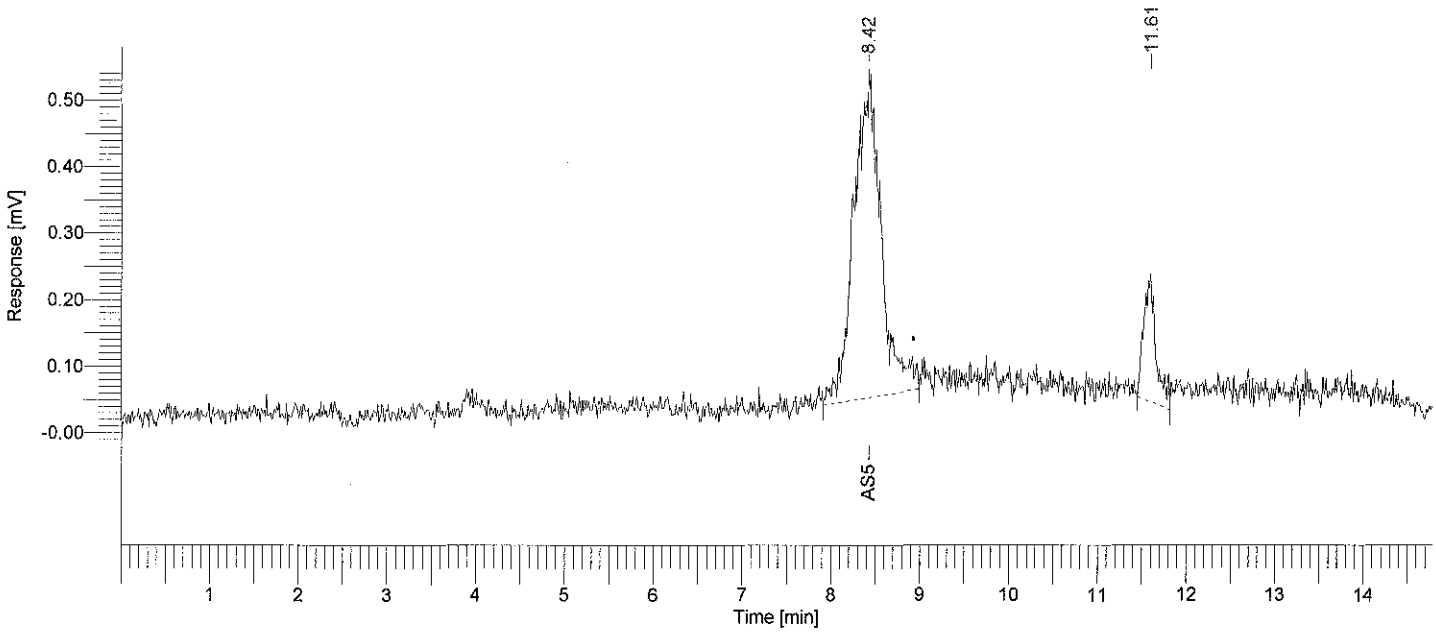
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.941	80144.80	16695.63	18.21	18.21	BB	0.0801	0.0801
2	As3	3.920	170887.77	17131.34	38.83	38.83	BB	0.1709	0.1709
3	MMAs	6.052	75326.74	16647.21	17.12	17.12	BB	0.0753	0.0753
4	As5	8.406	112823.97	16751.57	25.64	25.64	BB	0.1128	0.1128
5		9.811	905.96	98.43	0.21	0.21	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			440089.24	67324.19	100.00	100.00		0.4401	0.4401

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:30 PM
Sample Name	: 6103049	Data Acquisition Time	: 10/31/2006 2:40:16 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 49		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103049-061031-094523_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.421	10412.86	468.98	85.07	85.07	BB	0.0104	0.0104
2		11.608	1827.54	170.00	14.93	14.93	BB	0.0018	0.0018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12240.40	638.98	100.00	100.00		0.0122	0.0122

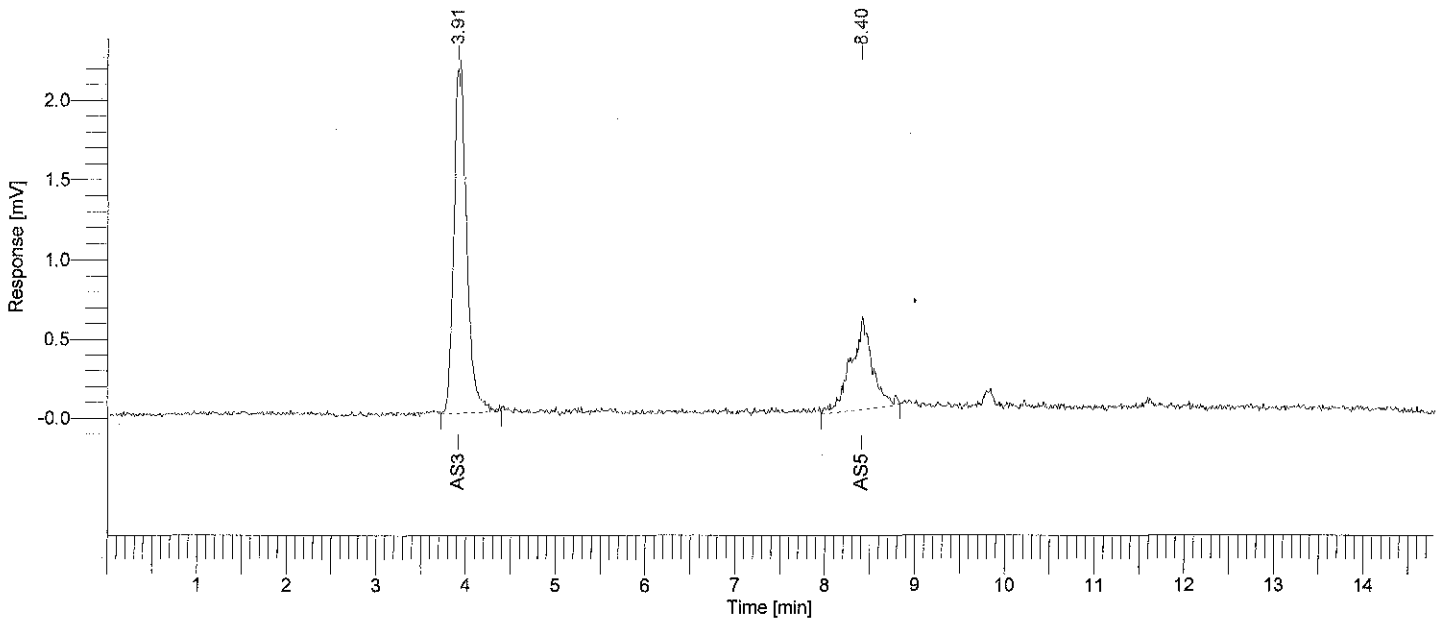
11/9/2006 4:42:30 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103049-061031-094523_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:38 PM
Sample Name	: 6103050	Data Acquisition Time	: 10/31/2006 2:55:27 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 50		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103050-061031-094529_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

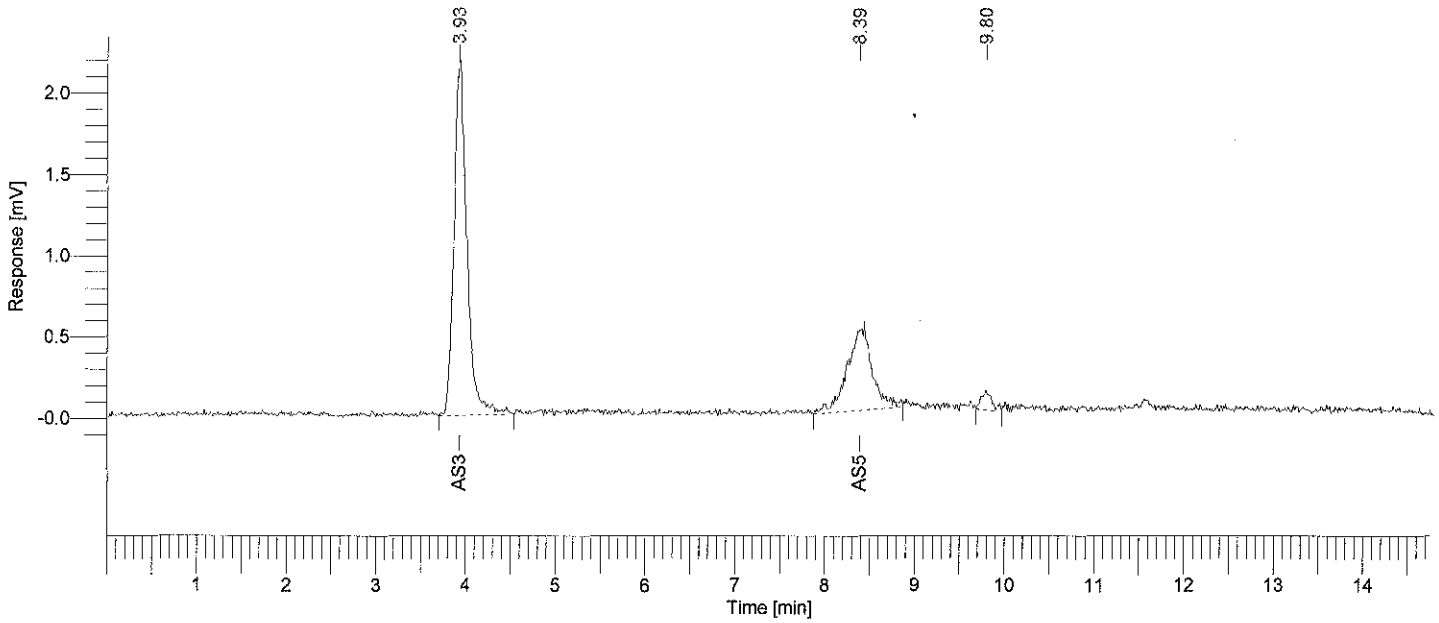
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.913	22093.78	2194.70	69.56	69.56	BB	0.0221	0.0221
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.402	9670.20	534.38	30.44	30.44	BB	0.0097	0.0097
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			31763.98	2729.08	100.00	100.00		0.0318	0.0318

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:45 PM
Sample Name	: 6103051	Data Acquisition Time	: 10/31/2006 3:10:38 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 51		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103051-061031-094536_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.931	22308.20	2162.87	67.16	67.16	BB	0.0223	0.0223
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.388	9930.06	493.46	29.90	29.90	BB	0.0099	0.0099
3		9.798	976.25	111.18	2.94	2.94	BB	0.0010	0.0010
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			33214.51	2767.51	100.00	100.00		0.0332	0.0332

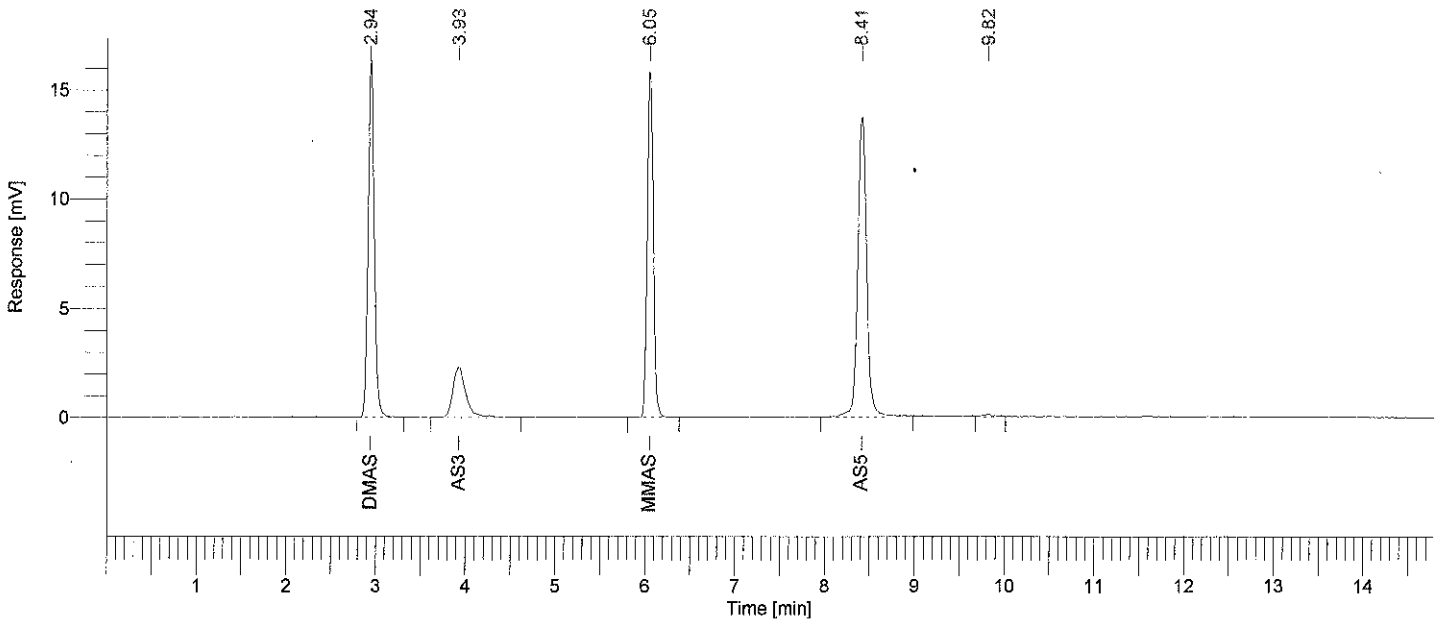
11/9/2006 4:42:45 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103051-061031-094536_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:53 PM
Sample Name	: 6103052	Data Acquisition Time	: 10/31/2006 3:25:49 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 52		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103052-061031-094542_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

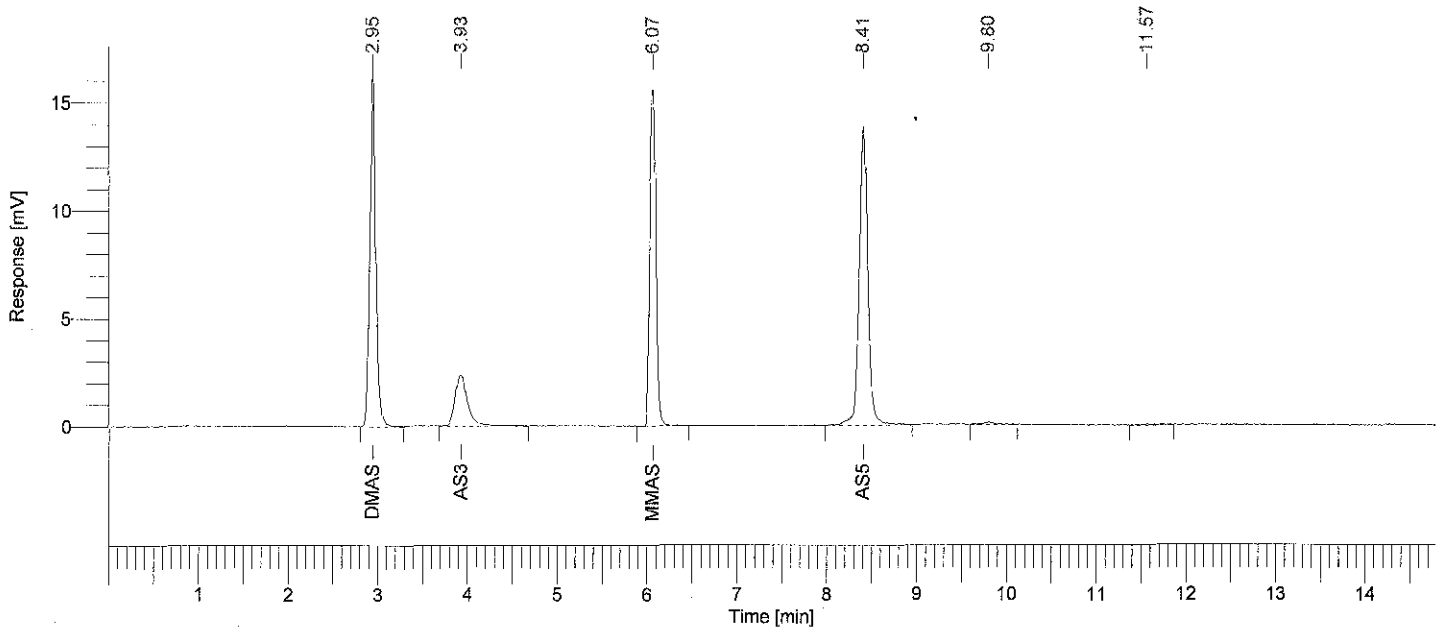
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.945	78131.95	16096.99	28.54	28.54	BB	0.0781	0.0781
2	As3	3.931	24185.44	2279.12	8.84	8.84	BB	0.0242	0.0242
3	MMAs	6.053	74518.76	15851.83	27.22	27.22	BB	0.0745	0.0745
4	As5	8.410	95894.73	13855.65	35.03	35.03	BB	0.0959	0.0959
5		9.819	994.71	118.23	0.36	0.36	BB	0.0010	0.0010
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			273725.59	48201.82	100.00	100.00		0.2737	0.2737

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:01 PM
Sample Name	: 6103053	Data Acquisition Time	: 10/31/2006 3:41:00 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 53		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103053-061031-094549_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

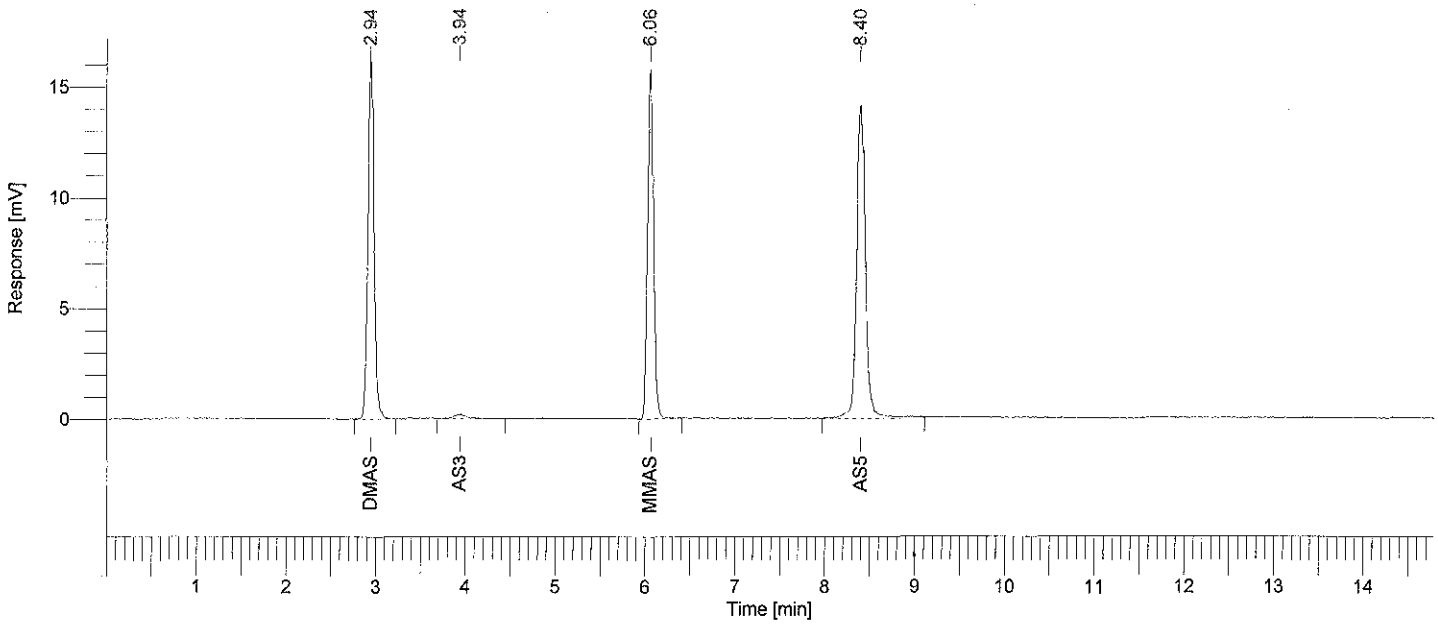
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	78679.36	16243.89	28.50	28.50	BB	0.0787	0.0787
2	As3	3.931	24026.40	2375.37	8.70	8.70	BB	0.0240	0.0240
3	MMAs	6.066	75618.55	15842.30	27.39	27.39	BB	0.0756	0.0756
4	As5	8.407	95480.80	14042.30	34.59	34.59	BB	0.0955	0.0955
5		9.799	1329.83	139.85	0.48	0.48	BB	0.0013	0.0013
6		11.565	914.48	70.82	0.33	0.33	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			276049.42	48714.53	100.00	100.00		0.2760	0.2760

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:23 PM
Sample Name	: 6103054	Data Acquisition Time	: 10/31/2006 3:56:11 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 54		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103054-061031-094555_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

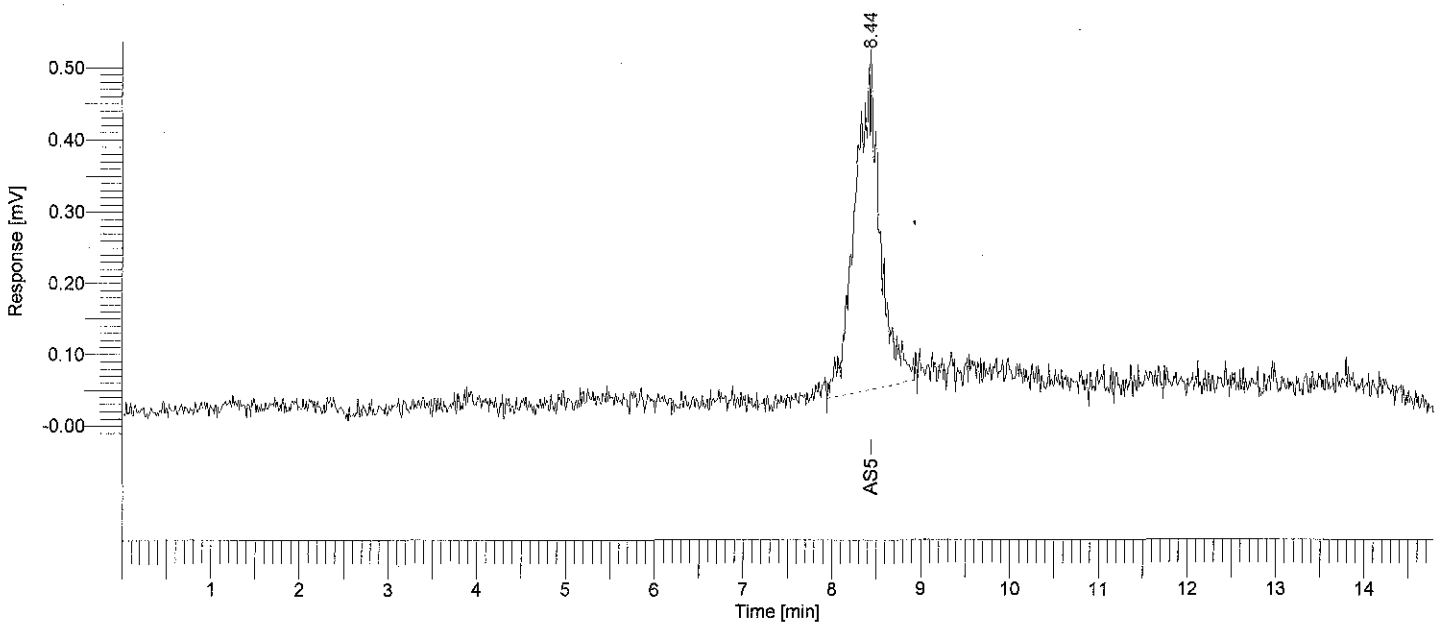
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.944	76278.85	15806.14	30.41	30.41	BB	0.0763	0.0763
2	As3	3.938	2313.89	205.96	0.92	0.92	BB	0.0023	0.0023
3	MMAs	6.059	74492.49	15616.04	29.70	29.70	BB	0.0745	0.0745
4	As5	8.398	97771.26	14110.62	38.97	38.97	BB	0.0978	0.0978
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			250856.49	45738.76	100.00	100.00		0.2509	0.2509

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:59 PM
Sample Name	: 6103055	Data Acquisition Time	: 10/31/2006 4:11:22 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 55		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103055-061031-094602_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

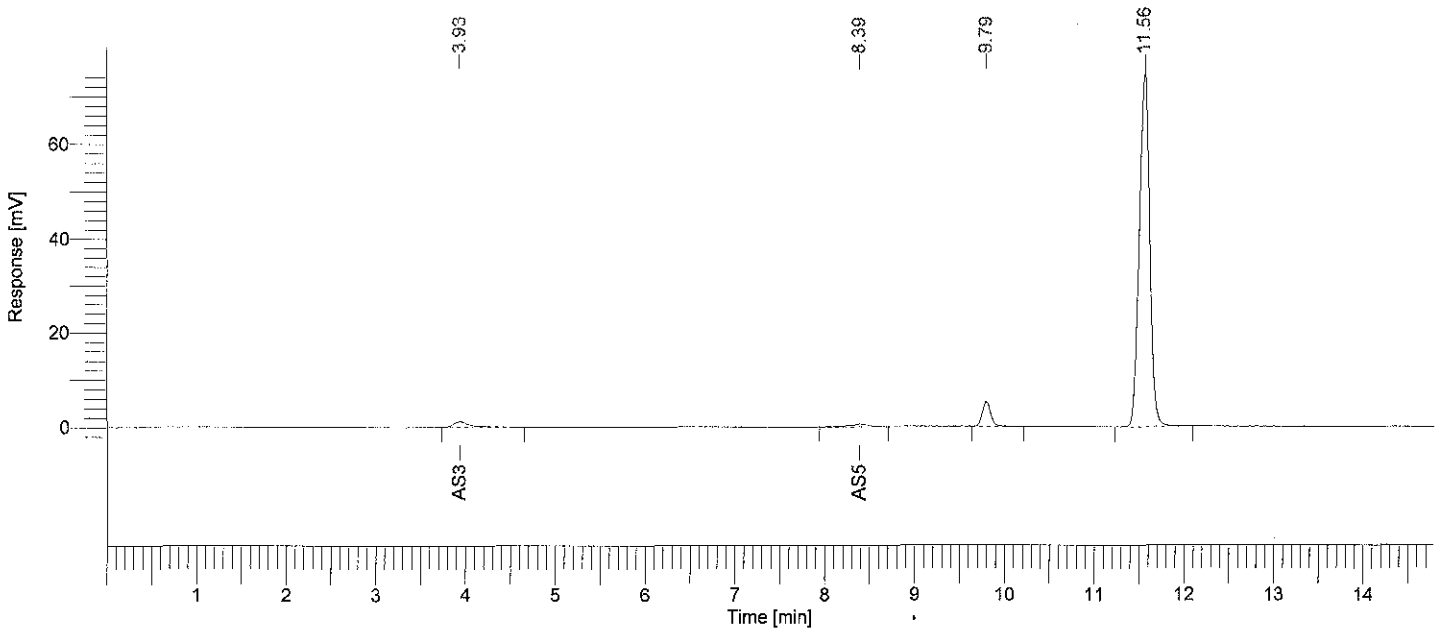
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.441	9169.65	428.01	100.00	100.00	BB	0.0092	0.0092
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9169.65	428.01	100.00	100.00		0.0092	0.0092

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:12 PM
Sample Name	: 6103056	Data Acquisition Time	: 10/31/2006 4:26:33 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 56		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103056-061031-094609_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.934	14568.49	1152.72	2.20	2.20	BB	0.0146	0.0146
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.387	9318.04	640.08	1.40	1.40	BB	0.0093	0.0093
3		9.794	34236.91	5150.62	5.16	5.16	BB	0.0342	0.0342
4		11.561	605378.66	74972.77	91.24	91.24	BB	0.6054	0.6054
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			663502.10	81916.18	100.00	100.00		0.6635	0.6635

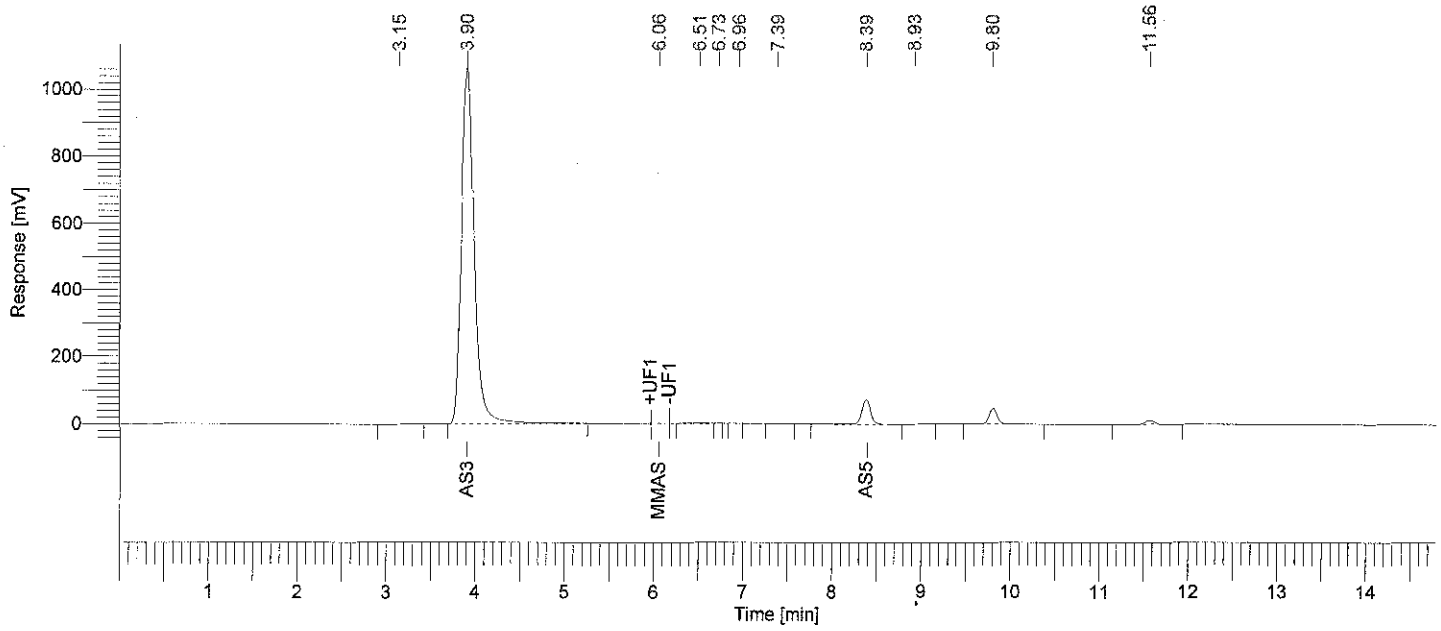
11/9/2006 4:44:12 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103056-061031-094609_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:21 PM
Sample Name	: 6103057	Data Acquisition Time	: 10/31/2006 4:41:44 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 57		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103057-061031-094615_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.146	2477.19	271.15	0.02	0.02	BB	0.0025	0.0025
2	As3	3.905	10696407.73	1.07e+06	91.62	91.62	BB	----------	----------
3	MMAs	6.059	1882.08	286.83	0.02	0.02	MM	0.0019	0.0019
4		6.510	10221.90	452.18	0.09	0.09	BV	0.0102	0.0102
5		6.730	1040.12	276.48	0.01	0.01	VB	0.0010	0.0010
6		6.958	2156.27	306.99	0.02	0.02	BB	0.0022	0.0022
7		7.390	12021.72	1000.43	0.10	0.10	BB	0.0120	0.0120
8	As5	8.389	532449.77	74199.65	4.56	4.56	BV	0.5324	0.5324
9		8.926	4185.01	541.39	0.04	0.04	VB	0.0042	0.0042
10		9.801	295195.28	46328.36	2.53	2.53	BB	0.2952	0.2952
11		11.565	116356.22	13966.50	1.00	1.00	BB	0.1164	0.1164
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11674393.30	1.21e+06	100.00	100.00		0.9780	0.9780

11/9/2006 4:44:21 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103057-061031-094615_As.rst

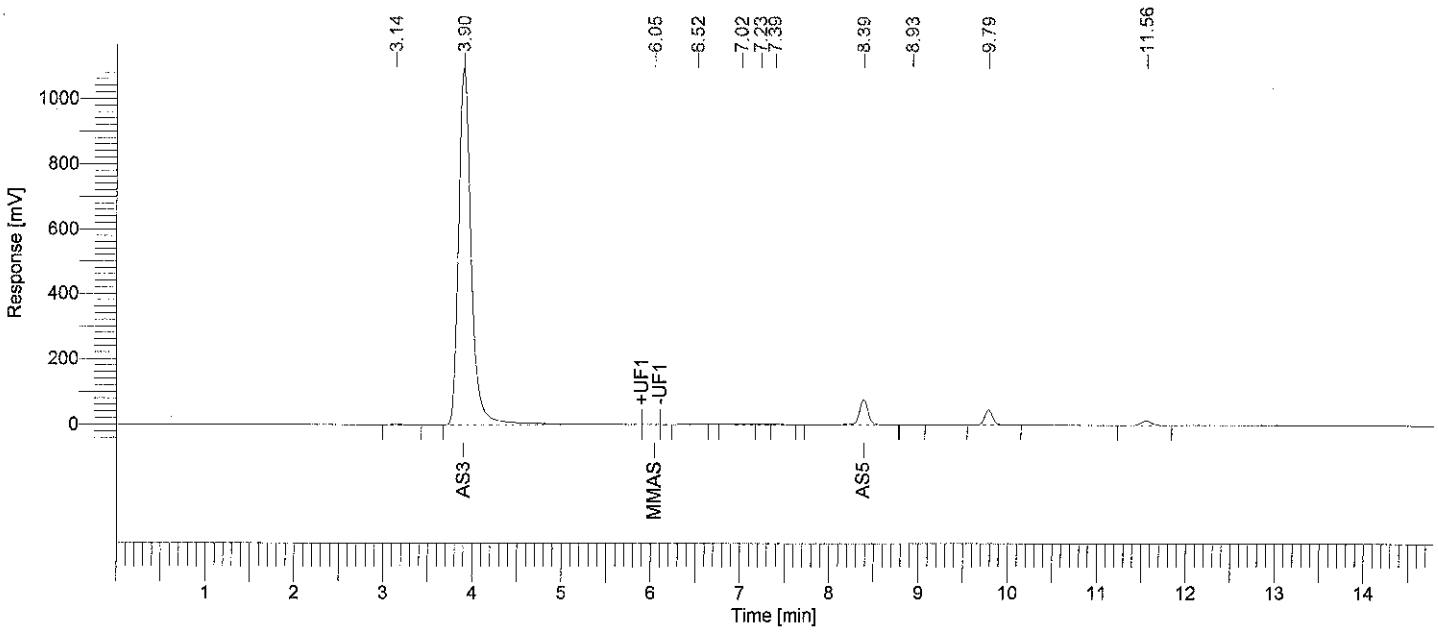
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:28 PM
Sample Name	: 6103058	Data Acquisition Time	: 10/31/2006 4:56:55 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 58		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103058-061031-094622_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.142	2747.70	318.22	0.02	0.02	BB	0.0027	0.0027
2	As3	3.905	10979387.27	1.10e+06	91.54	91.54	BB	---------	---------
3	MMAs	6.047	1532.51	238.88	0.01	0.01	MM	0.0015	0.0015
4		6.525	8241.68	320.89	0.07	0.07	BB	0.0082	0.0082
5		7.018	14072.55	781.18	0.12	0.12	BV	0.0141	0.0141
6		7.231	10813.61	1061.24	0.09	0.09	VV	0.0108	0.0108
7		7.392	12539.36	1358.00	0.10	0.10	VB	0.0125	0.0125
8	As5	8.390	547820.38	76031.46	4.57	4.57	BB	0.5478	0.5478
9		8.934	4466.61	554.75	0.04	0.04	BB	0.0045	0.0045
10		9.788	293922.25	45827.48	2.45	2.45	BB	0.2939	0.2939
11		11.562	118104.95	14392.79	0.98	0.98	BB	0.1181	0.1181
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11993648.87	1.24e+06	100.00	100.00		1.0143	1.0143

11/9/2006 4:44:28 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103058-061031-094622_As.rst

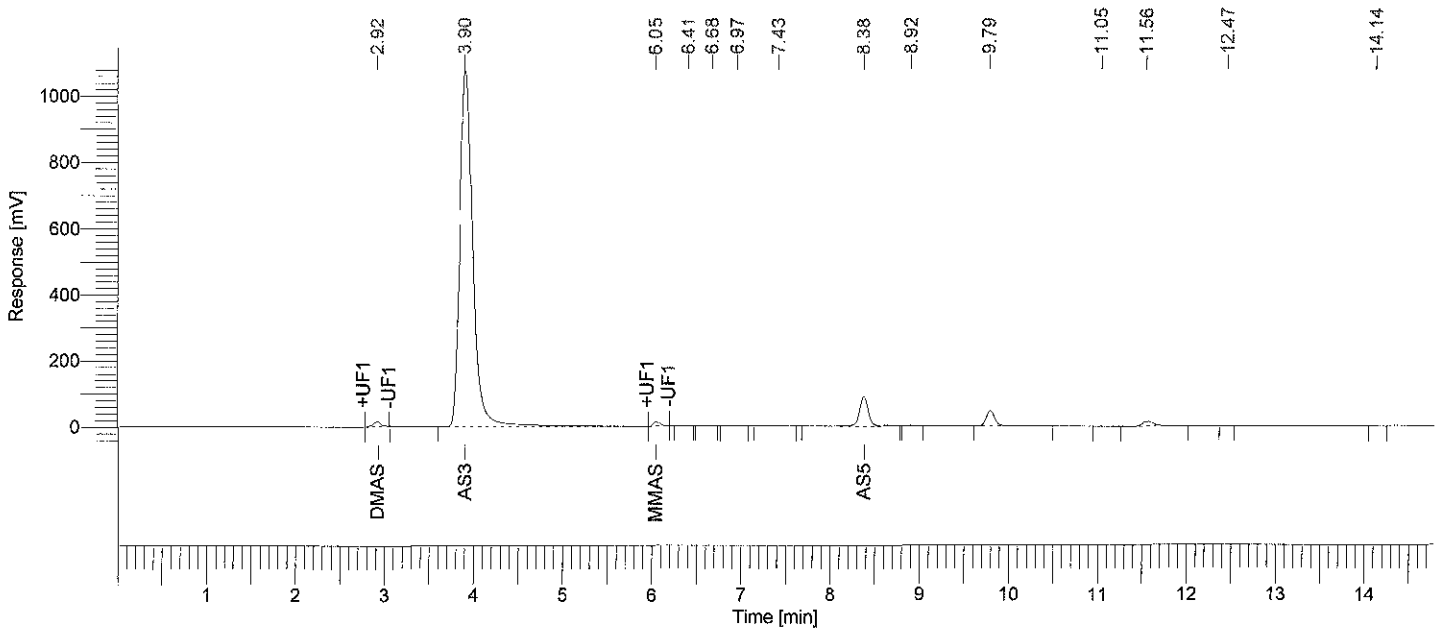
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:36 PM
Sample Name	: 6103059	Data Acquisition Time	: 10/31/2006 5:12:06 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 59		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103059-061031-094629_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.923	74987.00	12966.28	0.61	0.61	MM	0.0750	0.0750
2	As3	3.905	11054195.19	1.08e+06	89.48	89.48	BB	---------	---------
3	MMAs	6.047	75384.44	15058.30	0.61	0.61	MM	0.0754	0.0754
4		6.414	8363.19	897.23	0.07	0.07	BV	0.0084	0.0084
5		6.682	14113.48	1098.54	0.11	0.11	VV	0.0141	0.0141
6		6.965	23900.00	1435.23	0.19	0.19	VV	0.0239	0.0239
7		7.426	32885.68	1706.32	0.27	0.27	VB	0.0329	0.0329
8	As5	8.383	642770.81	89952.25	5.20	5.20	BB	0.6428	0.6428
9		8.916	4075.40	574.01	0.03	0.03	BB	0.0041	0.0041
10		9.792	302143.34	46192.51	2.45	2.45	BB	0.3021	0.3021
11		11.050	953.38	97.29	0.01	0.01	BV	0.0010	0.0010
12		11.561	119123.24	14559.09	0.96	0.96	VB	0.1191	0.1191
13		12.472	429.55	89.69	0.00	0.00	BB	0.0004	0.0004
14		14.143	602.08	59.44	0.00	0.00	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12353926.78	1.27e+06	100.00	100.00		1.2997	1.2997

11/9/2006 4:44:36 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103059-061031-094629_As.rst

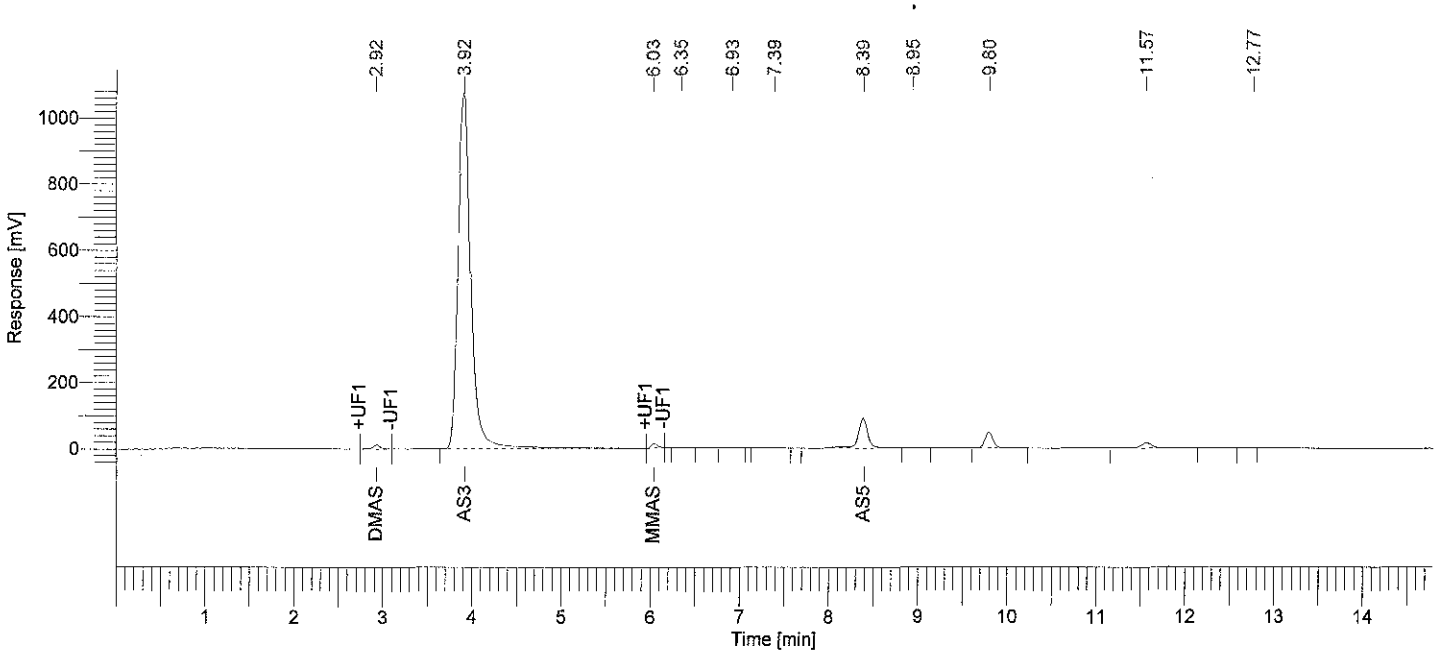
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:43 PM
Sample Name	: 6103060	Data Acquisition Time	: 10/31/2006 5:27:17 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 60		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103060-061031-094635_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.923	73535.67	13081.25	0.60	0.60	MM	0.0735	0.0735
2	As3	3.917	11028861.68	1.08e+06	89.77	89.77	BB	----------	----------
3	MMAs	6.035	75361.41	15412.57	0.61	0.61	MM	0.0754	0.0754
4		6.349	3640.17	509.38	0.03	0.03	BB	0.0036	0.0036
5		6.926	10125.29	732.70	0.08	0.08	BV	0.0101	0.0101
6		7.393	27433.49	1484.89	0.22	0.22	VB	0.0274	0.0274
7	As5	8.392	637684.37	87848.21	5.19	5.19	BB	0.6377	0.6377
8		8.951	5025.38	525.56	0.04	0.04	BB	0.0050	0.0050
9		9.804	300981.78	47390.51	2.45	2.45	BB	0.3010	0.3010
10		11.566	122621.26	14775.27	1.00	1.00	BB	0.1226	0.1226
11		12.773	803.72	126.36	0.01	0.01	BB	0.0008	0.0008
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12286074.22	1.26e+06	100.00	100.00		1.2572	1.2572

11/9/2006 4:44:43 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103060-061031-094635_As.rst

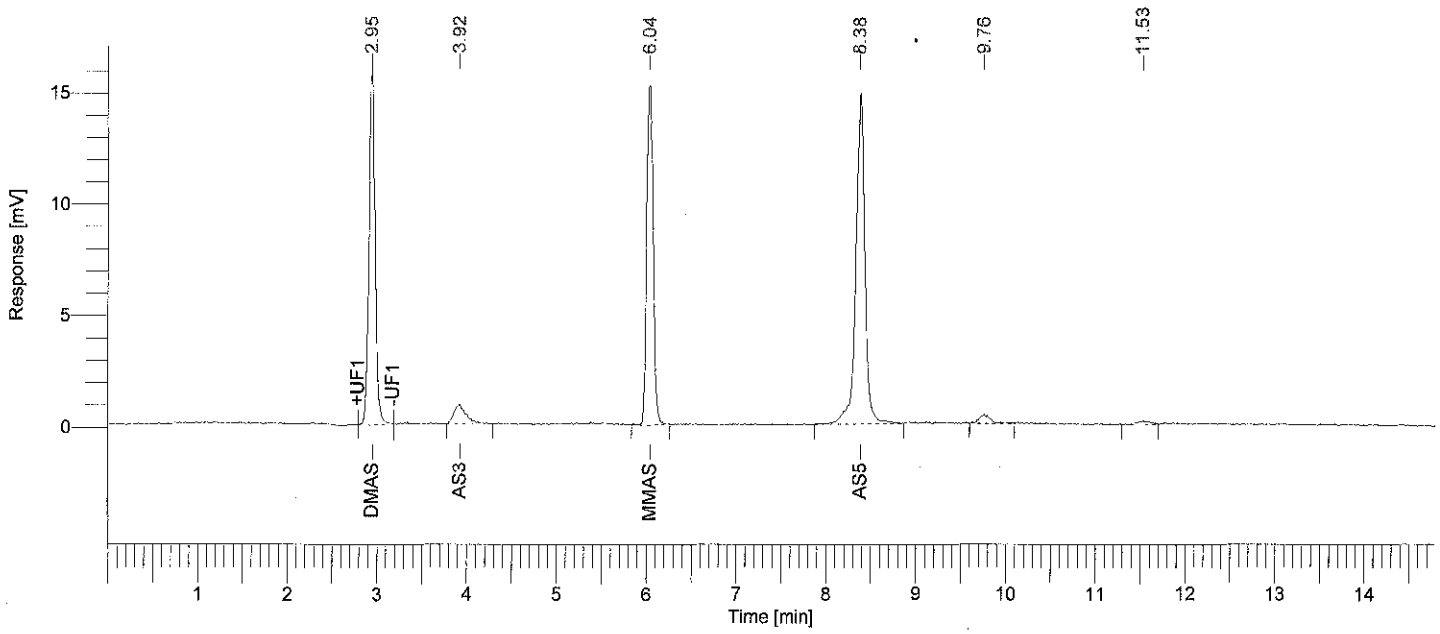
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:54 PM
Sample Name	: 6103061	Data Acquisition Time	: 10/31/2006 5:42:28 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 61		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103061-061031-094642_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

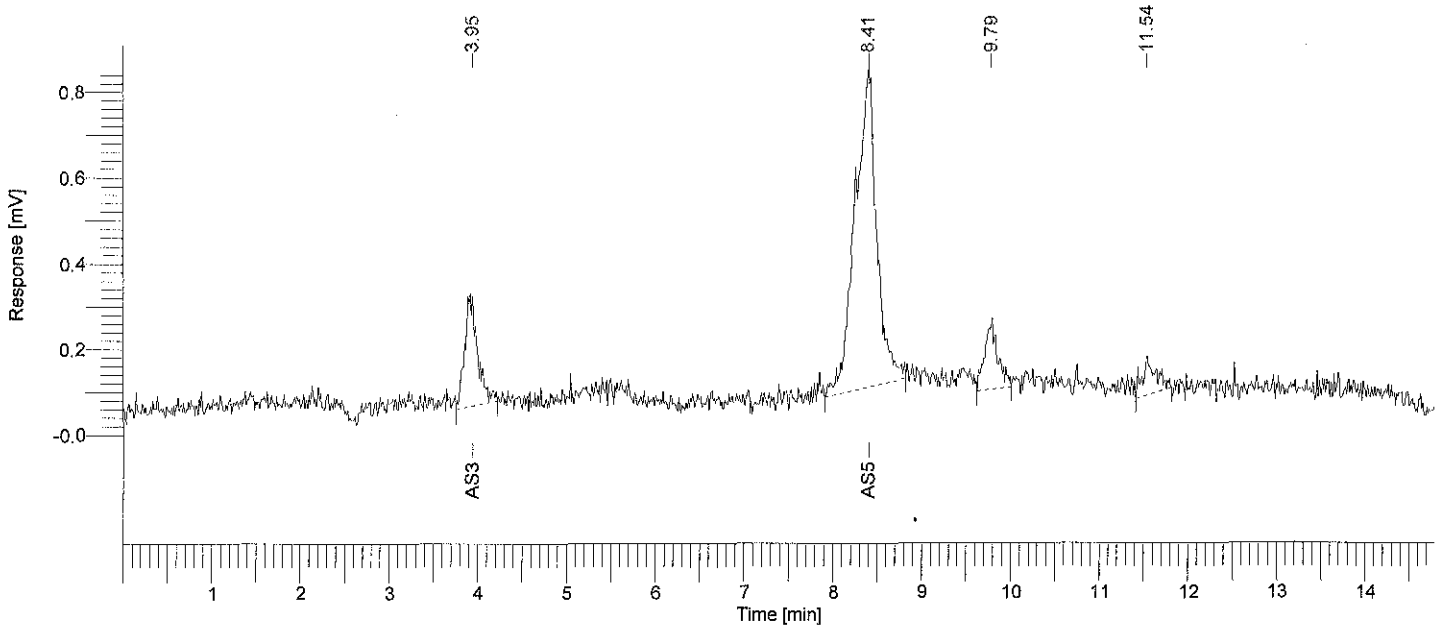
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	77380.74	15977.67	28.44	28.44	MM	0.0774	0.0774
2	As3	3.924	8707.44	875.48	3.20	3.20	BB	0.0087	0.0087
3	MMAs	6.041	75078.24	15484.83	27.59	27.59	BB	0.0751	0.0751
4	As5	8.381	105537.24	14615.12	38.78	38.78	BB	0.1055	0.1055
5		9.760	3775.78	396.91	1.39	1.39	BB	0.0038	0.0038
6		11.530	1630.16	135.98	0.60	0.60	BB	0.0016	0.0016
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			272109.60	47485.99	100.00	100.00		0.2721	0.2721

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:02 PM
Sample Name	: 6103062	Data Acquisition Time	: 10/31/2006 5:57:39 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 62		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103062-061031-094648_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.946	2632.68	240.42	14.68	14.68	BB	0.0026	0.0026
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.407	12704.74	730.07	70.83	70.83	BB	0.0127	0.0127
3		9.789	1656.43	149.45	9.23	9.23	BB	0.0017	0.0017
4		11.544	943.59	88.32	5.26	5.26	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			17937.44	1208.25	100.00	100.00		0.0179	0.0179

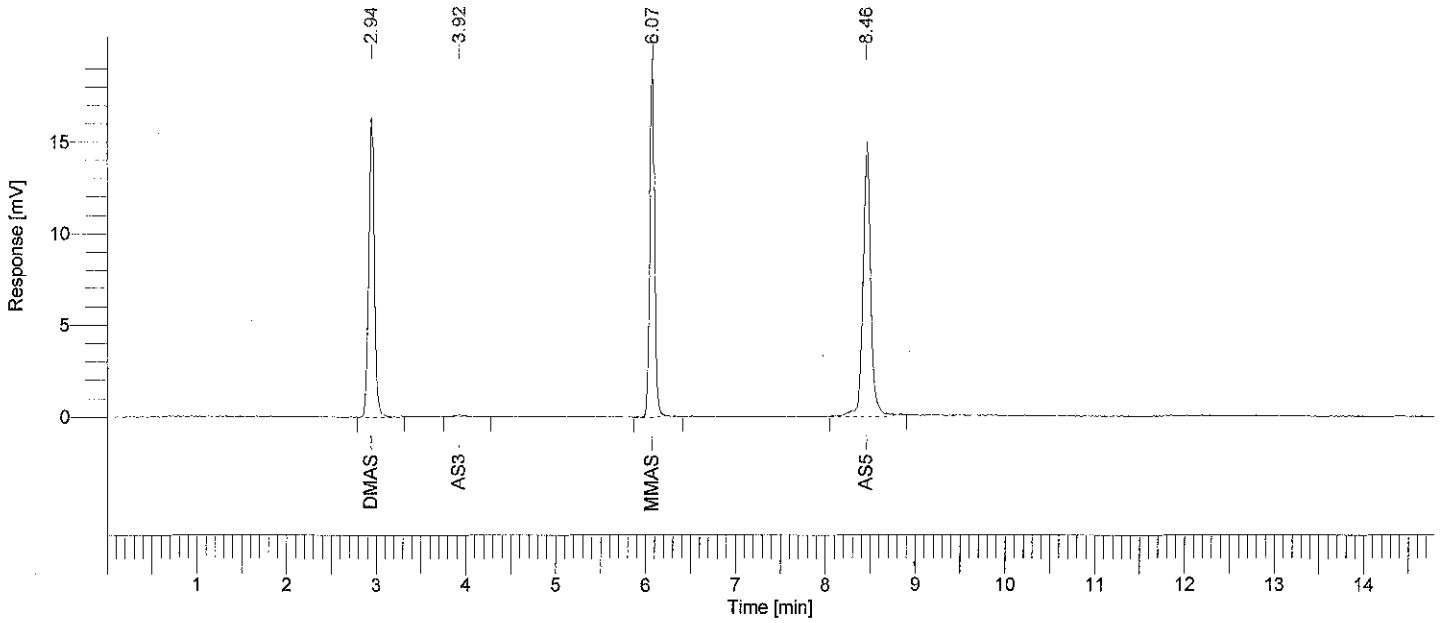
11/9/2006 4:45:02 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103062-061031-094648_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:18 PM
Sample Name	: 6103068	Data Acquisition Time	: 10/31/2006 10:48:08 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103068-061031-123447_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

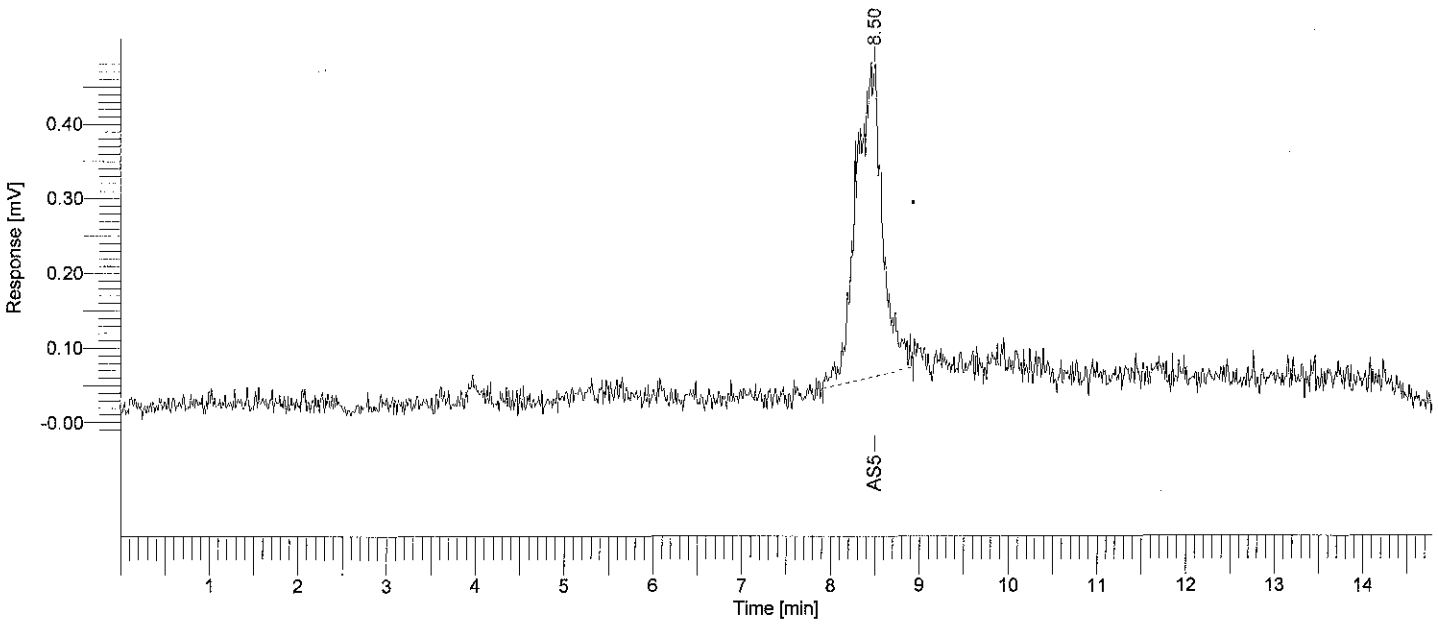
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.942	72657.14	16595.25	30.75	30.75	BB	0.0727	0.0727
2	As3	3.925	1115.41	107.78	0.47	0.47	BB	0.0011	0.0011
3	MMAs	6.072	70010.26	18478.64	29.63	29.63	BB	0.0700	0.0700
4	As5	8.457	92493.12	14814.96	39.15	39.15	BB	0.0925	0.0925
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			236275.93	49996.62	100.00	100.00		0.2363	0.2363

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:26 PM
Sample Name	: 6103069	Data Acquisition Time	: 10/31/2006 11:04:03 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103069-061031-123454_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

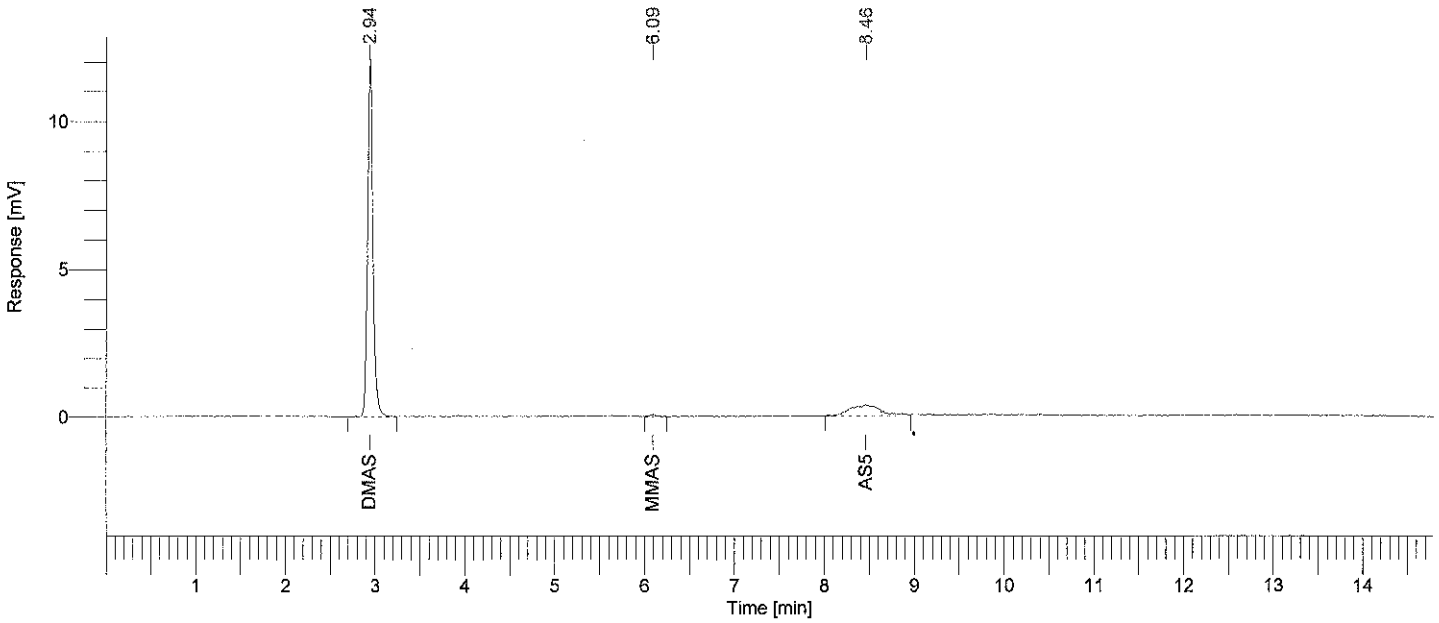
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.498	8767.08	414.42	100.00	100.00	BB	0.0088	0.0088
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			8767.08	414.42	100.00	100.00		0.0088	0.0088

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:34 PM
Sample Name	: 6103070	Data Acquisition Time	: 10/31/2006 11:19:14 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103070-061031-123501_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

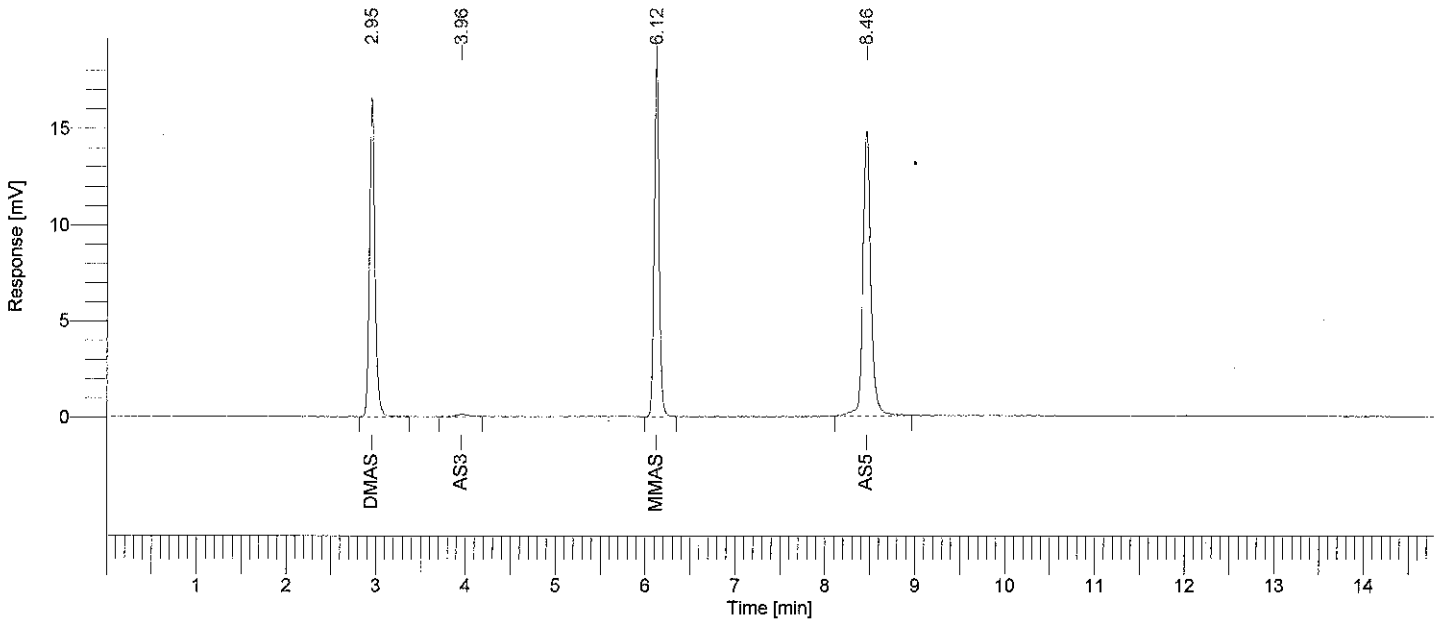
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.941	51527.54	11922.00	84.91	84.91	BB	0.0515	0.0515
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.093	423.16	72.66	0.70	0.70	BB	0.0004	0.0004
3	As5	8.464	8731.58	366.40	14.39	14.39	BB	0.0087	0.0087
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			60682.28	12361.06	100.00	100.00		0.0607	0.0607

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:42 PM
Sample Name	: 6103071	Data Acquisition Time	: 10/31/2006 11:34:25 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103071-061031-131954_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

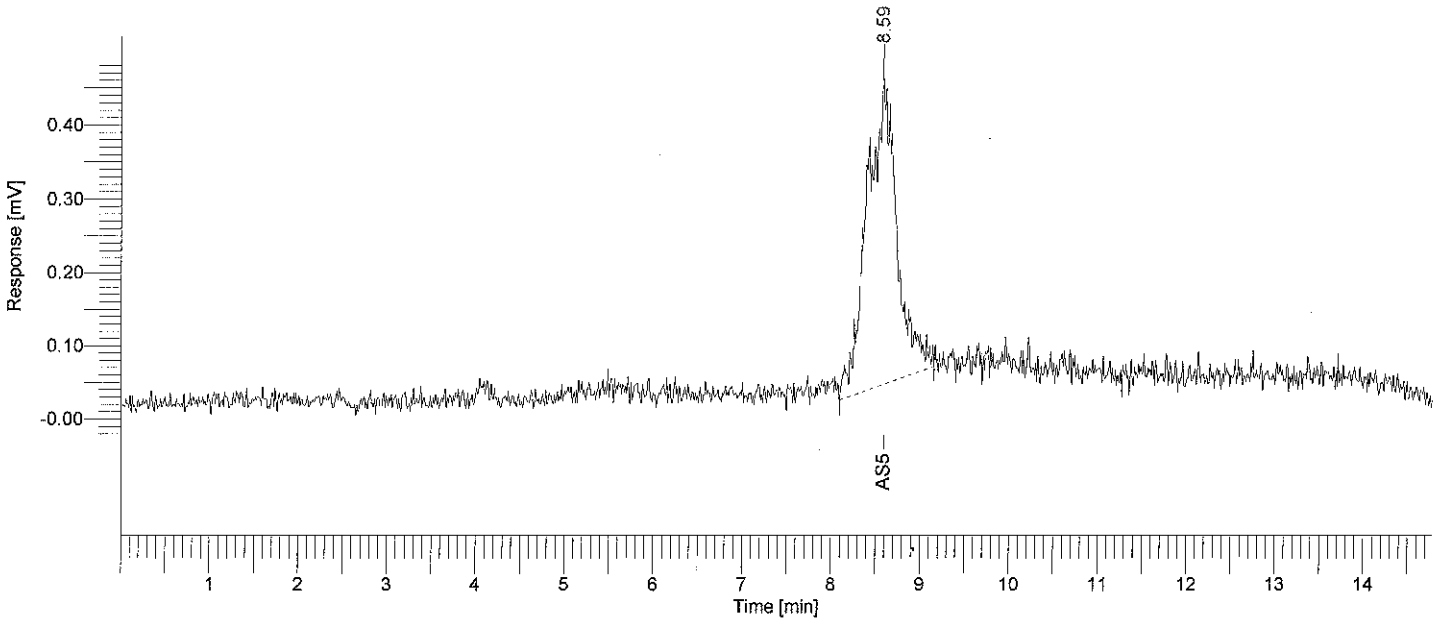
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.952	73296.85	16603.04	30.70	30.70	BB	0.0733	0.0733
2	As3	3.955	1329.12	129.39	0.56	0.56	BB	0.0013	0.0013
3	MMAs	6.122	70720.97	18090.68	29.62	29.62	BB	0.0707	0.0707
4	As5	8.459	93385.59	14785.50	39.12	39.12	BB	0.0934	0.0934
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			238732.53	49608.61	100.00	100.00		0.2387	0.2387

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:54 PM
Sample Name	: 6103072	Data Acquisition Time	: 10/31/2006 11:49:36 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103072-061031-132001_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.594	9729.13	418.22	100.00	100.00	BB	0.0097	0.0097
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9729.13	418.22	100.00	100.00		0.0097	0.0097

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

APPLIED SPECIATION AND CONSULTING, LLC

953 Industry Drive Tukwila, WA 98188
Tel: (206) 219-3779 Fax: (206) 388-3485
www.appliedspeciation.com

November 10, 2006

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608
(352) 335-5877

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061030

Dear Ms. Klopper,

Attached is the report associated with two (2) samples submitted for monomethylarsonic acid (MMAs) and cacodylic acid (DMAs) quantification on October 27, 2006. All samples were received on October 30, 2006, in a sealed cooler at 13.8°C. MMAs and DMAs speciation analysis was performed by ion chromatography inductively coupled plasma mass spectrometry (IC-ICP-MS). Any analytical issues associated with the analysis are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Table of Contents

Prepared for:

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061030

November 10, 2006

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Sample Results	6-7
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Raw Data (ICICPMS-061030-As)	10-103

Applied Speciation and Consulting, LLC

Report Prepared for:

Amy Klopper
CH2M HILL
3011 Southwest Williston Road
Gainesville, FL 32608

Sampling Program: Quanta 3006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061030

November 10, 2006

1. Sample Reception

Two (2) samples in 125mL HDPE bottles were submitted for monomethylarsonic acid (MMAs) and cacodylic acid (DMAs) quantification on October 27, 2006. All samples were received in a sealed cooler on October 30, 2006 at 13.8°C.

It should be noted that an amended chain of custody form was provided by CH2M HILL on November 3, 2006 which reflected modified field sample IDs for all samples associated with this SDG. All laboratory IDs were adjusted in accordance with the revised field sample IDs. This report reflects only the revised field sample IDs and amended laboratory sample IDs. Both the as received and amended chain of custody forms are included with this report.

All samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. Upon reception, all samples were designated discrete sample identifiers and were immediately placed in a secure, monitored cryofreezer (maintained at -80°C) until analysis could be performed. All samples were analyzed for MMAs and DMAs by ion chromatography inductively coupled plasma mass spectrometry (IC-ICP-MS).

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

In accordance with the project specific work plan, designated samples were field preserved with a buffered 0.125 M EDTA acetic acid/acetate solution.

MMAs and DMAs Quantification by IC-ICP-MS All samples were filtered with a syringe filter (0.45um) and injected directly into sealed autosampler vials. No further sample preparation was performed as any chemical alteration of the samples may shift the equilibrium of the system resulting in changes in speciation ratios.

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

MMAs and DMAs Quantification by IC-ICP-MS All samples for MMAs and DMAs quantification were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Aliquots of each sample are injected onto an anion exchange column and are mobilized by a basic (pH > 7) gradient. The eluting arsenic species are then introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and separated on the basis of their mass-to-charge ratio (m/z) by a mass spectrometer. A solid-state detector detects ions transmitted through the mass analyzer and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

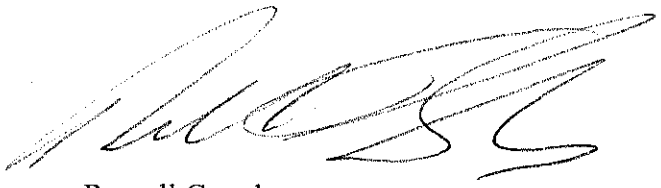
4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control parameters associated with these samples was within acceptance limits.

It should be noted that the estimated method detection limits (eMDLs) for MMAs and DMAs are generated from replicate analyses of the lowest standard in the calibration curve. Not all arsenic species are present in preparation blanks; therefore, eMDL calculations based on preparation blanks are artificially biased low.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,



Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

953 Industry Drive

Tukwila, WA 98188

Russ Gerads

Honeywell

Chain Of Custody / Analysis Request

AESI Ref:	39010.55982
COC#	30916-XXXXX
	30916-102706 GW-ASC
	GW-ASC
Lab Proj # (SDG):	
Lab ID	
Site ID	Quanta
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential	
Site Name:	Quanta Resources (Edgewater)
Phase:	
Sampling Co.:	CH2M HILL
EDD To:	john.mitchell@ch2m.com, amy.klopper@ch2m.com
Location of Site:	Edgewater, NJ
Sampling Program	Quanta 2006 OU1 SI
Client Contact: (name, co., address)	Jennifer Simms, 1700 Market Street, Suite 1600, Philadelphia, PA 19103
Sampler:	Dave Reamer / Leslie Baechler
PO #	
Analysis Turnaround Time (TAT):	
Consultant	CH2M
Preliminary Data To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Sample Receipt Acknowledgement To	amy.klopper@ch2m.com, jennifer.simms@ch2m.com
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road, Gainesville, FL 32608
Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com

Preservative

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	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	ASC-085 - DMA/MMA	Sampling Method (code)	Lab Sample Numbers
											Units				
1	MW-L			MW-L-102606	10/26/06	1725	GW	WATER	REG	1	G	N	X		
2	MW-114B			MW-114B-102606	10/26/06	2105	GW	WATER	REG	1	G	N	X		0004
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
Leslie Baechler	CH2M HILL	[signature]			
Date/Time: 102706@1300		Date/Time: 10-30-06/10:20		Cooler Temp.: 13.8°C	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
Date/Time		Date/Time		Cooler Temp.	

Preservatives: (Other; Specify): 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

Applied Speciation and Consulting, LLC
953 Industry Drive
Tukwila, WA 98188
Russ Gerads

Honeywell **Chain Of Custody / Analysis Request**

AESI Ref:	39024.61853		
COC#	39016-102705-SU-ASC		
Lab Proj # (SDG):			
Lab ID			
Site ID	Quanta		
Lab Job #			
Authorized User:	Honeywell		

Sampling Co.:	CH2M HILL	Privileged & Confidential	
Client Contact: (name, co., address)		EDD To:	ohn.mitchell@ch2m.com, amy.klopper@ch2m.com
Jennifer Simms		Sampler:	Dave Reamer, Leslie Baechler, Austin Harclerode
1700 Market Street, Suite 1600		PO #	
Philadelphia, PA 19103		Analysis Turnaround Time (TAT):	
Preliminary Data To:	amy.klopper@ch2m.com, jennifer.simms@ch2m.com	Consultant	CH2M
Sample Receipt Acknowledgement To:	amy.klopper@ch2m.com, jennifer.simms@ch2m.com		
Hard Copy To	Amy Klopper, 3011 Southwest Williston Road,	Full Report TAT:	
Invoice To:	jennifer.simms@ch2m.com		

Site Name:	Quanta Resources (Edgewater)	Phase:	
Location of Site:	Edgewater, NJ	Sampling Program	Quanta 2006 OU1 SI

Text & Excel File Order	Excel & Text File Order		

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	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	ASC-095 - DMA/MMA	Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units				
1	MW-L			MW-L-102706	10/27/2006	17:25	GW	WATER	REG	1	grab	N	X		
2	MW-114B			MW-114B-102706	10/27/2006	21:05	GW	WATER	REG	1	grab	N	X		
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Relinquished by	Company	CH2M HILL	Received by	Company		Condition	Custody Seals Intact
Leslie Baechler	Date/Time	10/27/06 13:00		Date/Time		Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

0005

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061030
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/27/2006 Date Received: 10/30/2006

Field Sample ID
MW-L-102606-F

Laboratory Sample ID
MW-L-102606-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/31/2006	20	0.11	1.0	0.11 U
MMAs	EPA6800	10/31/2006	20	0.059	1.0	0.059 U

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061030
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Date Sampled: 10/27/2006 Date Received: 10/30/2006

Field Sample ID
MW-114B-102606-F

Laboratory Sample ID
MW-114B-102606-F

Analyte	Method	Date Analyzed / Prepared	Dilution	eMDL	Reporting Limit	Concentration
DMAs	EPA6800	10/31/2006	20	0.11	1.0	0.11 U
MMAs	EPA6800	10/31/2006	20	0.059	1.0	0.938 J

All results are reported in µg/L and reflect the applied dilution unless otherwise specified
U = Sample concentration is below the eMDL

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061030
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*	eMDL 20x*	RL 20x
DMAs	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.11	1.0
MMAs	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.059	1.0

eMDL = Estimated Method Detection Limit
*Please see narrative regarding eMDL calculations

Quality Control Summary - Laboratory Control Sample

Analyte (µg/L)	LCS	True Value	Result	Recovery
DMAs	ICV	2.000	1.974	98.7
MMAs	ICV	2.000	2.196	109.8

0008

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Rep 1	Rep 2	Mean	RPD
DMAs	MW-114B-102606-F	52 U	52 U	NC	NC
MMAs	MW-114B-102606-F	0.938	0.764	0.851	20.4

NC = Not calculated due to one or more concentrations below the eMDL
U = Sample concentration is below the eMDL

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
DMAs	MW-114B-102606-F	40.00	35.85	89.6	40.00	35.16	87.9	2.0
MMAs	MW-114B-102606-F	40.00	37.59	94.0	40.00	37.58	93.9	0.0

Arsenic Speciation Results for CH2M HILL
Sampling Program: Quanta 2006 OU1 SI
Project Number: 332898.QT.20.24
SDG: C061030
Contact: Amy Klopper

Date: November 10, 2006
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Quality Control Summary - Initial and Continuing Calibration Verification Standards

Analyte (µg/L)	ICV	True Value	Recovery	CCV1/CCV3/CCV5	True Value	Recovery	CCV2/CCV4	True Value	Recovery
DMAs	1.97	2.00	98.7	1.918	2.000	95.9	1.931	2.000	96.6
				1.906	2.000	95.3	1.824	2.000	91.2
				1.850	2.000	92.5			
MMAs	2.20	2.00	109.8	1.864	2.000	93.2	1.908	2.000	95.4
				1.880	2.000	94.0	1.857	2.000	92.9
				1.872	2.000	93.6			

Quality Control Summary - Initial and Continuing Calibration Blanks

Analyte (µg/L)	ICB	CCB1	CCB2	CCB3	CCB4	CCB5
DMAs	0.000	0.000	0.000	0.000	0.000	0.000
MMAs	0.000	0.000	0.000	0.000	0.000	0.000

Applied Speciation And Consulting, LLC

Dataset Cover Page

Dataset ID: ICICPMS-061030-As

Analyst: H. Gürleyük

Computations Performed by: H. Gürleyük

Selenium Speciation Analysis by IC-ICP-MS	
Client Name(s): CHM HILL (C061026, C061027, C061030)	QA Level: High
Sample Reception Date: 10/26/06, 10/27/06, 10/30/06	
Does Data Meet all DQOs? yes	

Analytical Discussion:
All samples and Prep Blanks were filtered with 0.45 um syringe filter.

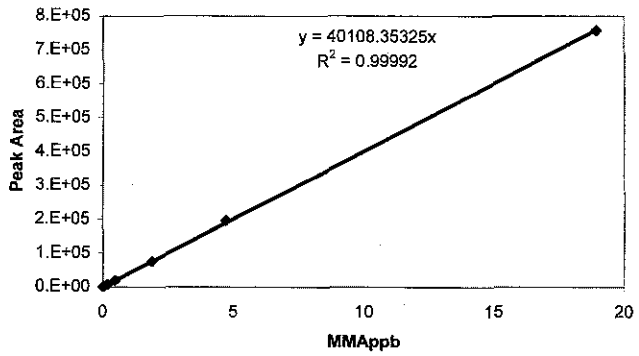
A 0.02 ppb standard was run in quadruplicate to get an accurate MDL for As speciation.

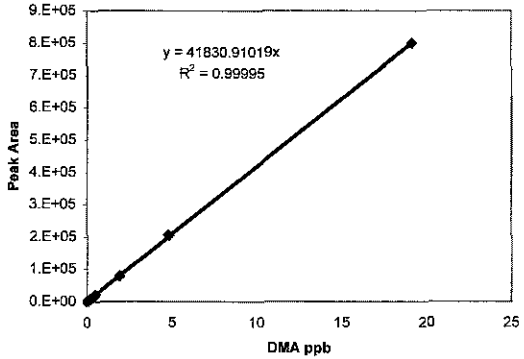
All Samples were diluted in water

The recovery for the 1640 reference material was low but within QC specifications

No Significant Analytical issues were encountered.

Dataset ID: ICICPMS-061027-As
Analyst: HakanG
MMAs DMAs





Run #	Conc (ppb)	Peak Area	Peak Area
		956606	946471
		DMA	MMA
		Conc (ppb)	Peak Area	Conc (ppb)
		0	0.00	0
		0	0.00	0
		0	0.00	0
		832	0.02	762
		766.22	0.02	803
		938	0.02	857
		876	0.02	808
		1892	0.05	2094
		7947	0.19	7474
		19506	0.47	18732
		78701	1.89	76150
		205410	4.73	196091
		799127	18.93	757641
			1.89	757641
		41830.91019		40108.35325
				43642.08781
		0		

Run #	Dil Fac	TV	DMA Peak Area	MMA Peak Area	Conc (ppb) DMA	Conc (ppb) MMA	Remarks	DMA Calc.	MMA Calc.
6103001 blank	1		0	0	0.000	0.000			
6103002 blank	1		0	0	0.000	0.000			
6103003 blank	1		0	0	0.000	0.000			
6103004 blank	1		0	0	0.000	0.000			
6103005 0.02 ppb 5DM	1		832	762	0.020	0.019	Mean ppb=	0.0204	0.0201
6103006 0.02 ppb 5DM	1		766	803	0.018	0.020	stdev=	0.0017	0.0010
6103007 0.02 ppb 5DM	1		938	857	0.022	0.021	eMDL=	0.0052	0.0029
6103008 0.02 ppb 5DM	1		876	808	0.021	0.020			
6103009 0.05 ppb	1		1892	2094	0.045	0.052			
6103010 0.2 ppb	1		7947	7474	0.190	0.186			
6103011 0.5 ppb	1		19506	18732	0.466	0.467			
6103012 2 ppb	1		78701	76150	1.881	1.899			
6103013 5 ppb	1		205410	196091	4.910	4.889			
6103014 20 ppb	1		799127	757641	19.104	18.890			
6103015 Rinse	1		0	0	0.000	0.000			
6103016 ICV 2 ppb As3	1	2	0	0	0.000	0.000			
6103017 ICV 2ppb 5MD	1	2	82556	88090	1.974	2.196	%Rec=	98.7	109.8
6103018 ICB	1		0	0	0.000	0.000			
6103019 1640 25x	25	26.67	0	0	0.000	0.000			
6103020 CCV1 2ppb	1	2	80232	74779	1.918	1.864	%Rec=	95.9	98.5
6103021 CCB1	1		0	0	0.000	0.000			
6103022 PB1	1		0	0	0.000	0.000	PB Average=	0.00	0.00
6103023 PB2	1		0	0	0.000	0.000	PB RSD=	0.0	0.0
6103024 PB3	1		0	0	0.000	0.000	eMDL=	0	0
6103025 PB4	1		0	0	0.000	0.000			
6103026 MW-N-1-102506-ASC-B-805 A 10,000X	10000		0	0	0.000	0.000	AD Average=	0.0	0.0
6103027 MW-N-1-102506-ASC-B-805 AD 10,000X	10000		0	0	0.000	0.000	MD RPD	0.0	0.0
03028 MW-N-1-102506-ASC-B-805 AS + 2ppb 10,00(	10000	20000	79297	74468	18957	18567	AS %Rec.=	94.8	98.1
03029 MW-N-1-102506-ASC-B-805 ASD + 2ppb 10,0(	10000	20000	79360	74816	18972	18653	ASD %Rec.=	94.9	98.5
3103030 MW-N-1-102506-ASC-B-800 + 2 ppb 10,000)	10000	20000	81403	75694	19460	18872	AS %Rec.=	97.3	99.7
3103031 MW-N-1-102506-ASC-B-811 + 2 ppb 10,000)	10000	20000	79348	74893	18969	18673	ASD %Rec.=	94.8	98.6

0011

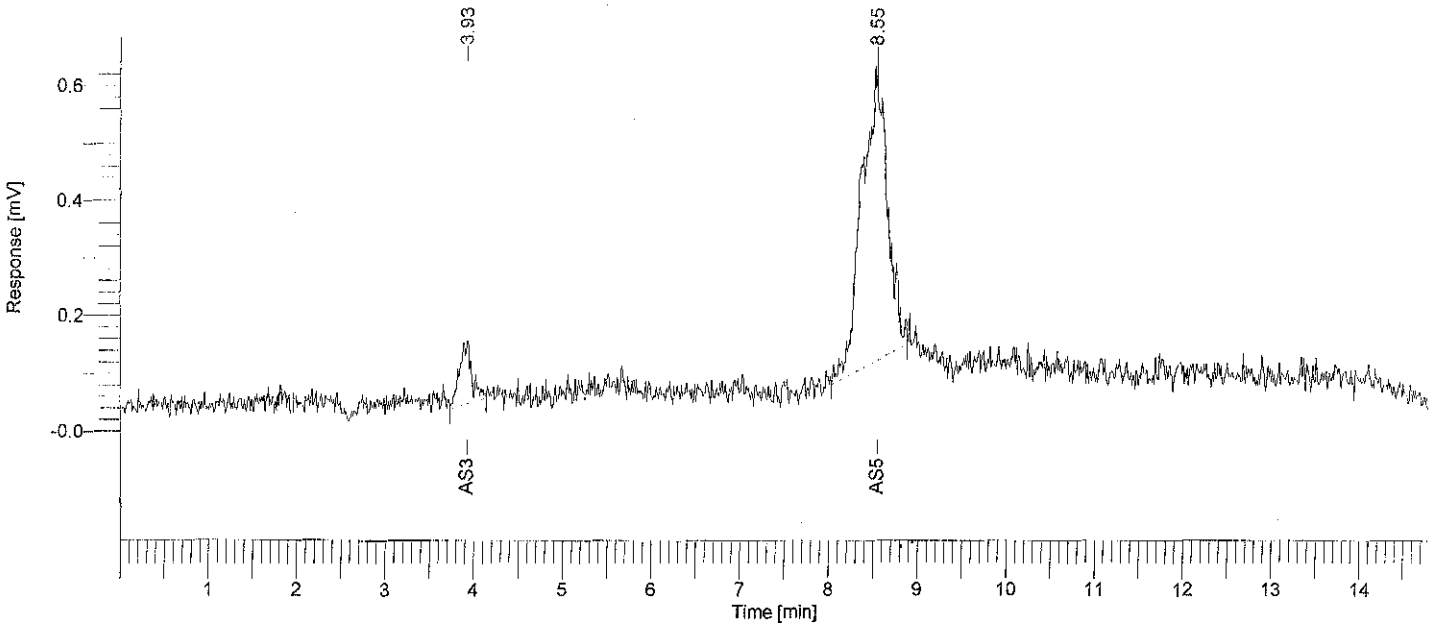
Dataset ID: ICICPMS-061027-As
Analyst: HakanG
MMAs DMAs

Run #	Dil Fac	TV	DMA Peak Area	MMA Peak Area		Conc (ppb) DMA	MMA	Remarks	DMA Calc.	MMA Calc.
6103032 CCV2 2ppb	1	2	80777	76530		1.93	1.91	%Rec=	96.6	100.8
6103033 CCB2	1		0	0		0.00	0.00			
6103034 MW-N-2-102506 10,000X	10000		0	0		0.00	0.00			
6103035 MW-O-102506 20X	20		0	296		0.00	0.15			
6103036 DUP-102506-GW 20X	20		0	132		0.00	0.07			
6103037 MW-A-2-102506 10,000X	10000		0	140		0.00	34.91			
6103038 EB-102506-GW 20X	20		0	0		0.00	0.00			
6103039 MW-107-A-102606 10,000X	10000		0	0		0.00	0.00			
6103040 MW-109-A-102606 20X	20		0	0		0.00	0.00			
6103041 MW-36-102606 20X	20		0	1562		0.00	0.78			
6103042 EB-102606-GW 20X	20		0	0	0	0.00	0.00			
6103043 MW-111-B-102606 A 10,000X	10000		0	0	0	0.00	0.00			
6103044 CCV3 2 ppb	1	2	79710	75408	0	1.91	1.88	%Rec=	95.3	99.3
6103045 CCB3	1		0	0	2892	0.00	0.00			
6103046 MW-111-B-102606 AD 10,000X	10000		0	0	85138	0.00	0.00	AD Average=	0.0	0.0
6103047 MW-111-B-102606 AS 10,000X	10000	20000	81123	76915	0	19393.08	19176.80	MD RPD	0.0	0.0
6103048 MW-111-B-102606 ASD 10,000X	10000	20000	80145	75327	0	19159.28	18780.88	AS %Rec.=	97.0	93.9
6103049 MW-L-102606 10,000X	10000		0	0	0	0.00	0.00	ASD %Rec.=	95.8	95.9
6103050 MW-114B-102606 A 10,000X	10000		0	0	0	0.00	0.00	AD Average=	0.0	0.0
6103051 MW-114B-102606 AD 10,000X	10000		0	0	0	0.00	0.00	MD RPD	0.0	0.0
6103052 MW-114B-102606 AS + 2ppb 10,000X	10000	20000	78132	74519	0	18678.05	18579.42	AS %Rec.=	93.4	92.9
6103053 MW-114B-102606 ASD + 2ppb 10,000X	10000	20000	78679	75619	82825	18808.82	18853.68	ASD %Rec.=	94.0	94.3
6103054 CCV4 2 ppb	1	2	76279	74492	0	1.82	1.86	%Rec=	91.2	98.1
6103055 CCB4	1		0	0	0	0.00	0.00			
6103056 MW-L-102606 20X	20		0	0	0	0.00	0.00			
6103057 MW-114B-102606 A 20X	20		0	1882	0	0.00	0.94	AD Average=	0.0	0.9
6103058 MW-114B-102606 AD 20X	20		0	1533	0	0.00	0.76	MD RPD	0.0	20.4
6103059 MW-114B-102606 AS + 2ppb 20X	20	40	74987	75384		35.85	37.59	AS %Rec.=	89.6	91.8
6103060 MW-114B-102606 ASD + 2ppb 20X	20	40	73536	75361		35.16	37.58	ASD %Rec.=	87.9	91.8
6103061 CCV5 2 ppb	1	2	77381	75078		1.85	1.87	%Rec=	92.5	98.9
6103062 CCB5	1		0	0		0.00	0.00			
6103068 CCV6	1	2	72657	70010		1.74	1.75			
6103069 CCB6	1		0	0		0.00	0.00			
6103070 DMAs ICV 2ppb	1	1.34	51528	423		1.23	0.01	%Rec=	91.9	
6103071 CCV7	1	2	73297	70721		1.75	1.76	%Rec=	87.6	93.1
6103072 CCB7	1		0	0		0.00	0.00			

0012

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:33:43 PM
Sample Name	: 6103001	Data Acquisition Time	: 10/30/2006 2:31:28 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103001-061031-094005_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

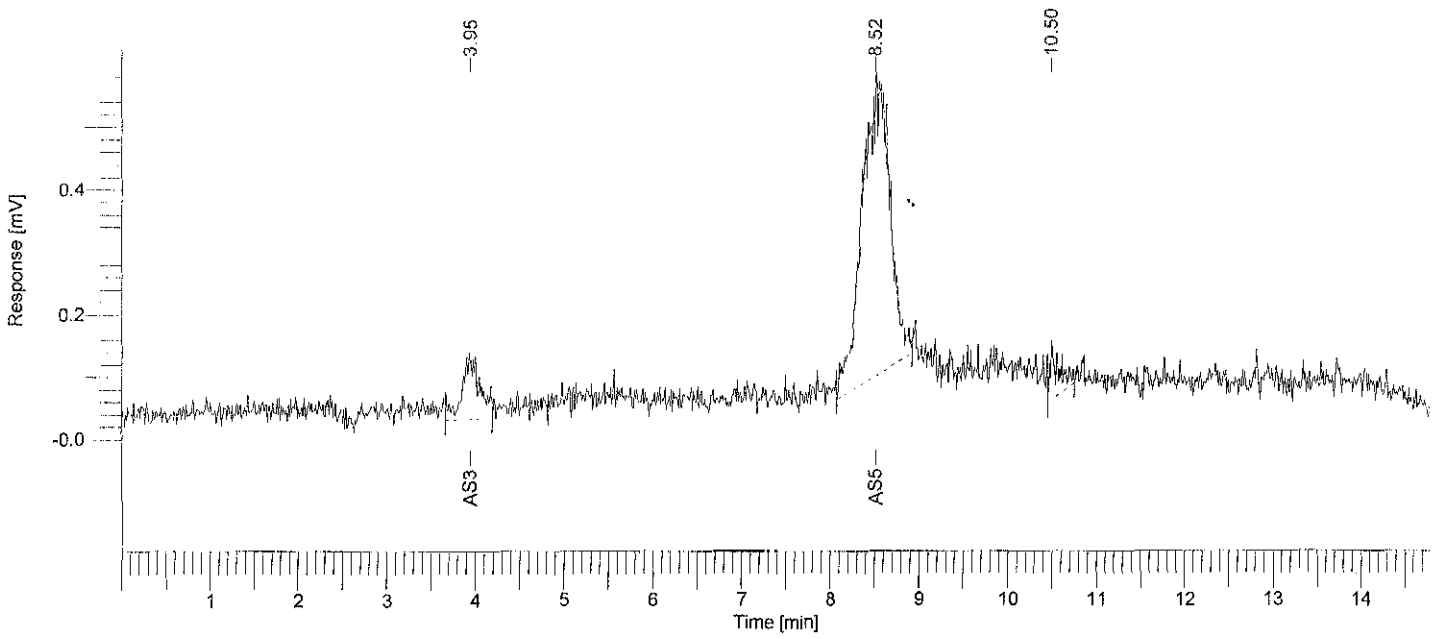
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.926	1045.12	108.79	9.30	9.30	BB	0.0010	0.0010
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.553	10189.21	507.26	90.70	90.70	BB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11234.33	616.05	100.00	100.00		0.0112	0.0112

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:33:57 PM
Sample Name	: 6103002	Data Acquisition Time	: 10/30/2006 2:46:39 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103002-061031-094012_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.951	1438.46	95.66	11.51	11.51	BB	0.0014	0.0014
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.519	10439.84	454.58	83.55	83.55	BB	0.0104	0.0104
3		10.501	616.28	73.02	4.93	4.93	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12494.58	623.26	100.00	100.00		0.0125	0.0125

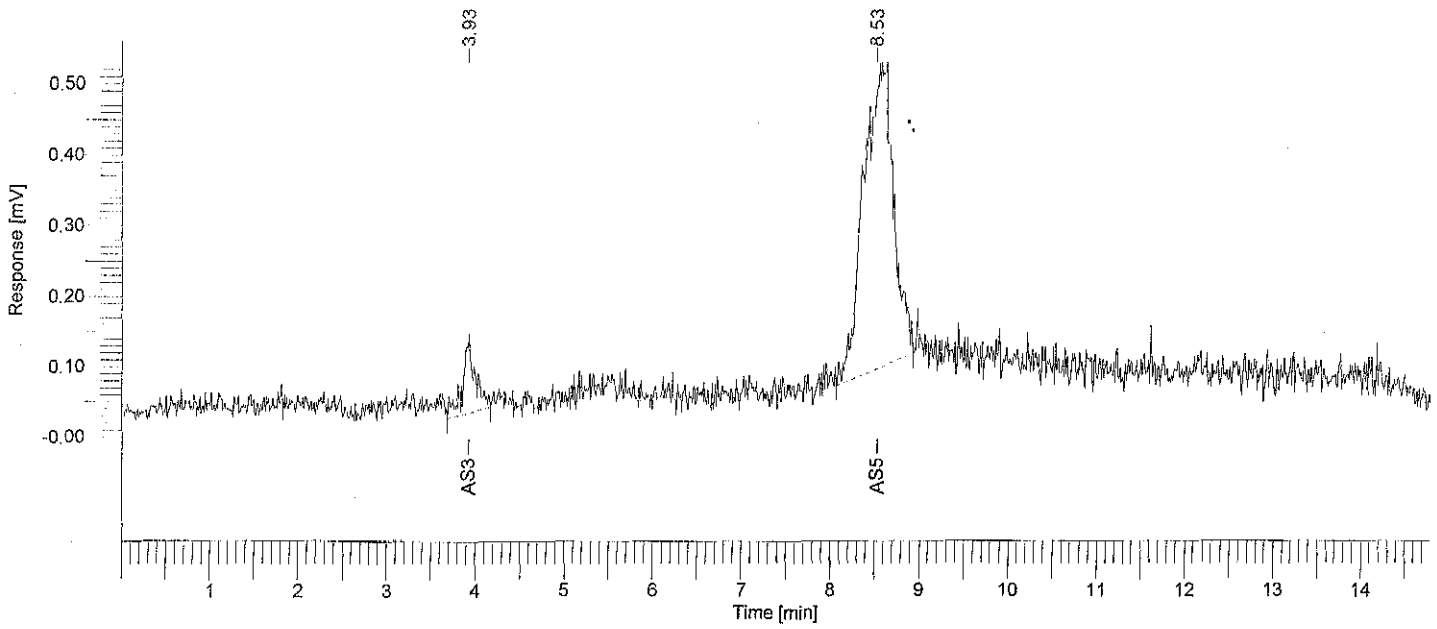
11/9/2006 4:33:57 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103002-061031-094012_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:08 PM
Sample Name	: 6103003	Data Acquisition Time	: 10/30/2006 3:01:50 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103003-061031-094018_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

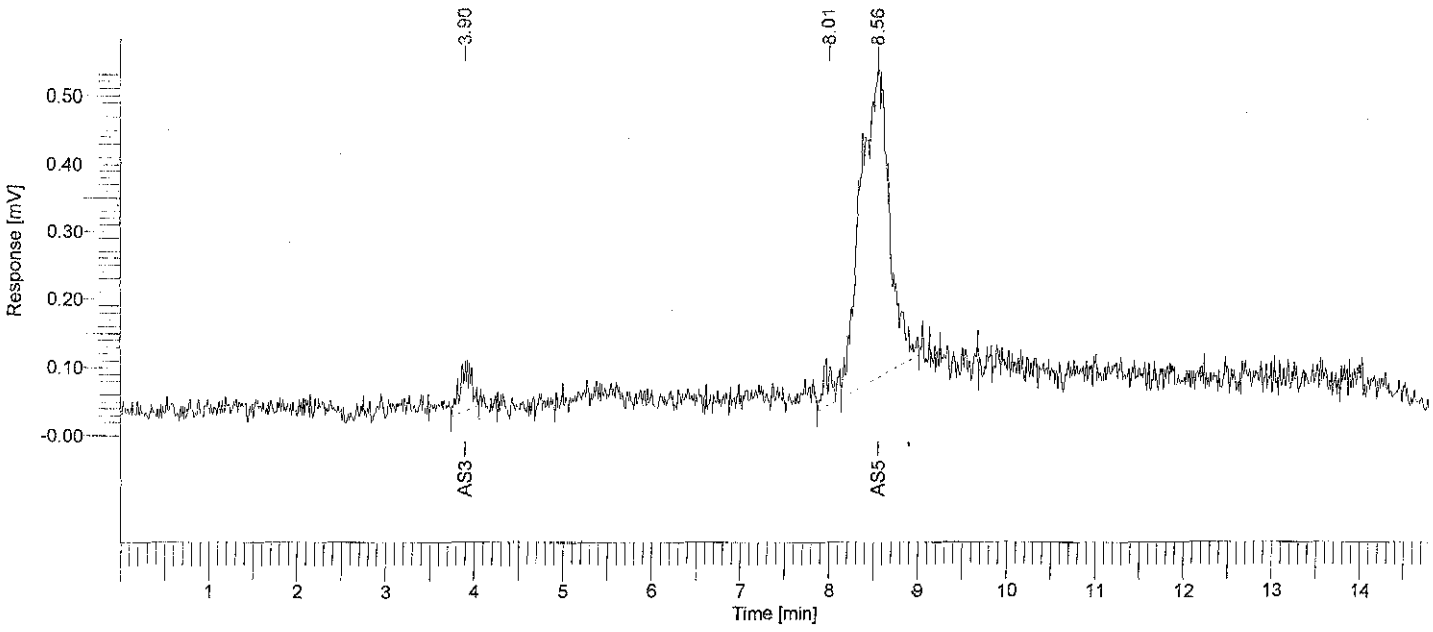
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.930	1069.26	110.35	9.57	9.57	BB	0.0011	0.0011
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.533	10108.98	397.60	90.43	90.43	BB	0.0101	0.0101
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11178.24	507.95	100.00	100.00		0.0112	0.0112

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:23 PM
Sample Name	: 6103004	Data Acquisition Time	: 10/30/2006 3:17:01 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 4		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103004-061031-094025_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.905	619.12	71.83	5.46	5.46	BB	0.0006	0.0006
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		8.011	480.09	53.85	4.23	4.23	BV	0.0005	0.0005
3	As5	8.562	10246.59	446.43	90.31	90.31	VB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11345.80	572.11	100.00	100.00		0.0113	0.0113

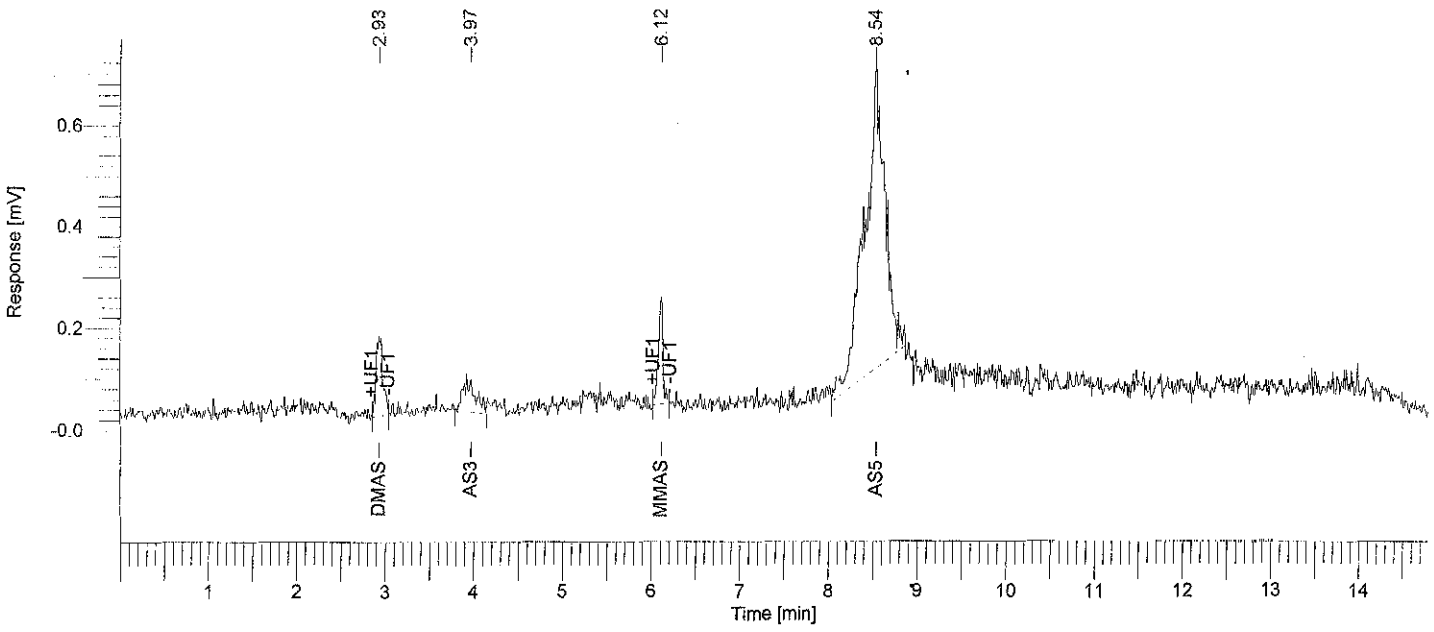
11/9/2006 4:34:23 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103004-061031-094025_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:31 PM
Sample Name	: 6103005	Data Acquisition Time	: 10/30/2006 3:32:12 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 5		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103005-061031-094031_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

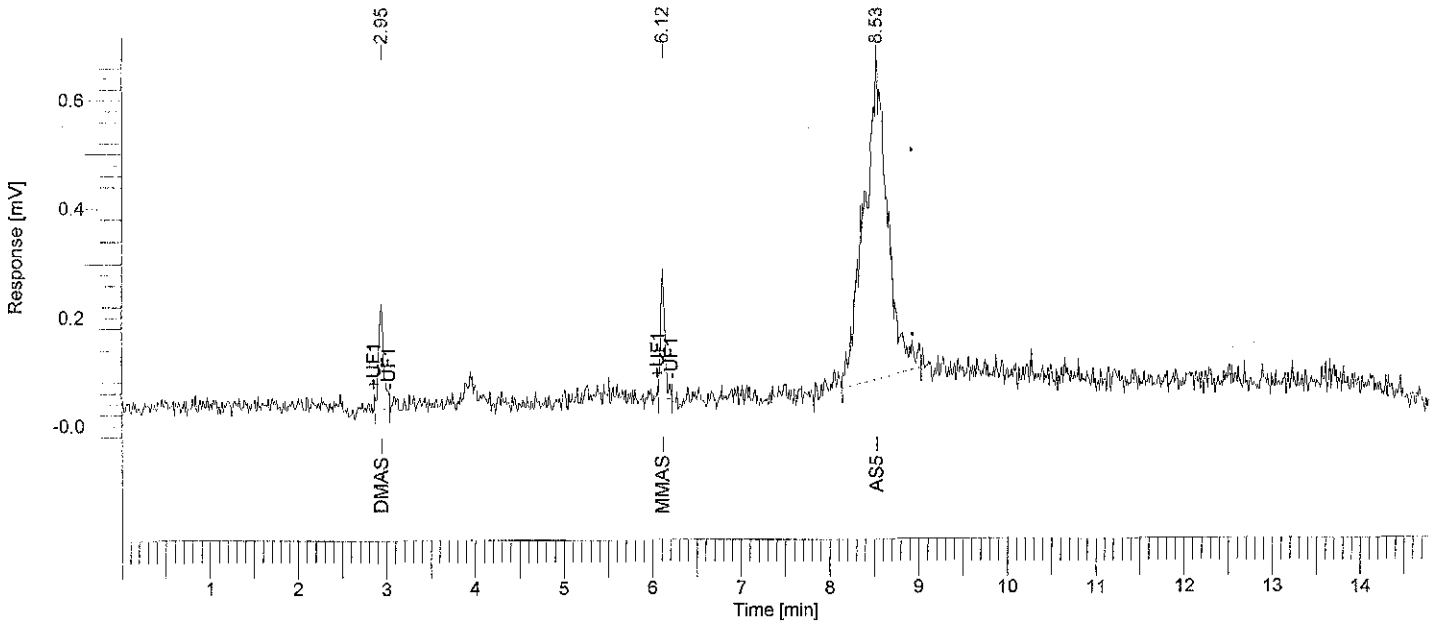
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	831.80	156.32	7.11	7.11	MM	0.0008	0.0008
2	As3	3.971	646.10	59.57	5.52	5.52	BB	0.0006	0.0006
3	MMAs	6.118	761.64	211.06	6.51	6.51	MM	0.0008	0.0008
4	As5	8.545	9464.30	607.84	80.86	80.86	BB	0.0095	0.0095
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11703.83	1034.79	100.00	100.00		0.0117	0.0117

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:42 PM
Sample Name	: 6103006	Data Acquisition Time	: 10/30/2006 3:47:23 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 6		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103006-061031-094038_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

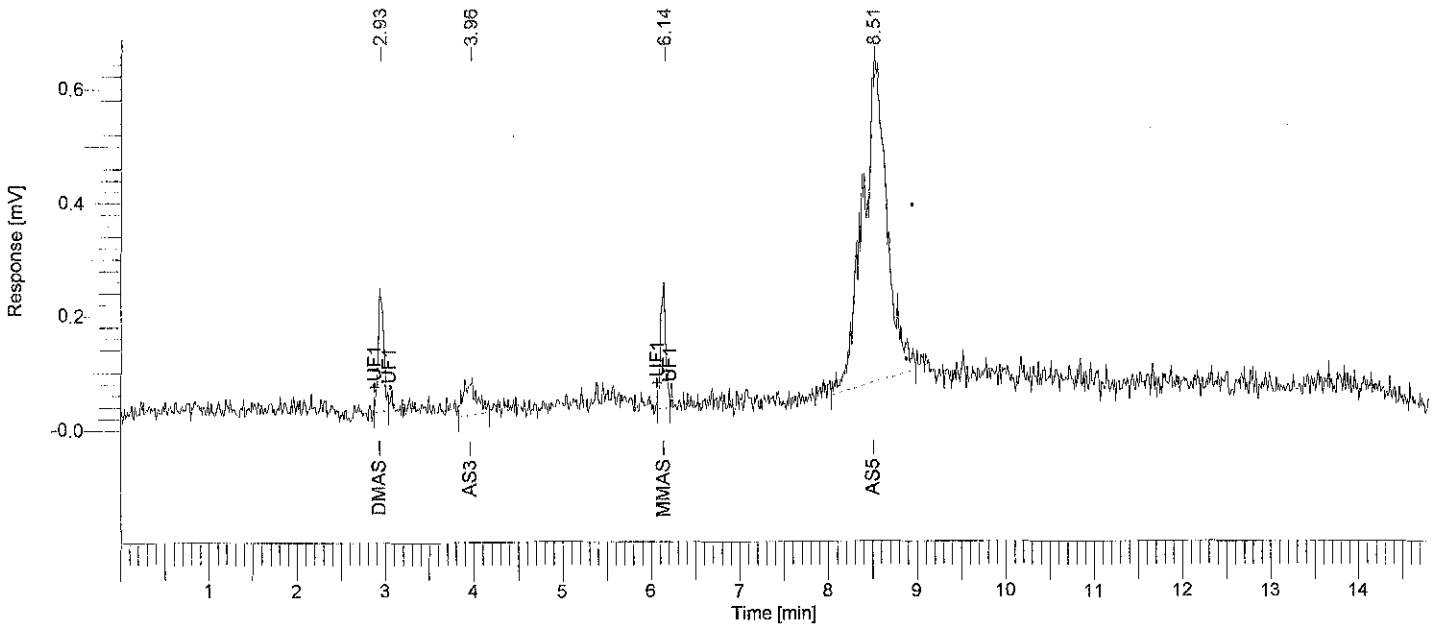
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	766.22	193.51	6.16	6.16	MM	0.0008	0.0008
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.118	802.75	240.31	6.46	6.46	MM	0.0008	0.0008
3	As5	8.534	10866.55	570.13	87.38	87.38	BB	0.0109	0.0109
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12435.52	1003.95	100.00	100.00		0.0124	0.0124

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:34:51 PM
Sample Name	: 6103007	Data Acquisition Time	: 10/30/2006 4:02:34 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 7		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103007-061031-094045_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

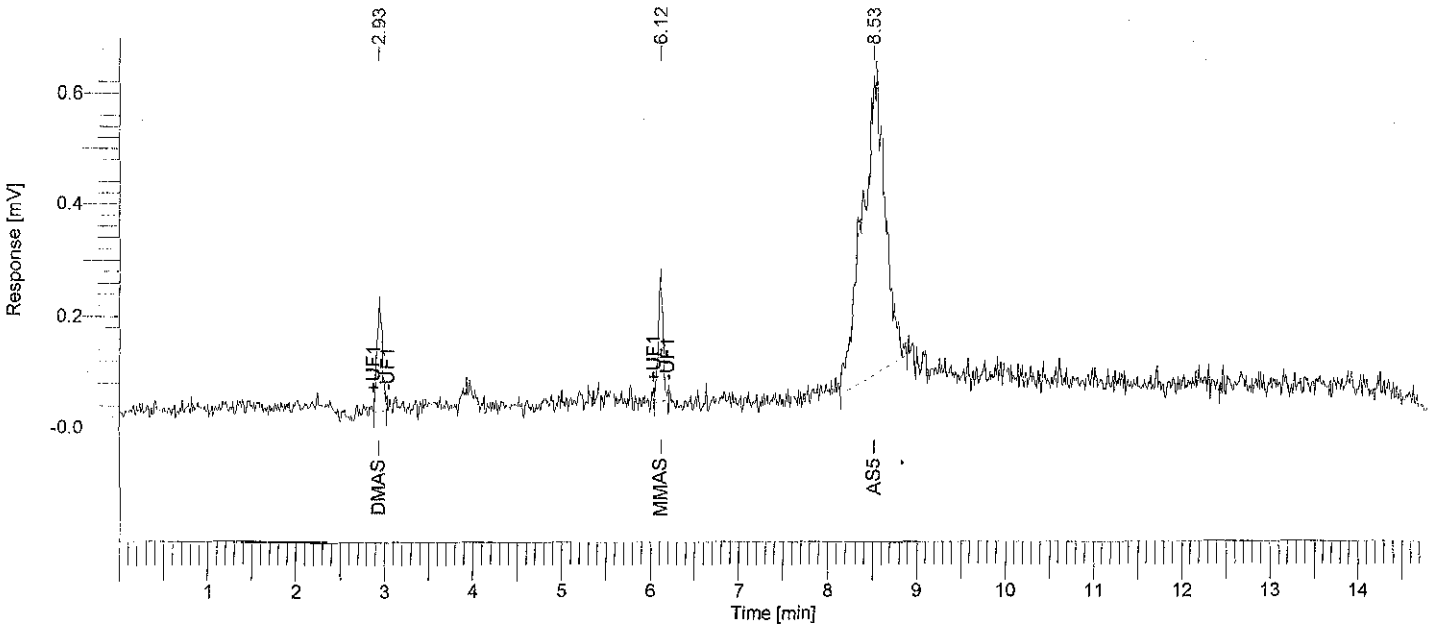
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	937.75	217.53	7.08	7.08	MM	0.0009	0.0009
2	As3	3.961	639.00	55.69	4.82	4.82	BB	0.0006	0.0006
3	MMAs	6.141	856.89	222.52	6.47	6.47	MM	0.0009	0.0009
4	As5	8.510	10814.72	557.26	81.63	81.63	BB	0.0108	0.0108
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			13248.36	1053.00	100.00	100.00		0.0132	0.0132

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:00 PM
Sample Name	: 6103008	Data Acquisition Time	: 10/30/2006 4:17:45 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 8		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103008-061031-094051_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

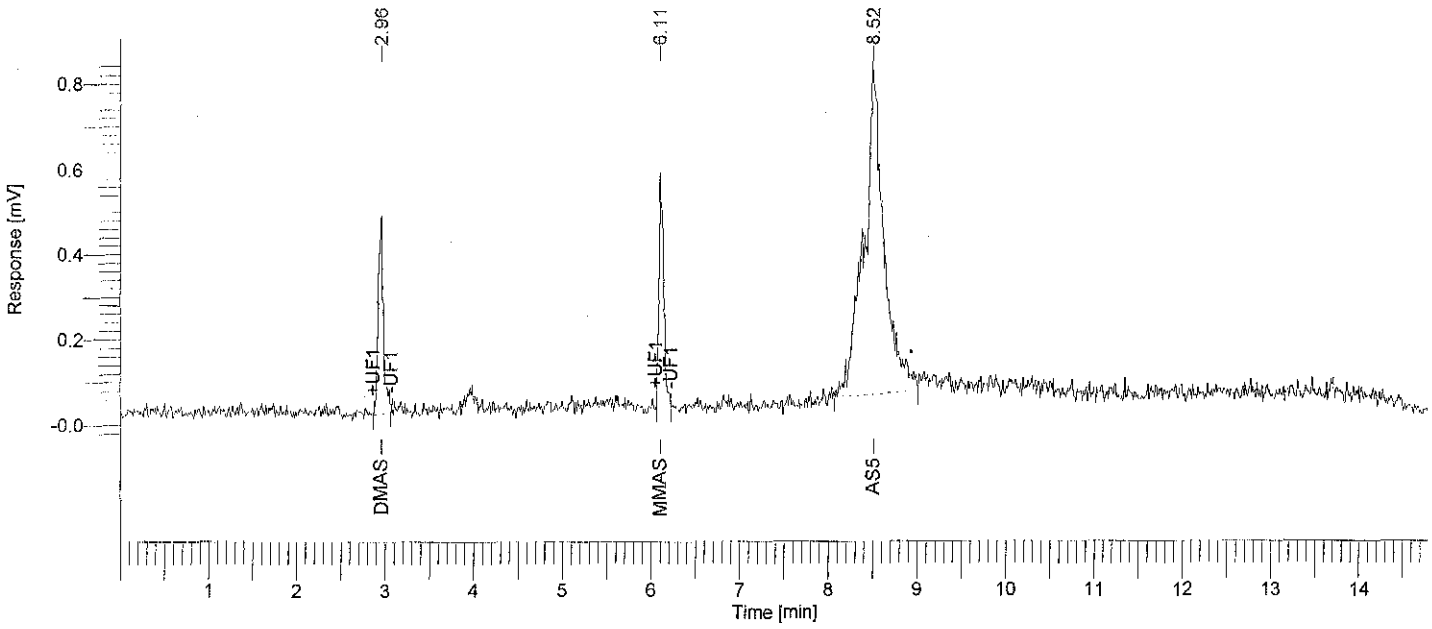
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.935	876.32	208.50	7.66	7.66	MM	0.0009	0.0009
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.118	808.01	237.10	7.06	7.06	MM	0.0008	0.0008
3	As5	8.527	9756.11	508.84	85.28	85.28	BB	0.0098	0.0098
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11440.44	954.44	100.00	100.00		0.0114	0.0114

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:13 PM
Sample Name	: 6103009	Data Acquisition Time	: 10/30/2006 4:32:56 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 9		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103009-061031-094058_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

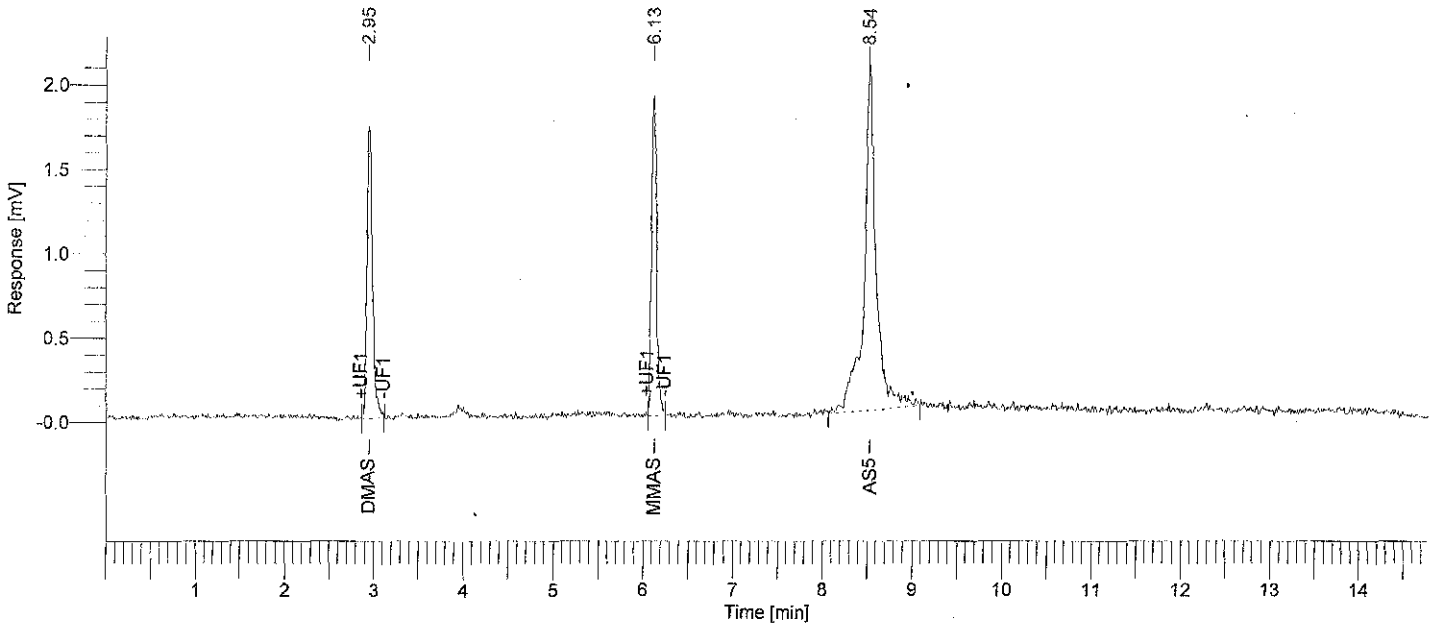
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.958	1892.36	467.82	11.68	11.68	MM	0.0019	0.0019
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.106	2093.94	557.00	12.92	12.92	MM	0.0021	0.0021
3	As5	8.515	12221.23	747.75	75.40	75.40	BB	0.0122	0.0122
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			16207.53	1772.57	100.00	100.00		0.0162	0.0162

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:21 PM
Sample Name	: 6103010	Data Acquisition Time	: 10/30/2006 4:48:07 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 10		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103010-061031-094104_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

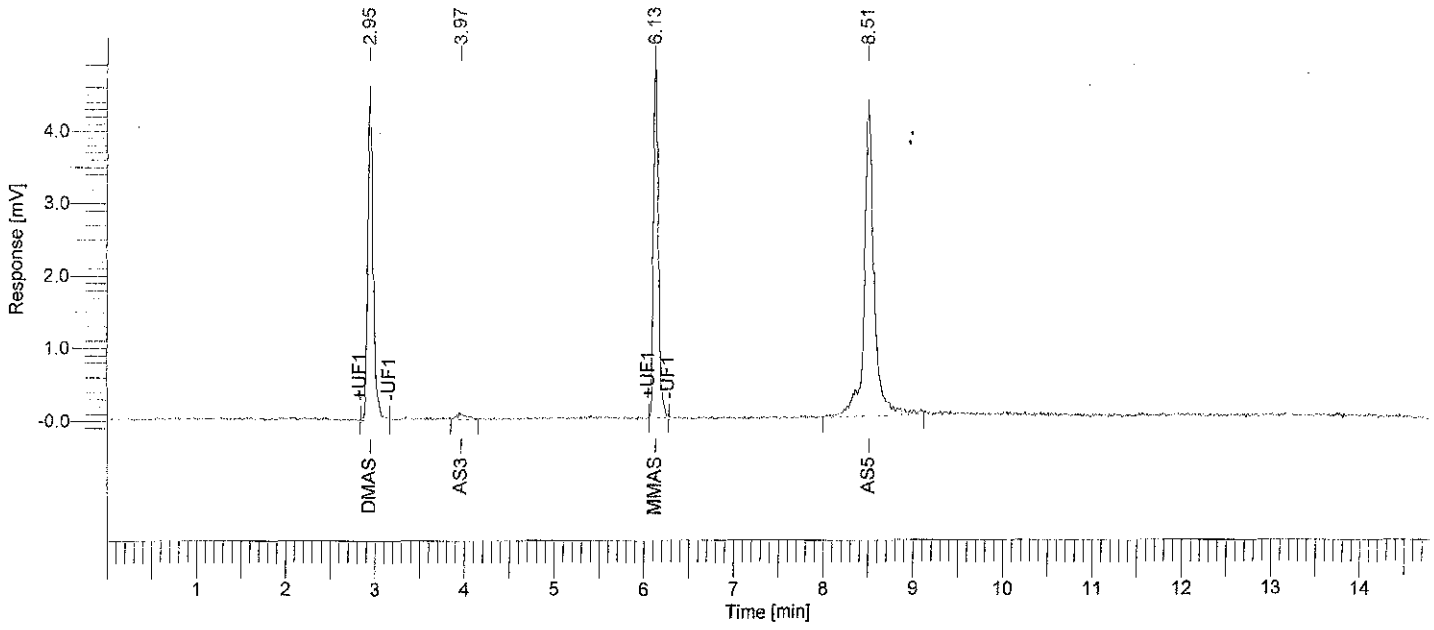
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	7946.99	1731.96	22.84	22.84	MM	0.0079	0.0079
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.130	7473.51	1900.85	21.48	21.48	MM	0.0075	0.0075
3	As5	8.536	19378.03	2056.86	55.69	55.69	BB	0.0194	0.0194
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			34798.54	5689.67	100.00	100.00		0.0348	0.0348

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:31 PM
Sample Name	: 6103011	Data Acquisition Time	: 10/30/2006 5:03:18 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 11		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103011-061031-094111_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

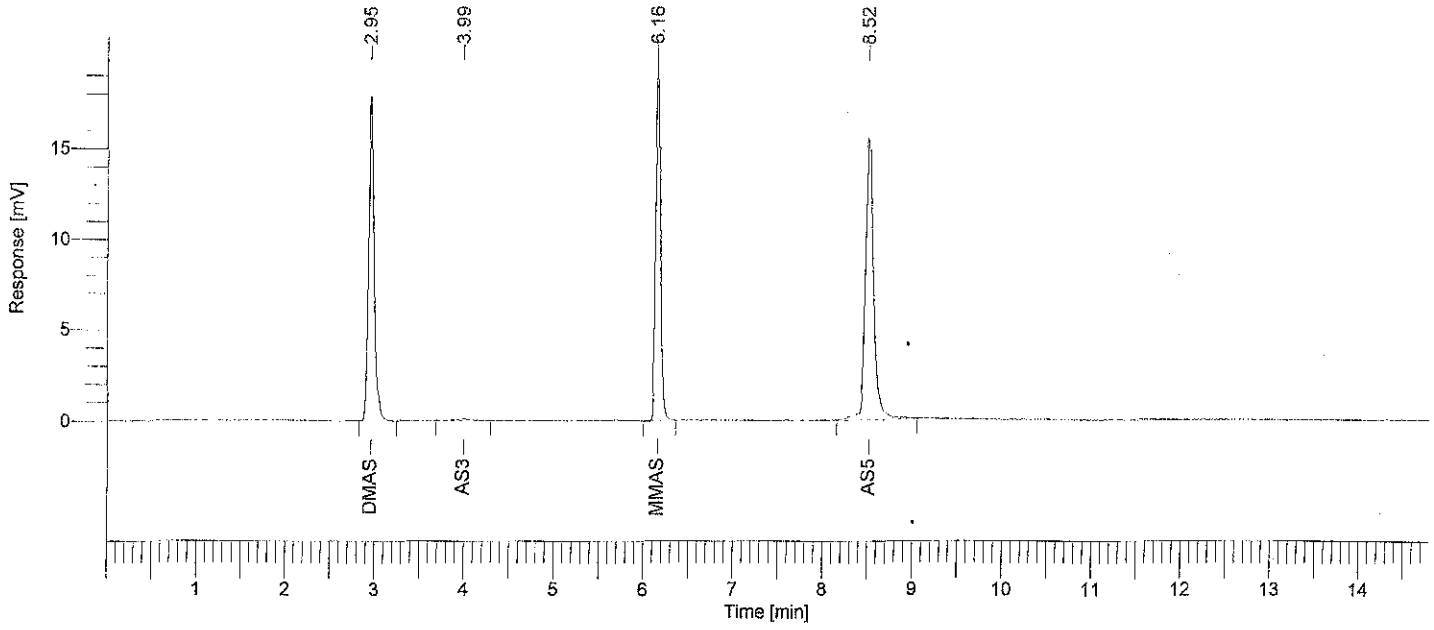
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	19506.23	4607.02	26.89	26.89	MM	0.0195	0.0195
2	As3	3.968	744.08	81.56	1.03	1.03	BB	0.0007	0.0007
3	MMAs	6.130	18732.48	4922.28	25.82	25.82	MM	0.0187	0.0187
4	As5	8.512	33570.93	4199.13	46.27	46.27	BB	0.0336	0.0336
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			72553.72	13809.99	100.00	100.00		0.0726	0.0726

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:35:40 PM
Sample Name	: 6103012	Data Acquisition Time	: 10/30/2006 5:18:29 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 12		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103012-061031-094117_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

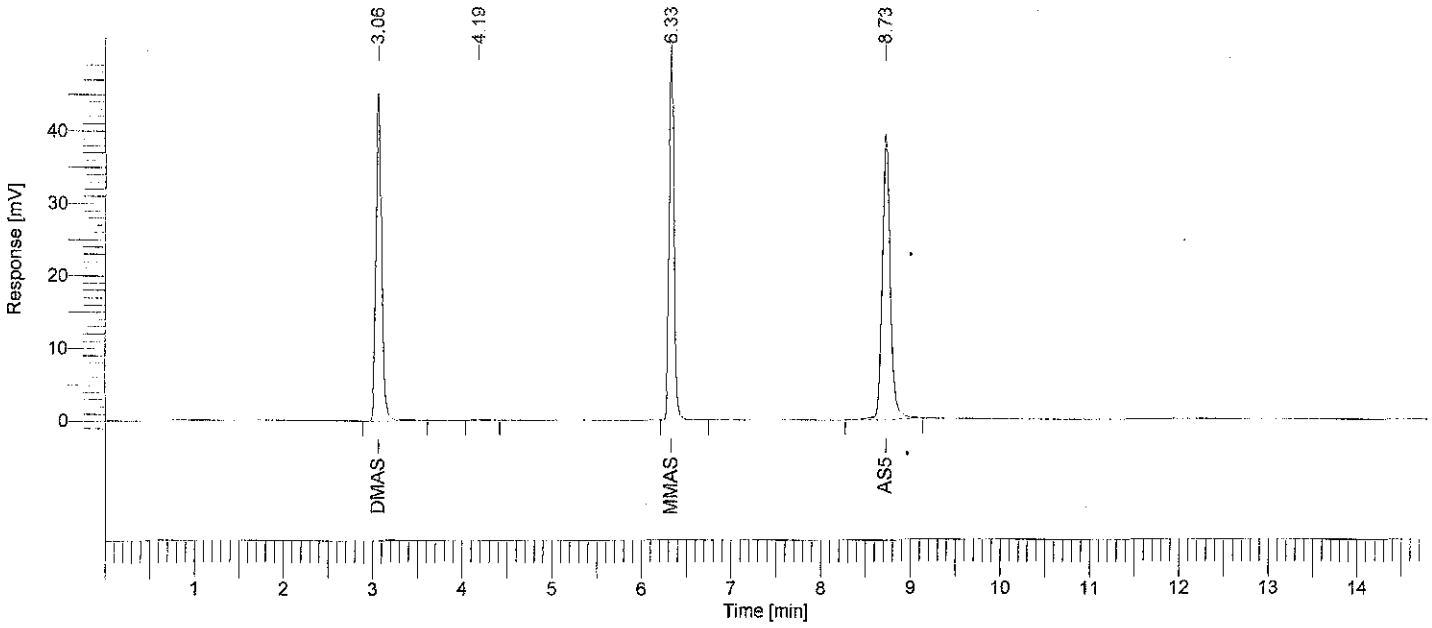
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.955	78701.37	17602.90	30.51	30.51	BB	0.0787	0.0787
2	As3	3.993	1246.76	98.90	0.48	0.48	BB	0.0012	0.0012
3	MMAs	6.156	76150.34	19725.64	29.52	29.52	BB	0.0762	0.0762
4	As5	8.517	101848.08	15622.18	39.48	39.48	BB	0.1018	0.1018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			257946.55	53049.61	100.00	100.00		0.2579	0.2579

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:16 PM
Sample Name	: 6103013	Data Acquisition Time	: 10/30/2006 5:33:40 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 13		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103013-061031-094124_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

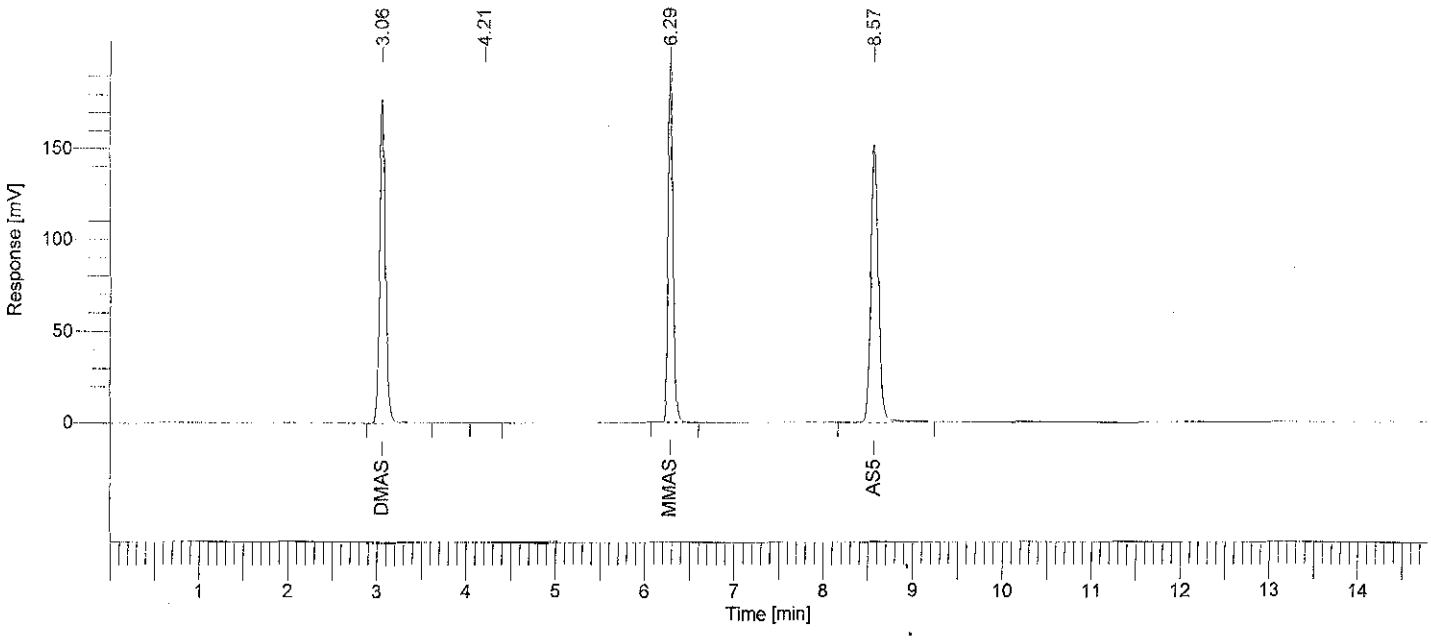
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	3.065	205410.10	44211.10	31.85	31.85	BB	0.2054	0.2054
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2		4.185	1180.02	129.74	0.18	0.18	BB	0.0012	0.0012
3	MMAs	6.330	196090.64	48563.04	30.41	30.41	BB	0.1961	0.1961
4	As5	8.727	242227.86	39342.50	37.56	37.56	BB	0.2422	0.2422
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			644908.62	132246.37	100.00	100.00		0.6449	0.6449

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:24 PM
Sample Name	: 6103014	Data Acquisition Time	: 10/30/2006 5:48:51 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 14		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103014-061031-094131_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

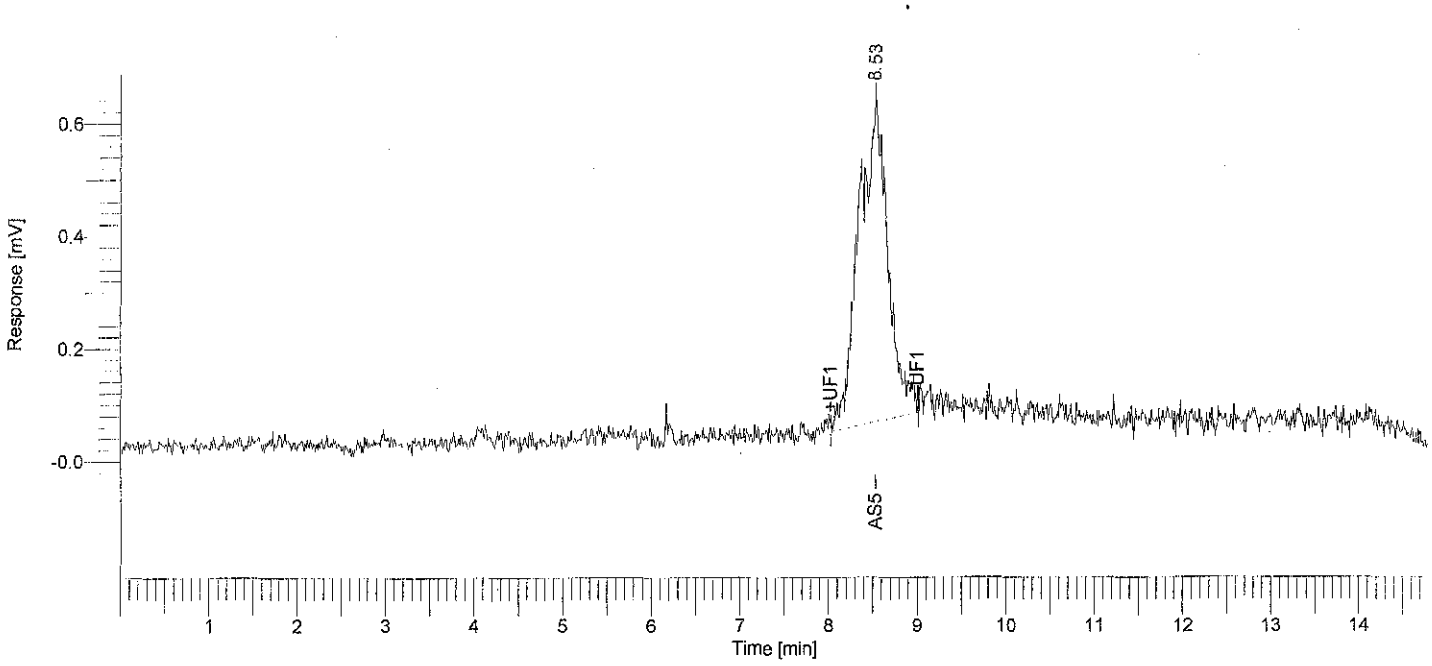
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	3.065	799127.01	174366.94	32.51	32.51	BB	0.7991	0.7991
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2		4.211	1539.99	134.01	0.06	0.06	BB	0.0015	0.0015
3	MMAs	6.288	757641.00	198521.53	30.83	30.83	BB	0.7576	0.7576
4	As5	8.574	899460.66	151820.40	36.60	36.60	BB	0.8995	0.8995
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			2457768.66	524842.88	100.00	100.00		2.4578	2.4578

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:35 PM
Sample Name	: 6103015	Data Acquisition Time	: 10/30/2006 6:04:02 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 15		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103015-061031-094137_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

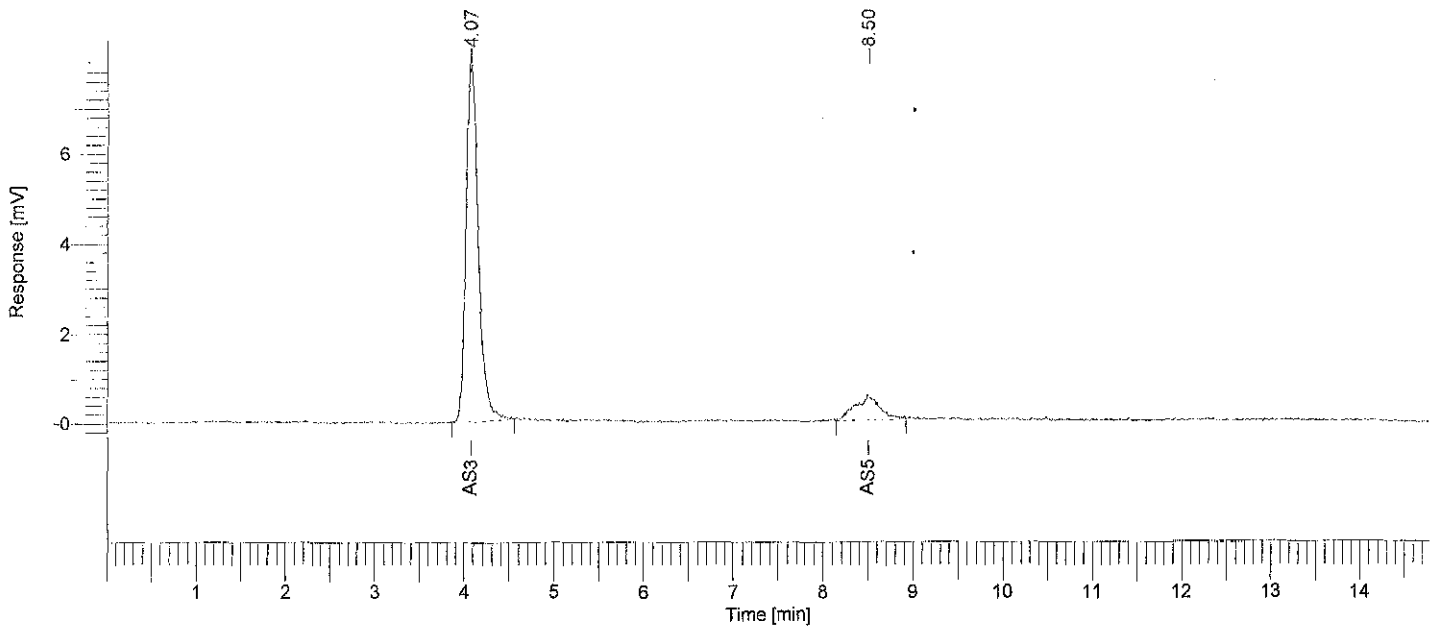
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.532	13072.58	577.94	100.00	100.00	MM	0.0131	0.0131
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			13072.58	577.94	100.00	100.00		0.0131	0.0131

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:43 PM
Sample Name	: 6103016	Data Acquisition Time	: 10/30/2006 6:19:13 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 16		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103016-061031-094144_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

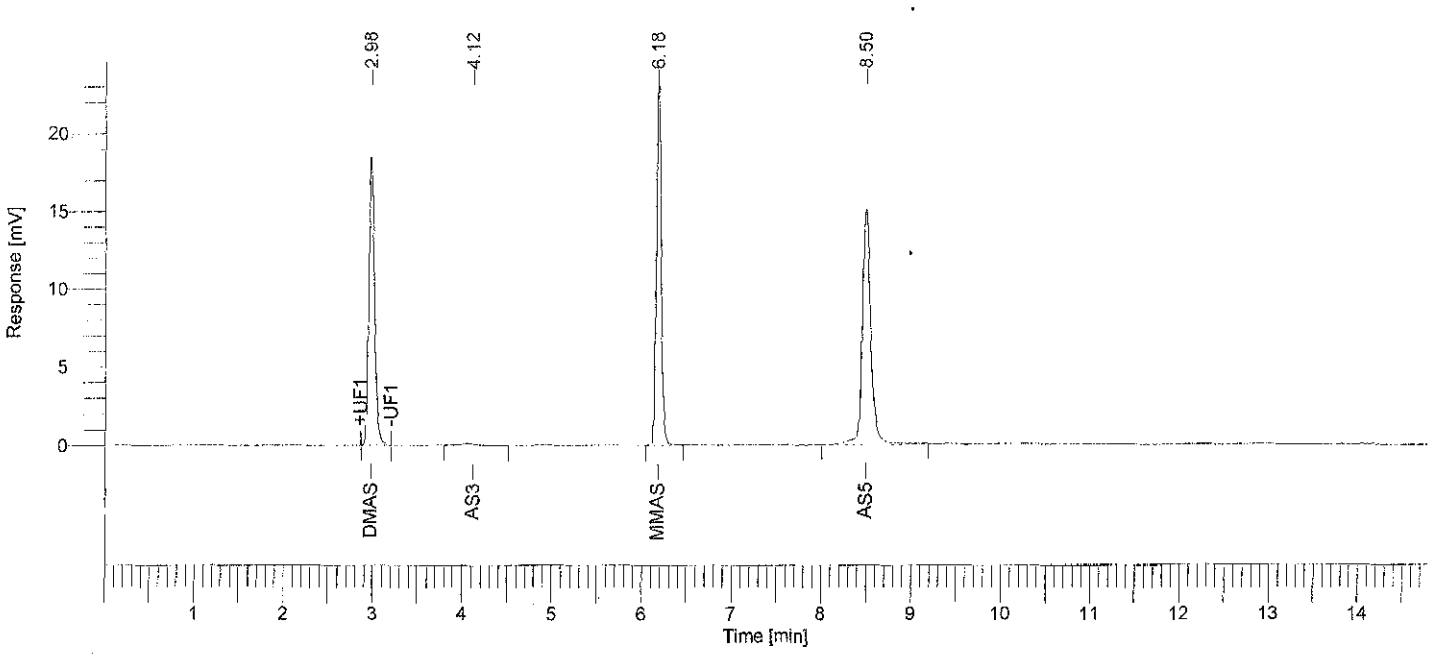
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.072	76080.76	7946.64	87.67	87.67	BB	0.0761	0.0761
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.502	10703.25	540.35	12.33	12.33	BB	0.0107	0.0107
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			86784.01	8486.99	100.00	100.00		0.0868	0.0868

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:36:52 PM
Sample Name	: 6103017	Data Acquisition Time	: 10/30/2006 6:34:24 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 17		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103017-061031-094151_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

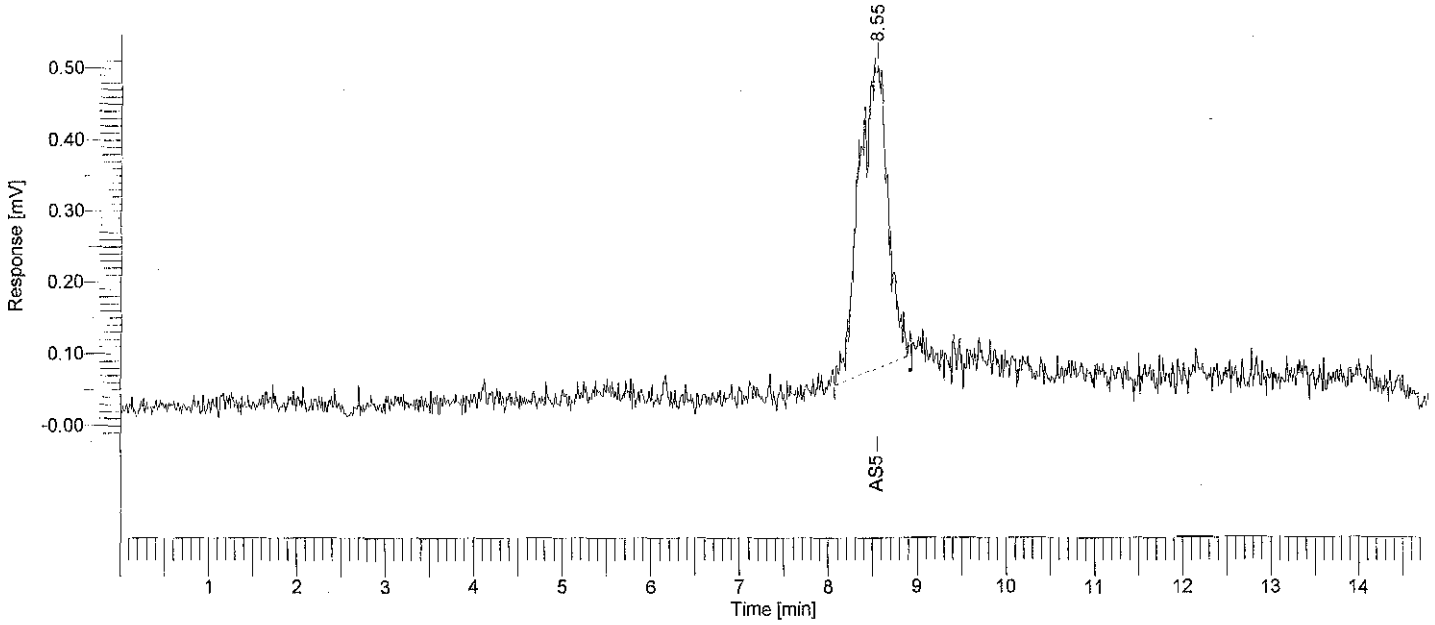
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.982	82555.63	18538.99	30.13	30.13	MM	0.0826	0.0826
2	As3	4.122	1999.36	111.43	0.73	0.73	BB	0.0020	0.0020
3	MMAs	6.182	88089.70	23435.20	32.15	32.15	BB	0.0881	0.0881
4	As5	8.502	101318.42	15229.68	36.98	36.98	BB	0.1013	0.1013
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			273963.11	57315.30	100.00	100.00		0.2740	0.2740

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:01 PM
Sample Name	: 6103018	Data Acquisition Time	: 10/30/2006 6:49:35 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 18		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103018-061031-094157_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

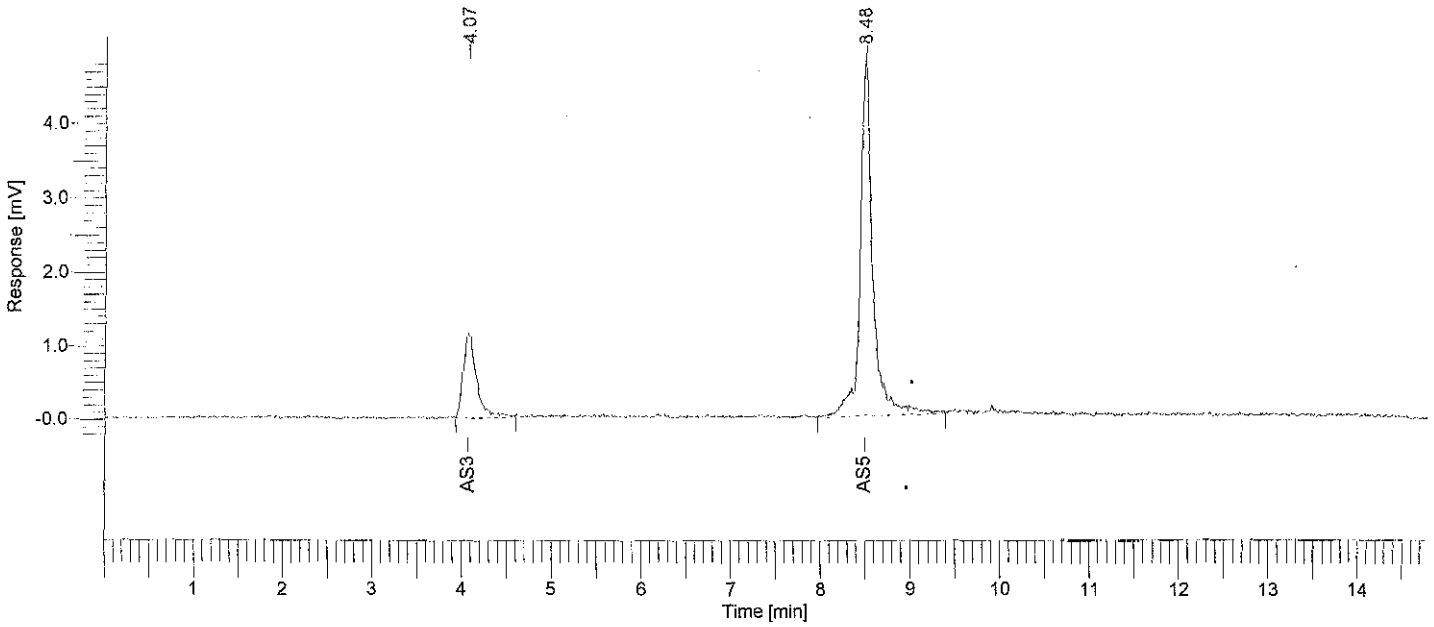
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.546	9802.26	420.40	100.00	100.00	BB	0.0098	0.0098
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9802.26	420.40	100.00	100.00		0.0098	0.0098

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:10 PM
Sample Name	: 6103019	Data Acquisition Time	: 10/30/2006 7:04:46 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 19		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103019-061031-094204_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

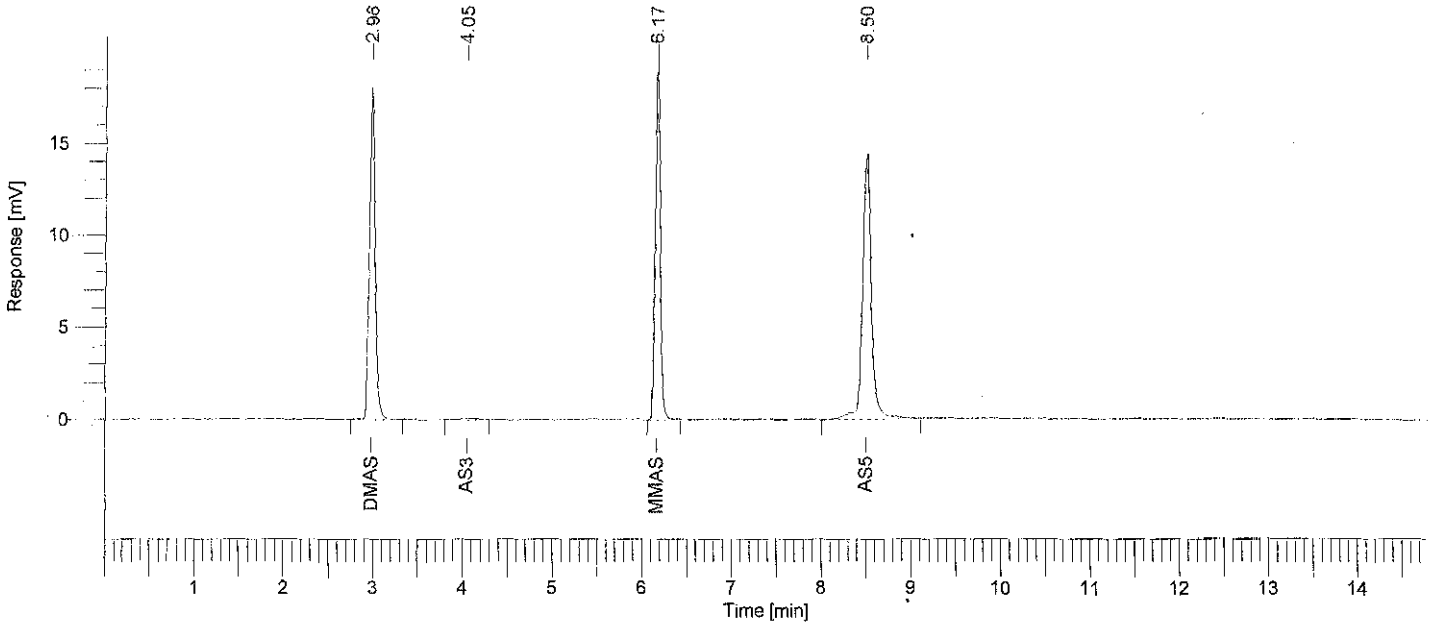
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.067	11690.15	1140.41	19.67	19.67	BB	0.0117	0.0117
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.484	47726.91	4805.41	80.33	80.33	BB	0.0477	0.0477
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			59417.06	5945.82	100.00	100.00		0.0594	0.0594

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:19 PM
Sample Name	: 6103020	Data Acquisition Time	: 10/30/2006 7:19:57 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 20		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103020-061031-094211_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

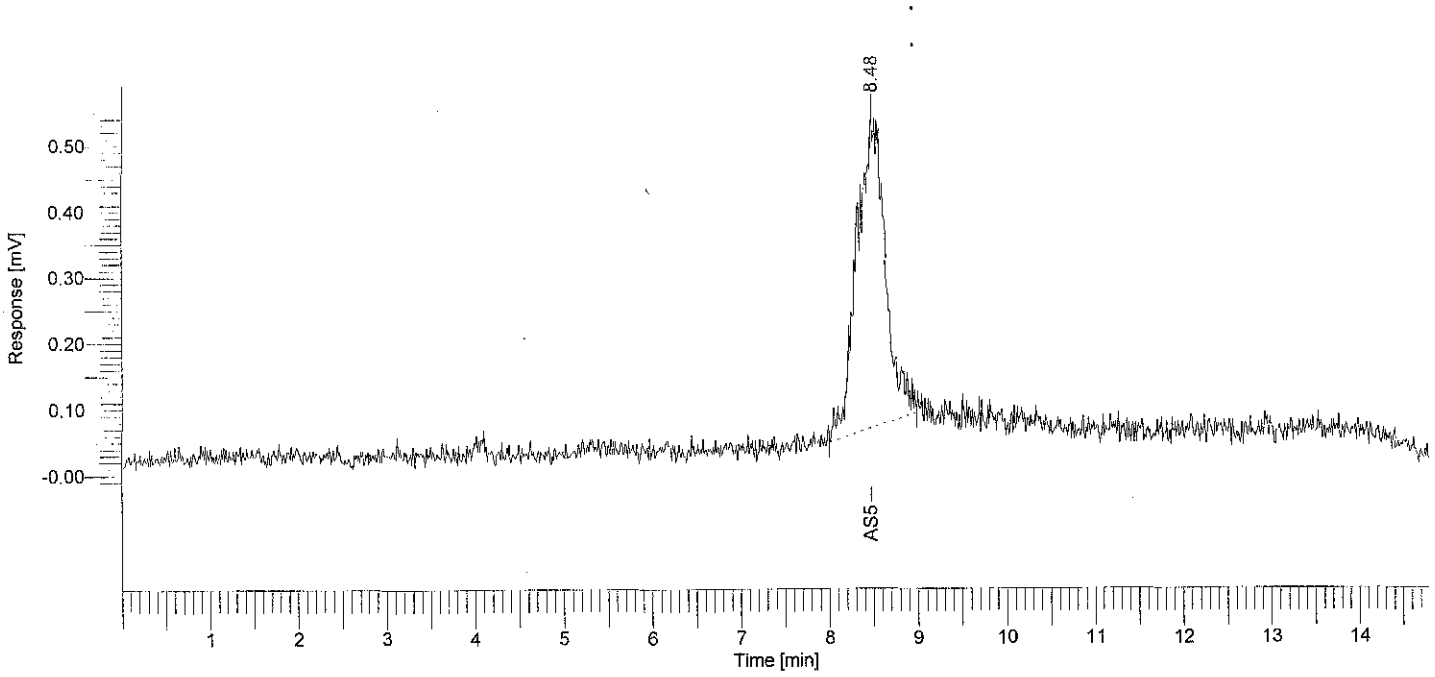
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.985	80232.13	17526.72	31.39	31.39	BB	0.0802	0.0802
2	As3	4.054	1243.92	119.20	0.49	0.49	BB	0.0012	0.0012
3	MMAs	6.166	74778.62	19504.54	29.26	29.26	BB	0.0748	0.0748
4	As5	8.502	99343.91	14558.85	38.87	38.87	BB	0.0993	0.0993
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			255598.58	51709.31	100.00	100.00		0.2556	0.2556

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:29 PM
Sample Name	: 6103021	Data Acquisition Time	: 10/30/2006 7:35:08 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 21		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103021-061031-094217_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

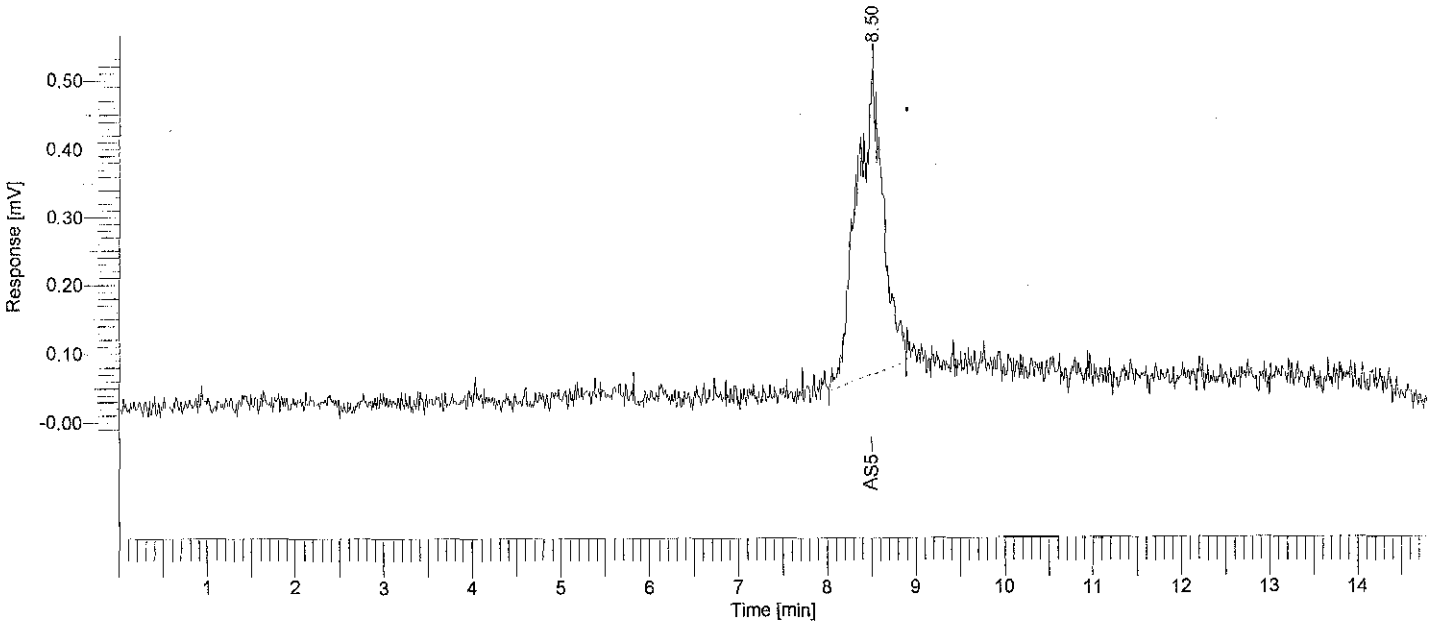
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.477	10614.50	467.66	100.00	100.00	BB	0.0106	0.0106
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10614.50	467.66	100.00	100.00		0.0106	0.0106

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:38 PM
Sample Name	: 6103022	Data Acquisition Time	: 10/30/2006 7:50:19 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 22		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103022-061031-094224_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

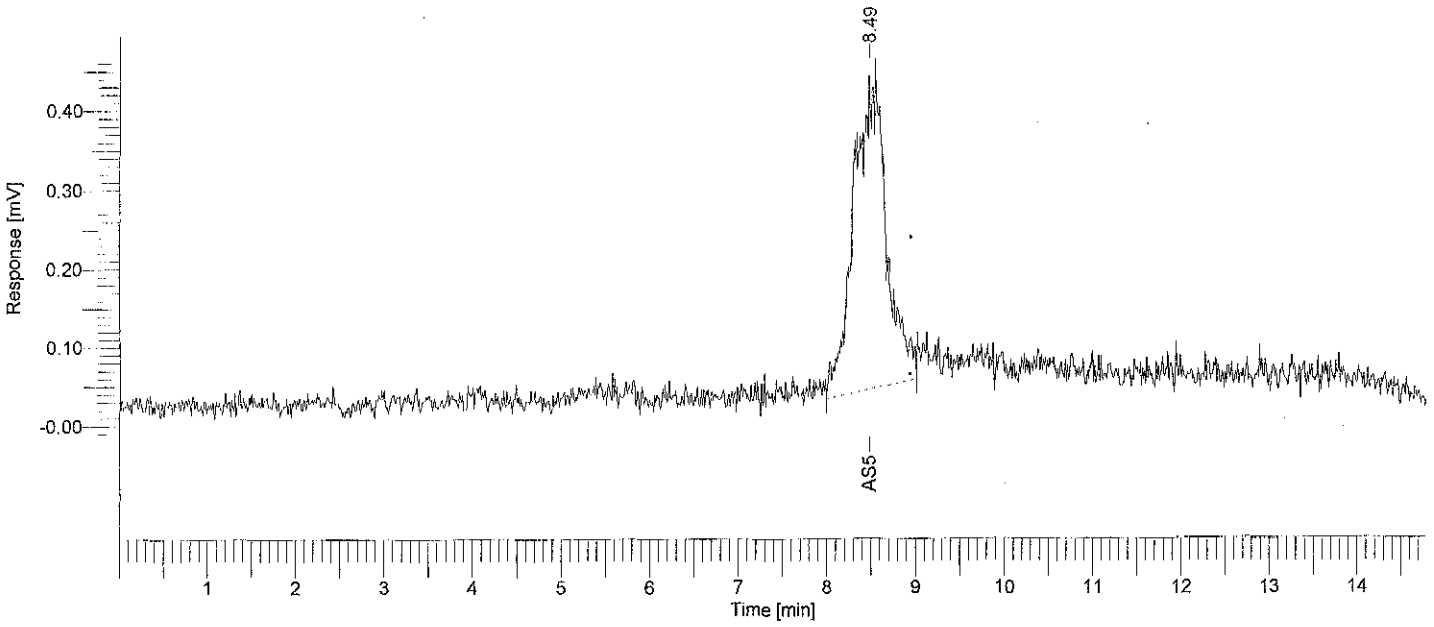
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.504	9386.91	444.04	100.00	100.00	BB	0.0094	0.0094
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9386.91	444.04	100.00	100.00		0.0094	0.0094

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:46 PM
Sample Name	: 6103023	Data Acquisition Time	: 10/30/2006 8:05:30 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 23		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103023-061031-094231_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

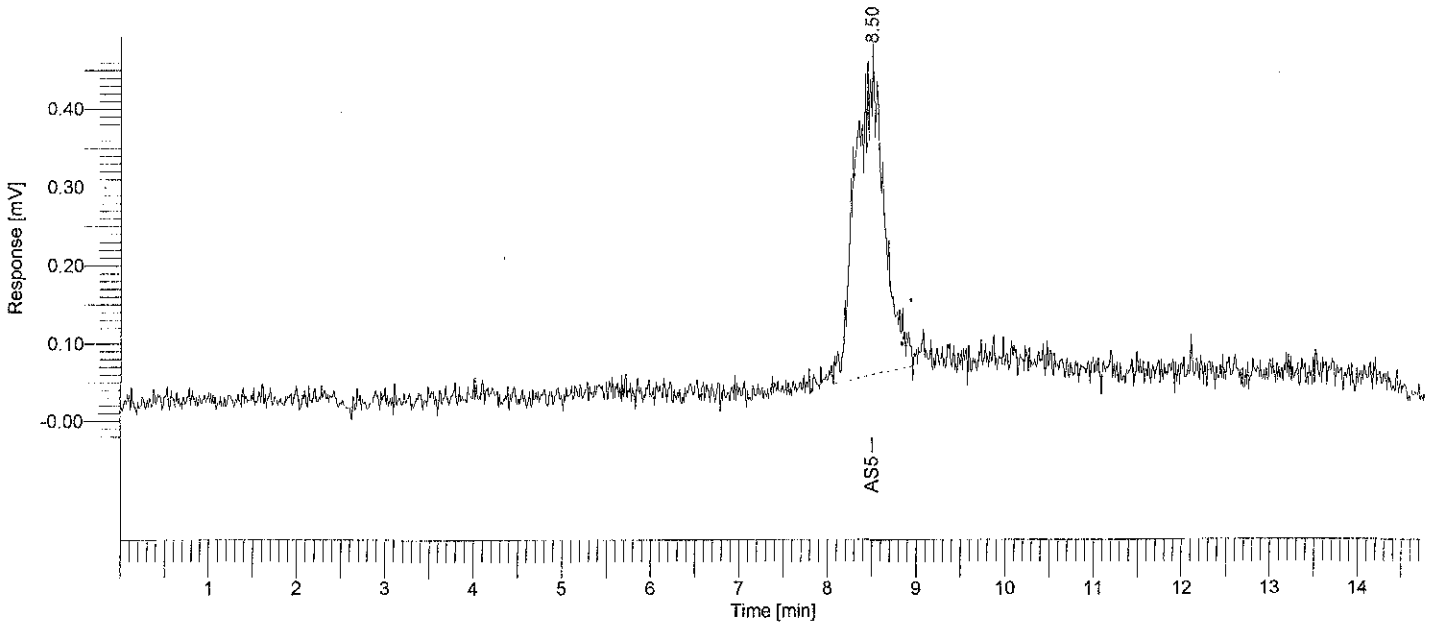
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.486	10274.41	348.94	100.00	100.00	BB	0.0103	0.0103
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10274.41	348.94	100.00	100.00		0.0103	0.0103

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:37:55 PM
Sample Name	: 6103024	Data Acquisition Time	: 10/30/2006 8:20:41 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 24		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103024-061031-094237_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

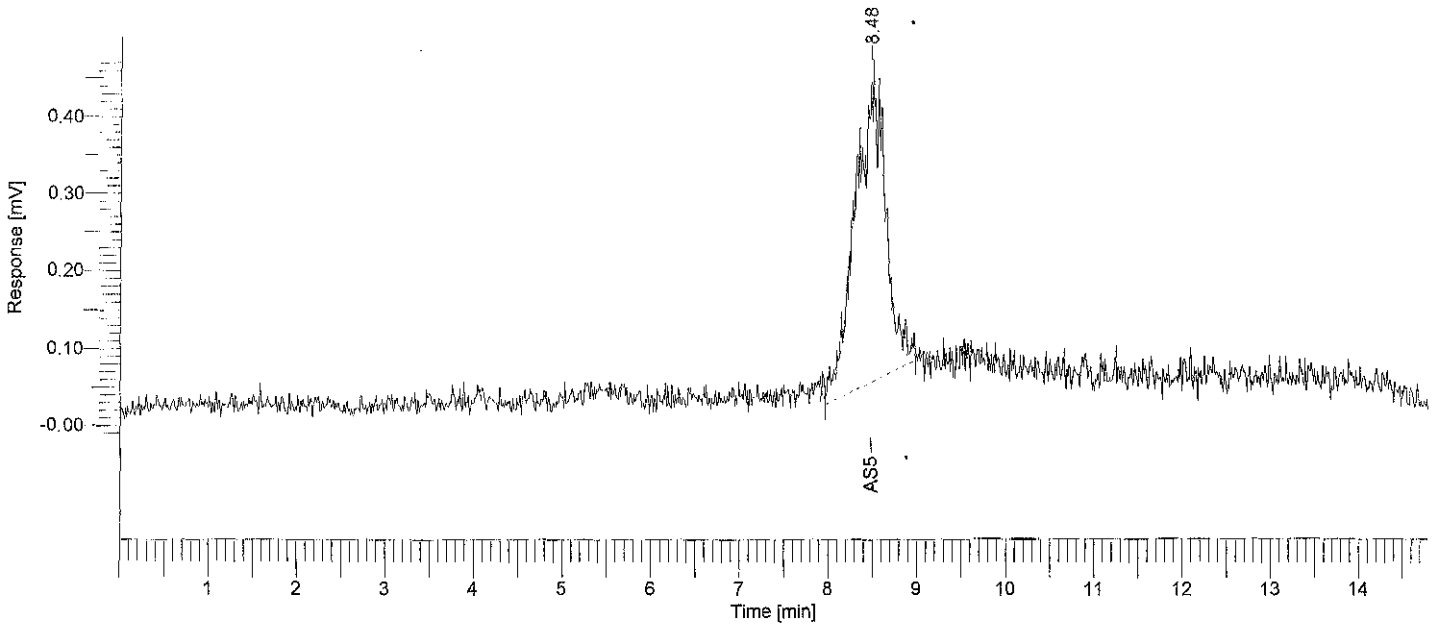
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.505	9315.20	381.61	100.00	100.00	BB	0.0093	0.0093
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9315.20	381.61	100.00	100.00		0.0093	0.0093

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:04 PM
Sample Name	: 6103025	Data Acquisition Time	: 10/30/2006 8:35:52 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 25		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103025-061031-094244_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

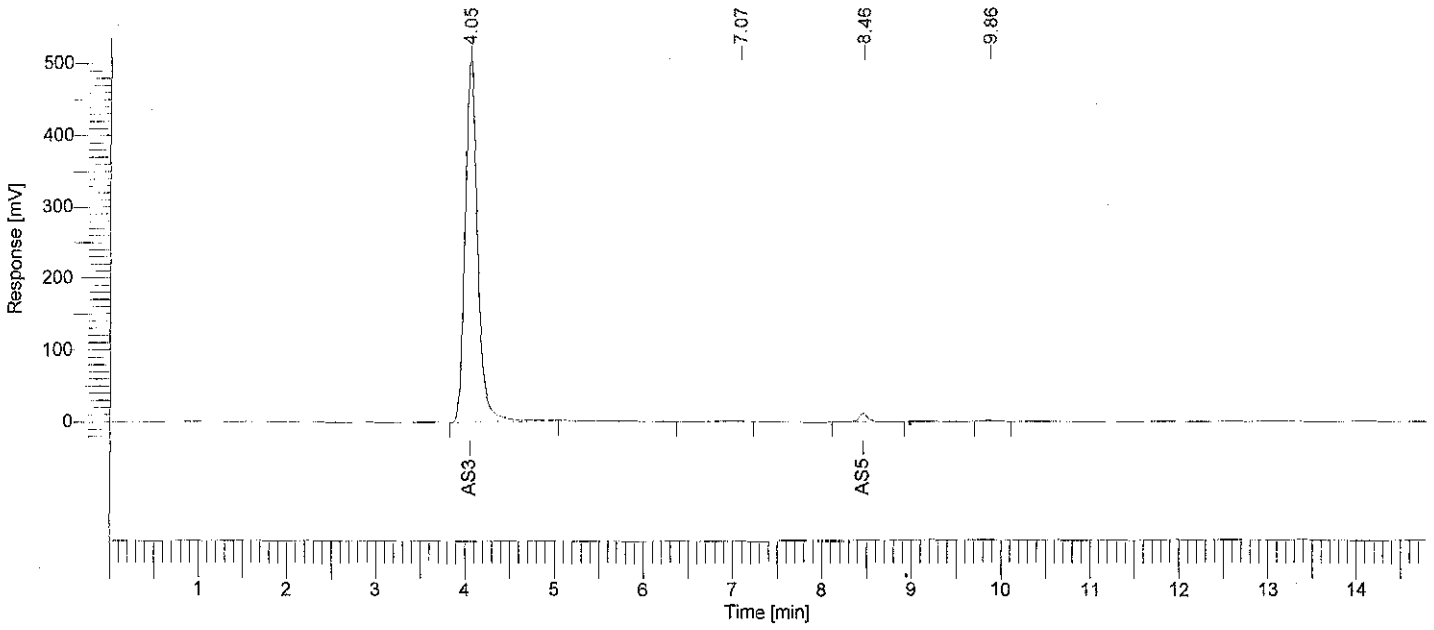
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.483	9567.25	376.12	100.00	100.00	BB	0.0096	0.0096
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9567.25	376.12	100.00	100.00		0.0096	0.0096

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:15 PM
Sample Name	: 6103026	Data Acquisition Time	: 10/30/2006 8:51:03 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 26		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103026-061031-094250_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.050	4916741.48	507554.32	97.95	97.95	BB	4.9167	4.9167
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		7.073	17136.56	298.75	0.34	0.34	BB	0.0171	0.0171
3	As5	8.455	79306.29	11440.13	1.58	1.58	BB	0.0793	0.0793
4		9.864	6392.13	1005.14	0.13	0.13	BB	0.0064	0.0064
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5019576.46	520298.34	100.00	100.00		5.0196	5.0196

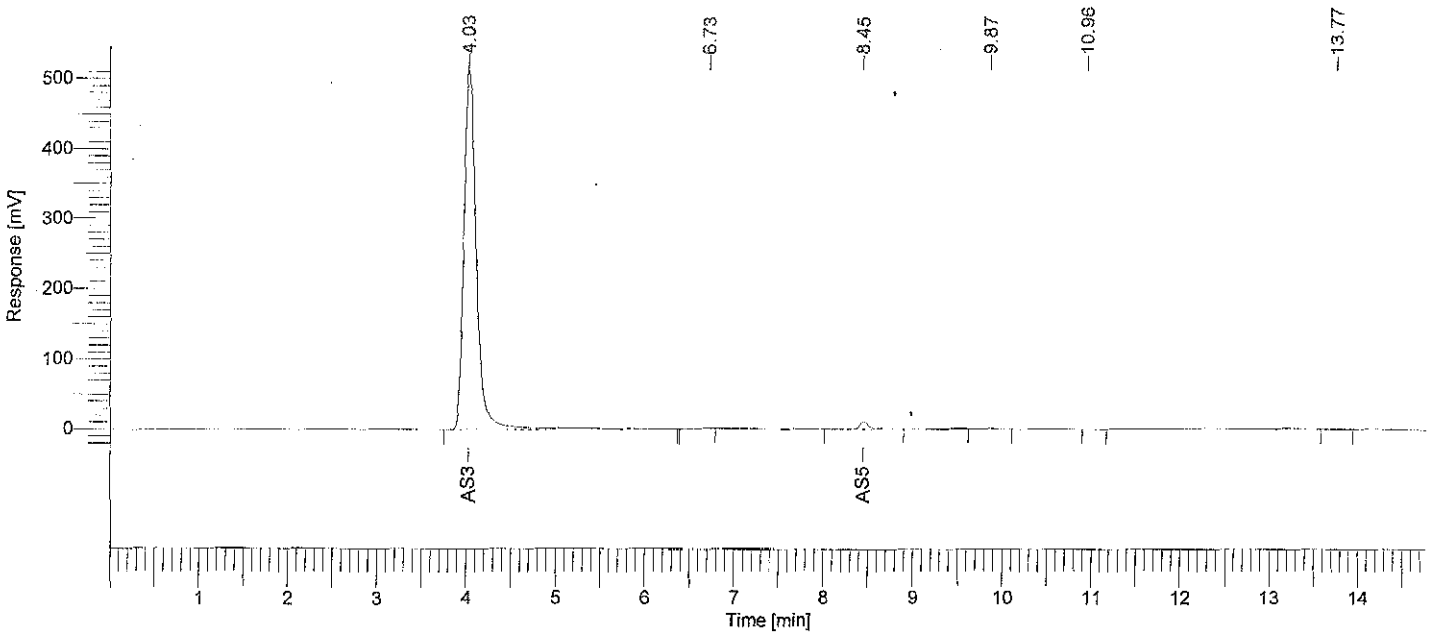
11/9/2006 4:38:15 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103026-061031-094250_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:23 PM
Sample Name	: 6103027	Data Acquisition Time	: 10/30/2006 9:06:14 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 27		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103027-061031-094257_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.032	5034444.57	516985.98	98.11	98.11	BB	5.0344	5.0344
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2		6.730	4804.57	218.04	0.09	0.09	BB	0.0048	0.0048
3	As5	8.451	83934.78	11807.18	1.64	1.64	BB	0.0839	0.0839
4		9.873	7061.66	1110.07	0.14	0.14	BB	0.0071	0.0071
5		10.960	684.44	78.22	0.01	0.01	BB	0.0007	0.0007
6		13.770	735.56	56.46	0.01	0.01	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5131665.58	530255.94	100.00	100.00		5.1317	5.1317

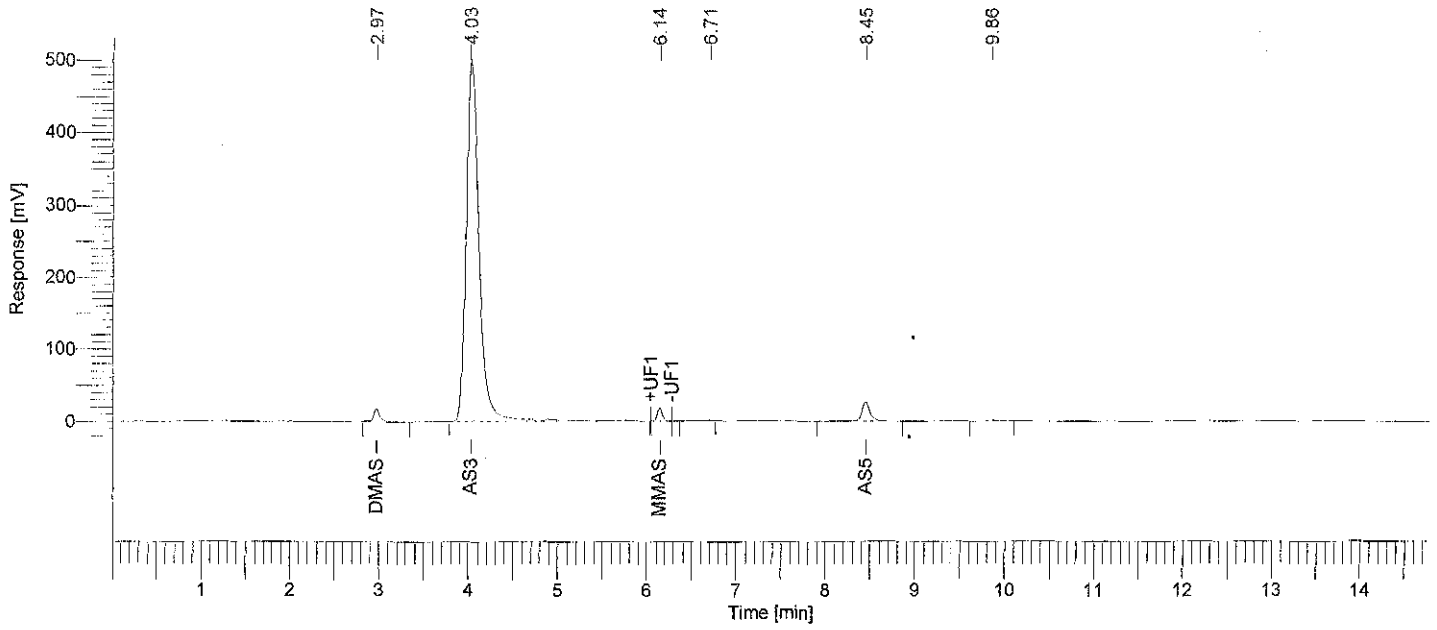
11/9/2006 4:38:23 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103027-061031-094257_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:31 PM
Sample Name	: 6103028	Data Acquisition Time	: 10/30/2006 9:21:25 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 28		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103028-061031-094303_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

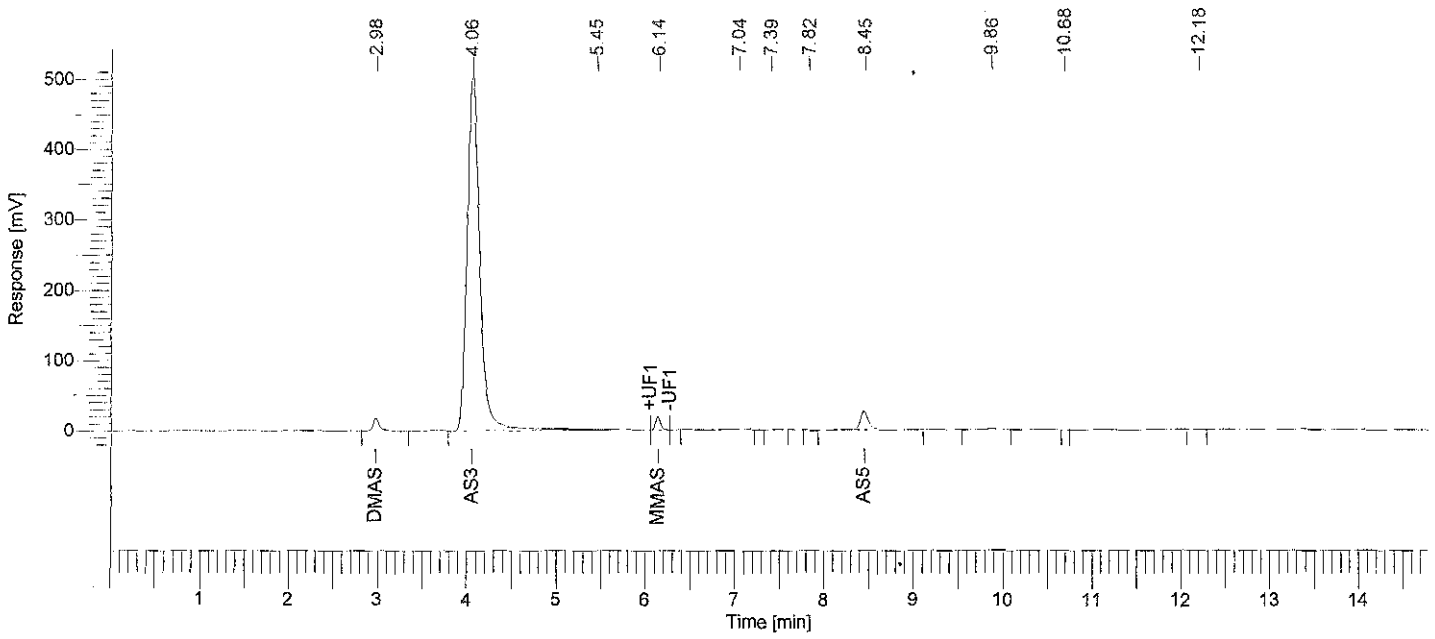
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.971	79297.06	17846.32	1.48	1.48	BB	0.0793	0.0793
2	As3	4.032	5030405.38	498871.17	93.74	93.74	BB	5.0304	5.0304
3	MMAs	6.141	74467.69	18714.52	1.39	1.39	MM	0.0745	0.0745
4		6.707	5419.43	209.94	0.10	0.10	BB	0.0054	0.0054
5	As5	8.451	170401.42	26971.99	3.18	3.18	BB	0.1704	0.1704
6		9.857	6599.45	1001.15	0.12	0.12	BB	0.0066	0.0066
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5366590.43	563615.10	100.00	100.00		5.3666	5.3666

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:40 PM
Sample Name	: 6103029	Data Acquisition Time	: 10/30/2006 9:36:36 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 29		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103029-061031-094310_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.979	79359.54	17451.48	1.47	1.47	BB	0.0794	0.0794
2	As3	4.056	4975854.66	506661.72	92.45	92.45	BE	4.9759	4.9759
3		5.448	53034.87	876.55	0.99	0.99	EB	0.0530	0.0530
4	MMAs	6.141	74816.16	18384.29	1.39	1.39	MM	0.0748	0.0748
5		7.040	14577.72	281.33	0.27	0.27	BB	0.0146	0.0146
6		7.395	4555.36	310.75	0.08	0.08	BB	0.0046	0.0046
7		7.821	601.55	77.78	0.01	0.01	BV	0.0006	0.0006
8	As5	8.445	171418.67	26235.75	3.18	3.18	VB	0.1714	0.1714
9		9.858	7278.21	1040.81	0.14	0.14	BB	0.0073	0.0073
10		10.676	205.19	74.64	0.00	0.00	BB	0.0002	0.0002
11		12.184	437.36	59.26	0.01	0.01	BB	0.0004	0.0004
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5382139.29	571454.37	100.00	100.00		5.3821	5.3821

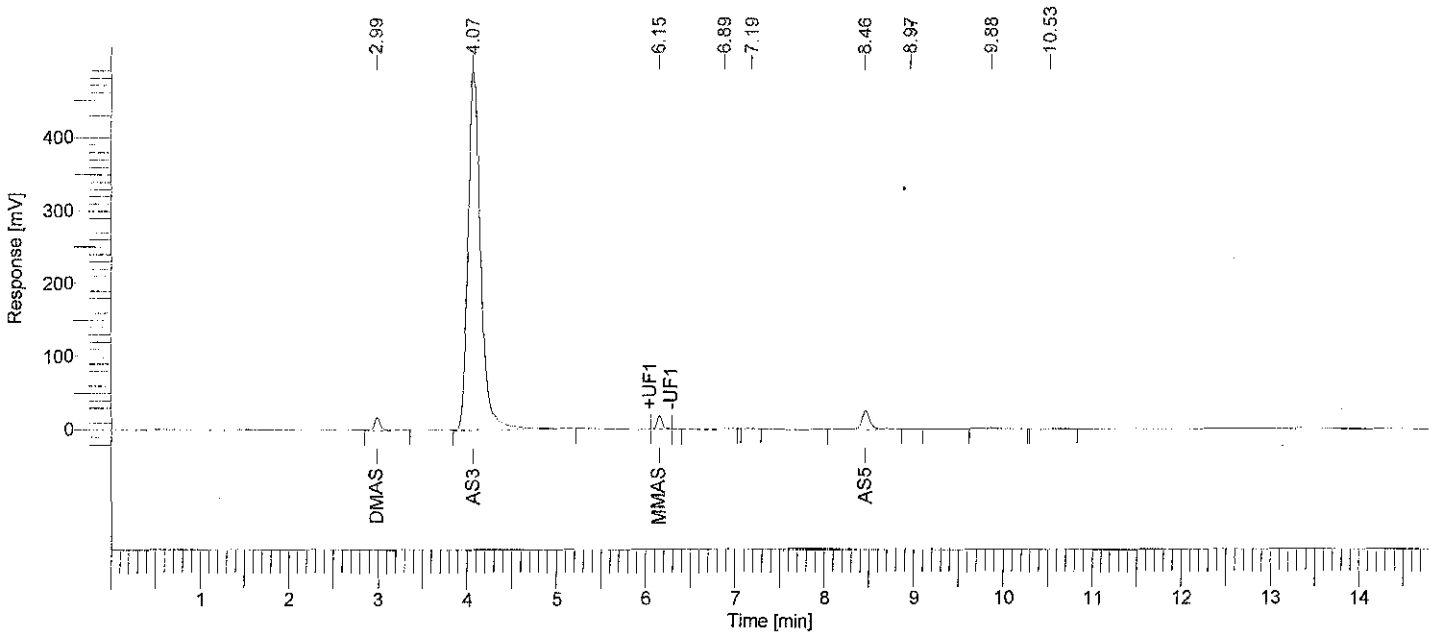
11/9/2006 4:38:40 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103029-061031-094310_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:49 PM
Sample Name	: 6103030	Data Acquisition Time	: 10/30/2006 9:51:47 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 30		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103030-061031-094317_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.990	81402.92	17850.55	1.57	1.57	BB	0.0814	0.0814
2	As3	4.073	4831564.91	492658.91	93.26	93.26	BB	4.8316	4.8316
3	MMAs	6.153	75693.56	18832.65	1.46	1.46	MM	0.0757	0.0757
4		6.889	13986.95	438.53	0.27	0.27	BV	0.0140	0.0140
5		7.194	2608.73	251.81	0.05	0.05	VB	0.0026	0.0026
6	As5	8.462	165483.25	25502.28	3.19	3.19	BB	0.1655	0.1655
7		8.970	597.11	16.80	0.01	0.01	BB	0.0006	0.0006
8		9.877	7720.54	1024.56	0.15	0.15	BB	0.0077	0.0077
9		10.532	1437.04	29.63	0.03	0.03	BB	0.0014	0.0014
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5180495.01	556605.72	100.00	100.00		5.1805	5.1805

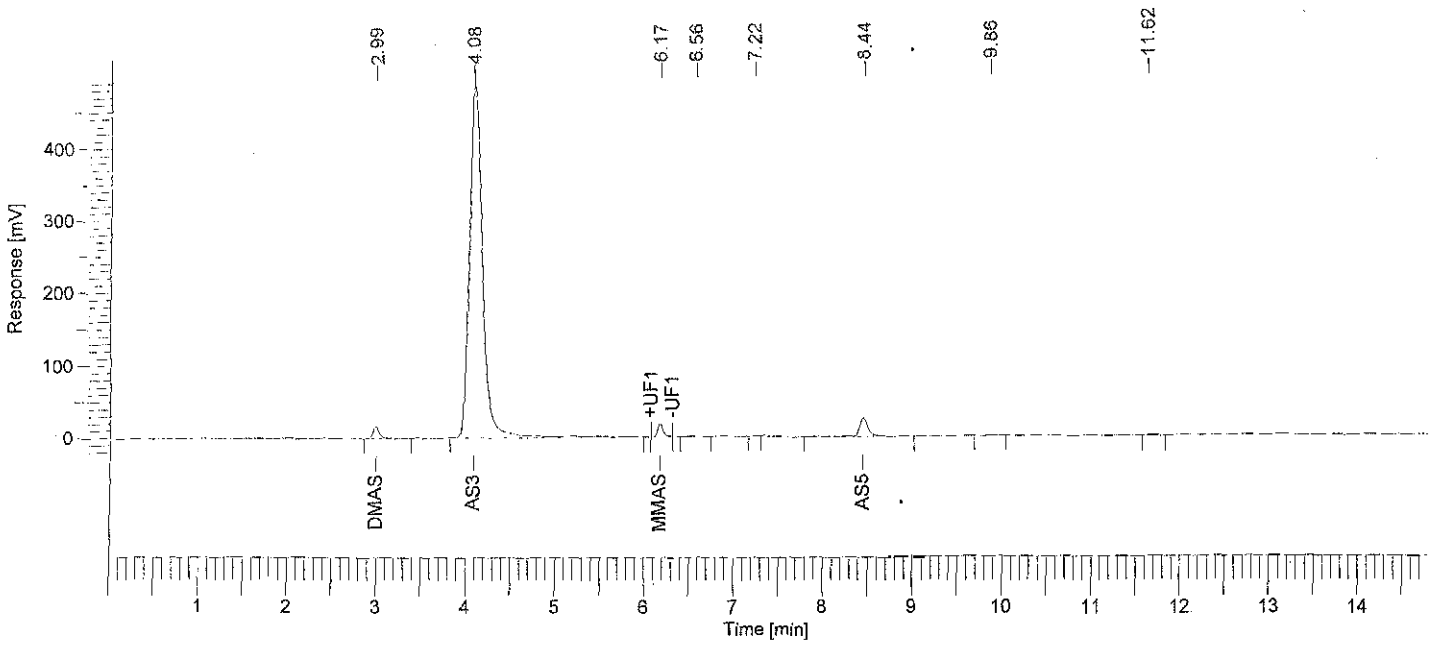
11/9/2006 4:38:49 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103030-061031-094317_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:38:59 PM
Sample Name	: 6103031	Data Acquisition Time	: 10/30/2006 10:06:58 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 31		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103031-061031-094324_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

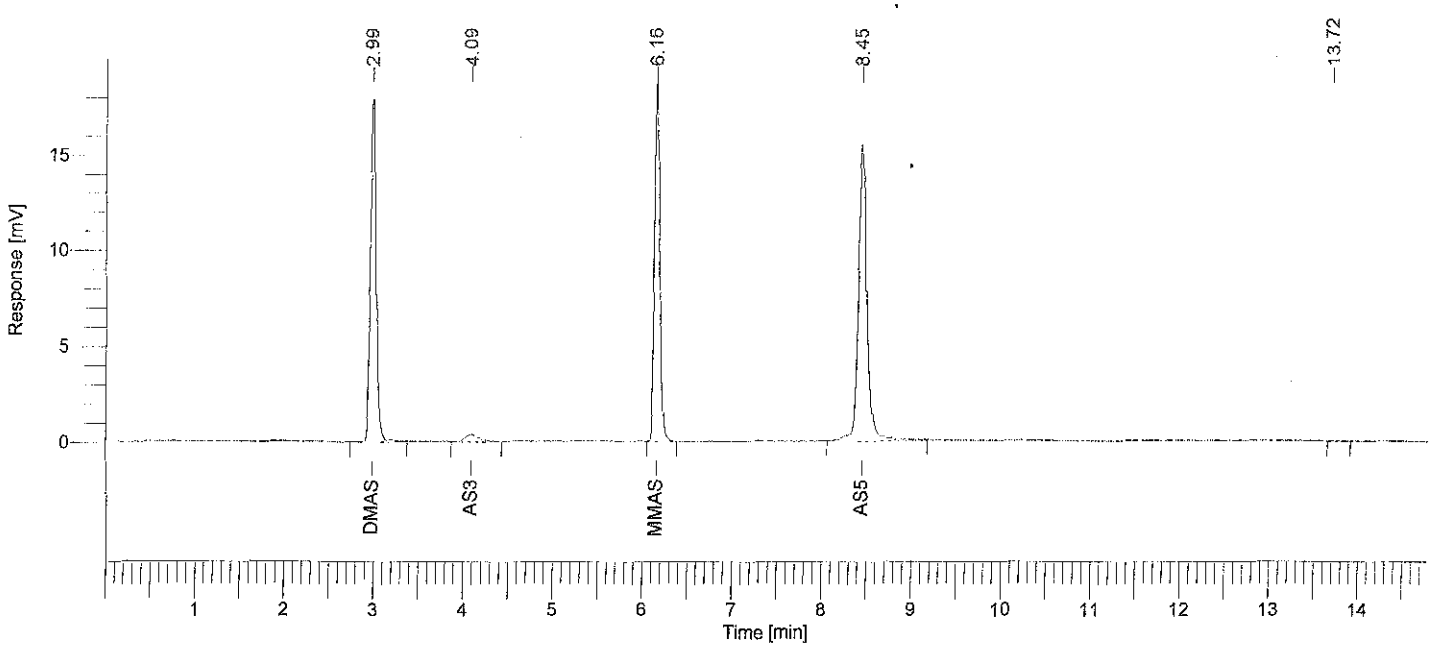
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.991	79348.18	16913.37	1.52	1.52	BB	0.0793	0.0793
2	As3	4.085	4901515.53	486496.88	93.59	93.59	BB	4.9015	4.9015
3	MMAs	6.165	74892.96	18286.71	1.43	1.43	MM	0.0749	0.0749
4		6.564	3346.94	233.55	0.06	0.06	BB	0.0033	0.0033
5		7.220	630.48	133.90	0.01	0.01	BB	0.0006	0.0006
6	As5	8.444	170453.96	25812.20	3.25	3.25	BB	0.1705	0.1705
7		9.856	6430.47	972.24	0.12	0.12	BB	0.0064	0.0064
8		11.621	697.93	76.24	0.01	0.01	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			5237316.45	548925.09	100.00	100.00		5.2373	5.2373

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:09 PM
Sample Name	: 6103032	Data Acquisition Time	: 10/30/2006 10:22:09 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 32		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103032-061031-094331_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

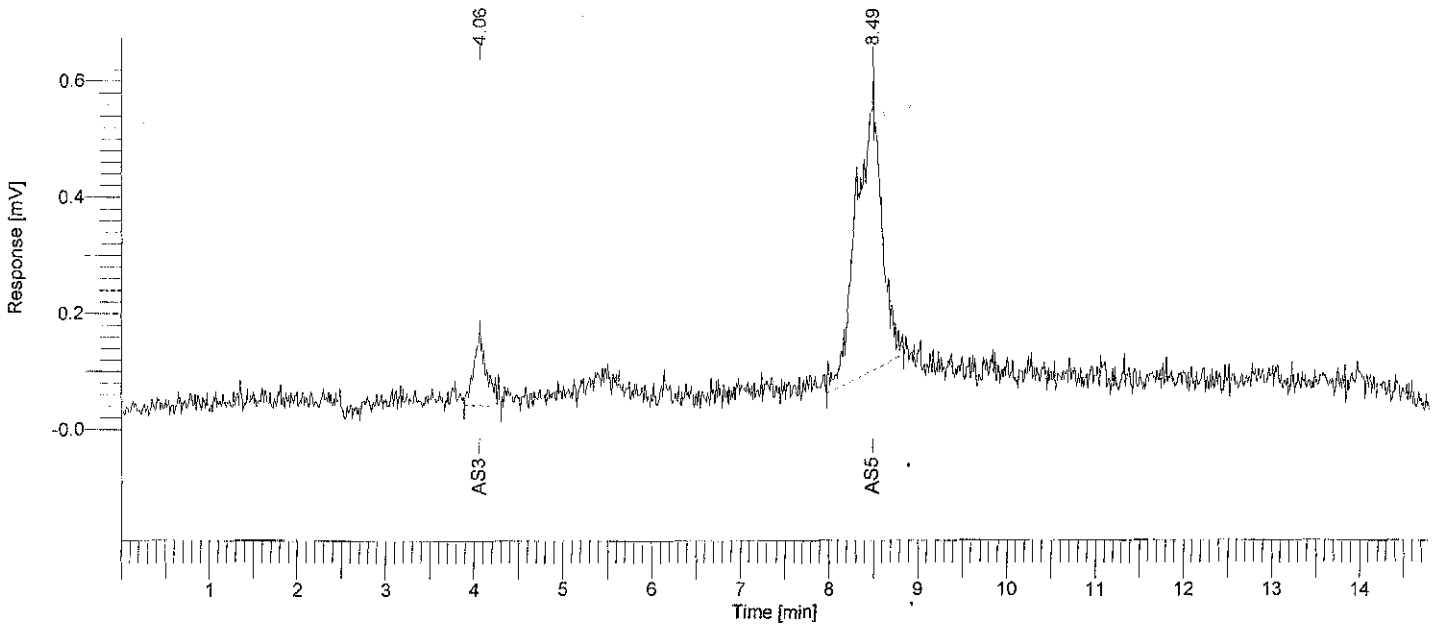
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.990	80776.70	17811.27	30.46	30.46	BB	0.0808	0.0808
2	As3	4.093	4352.30	393.20	1.64	1.64	BB	0.0044	0.0044
3	MMAs	6.157	76530.19	18588.28	28.86	28.86	BB	0.0765	0.0765
4	As5	8.454	103040.88	15355.11	38.86	38.86	BB	0.1030	0.1030
5		13.721	464.34	50.66	0.18	0.18	BB	0.0005	0.0005
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			265164.41	52198.52	100.00	100.00		0.2652	0.2652

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:17 PM
Sample Name	: 6103033	Data Acquisition Time	: 10/30/2006 10:37:20 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 33		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103033-061031-094337_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

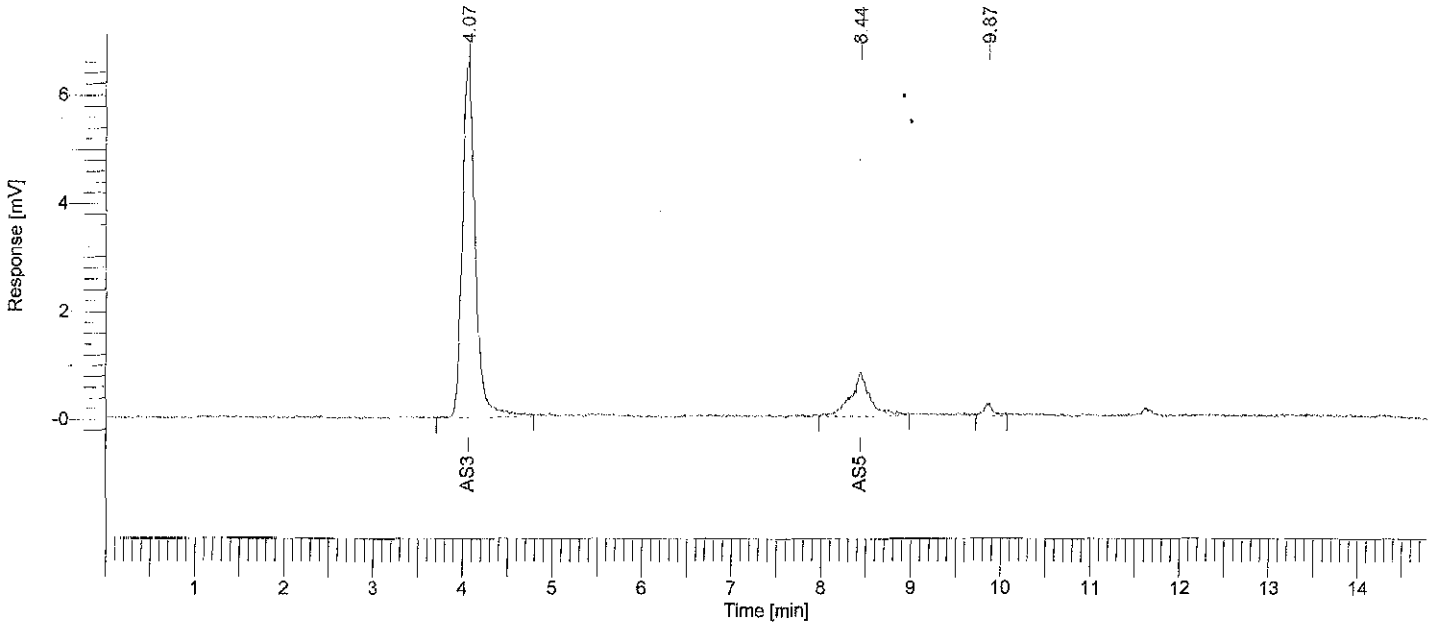
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.058	1329.12	121.40	12.18	12.18	BB	0.0013	0.0013
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.492	9582.16	475.26	87.82	87.82	BB	0.0096	0.0096
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			10911.28	596.67	100.00	100.00		0.0109	0.0109

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:25 PM
Sample Name	: 6103034	Data Acquisition Time	: 10/30/2006 10:52:31 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 34		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103034-061031-094344_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.066	65653.70	6603.78	81.97	81.97	BB	0.0657	0.0657
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.442	12640.84	824.40	15.78	15.78	BB	0.0126	0.0126
3		9.873	1804.82	232.81	2.25	2.25	BB	0.0018	0.0018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			80099.36	7660.99	100.00	100.00		0.0801	0.0801

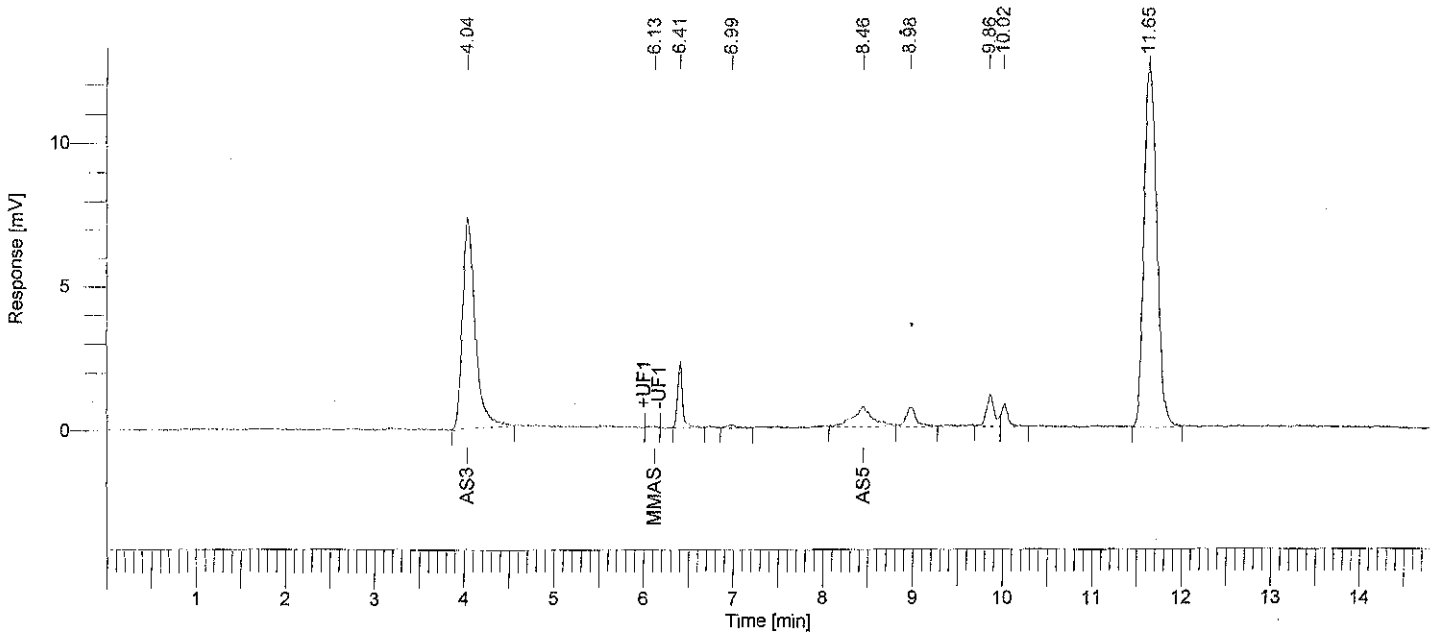
11/9/2006 4:39:25 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103034-061031-094344_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:33 PM
Sample Name	: 6103035	Data Acquisition Time	: 10/30/2006 11:07:42 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 35		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103035-061031-094350_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.042	71816.50	7286.67	30.51	30.51	BB	0.0718	0.0718
2	MMAs	6.130	295.71	57.04	0.13	0.13	MM	0.0003	0.0003
3		6.412	8720.22	2222.98	3.70	3.70	BB	0.0087	0.0087
4		6.991	1040.15	116.22	0.44	0.44	BB	0.0010	0.0010
5	As5	8.458	11313.35	722.46	4.81	4.81	BV	0.0113	0.0113
6		8.976	5443.36	678.55	2.31	2.31	VB	0.0054	0.0054
7		9.863	6950.94	1093.83	2.95	2.95	BV	0.0070	0.0070
8		10.020	4173.34	794.14	1.77	1.77	VB	0.0042	0.0042
9		11.648	125638.76	12497.30	53.37	53.37	BB	0.1256	0.1256
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			235392.33	25469.20	100.00	100.00		0.2354	0.2354

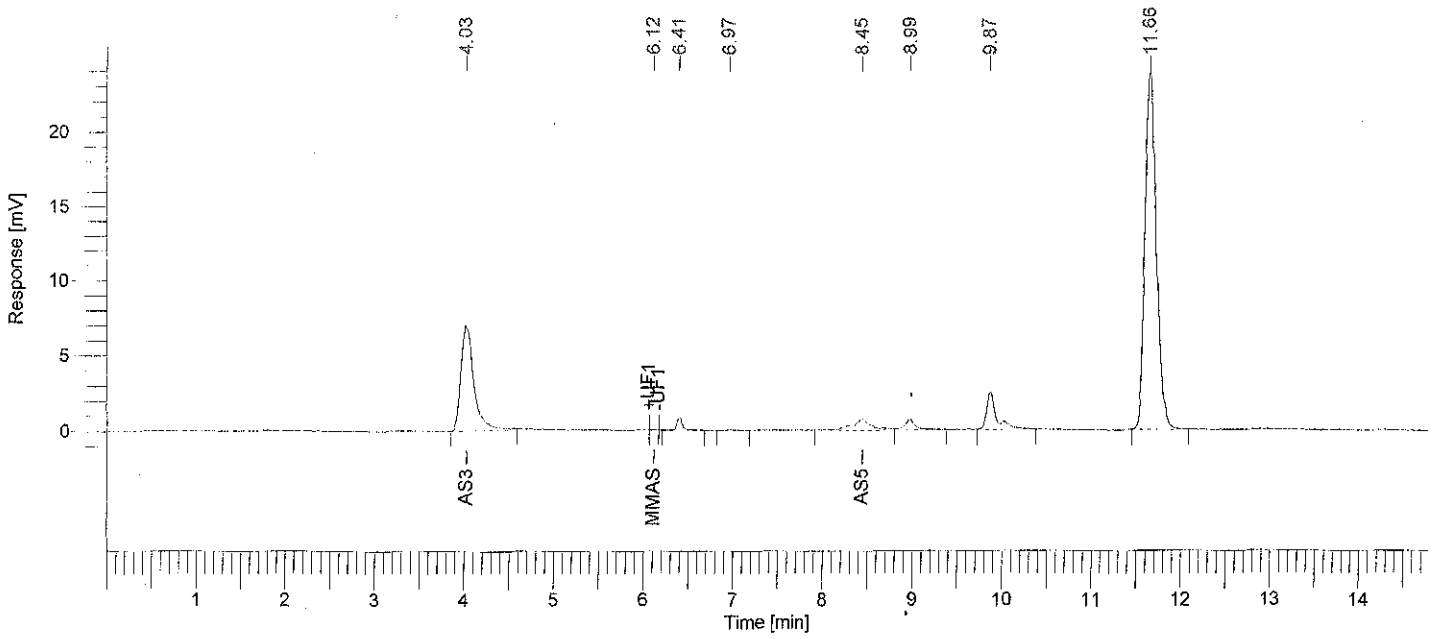
11/9/2006 4:39:33 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103035-061031-094350_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:41 PM
Sample Name	: 6103036	Data Acquisition Time	: 10/30/2006 11:22:53 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 36		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103036-061031-094357_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.032	70801.20	6925.32	21.69	21.69	BB	0.0708	0.0708
2	MMAs	6.118	131.88	46.38	0.04	0.04	MM	0.0001	0.0001
3		6.405	4086.05	878.99	1.25	1.25	BB	0.0041	0.0041
4		6.968	885.37	91.52	0.27	0.27	BB	0.0009	0.0009
5	As5	8.449	11945.14	782.05	3.66	3.66	BV	0.0119	0.0119
6		8.985	5657.89	705.36	1.73	1.73	VB	0.0057	0.0057
7		9.872	19588.90	2538.53	6.00	6.00	BB	0.0196	0.0196
8		11.665	213347.90	24078.34	65.36	65.36	BB	0.2133	0.2133
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			326444.33	36046.49	100.00	100.00		0.3264	0.3264

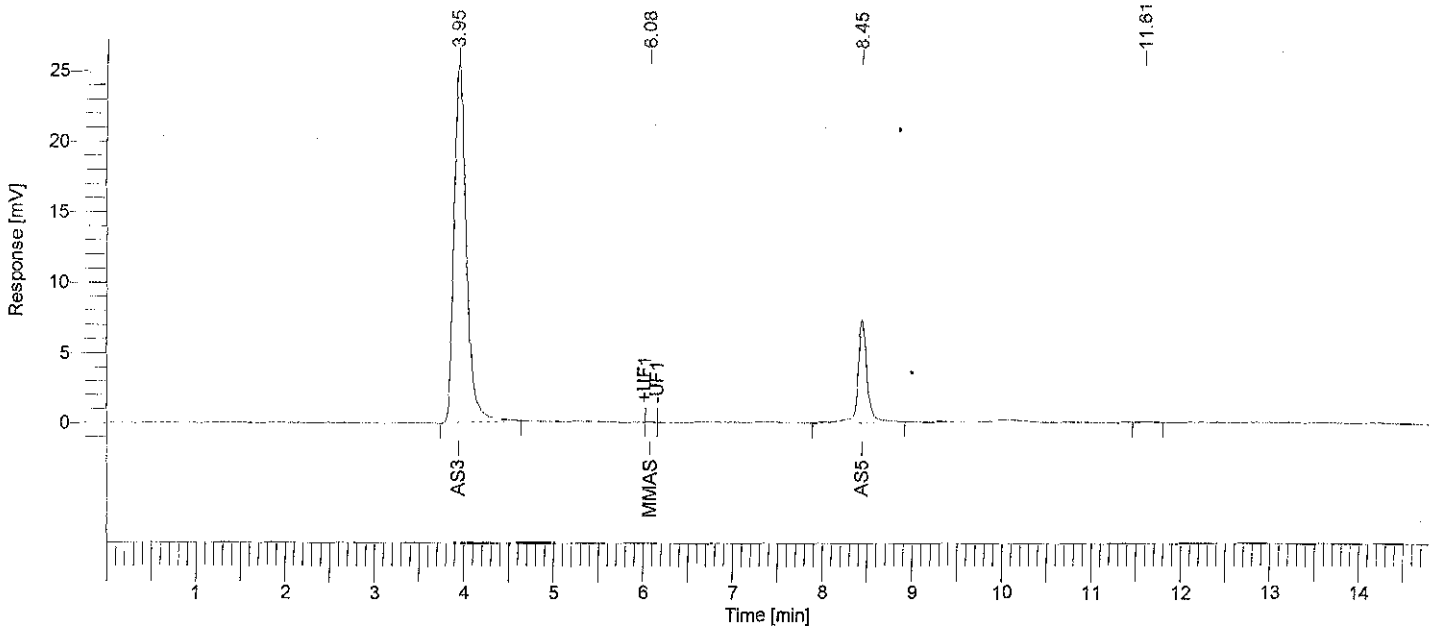
11/9/2006 4:39:41 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103036-061031-094357_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:39:51 PM
Sample Name	: 6103037	Data Acquisition Time	: 10/30/2006 11:38:04 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 37		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103037-061031-094404_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

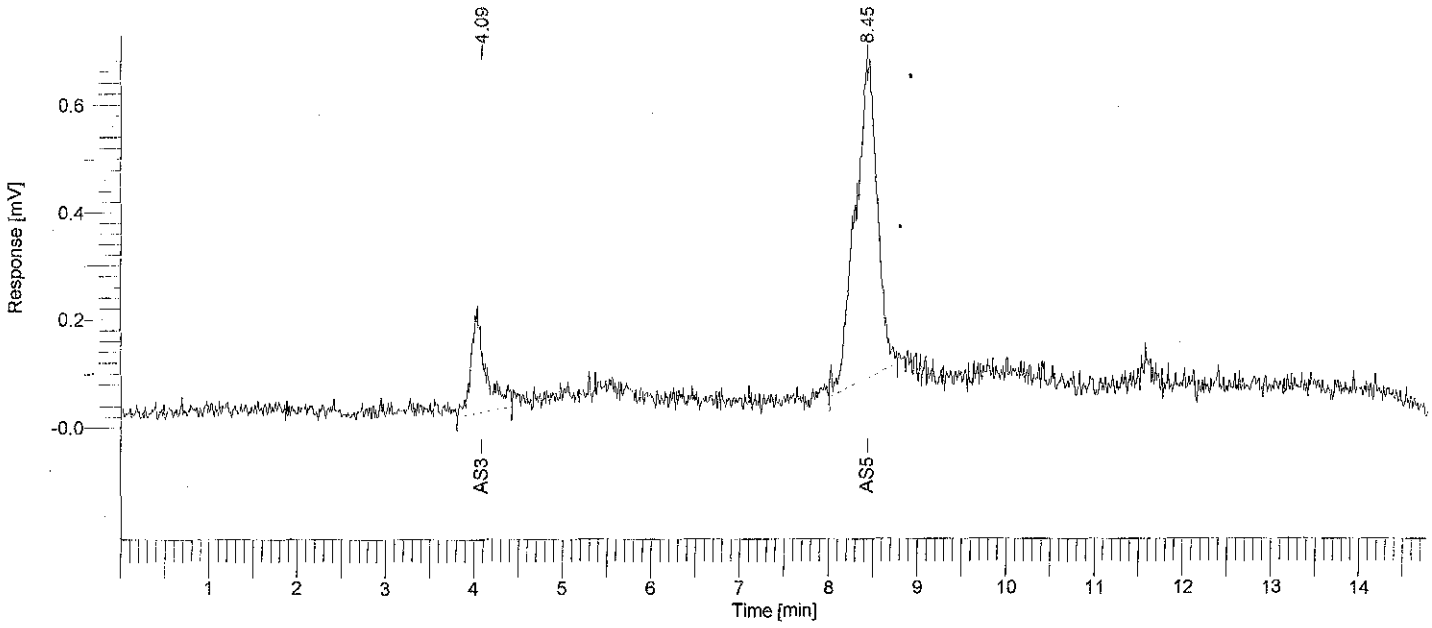
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.947	246911.02	25834.59	81.71	81.71	BB	0.2469	0.2469
2	MMAs	6.082	139.94	34.84	0.05	0.05	MM	0.0001	0.0001
3	As5	8.450	54221.99	7461.19	17.94	17.94	BB	0.0542	0.0542
4		11.609	894.60	73.40	0.30	0.30	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			302167.55	33404.02	100.00	100.00		0.3022	0.3022

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:00 PM
Sample Name	: 6103038	Data Acquisition Time	: 10/30/2006 11:53:15 PM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 38		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103038-061031-094410_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

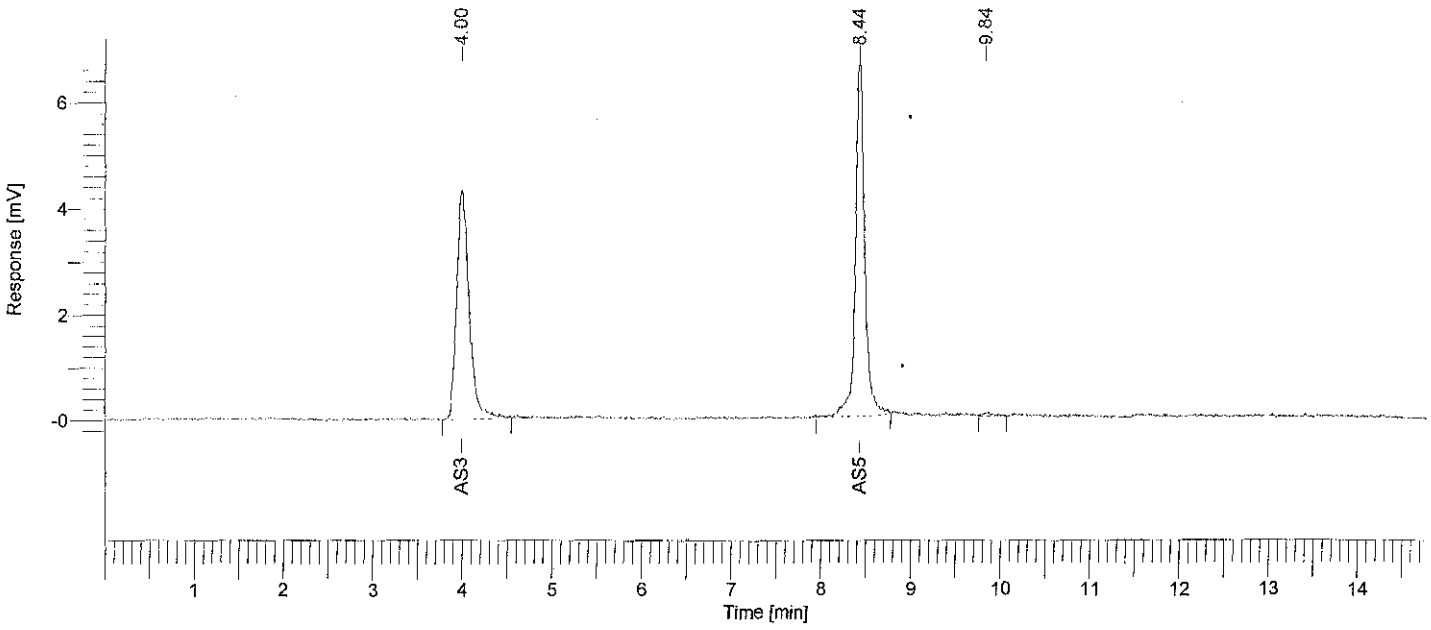
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.089	2237.21	108.44	17.95	17.95	BB	0.0022	0.0022
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.446	10228.26	579.44	82.05	82.05	BB	0.0102	0.0102
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12465.47	687.88	100.00	100.00		0.0125	0.0125

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:10 PM
Sample Name	: 6103039	Data Acquisition Time	: 10/31/2006 12:08:26 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 39		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103039-061031-094417_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.999	42469.36	4328.89	46.03	46.03	BB	0.0425	0.0425
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.439	49154.72	6783.70	53.28	53.28	BB	0.0492	0.0492
3		9.840	635.45	60.51	0.69	0.69	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			92259.53	11173.10	100.00	100.00		0.0923	0.0923

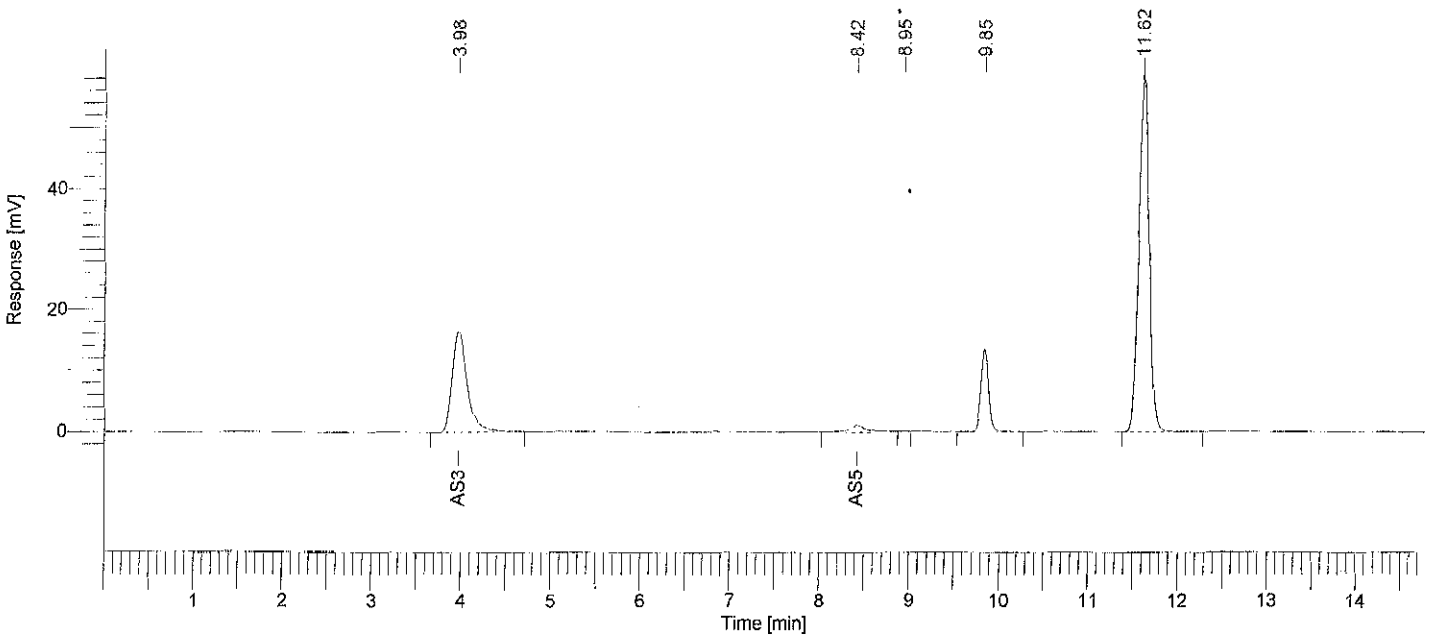
11/9/2006 4:40:10 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103039-061031-094417_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:19 PM
Sample Name	: 6103040	Data Acquisition Time	: 10/31/2006 12:23:37 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 40		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103040-061031-094423_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.976	190418.45	16387.35	25.25	25.25	BB	0.1904	0.1904
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.421	14086.40	1138.87	1.87	1.87	BB	0.0141	0.0141
3		8.947	325.89	63.17	0.04	0.04	BB	0.0003	0.0003
4		9.847	82812.27	13485.52	10.98	10.98	BB	0.0828	0.0828
5		11.618	466429.53	58898.93	61.85	61.85	BB	0.4664	0.4664
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			754072.54	89973.84	100.00	100.00		0.7541	0.7541

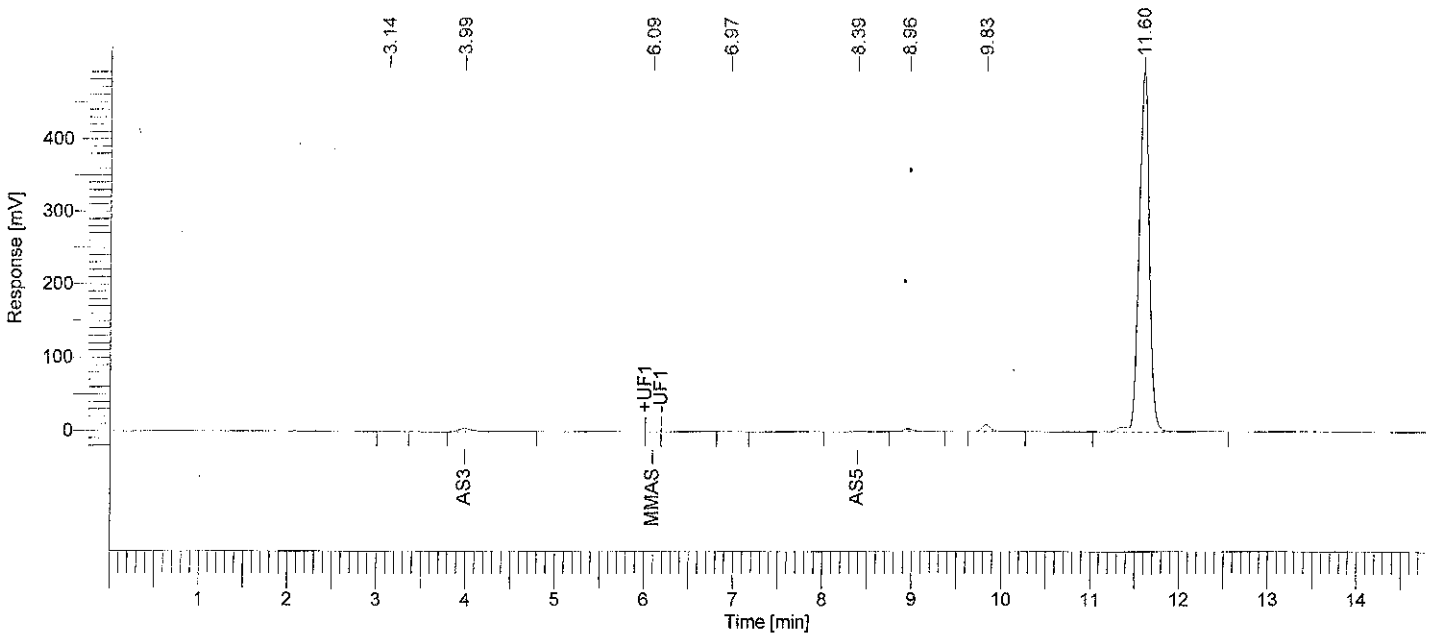
11/9/2006 4:40:19 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103040-061031-094423_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:28 PM
Sample Name	: 6103041	Data Acquisition Time	: 10/31/2006 12:38:48 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 41		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103041-061031-094430_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.140	790.94	92.47	0.02	0.02	BB	0.0008	0.0008
2	As3	3.990	52337.65	4408.61	1.27	1.27	BB	0.0523	0.0523
3	MMAs	6.094	1562.14	319.72	0.04	0.04	MM	0.0016	0.0016
4		6.969	1792.75	239.28	0.04	0.04	BB	0.0018	0.0018
5	As5	8.391	10315.79	571.24	0.25	0.25	BV	0.0103	0.0103
6		8.964	30069.01	3865.87	0.73	0.73	VB	0.0301	0.0301
7		9.830	62176.83	9783.27	1.51	1.51	BB	0.0622	0.0622
8		11.598	3957663.54	495298.40	96.14	96.14	BB	3.9577	3.9577
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			4116708.65	514578.85	100.00	100.00		4.1167	4.1167

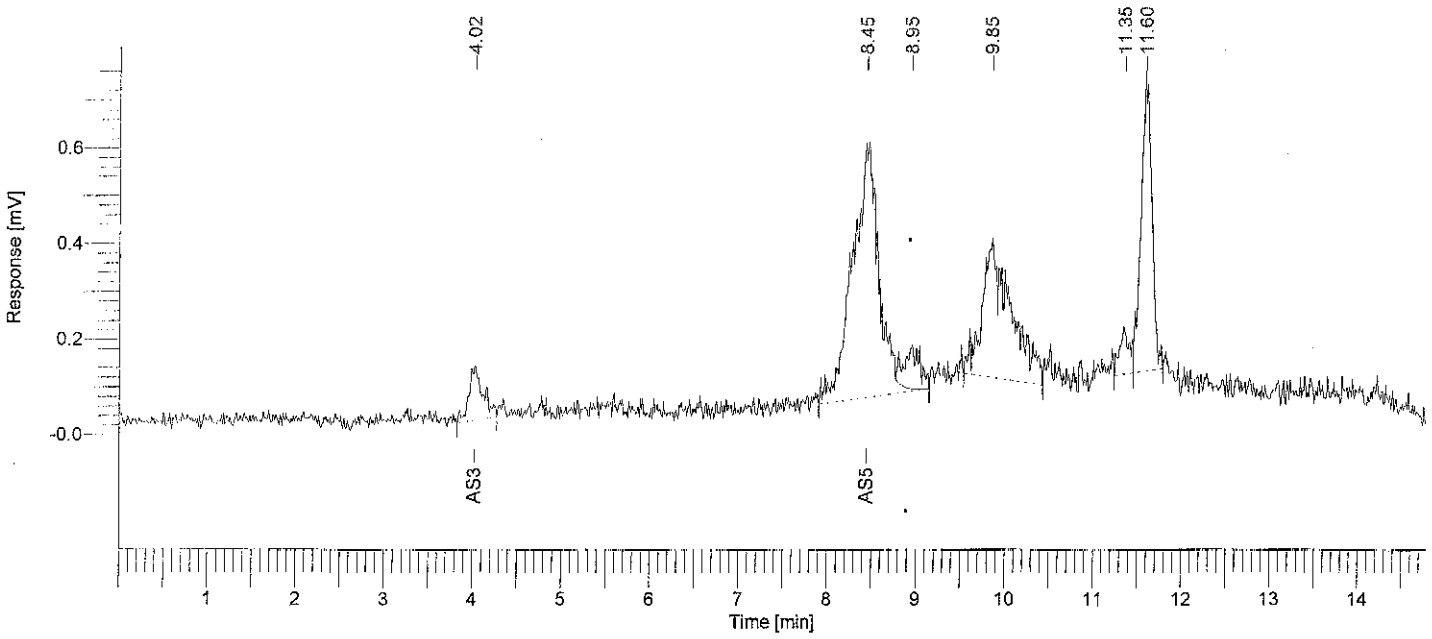
11/9/2006 4:40:28 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103041-061031-094430_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:37 PM
Sample Name	: 6103042	Data Acquisition Time	: 10/31/2006 12:53:59 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 42		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103042-061031-094437_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	4.023	1241.79	109.62	4.78	4.78	BB	0.0012	0.0012
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.447	10997.19	520.11	42.37	42.37	BE	0.0110	0.0110
3		8.950	1104.05	91.68	4.25	4.25	EB	0.0011	0.0011
4		9.852	6607.26	284.81	25.45	25.45	BB	0.0066	0.0066
5		11.354	757.35	95.05	2.92	2.92	BV	0.0008	0.0008
6		11.598	5249.96	598.44	20.23	20.23	VB	0.0052	0.0052
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			25957.60	1699.71	100.00	100.00		0.0260	0.0260

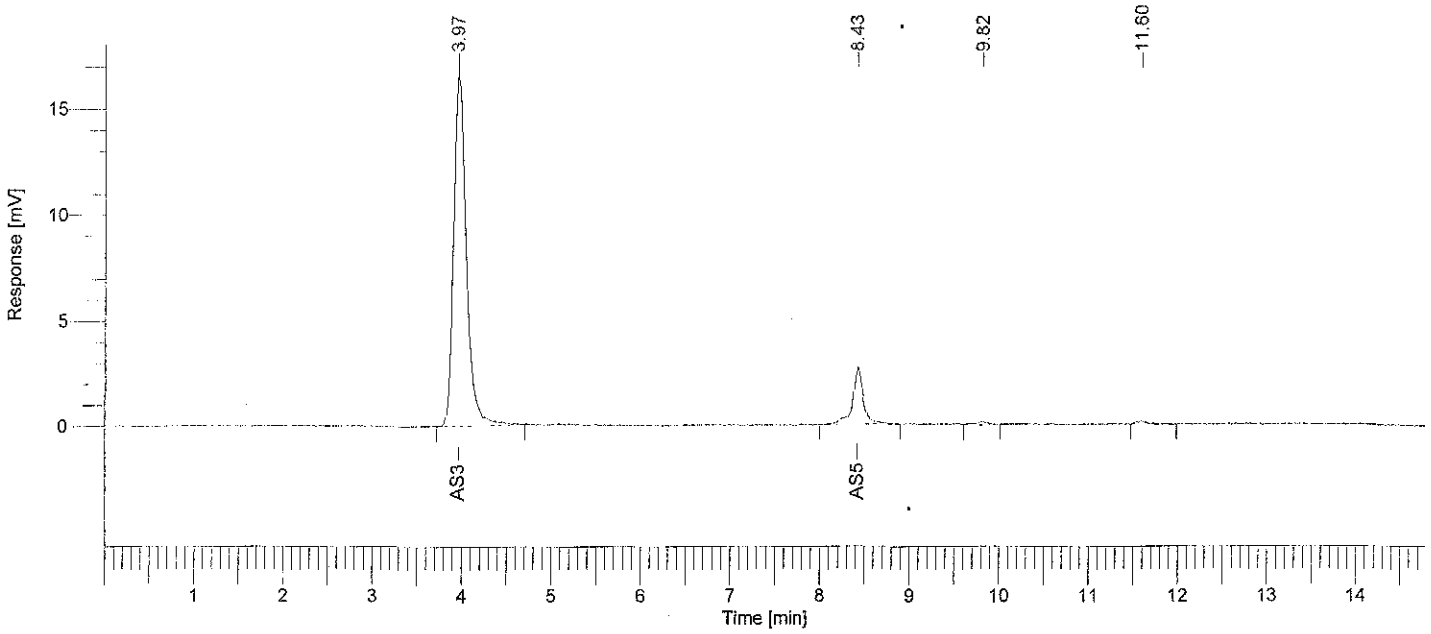
11/9/2006 4:40:37 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103042-061031-094437_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:48 PM
Sample Name	: 6103043	Data Acquisition Time	: 10/31/2006 1:09:10 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 43		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103043-061031-094443_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.970	164125.02	16635.17	86.03	86.03	BB	0.1641	0.1641
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.427	23177.24	2663.12	12.15	12.15	BB	0.0232	0.0232
3		9.822	1510.17	143.91	0.79	0.79	BB	0.0015	0.0015
4		11.602	1973.80	172.96	1.03	1.03	BB	0.0020	0.0020
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			190786.23	19615.16	100.00	100.00		0.1908	0.1908

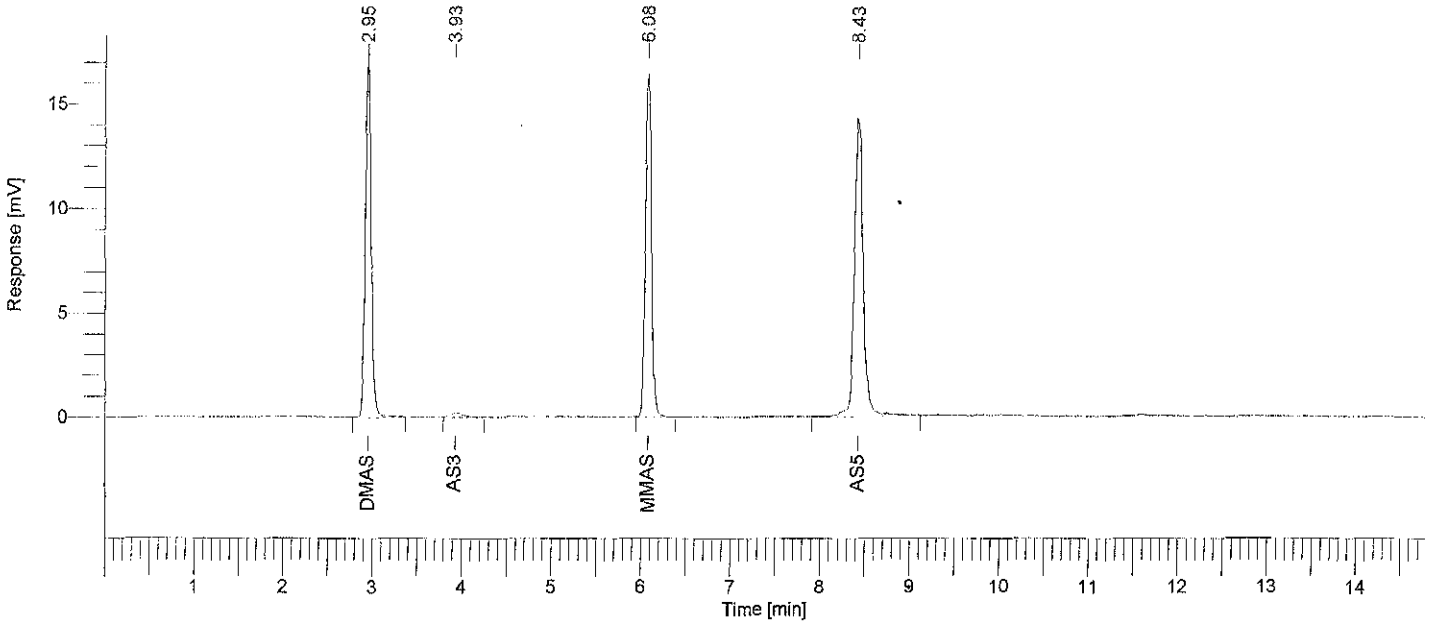
11/9/2006 4:40:48 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103043-061031-094443_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:40:56 PM
Sample Name	: 6103044	Data Acquisition Time	: 10/31/2006 1:24:21 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 44		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103044-061031-094450_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

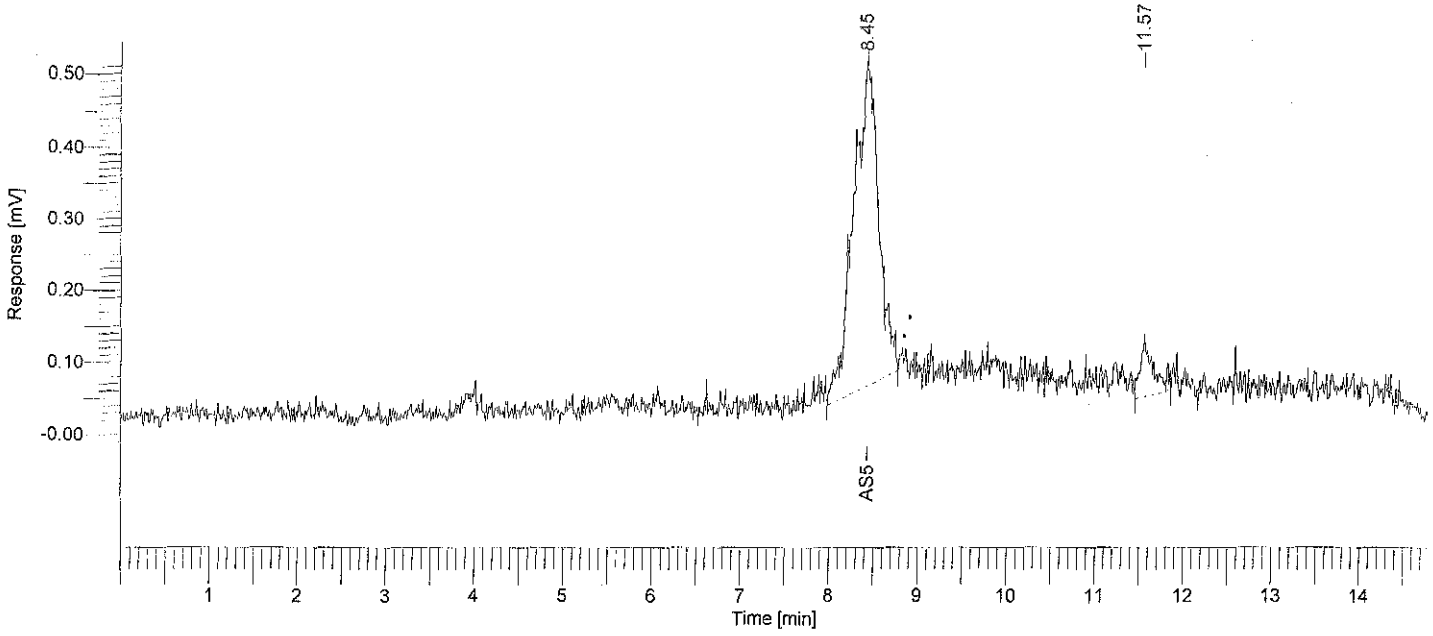
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.955	79710.28	16936.16	31.17	31.17	BB	0.0797	0.0797
2	As3	3.930	2255.67	207.49	0.88	0.88	BB	0.0023	0.0023
3	MMAs	6.083	75407.68	16475.31	29.49	29.49	BB	0.0754	0.0754
4	As5	8.433	98347.07	14395.98	38.46	38.46	BB	0.0983	0.0983
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			255720.70	48014.95	100.00	100.00		0.2557	0.2557

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:41:04 PM
Sample Name	: 6103045	Data Acquisition Time	: 10/31/2006 1:39:32 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 45		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103045-061031-094456_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.446	8936.06	446.92	91.30	91.30	BB	0.0089	0.0089
2		11.573	852.00	78.02	8.70	8.70	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9788.06	524.94	100.00	100.00		0.0098	0.0098

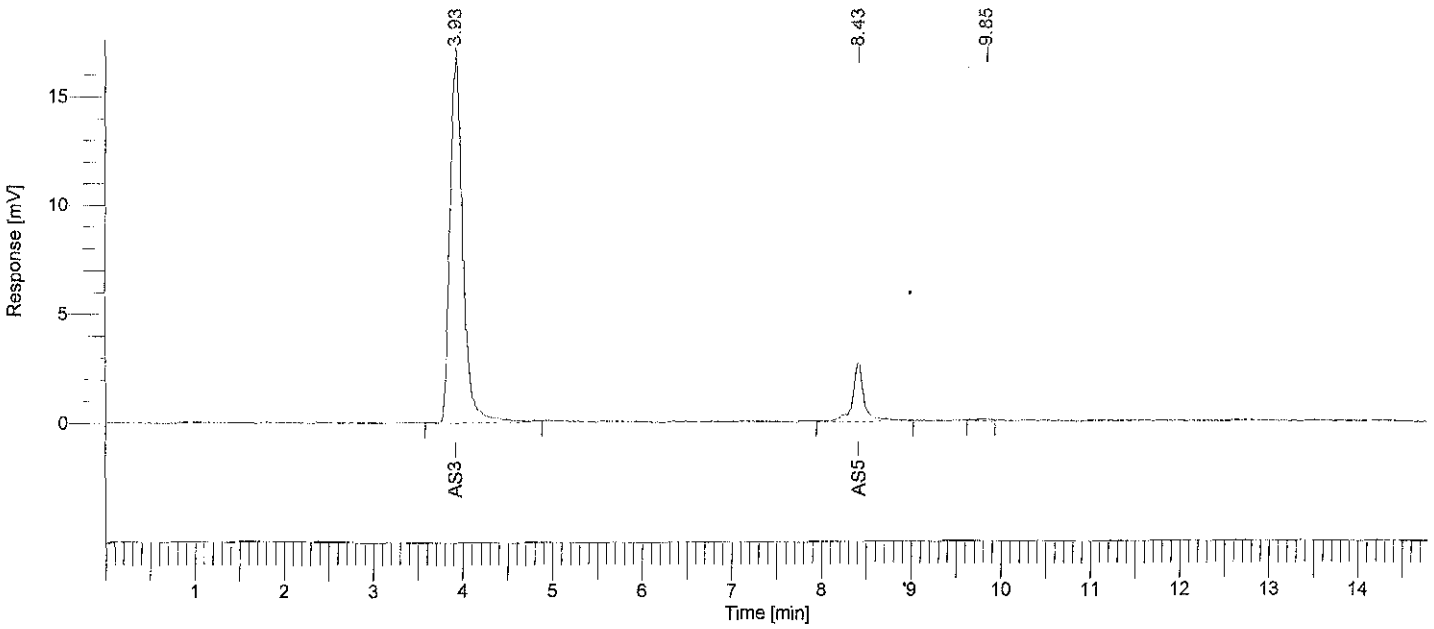
11/9/2006 4:41:04 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103045-061031-094456_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:41:14 PM
Sample Name	: 6103046	Data Acquisition Time	: 10/31/2006 1:54:43 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 46		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103046-061031-094503_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.928	168330.35	16436.12	86.75	86.75	BB	0.1683	0.1683
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.425	24566.00	2698.75	12.66	12.66	BB	0.0246	0.0246
3		9.852	1138.84	106.15	0.59	0.59	BB	0.0011	0.0011
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			194035.19	19241.01	100.00	100.00		0.1940	0.1940

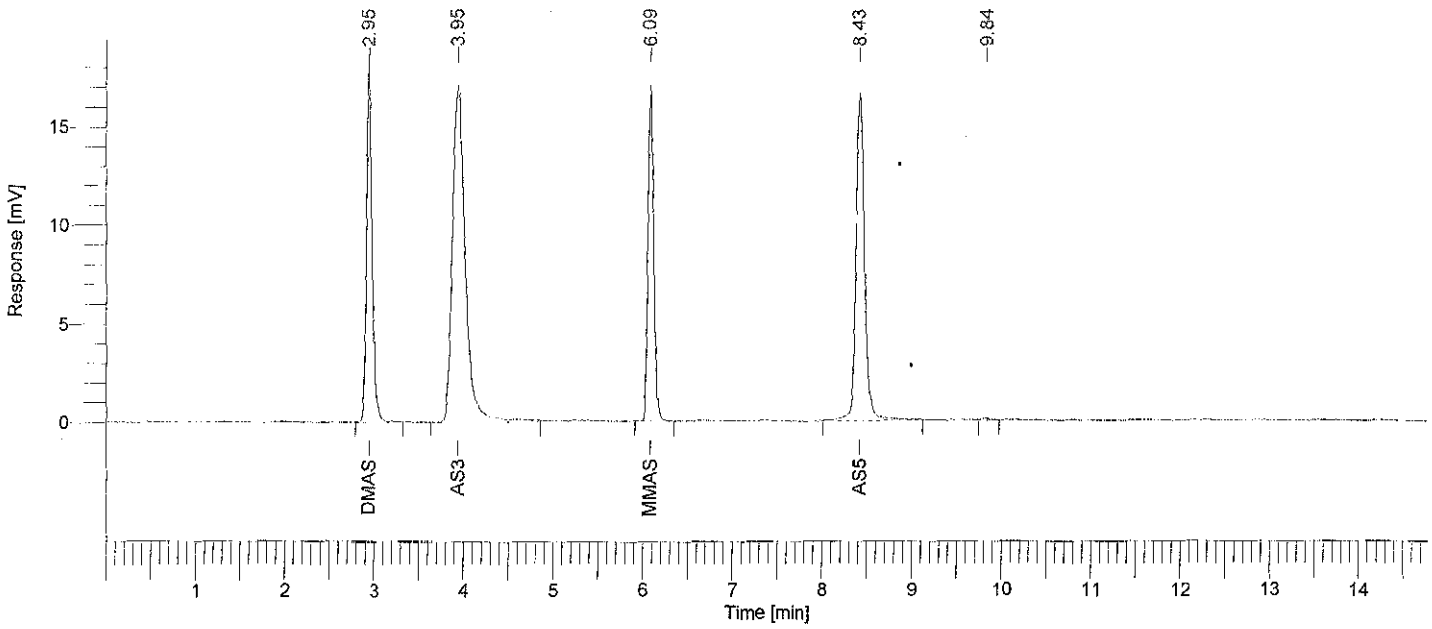
11/9/2006 4:41:14 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103046-061031-094503_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:13 PM
Sample Name	: 6103047	Data Acquisition Time	: 10/31/2006 2:09:54 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 47		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103047-061031-094509_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

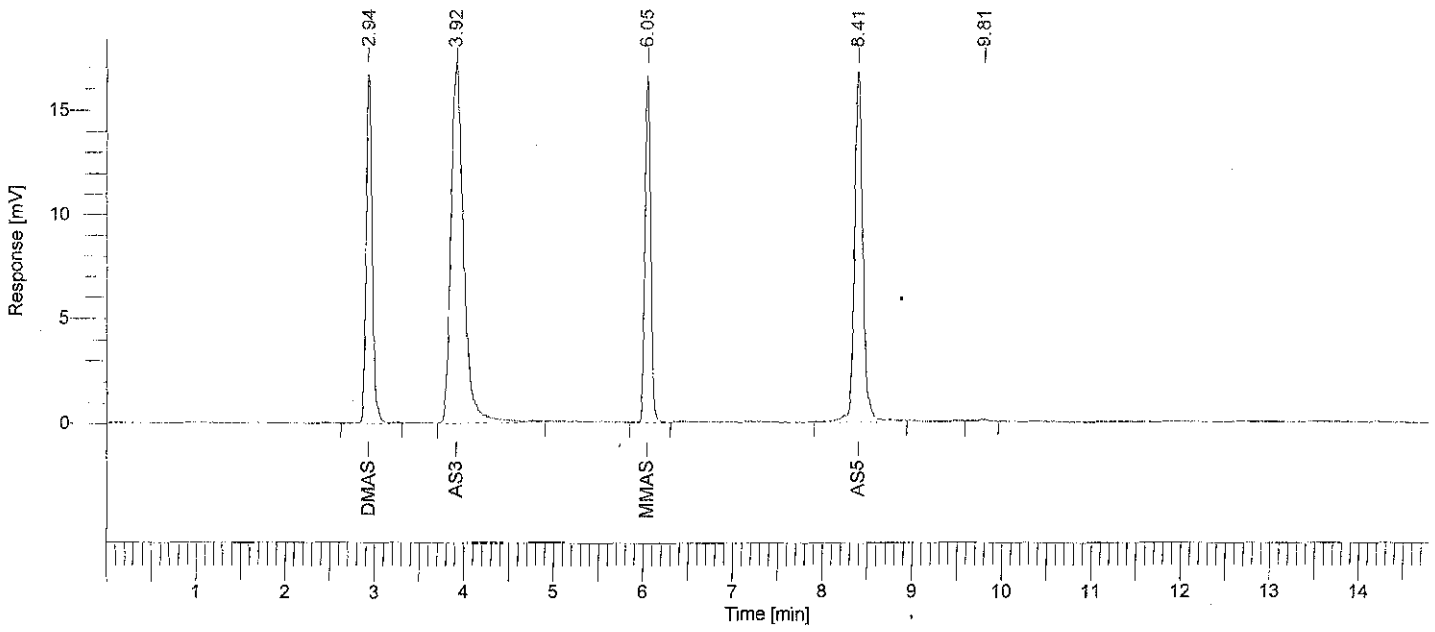
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.951	81123.18	17381.44	18.31	18.31	BB	0.0811	0.0811
2	As3	3.947	170799.73	17053.37	38.55	38.55	BB	0.1708	0.1708
3	MMAs	6.092	76915.01	16646.88	17.36	17.36	BB	0.0769	0.0769
4	As5	8.428	113477.88	16609.22	25.61	25.61	BB	0.1135	0.1135
5		9.840	739.82	100.63	0.17	0.17	BB	0.0007	0.0007
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			443055.62	67791.55	100.00	100.00		0.4431	0.4431

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:20 PM
Sample Name	: 6103048	Data Acquisition Time	: 10/31/2006 2:25:05 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 48		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103048-061031-094516_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

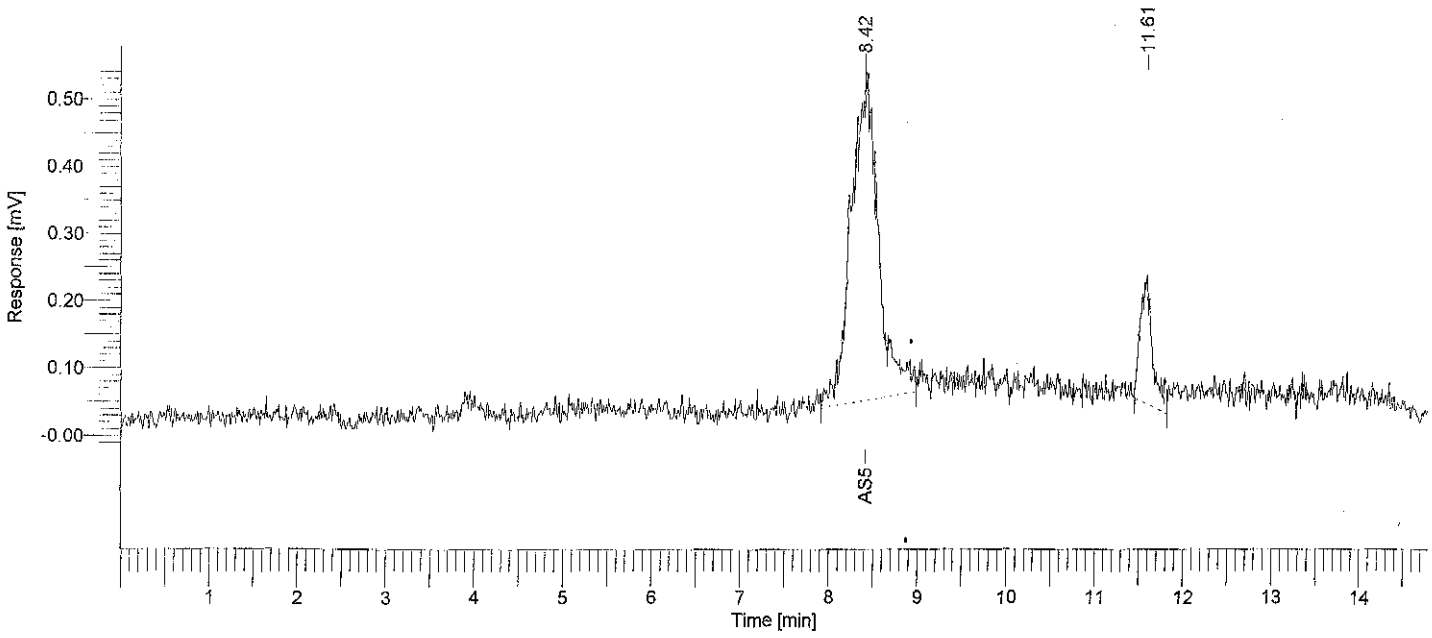
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.941	80144.80	16695.63	18.21	18.21	BB	0.0801	0.0801
2	As3	3.920	170887.77	17131.34	38.83	38.83	BB	0.1709	0.1709
3	MMAs	6.052	75326.74	16647.21	17.12	17.12	BB	0.0753	0.0753
4	As5	8.406	112823.97	16751.57	25.64	25.64	BB	0.1128	0.1128
5		9.811	905.96	98.43	0.21	0.21	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			440089.24	67324.19	100.00	100.00		0.4401	0.4401

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:30 PM
Sample Name	: 6103049	Data Acquisition Time	: 10/31/2006 2:40:16 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 49		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103049-061031-094523_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.421	10412.86	468.98	85.07	85.07	BB	0.0104	0.0104
2		11.608	1827.54	170.00	14.93	14.93	BB	0.0018	0.0018
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12240.40	638.98	100.00	100.00		0.0122	0.0122

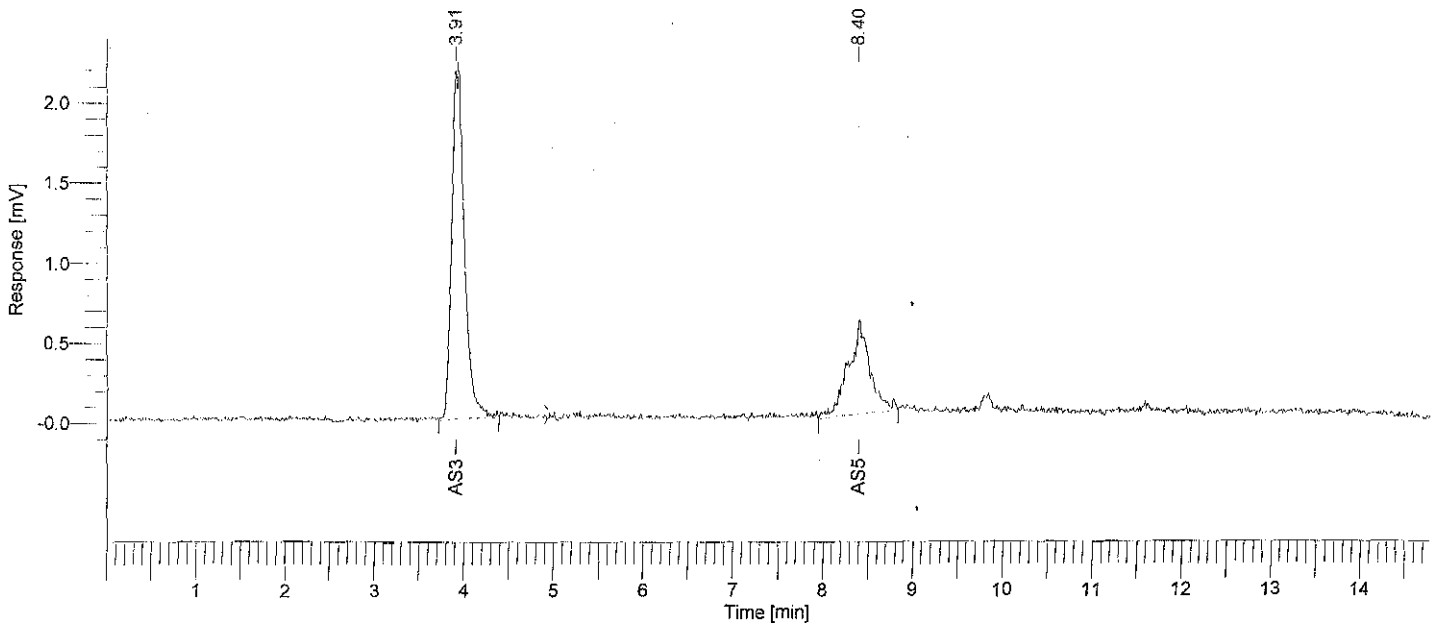
11/9/2006 4:42:30 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103049-061031-094523_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:38 PM
Sample Name	: 6103050	Data Acquisition Time	: 10/31/2006 2:55:27 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 50		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103050-061031-094529_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

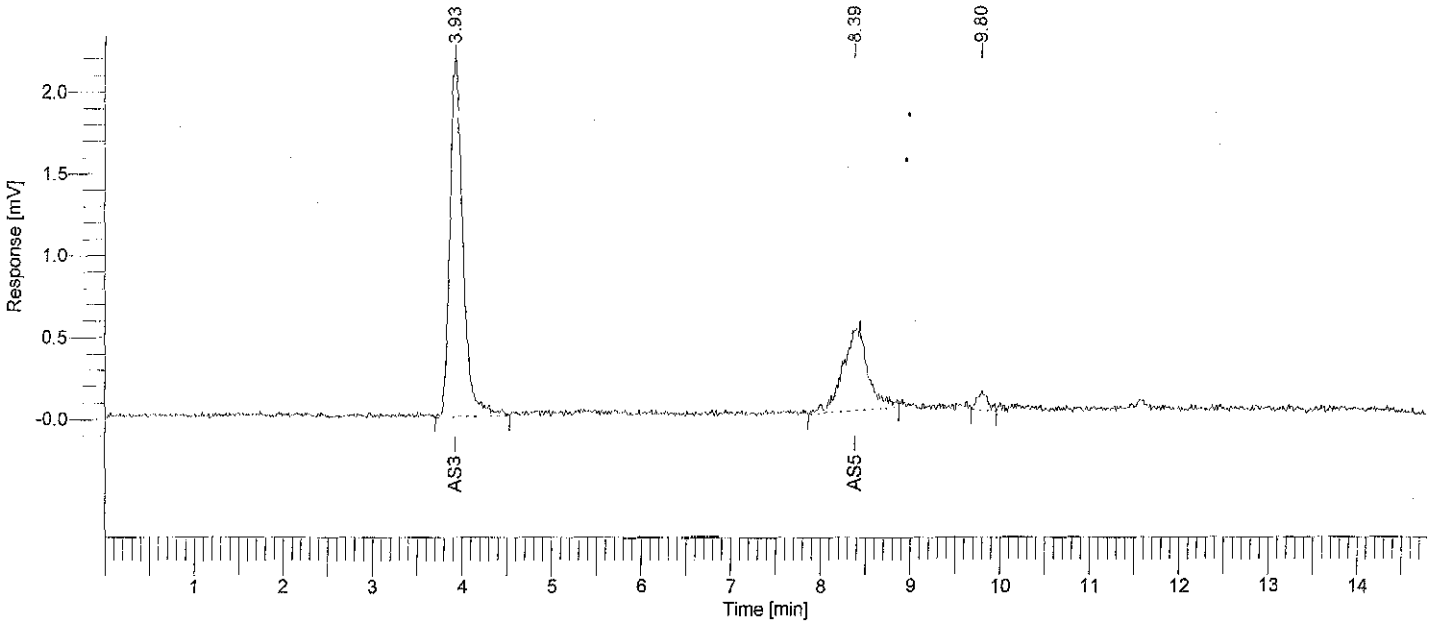
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.913	22093.78	2194.70	69.56	69.56	BB	0.0221	0.0221
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.402	9670.20	534.38	30.44	30.44	BB	0.0097	0.0097
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			31763.98	2729.08	100.00	100.00		0.0318	0.0318

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:45 PM
Sample Name	: 6103051	Data Acquisition Time	: 10/31/2006 3:10:38 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 51		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103051-061031-094536_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.931	22308.20	2162.87	67.16	67.16	BB	0.0223	0.0223
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.388	9930.06	493.46	29.90	29.90	BB	0.0099	0.0099
3		9.798	976.25	111.18	2.94	2.94	BB	0.0010	0.0010
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			33214.51	2767.51	100.00	100.00		0.0332	0.0332

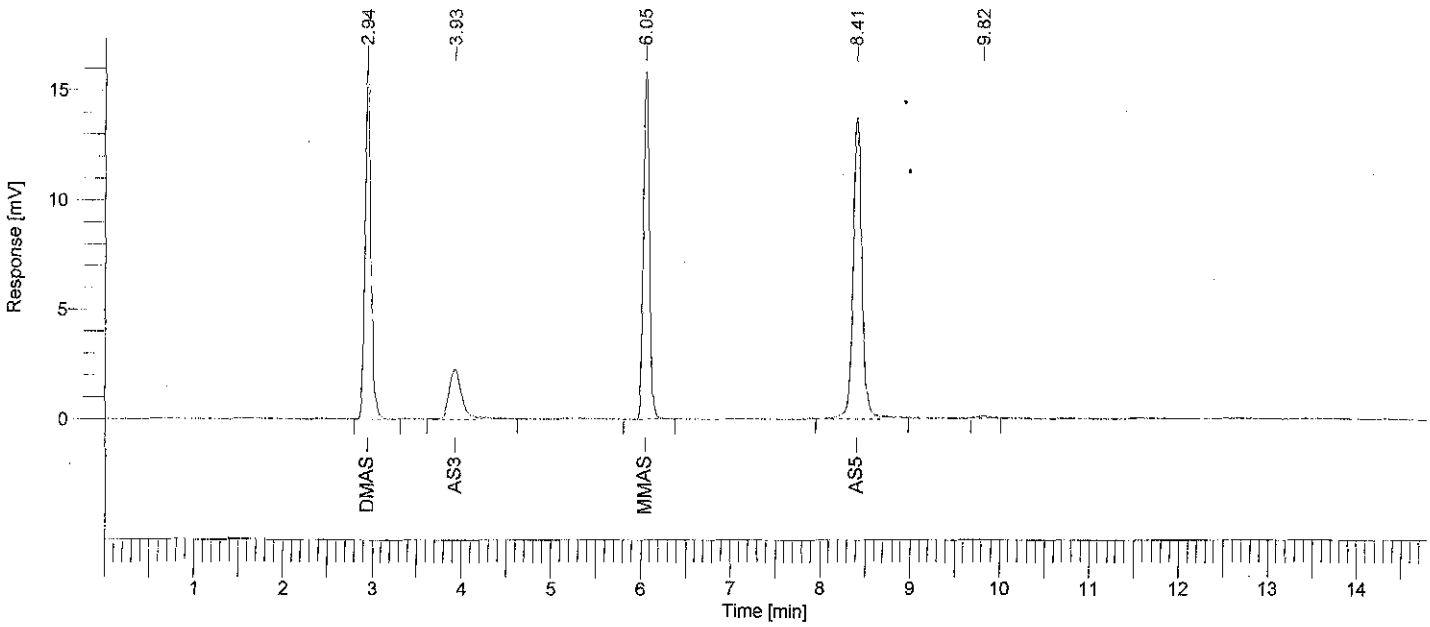
11/9/2006 4:42:45 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103051-061031-094536_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:42:53 PM
Sample Name	: 6103052	Data Acquisition Time	: 10/31/2006 3:25:49 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 52		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103052-061031-094542_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

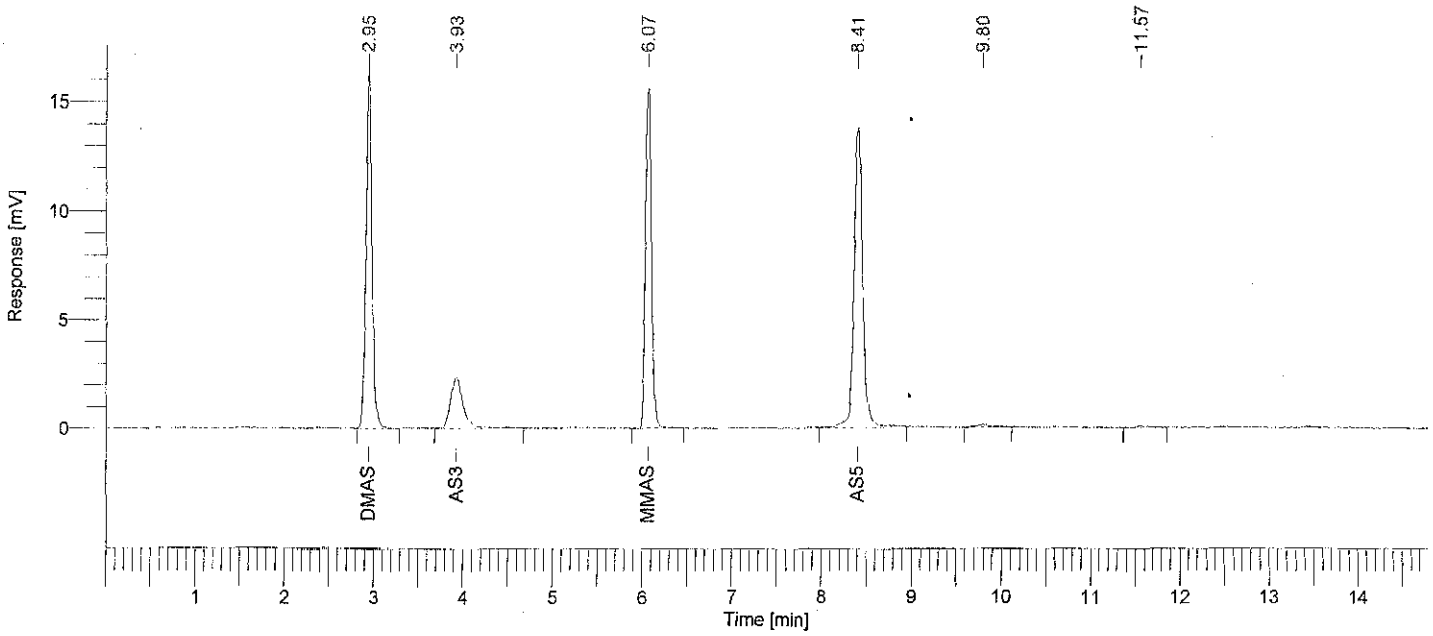
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.945	78131.95	16096.99	28.54	28.54	BB	0.0781	0.0781
2	As3	3.931	24185.44	2279.12	8.84	8.84	BB	0.0242	0.0242
3	MMAs	6.053	74518.76	15851.83	27.22	27.22	BB	0.0745	0.0745
4	As5	8.410	95894.73	13855.65	35.03	35.03	BB	0.0959	0.0959
5		9.819	994.71	118.23	0.36	0.36	BB	0.0010	0.0010
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			273725.59	48201.82	100.00	100.00		0.2737	0.2737

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:01 PM
Sample Name	: 6103053	Data Acquisition Time	: 10/31/2006 3:41:00 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 53		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103053-061031-094549_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

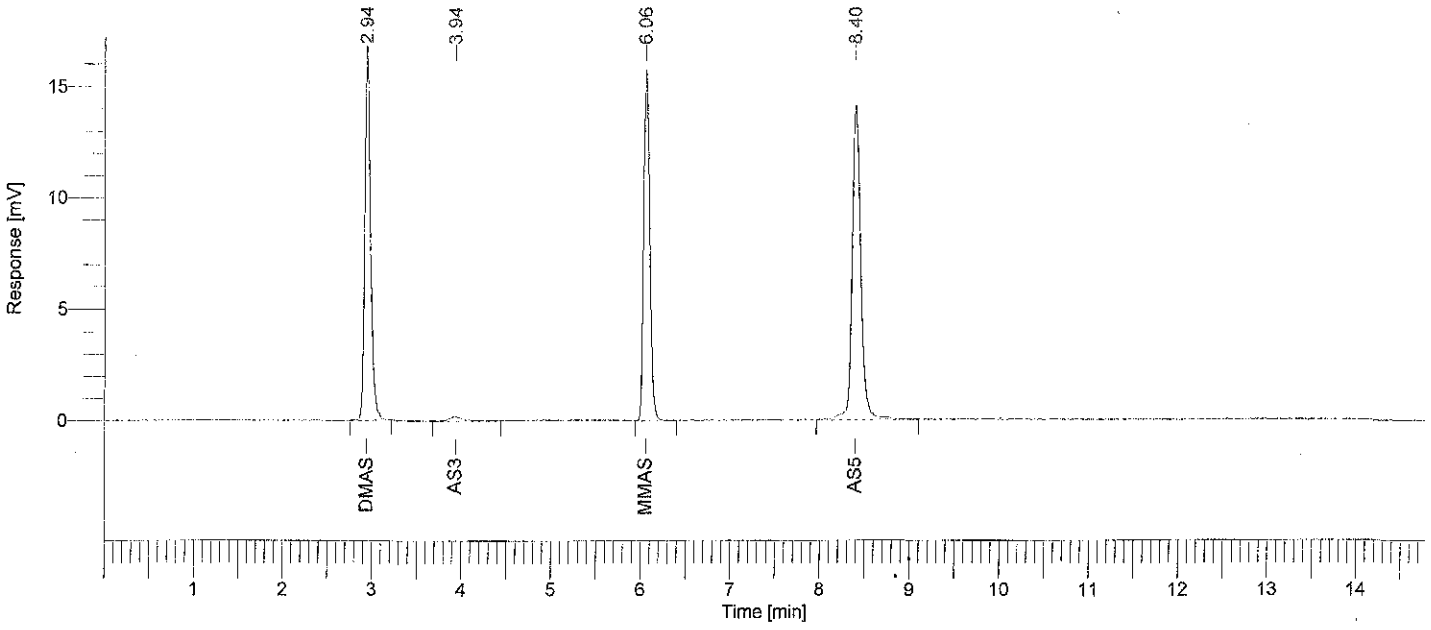
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	78679.36	16243.89	28.50	28.50	BB	0.0787	0.0787
2	As3	3.931	24026.40	2375.37	8.70	8.70	BB	0.0240	0.0240
3	MMAs	6.066	75618.55	15842.30	27.39	27.39	BB	0.0756	0.0756
4	As5	8.407	95480.80	14042.30	34.59	34.59	BB	0.0955	0.0955
5		9.799	1329.83	139.85	0.48	0.48	BB	0.0013	0.0013
6		11.565	914.48	70.82	0.33	0.33	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			276049.42	48714.53	100.00	100.00		0.2760	0.2760

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:23 PM
Sample Name	: 6103054	Data Acquisition Time	: 10/31/2006 3:56:11 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 54		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103054-061031-094555_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

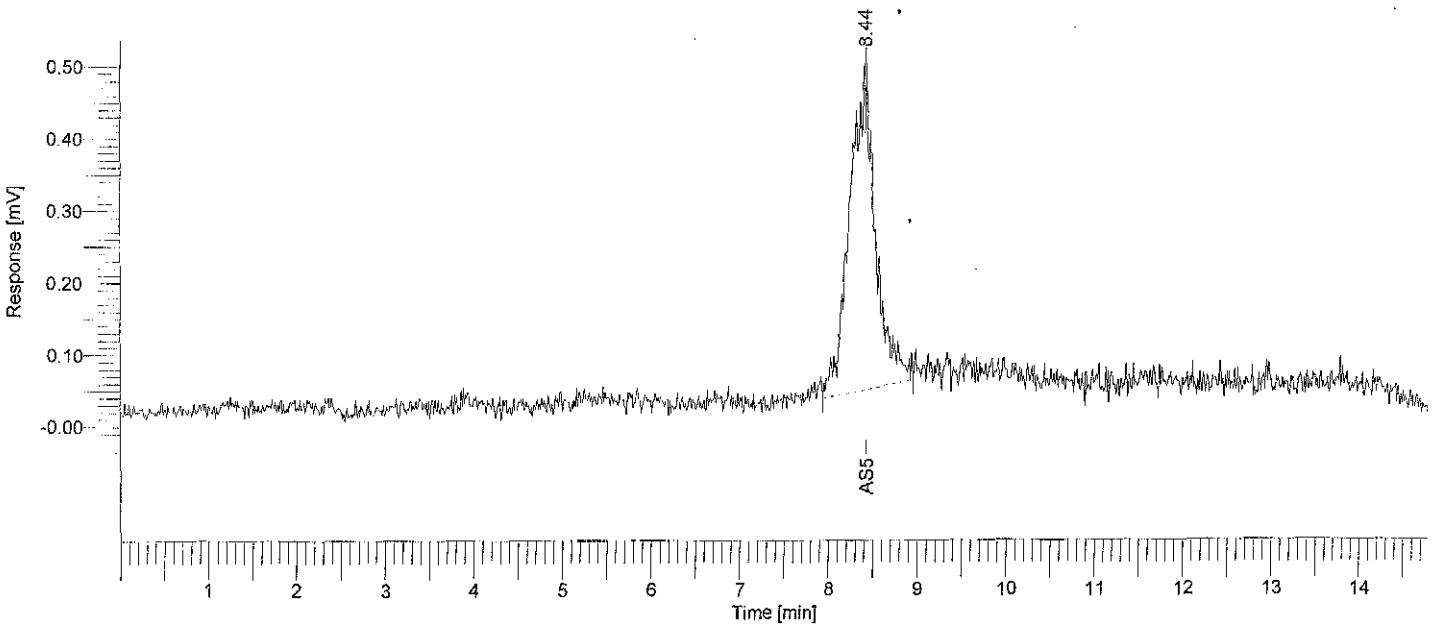
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.944	76278.85	15806.14	30.41	30.41	BB	0.0763	0.0763
2	As3	3.938	2313.89	205.96	0.92	0.92	BB	0.0023	0.0023
3	MMAs	6.059	74492.49	15616.04	29.70	29.70	BB	0.0745	0.0745
4	As5	8.398	97771.26	14110.62	38.97	38.97	BB	0.0978	0.0978
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			250856.49	45738.76	100.00	100.00		0.2509	0.2509

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:43:59 PM
Sample Name	: 6103055	Data Acquisition Time	: 10/31/2006 4:11:22 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 55		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103055-061031-094602_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

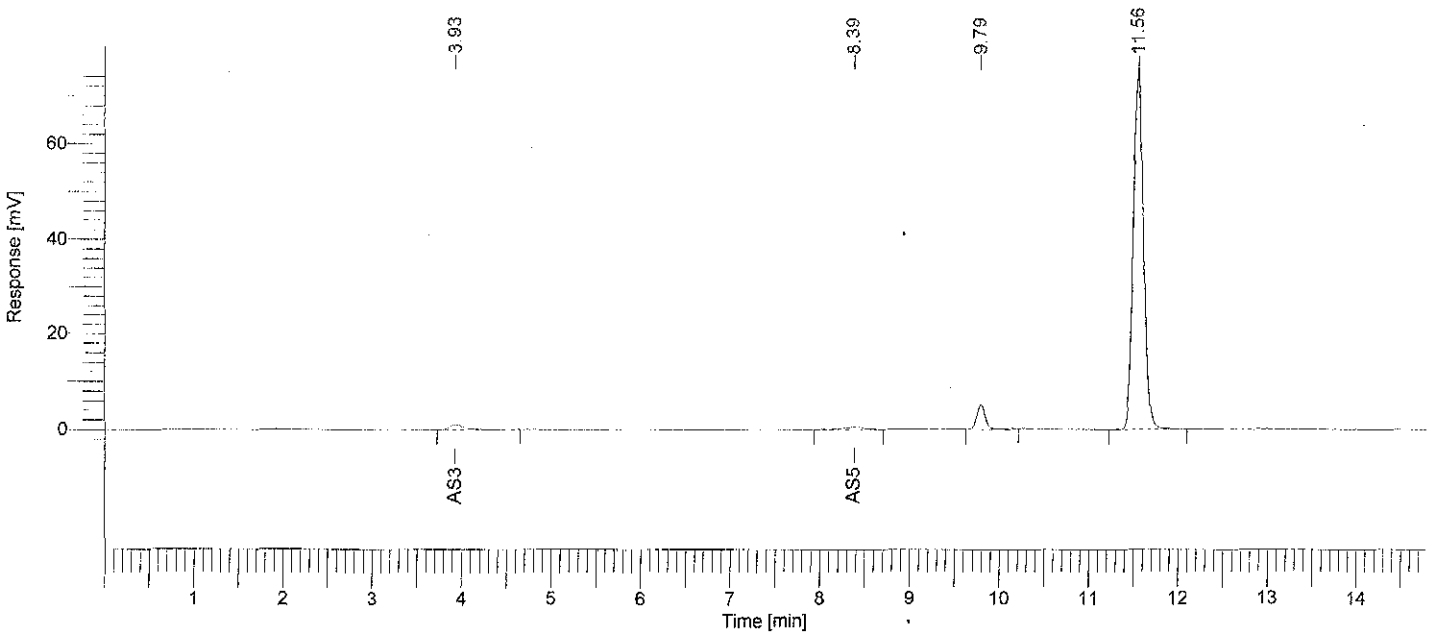
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.441	9169.65	428.01	100.00	100.00	BB	0.0092	0.0092
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9169.65	428.01	100.00	100.00		0.0092	0.0092

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:12 PM
Sample Name	: 6103056	Data Acquisition Time	: 10/31/2006 4:26:33 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 56		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103056-061031-094609_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.934	14568.49	1152.72	2.20	2.20	BB	0.0146	0.0146
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.387	9318.04	640.08	1.40	1.40	BB	0.0093	0.0093
3		9.794	34236.91	5150.62	5.16	5.16	BB	0.0342	0.0342
4		11.561	605378.66	74972.77	91.24	91.24	BB	0.6054	0.6054
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			663502.10	81916.18	100.00	100.00		0.6635	0.6635

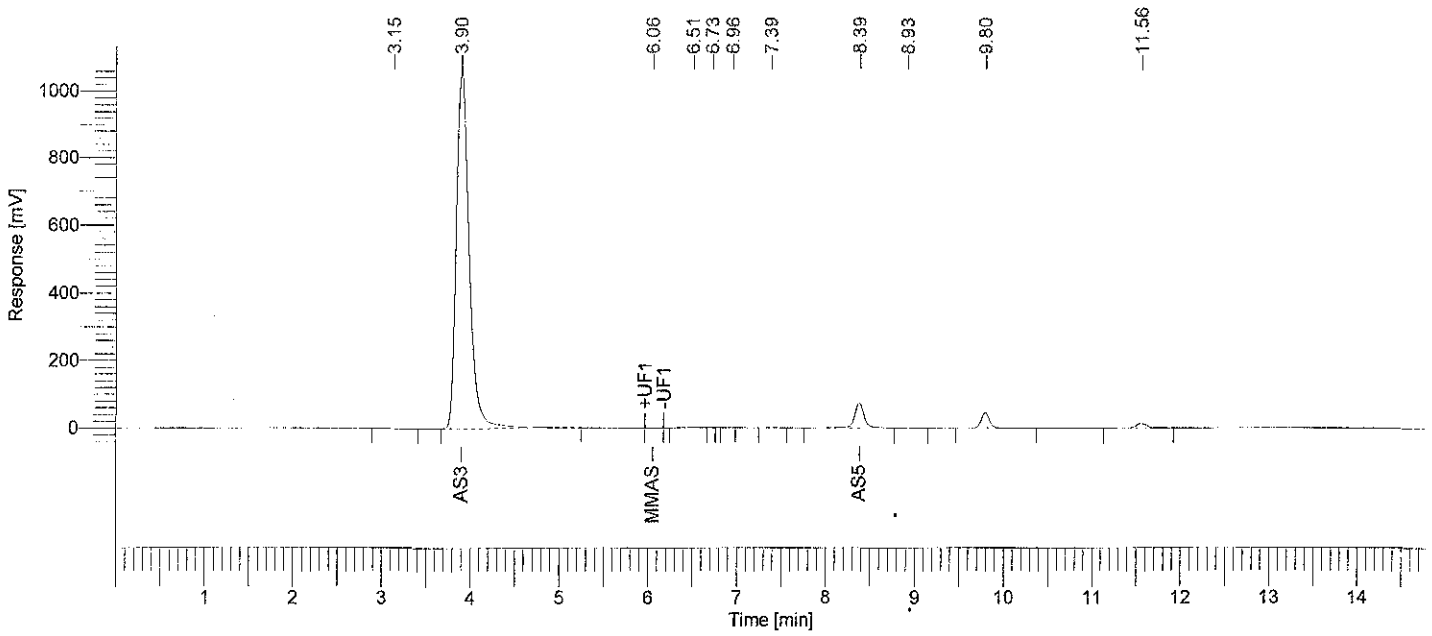
11/9/2006 4:44:12 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103056-061031-094609_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:21 PM
Sample Name	: 6103057	Data Acquisition Time	: 10/31/2006 4:41:44 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 57		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103057-061031-094615_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.146	2477.19	271.15	0.02	0.02	BB	0.0025	0.0025
2	As3	3.905	10696407.73	1.07e+06	91.62	91.62	BB	----------	----------
3	MMAs	6.059	1882.08	286.83	0.02	0.02	MM	0.0019	0.0019
4		6.510	10221.90	452.18	0.09	0.09	BV	0.0102	0.0102
5		6.730	1040.12	276.48	0.01	0.01	VB	0.0010	0.0010
6		6.958	2156.27	306.99	0.02	0.02	BB	0.0022	0.0022
7		7.390	12021.72	1000.43	0.10	0.10	BB	0.0120	0.0120
8	As5	8.389	532449.77	74199.65	4.56	4.56	BV	0.5324	0.5324
9		8.926	4185.01	541.39	0.04	0.04	VB	0.0042	0.0042
10		9.801	295195.28	46328.36	2.53	2.53	BB	0.2952	0.2952
11		11.565	116356.22	13966.50	1.00	1.00	BB	0.1164	0.1164
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11674393.30	1.21e+06	100.00	100.00		0.9780	0.9780

11/9/2006 4:44:21 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103057-061031-094615_As.rst

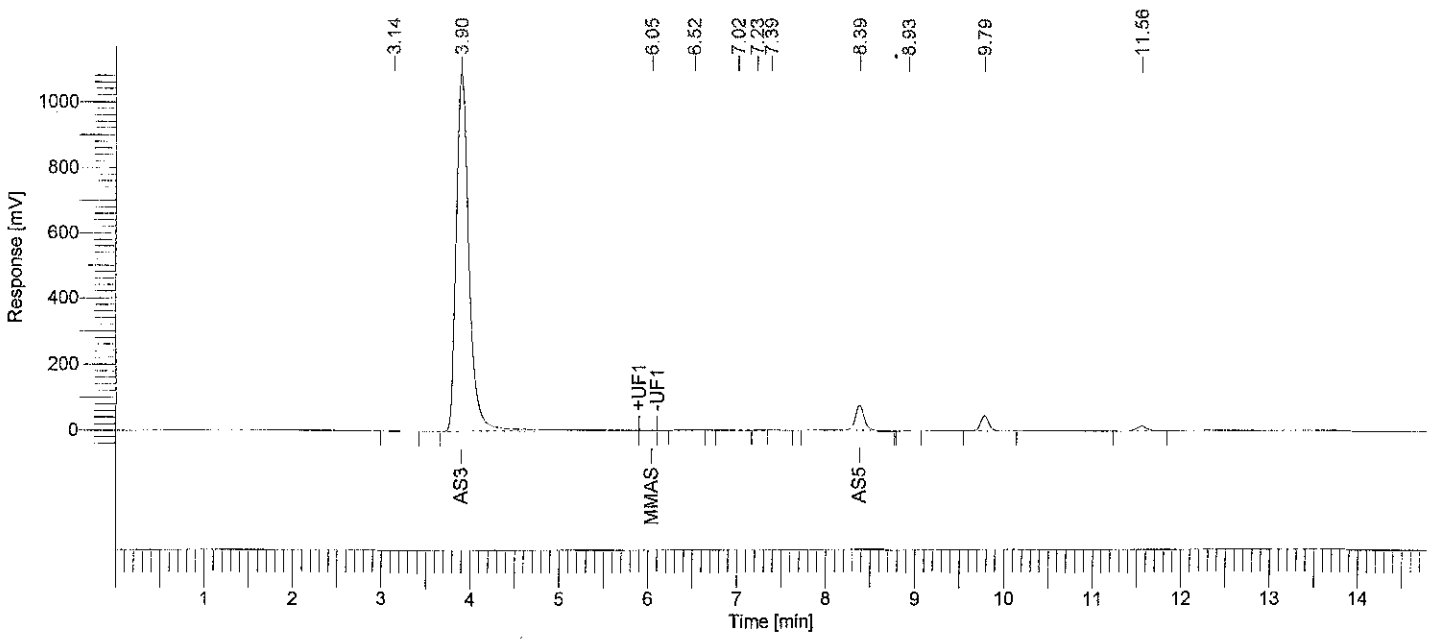
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version : 6.2.0.0.0:B27		Date	: 11/9/2006 4:44:28 PM
Sample Name : 6103058		Data Acquisition Time	: 10/31/2006 4:56:55 AM
Instrument Name :		Channel	: A
Rack/Vial : 0/1		Operator	: Haican
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 58			

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103058-061031-094622_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1		3.142	2747.70	318.22	0.02	0.02	BB	0.0027	0.0027
2	As3	3.905	10979387.27	1.10e+06	91.54	91.54	BB	----------	----------
3	MMAs	6.047	1532.51	238.88	0.01	0.01	MM	0.0015	0.0015
4		6.525	8241.68	320.89	0.07	0.07	BB	0.0082	0.0082
5		7.018	14072.55	781.18	0.12	0.12	BV	0.0141	0.0141
6		7.231	10813.61	1061.24	0.09	0.09	VV	0.0108	0.0108
7		7.392	12539.36	1358.00	0.10	0.10	VB	0.0125	0.0125
8	As5	8.390	547820.38	76031.46	4.57	4.57	BB	0.5478	0.5478
9		8.934	4466.61	554.75	0.04	0.04	BB	0.0045	0.0045
10		9.788	293922.25	45827.48	2.45	2.45	BB	0.2939	0.2939
11		11.562	118104.95	14392.79	0.98	0.98	BB	0.1181	0.1181
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			11993648.87	1.24e+06	100.00	100.00		1.0143	1.0143

11/9/2006 4:44:28 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103058-061031-094622_As.rst

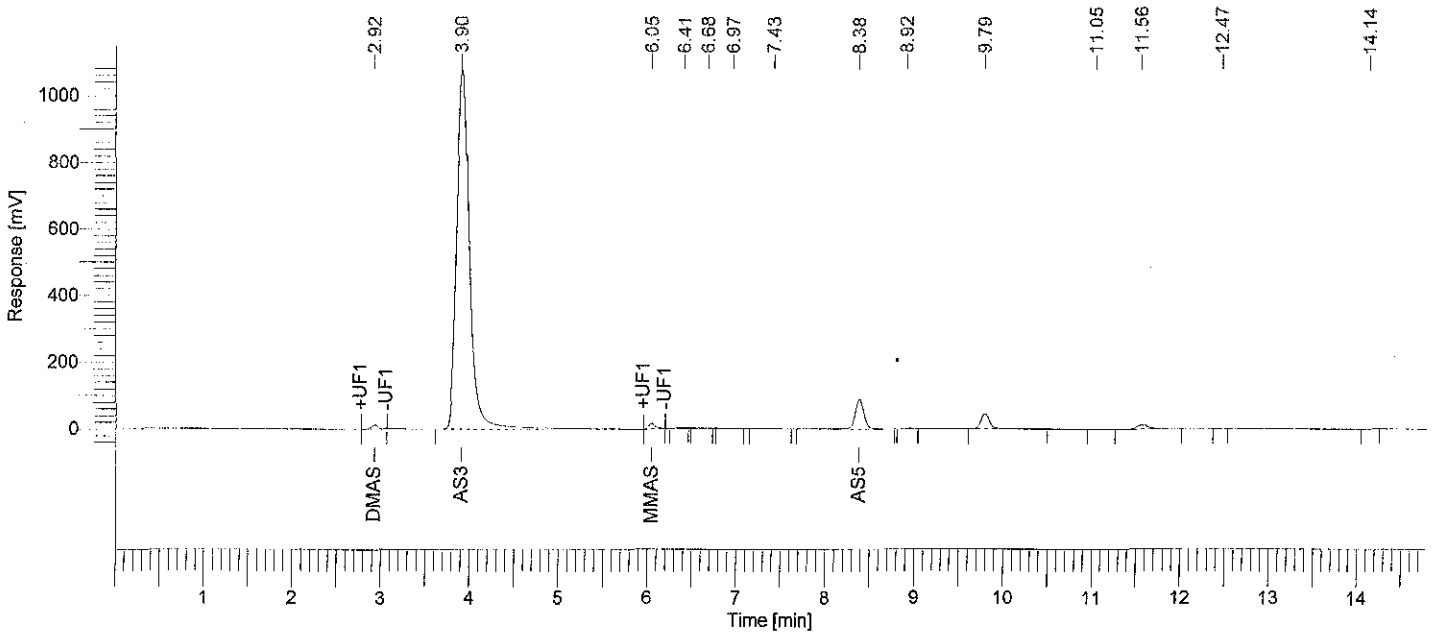
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:36 PM
Sample Name	: 6103059	Data Acquisition Time	: 10/31/2006 5:12:06 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 59		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103059-061031-094629_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.923	74987.00	12966.28	0.61	0.61	MM	0.0750	0.0750
2	As3	3.905	11054195.19	1.08e+06	89.48	89.48	BB	----------	----------
3	MMAs	6.047	75384.44	15058.30	0.61	0.61	MM	0.0754	0.0754
4		6.414	8363.19	897.23	0.07	0.07	BV	0.0084	0.0084
5		6.682	14113.48	1098.54	0.11	0.11	VV	0.0141	0.0141
6		6.965	23900.00	1435.23	0.19	0.19	VV	0.0239	0.0239
7		7.426	32885.68	1706.32	0.27	0.27	VB	0.0329	0.0329
8	As5	8.383	642770.81	89952.25	5.20	5.20	BB	0.6428	0.6428
9		8.916	4075.40	574.01	0.03	0.03	BB	0.0041	0.0041
10		9.792	302143.34	46192.51	2.45	2.45	BB	0.3021	0.3021
11		11.050	953.38	97.29	0.01	0.01	BV	0.0010	0.0010
12		11.561	119123.24	14559.09	0.96	0.96	VB	0.1191	0.1191
13		12.472	429.55	89.69	0.00	0.00	BB	0.0004	0.0004
14		14.143	602.08	59.44	0.00	0.00	BB	0.0006	0.0006
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12353926.78	1.27e+06	100.00	100.00		1.2997	1.2997

11/9/2006 4:44:36 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103059-061031-094629_As.rst

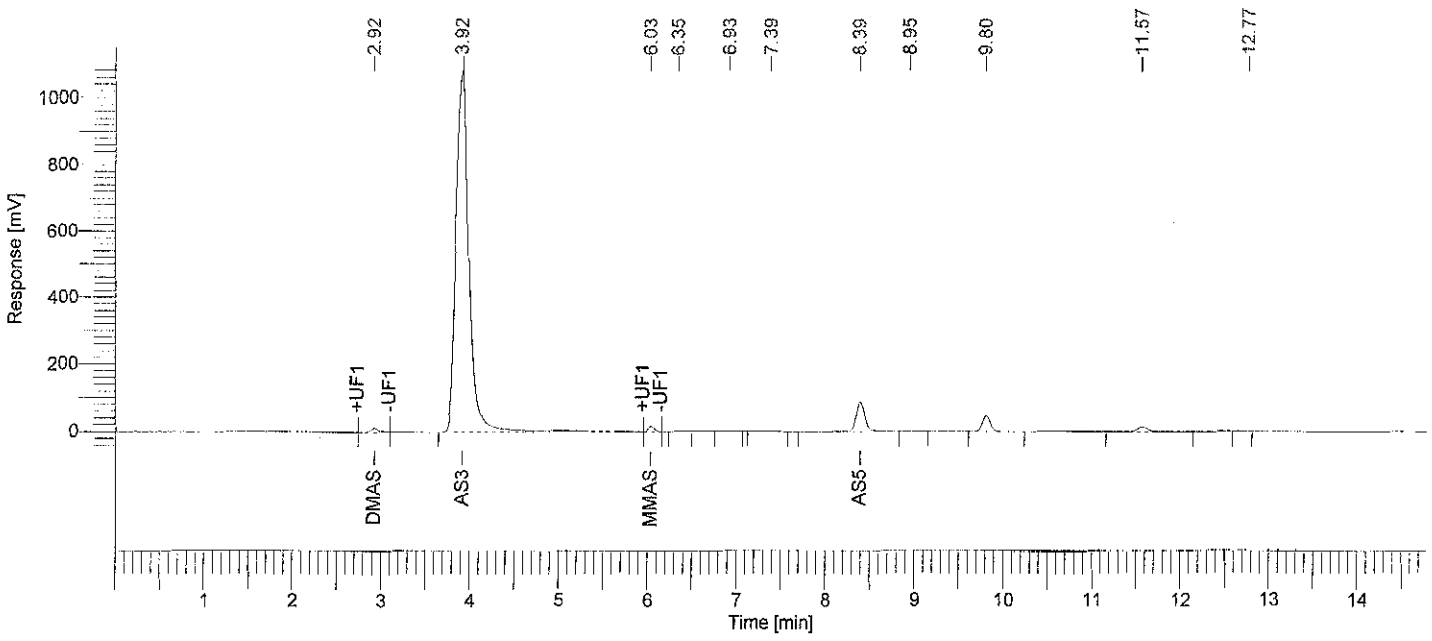
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:43 PM
Sample Name	: 6103060	Data Acquisition Time	: 10/31/2006 5:27:17 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 60		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103060-061031-094635_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.923	73535.67	13081.25	0.60	0.60	MM	0.0735	0.0735
2	As3	3.917	11028861.68	1.08e+06	89.77	89.77	BB	----------	----------
3	MMAs	6.035	75361.41	15412.57	0.61	0.61	MM	0.0754	0.0754
4		6.349	3640.17	509.38	0.03	0.03	BB	0.0036	0.0036
5		6.926	10125.29	732.70	0.08	0.08	BV	0.0101	0.0101
6		7.393	27433.49	1484.89	0.22	0.22	VB	0.0274	0.0274
7	As5	8.392	637684.37	87848.21	5.19	5.19	BB	0.6377	0.6377
8		8.951	5025.38	525.56	0.04	0.04	BB	0.0050	0.0050
9		9.804	300981.78	47390.51	2.45	2.45	BB	0.3010	0.3010
10		11.566	122621.26	14775.27	1.00	1.00	BB	0.1226	0.1226
11		12.773	803.72	126.36	0.01	0.01	BB	0.0008	0.0008
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			12286074.22	1.26e+06	100.00	100.00		1.2572	1.2572

11/9/2006 4:44:43 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103060-061031-094635_As.rst

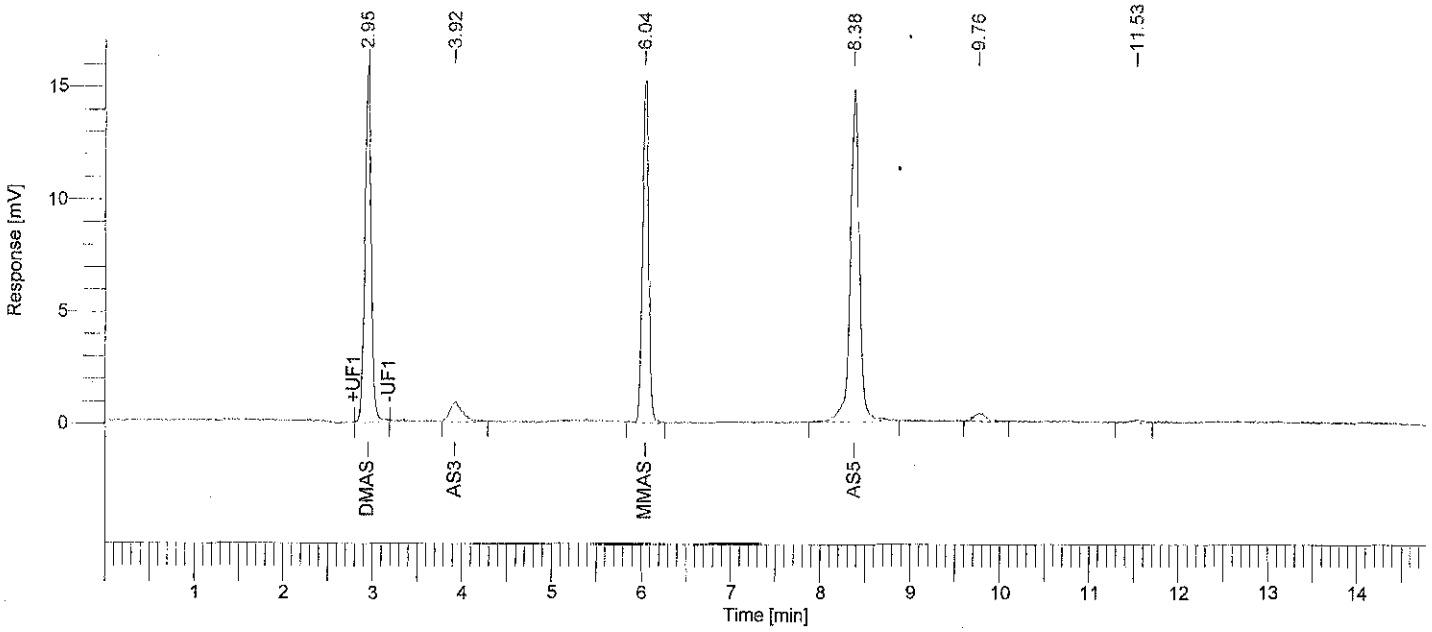
Warning -- Signal level out-of-range in peak

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:44:54 PM
Sample Name	: 6103061	Data Acquisition Time	: 10/31/2006 5:42:28 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 61		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103061-061031-094642_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

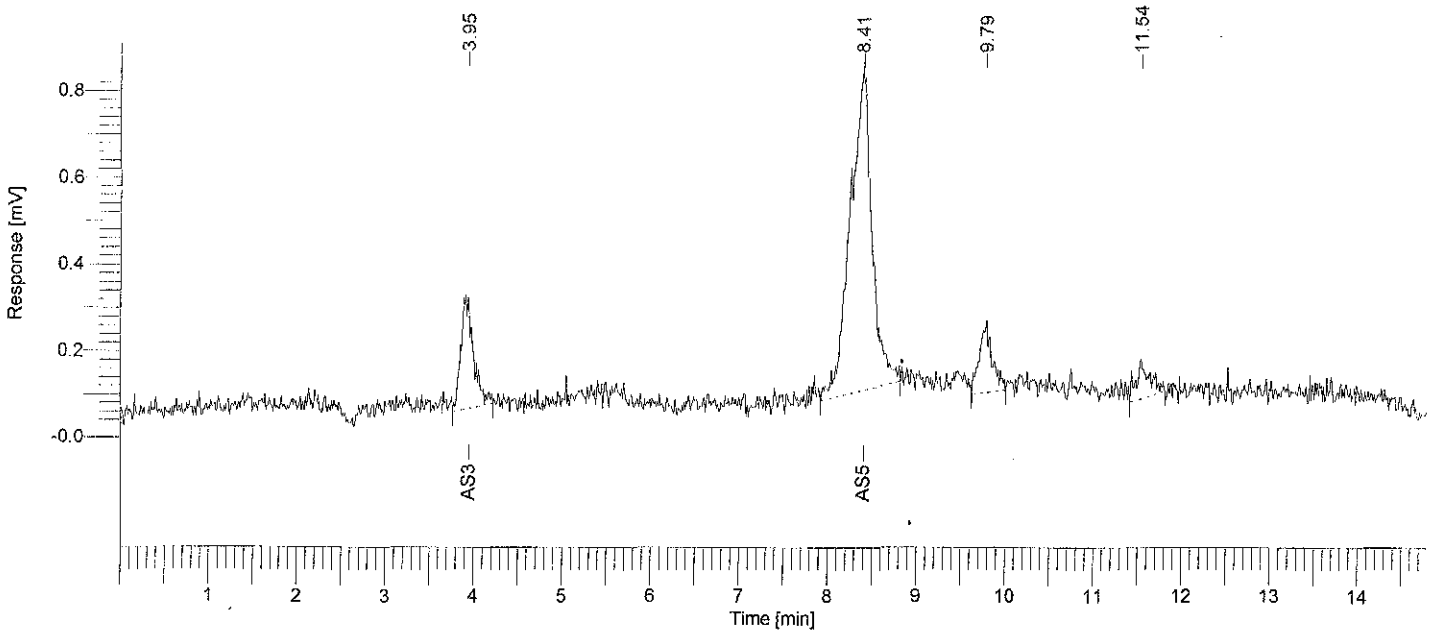
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.946	77380.74	15977.67	28.44	28.44	MM	0.0774	0.0774
2	As3	3.924	8707.44	875.48	3.20	3.20	BB	0.0087	0.0087
3	MMAs	6.041	75078.24	15484.83	27.59	27.59	BB	0.0751	0.0751
4	As5	8.381	105537.24	14615.12	38.78	38.78	BB	0.1055	0.1055
5		9.760	3775.78	396.91	1.39	1.39	BB	0.0038	0.0038
6		11.530	1630.16	135.98	0.60	0.60	BB	0.0016	0.0016
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			272109.60	47485.99	100.00	100.00		0.2721	0.2721

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:02 PM
Sample Name	: 6103062	Data Acquisition Time	: 10/31/2006 5:57:39 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 62		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103062-061031-094648_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As3	3.946	2632.68	240.42	14.68	14.68	BB	0.0026	0.0026
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
2	As5	8.407	12704.74	730.07	70.83	70.83	BB	0.0127	0.0127
3		9.789	1656.43	149.45	9.23	9.23	BB	0.0017	0.0017
4		11.544	943.59	88.32	5.26	5.26	BB	0.0009	0.0009
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			17937.44	1208.25	100.00	100.00		0.0179	0.0179

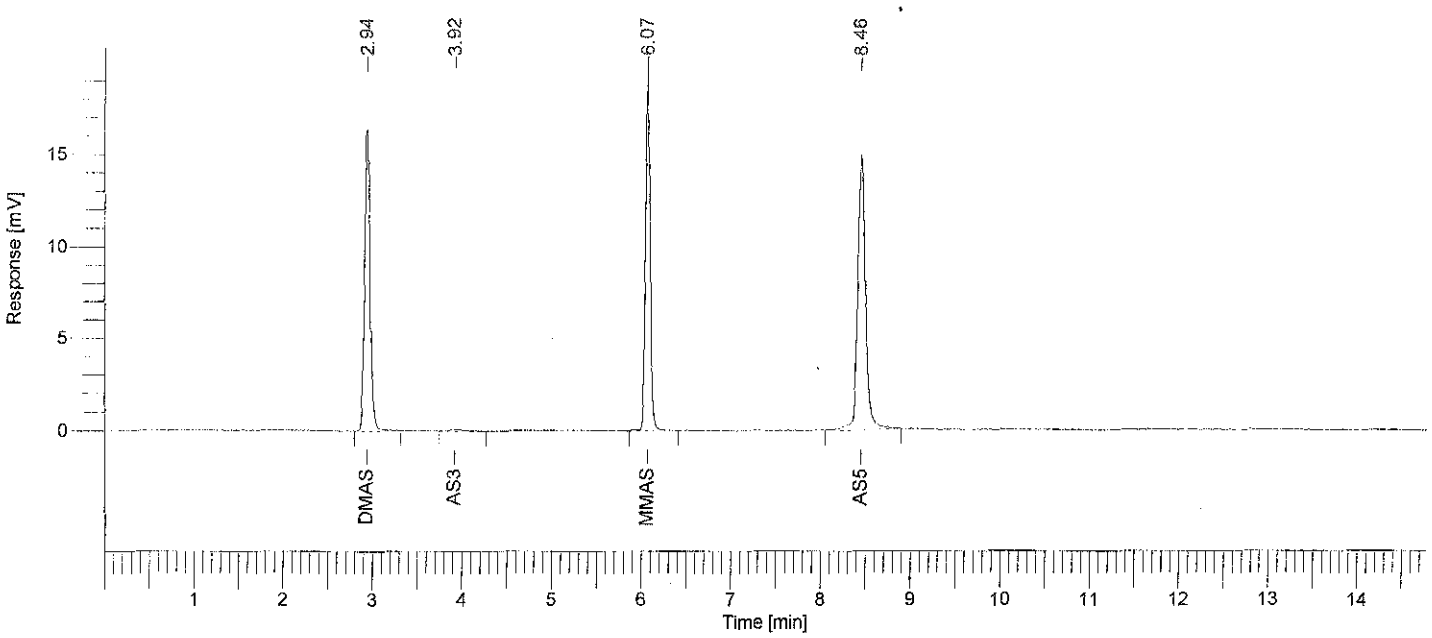
11/9/2006 4:45:02 PM Result: C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103062-061031-094648_As.rst

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
MMAs	6.156
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:18 PM
Sample Name	: 6103068	Data Acquisition Time	: 10/31/2006 10:48:08 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103068-061031-123447_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

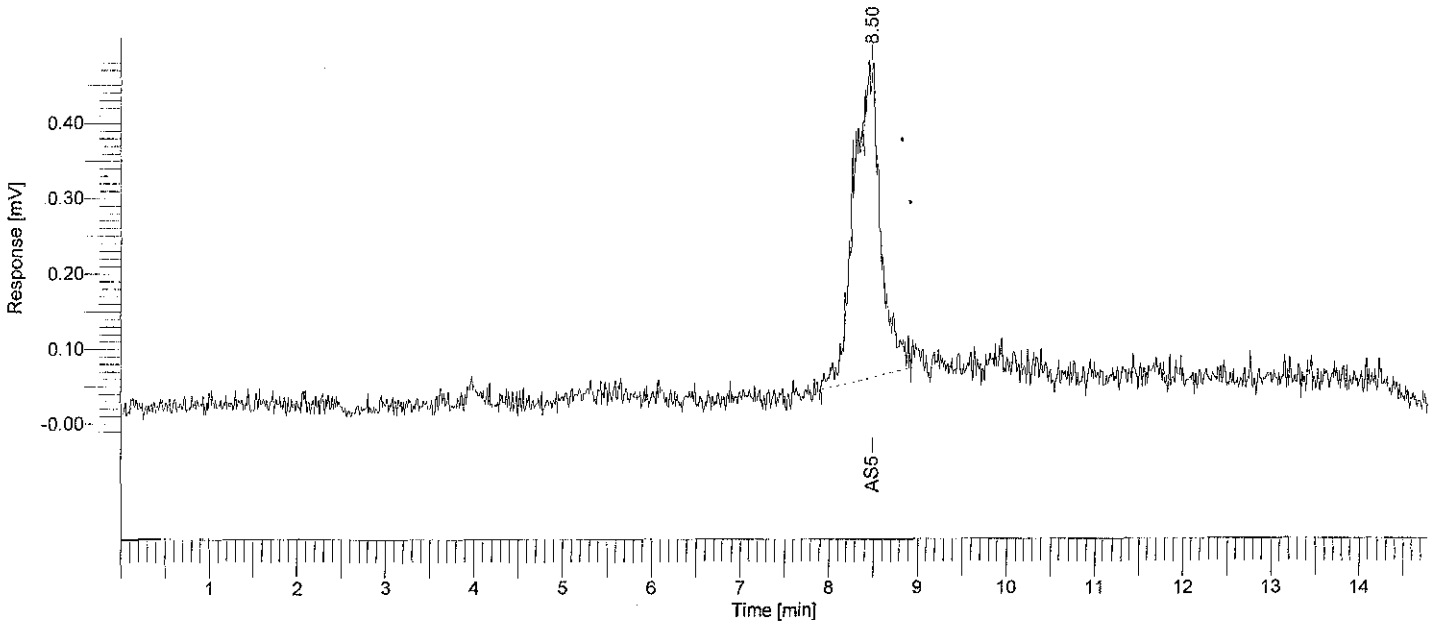
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.942	72657.14	16595.25	30.75	30.75	BB	0.0727	0.0727
2	As3	3.925	1115.41	107.78	0.47	0.47	BB	0.0011	0.0011
3	MMAs	6.072	70010.26	18478.64	29.63	29.63	BB	0.0700	0.0700
4	As5	8.457	92493.12	14814.96	39.15	39.15	BB	0.0925	0.0925
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			236275.93	49996.62	100.00	100.00		0.2363	0.2363

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:26 PM
Sample Name	: 6103069	Data Acquisition Time	: 10/31/2006 11:04:03 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103069-061031-123454_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.498	8767.08	414.42	100.00	100.00	BB	0.0088	0.0088
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			8767.08	414.42	100.00	100.00		0.0088	0.0088

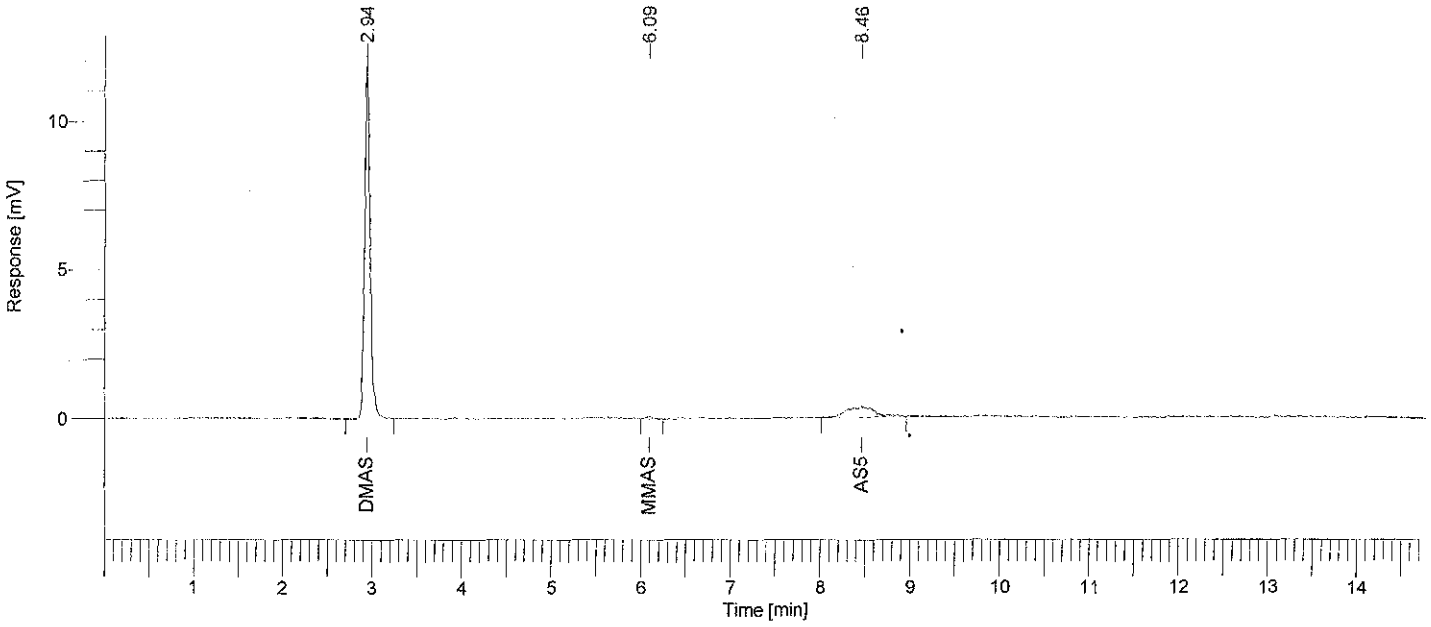
Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155

0100

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:34 PM
Sample Name	: 6103070	Data Acquisition Time	: 10/31/2006 11:19:14 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103070-061031-123501_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

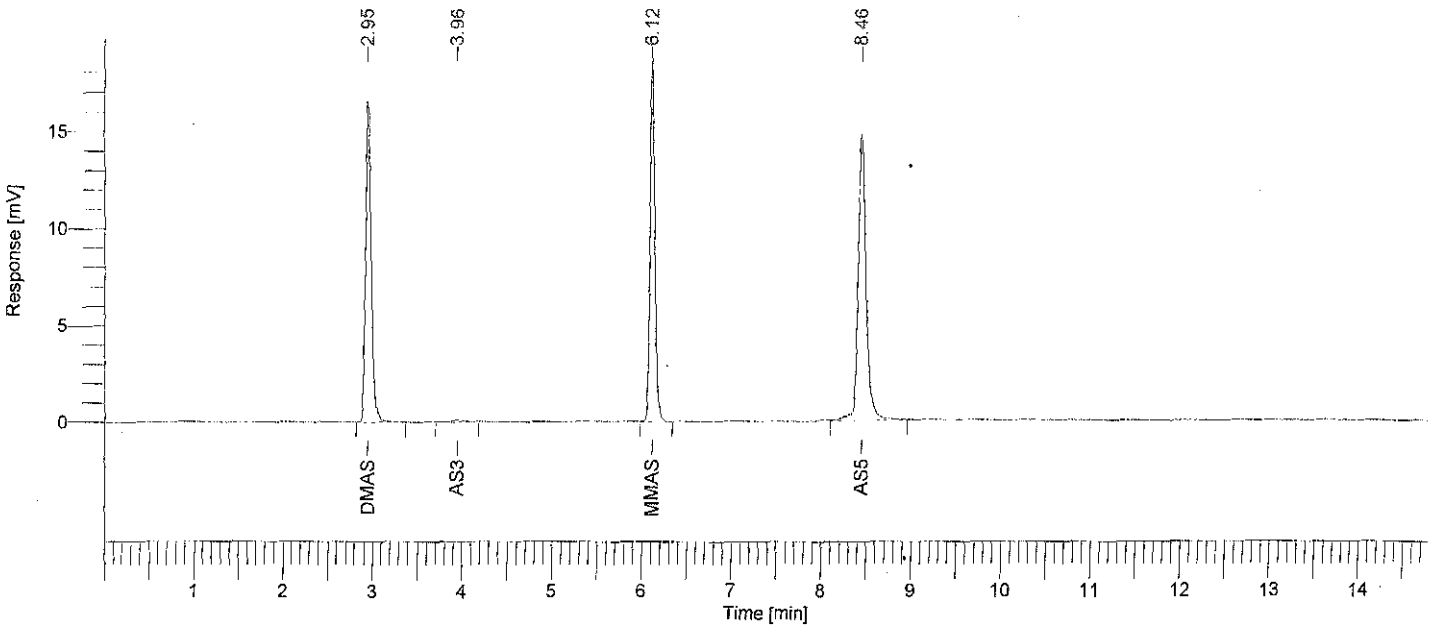
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.941	51527.54	11922.00	84.91	84.91	BB	0.0515	0.0515
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
2	MMAs	6.093	423.16	72.66	0.70	0.70	BB	0.0004	0.0004
3	As5	8.464	8731.58	366.40	14.39	14.39	BB	0.0087	0.0087
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			60682.28	12361.06	100.00	100.00		0.0607	0.0607

Missing Component Report

Component	Expected Retention (Calibration File)
As3	3.993
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:42 PM
Sample Name	: 6103071	Data Acquisition Time	: 10/31/2006 11:34:25 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103071-061031-131954_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

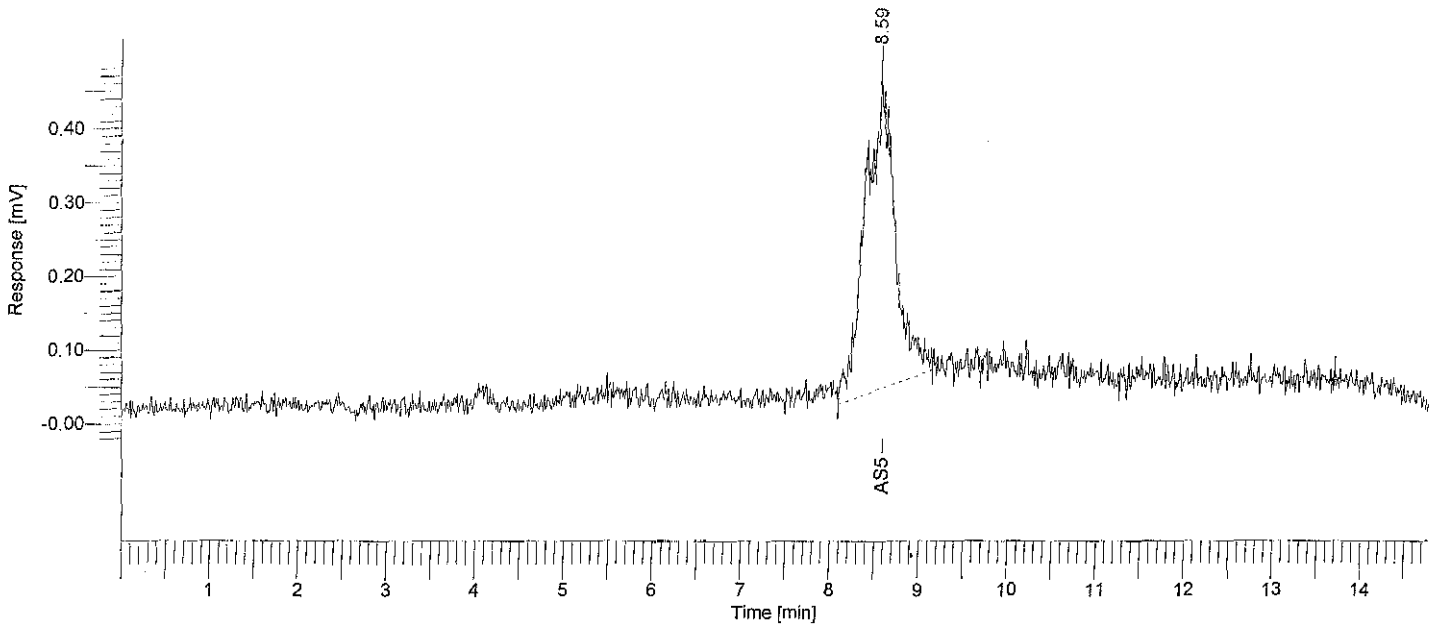
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
1	DMAs	2.952	73296.85	16603.04	30.70	30.70	BB	0.0733	0.0733
2	As3	3.955	1329.12	129.39	0.56	0.56	BB	0.0013	0.0013
3	MMAs	6.122	70720.97	18090.68	29.62	29.62	BB	0.0707	0.0707
4	As5	8.459	93385.59	14785.50	39.12	39.12	BB	0.0934	0.0934
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			238732.53	49608.61	100.00	100.00		0.2387	0.2387

Missing Component Report

Component	Expected Retention (Calibration File)
AsF6	17.155

Software Version	: 6.2.0.0.0:B27	Date	: 11/9/2006 4:45:54 PM
Sample Name	: 6103072	Data Acquisition Time	: 10/31/2006 11:49:36 AM
Instrument Name	:	Channel	: A
Rack/Vial	: 0/1	Operator	: Haican
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 2		

Result File : C:\Documents and Settings\All Users\Documents\061030-IC-As\2\6103072-061031-132001_As.rst
Sequence File : d:\My Documents\WORK\DATA\061030-IC-As\2\As_061031.seq



Arsenic Speciation Analysis

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Raw Amount	Adjusted Amount
-	DMAs	2.955	0.00	0.00	0.00	0.00		0.0000	0.0000
-	As3	3.993	0.00	0.00	0.00	0.00		0.0000	0.0000
-	MMAs	6.156	0.00	0.00	0.00	0.00		0.0000	0.0000
1	As5	8.594	9729.13	418.22	100.00	100.00	BB	0.0097	0.0097
-	AsF6	17.155	0.00	0.00	0.00	0.00		0.0000	0.0000
			9729.13	418.22	100.00	100.00		0.0097	0.0097

Missing Component Report

Component	Expected Retention (Calibration File)
DMAs	2.955
As3	3.993
MMAs	6.156
AsF6	17.155