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 JUN 8 2005

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Blasland, Bouck & Lee, Inc.
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To: Mr. Mark Mateunas
 Bureau of Hazardous Site Control
 New York State Department of
 Environmental Conservation
 625 Broadway, 12th Floor
 Albany, NY 12233-7012

Date: June 7, 2005
 File: 0260.26003 #6
 Re: McKesson Envirosystems
 Former Bear Street Site
 Syracuse, New York

We are sending you: herewith under separate cover
 drawings letters other _____

If material received is not as listed, please notify us at once.

Quantity	Identifying Number	Title	Action*
1		Validated Analytical Laboratory Reports	I

*Action letter code: R - for your review N - reviewed and noted I - for your information
 S - resubmit J - rejected Y - for your approval

Remarks:

Please find enclosed a copy of the validated analytical laboratory reports for groundwater samples collected by Blasland, Bouck & Lee, Inc. and analyzed for the chemicals of concern during the November 2004 biannual process control monitoring event at the former McKesson Bear Street Site. The reports are provided in two sample delivery groups: SDG # BEL0446 and SDG # BEL0448. These validated analytical laboratory reports are associated with the June 7, 2005 Biannual Process Control Monitoring Report submitted to New York State Department of Environmental Conservation under separate cover, covering the anaerobic bioremediation operation, maintenance, and monitoring activities conducted at the site between June 2004 through December 2004.

If you have any questions or require additional information, please do not hesitate to call me at (315) 446-2570, ext. 210.

Sincerely,

BLASLAND, BOUCK & LEE, INC.



David J. Ulm
 Senior Vice President

CWS/jlc
 Enclosure

cc: Mr. Jim Burke, P.E., New York State Department of Environmental Conservation (w/o enclosure)
 Mr. Gerald J. Rider, Jr. New York State Department of Environmental Conservation (w/o enclosure)
 Mr. Chris Mannes, New York State Department of Environmental Conservation (w/o enclosure)
 Ms. Henriette Hamel, R.S., New York State Department of Health (w/o enclosure)
 Ms. Jean A. Mescher, McKesson Corporation (w/o enclosure)
 Mr. Christopher R. Young, P.G., de maximis, inc. (w/o enclosure)

DATA REVIEW FOR
MCKESSON - BEAR STREET SITE

SDG# BEL0446

VOLATILE AND
SEMIVOLATILE ANALYSES

Analyses performed by:

Buck Environmental Laboratories
Cortland, New York

Review performed by:



Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG # BEL0446 for sampling at the McKesson - Bear Street Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis Method		
				8260 ¹	8015 ²	8270 ³
MW-9S	0411066-01	water	11/03/04	x	x	x
MW-19	0411041-03	water	11/02/04	x	x	x
MW-27 ⁴	0411082-05	water	11/04/04	x	x	x
MW-29	0411041-08	water	11/02/04	x	x	x
MW-30	0411041-06	water	11/02/04	x	x	x
MW-31	0411066-02	water	11/03/04	x	x	x
MW-32	0411066-04	water	11/03/04	x	x	x
TW-01	0411066-03	water	11/03/04	x	x	x
Trip Blank	0411041-09	water	11/02/04	x	x	
MW-1	0411066-06	water	11/03/04		x	x
MW-17R	0411041-07	water	11/02/04		x	x
MW-18	0411021-03	water	11/01/04		x	x
MW-23I	0411021-04	water	11/01/04		x	x
MW-23S	0411021-02	water	11/01/04		x	x
MW-24DR	0411041-02	water	11/02/04		x	x
MW-24SR	0411041-01	water	11/02/04		x	x
MW-25S	0411021-01	water	11/01/04		x	x
MW-33	0411066-05	water	11/03/04		x	x
PZ-5D	0411041-05	water	11/02/04		x	x
PZ-5S	0411041-04	water	11/02/04		x	x
Trip Blank	0411066-07	water	11/03/04		x	

- 1 VOC analyses for: methylene chloride, acetone, trichloroethene, benzene, toluene, ethylbenzene, and xylenes
- 2 Alcohol analyses for: methanol
- 3 compounds include: aniline and N,N'-dimethylaniline
- 4 MS/MSD analyses performed on sample

VOLATILE ANALYSES

METHOD 8260

Introduction

Analyses were performed according to USEPA method 8260 as referenced in the NYSDEC ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC test, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding time for volatile analyses under the Quality Assurance Project Plan (QAPP) is 7 days from sample receipt. The technical holding time is 14 days from sample collection to analysis.

All samples were analyzed within the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Field and rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the method or trip blanks.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies various percent relative standard deviation (%RSD) limits for select compounds and allows two outliers. A technical review of the data applies a RSD limit of 30% to all compounds with no exceptions.

The %RSD were less than 30% and the response factors were greater than 0.05 for all compounds.

4.2 Continuing Calibration

All continuing calibration standards were within 25% difference (%D) of the initial calibration.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

All internal standard areas and retention times were within established limits.

7. Compound Identification

Target compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank

Matrix and matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method relative to the sample matrix. Matrix spike blank (MSB) data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between recoveries were within control limits. All matrix spike blank recoveries were also within control limits.

9. Field Duplicates

No field duplicates were included with the samples in this data set.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	_____	X _____	_____
Is there a narrative or cover letter present?	X _____	_____	_____
Are the sample numbers included in the narrative?	_____	X _____	_____
Are the sample chain-of-custodies present?	X _____	_____	_____
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	_____	X _____	_____
<u>Holding Times</u>			
Have any holding times been exceeded?	_____	X _____	_____
<u>Surrogate Recovery</u>			
Are surrogate recovery forms present?	X _____	_____	_____
Are all the samples listed on the appropriate surrogate recovery form?	X _____	_____	_____
Was one or more surrogate recoveries outside of specified limits for any sample or blank?	_____	X _____	_____
If yes, were the samples reanalyzed?	_____	_____	X _____
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	X _____	_____	_____
Were matrix spikes analyzed at the required frequency?	X _____	_____	_____
How many spike recoveries were outside of QC limits? <u> 0 </u> out of <u> 10 </u>			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits? <u> 0 </u> out of <u> 5 </u>			
<u>Blanks</u>			
Is the method blank summary form present?	X _____	_____	_____
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X _____	_____	_____
Has a blank been analyzed at least once every twelve hours for each system used?	X _____	_____	_____
Do any method/reagent/instrument blanks have positive results?	_____	X _____	_____
Are there trip/field/rinse/equipment blanks associated with every sample?	X _____	_____	_____
Do any trip/field/rinse blanks have positive results?	_____	X _____	_____

Volatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
<u>Tuning and Mass Calibration</u>			
Are the GC/MS tuning forms present for BFB?	<u>X</u>	<u> </u>	<u> </u>
Are the bar graph spectrum and mass/charge listing provided for each BFB?	<u>X</u>	<u> </u>	<u> </u>
Has a BFB been analyzed for each twelve hours of analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
Have the ion abundance criteria been met for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Are the reconstructed ion chromatograms present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable?	<u>X</u>	<u> </u>	<u> </u>
Are the mass spectra of the identified compounds present?	<u>X</u>	<u> </u>	<u> </u>
Is the RRT of each reported compound within 0.06 RRT units of the continuing calibration standard?	<u>X</u>	<u> </u>	<u> </u>
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the samples and standard relative ion intensities agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Tentatively Identified Compounds</u>			
Are all the TIC summary forms present?	<u> </u>	<u>X</u>	<u> </u>
Are the mass spectra for the tentatively identified compounds and there associated "best match" spectra present?	<u> </u>	<u> </u>	<u>X</u>
Are any target compounds listed as TICs?	<u> </u>	<u> </u>	<u>X</u>
Are all ion present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	<u> </u>	<u> </u>	<u>X</u>

Volatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
Do the TIC and "best match" spectrum agree within 20%?	_____	_____	<u> X </u>
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	_____	<u> X </u>	_____
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	<u> X </u>	_____	_____
<u>Standard Data</u>			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	<u> X </u>	_____	_____
<u>Initial Calibration</u>			
Are the initial calibration forms present for each instrument used?	<u> X </u>	_____	_____
Are the response factor RSDs within specified limits?	<u> X </u>	_____	_____
Are the average RRF equal to or greater than minimum requirements?	<u> X </u>	_____	_____
Are there any transcription/calculation errors in reporting the RRF or RSD?	_____	<u> X </u>	_____
<u>Continuing Calibration</u>			
Are the continuing calibration forms present for each day and each instrument?	<u> X </u>	_____	_____
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	<u> X </u>	_____	_____
All %D within acceptable limits?	<u> X </u>	_____	_____
Are all RF equal to or greater than minimum requirements?	<u> X </u>	_____	_____
Are there any transcription/calculation errors in reporting of RF or %D?	_____	<u> X </u>	_____
<u>Internal Standards</u>			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	<u> X </u>	_____	_____
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u> X </u>	_____	_____
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	_____	<u> X </u>	_____

Volatile Calibration Outliers

Instrument: MSD3

Matrix: water

Level: low

Date/Time	11/12/04		11/12/04 0708							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Methylene chloride										
Acetone										
Trichloroethene										
Benzene										
Toluene										
Ethylbenzene										
m,p-xylene										
o-xylene										
Affected Samples:										

Corrected Sample Analysis Data Sheets

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-9S

Lab Name: Buck Environmental Labs, Inc Contract: BLASLAVOLab Code: 10795 Case No.: C SAS No.: _____ EDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-01BSample wt/vol: 5 (g/mL) ML Lab File ID: \1401014.DLevel: (low/med) LOW Date Received: 11/04/04% Moisture: not dec. Date Analyzed: 11/12/04GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
67-64-1	Acetone		25	U
71-43-2	Benzene		4	J
100-41-4	Ethylbenzene		9	J
75-09-2	Methylene chloride		10	U
108-88-3	Toluene		2	J
79-01-6	Trichloroethene		10	U
1330-20-7	m,p-Xylene		21	
95-47-6	o-Xylene		9	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: Buck Environmental Labs, Inc Contract: BLASLANDLab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-03BSample wt/vol: 5 (g/mL) ML Lab File ID: \1301013.DLevel: (low/med) LOW Date Received: 11/03/04% Moisture: not dec. Date Analyzed: 11/12/04GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
67-64-1	Acetone		25	U
71-43-2	Benzene		10	U
100-41-4	Ethylbenzene		10	U
75-09-2	Methylene chloride		10	U
108-88-3	Toluene		10	U
79-01-6	Trichloroethene		10	U
1330-20-7	m, p-Xylene		20	U
95-47-6	o-Xylene		10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27

Lab Name: Buck Environmental Labs, Inc Contract: BLASLANDLab Code: 10795

Case No.:

SAS No.:

SDG No.: BEL8446 ⁰⁴⁴⁶ _{BLH}Matrix: (soil/water) WATERLab Sample ID: 0411082-05BSample wt/vol: 5 (g/mL) MLLab File ID: \1801018.DLevel: (low/med) LOWDate Received: 11/05/04

% Moisture: not dec.

Date Analyzed: 11/12/04GC Column: J&W,DB624 ID: .18 (mm)Dilution Factor: 5.00

Soil Extract Volume: _____ (μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	UG/L	Q
67-64-1	Acetone		120	U
71-43-2	Benzene		50	U
100-41-4	Ethylbenzene		50	U
75-09-2	Methylene chloride		310	
108-88-3	Toluene		50	U
79-01-6	Trichloroethene		50	U
1330-20-7	m, p-Xylene		100	U
95-47-6	o-Xylene		50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-29

Lab Name: Buck Environmental Labs, Inc Contract: BLASAND

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-08B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1101011.D

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: not dec. Date Analyzed: 11/12/04

GC Column: J&W, DB624 ID: .18 (mm) Dilution Factor: 5.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
67-64-1	Acetone		120	U
71-43-2	Benzene		50	U
100-41-4	Ethylbenzene		50	U
75-09-2	Methylene chloride		50	U
108-88-3	Toluene		50	U
79-01-6	Trichloroethene		50	U
1330-20-7	m, p-Xylene		100	U
95-47-6	o-Xylene		50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-30

Lab Name: Buck Environmental Labs, Inc Contract: BLASLAND

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-06B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1201012.D

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: not dec. Date Analyzed: 11/12/04

GC Column: J&W, DB624 ID: .18 (mm) Dilution Factor: 5.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	UG/L	Q
67-64-1	Acetone		120	U
71-43-2	Benzene		50	U
100-41-4	Ethylbenzene		50	U
75-09-2	Methylene chloride		50	U
108-88-3	Toluene		50	U
79-01-6	Trichloroethene		50	U
1330-20-7	m, p-Xylene		100	U
95-47-6	o-Xylene		50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-31

Lab Name: Buck Environmental Labs, Inc Contract: BLASLAND

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411066-02B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1501015.D

Level: (low/med) LOW Date Received: 11/04/04

% Moisture: not dec. Date Analyzed: 11/12/04

GC Column: J&W, DB624 ID: .18 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
67-64-1	Acetone		25	U
71-43-2	Benzene		9	J
100-41-4	Ethylbenzene		10	U
75-09-2	Methylene chloride		10	U
108-88-3	Toluene		10	U
79-01-6	Trichloroethene		10	U
1330-20-7	m,p-Xylene		20	U
95-47-6	o-Xylene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-32

Lab Name: Buck Environmental Labs, Inc Contract: BLASLAWLab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-04BSample wt/vol: 5 (g/mL) ML Lab File ID: \1701017.DLevel: (low/med) LOW Date Received: 11/04/04% Moisture: not dec. Date Analyzed: 11/12/04GC Column: J&W, DB624 ID: .18 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	UG/L	Q
67-64-1	Acetone		25	U
71-43-2	Benzene		10	U
100-41-4	Ethylbenzene		10	U
75-09-2	Methylene chloride		10	U
108-88-3	Toluene		10	U
79-01-6	Trichloroethene		10	U
1330-20-7	m,p-Xylene		20	U
95-47-6	o-Xylene		10	U

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TW-01

Lab Name: Buck Environmental Labs, Inc Contract: BLASLANDLab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-03BSample wt/vol: 5 (g/mL) ML Lab File ID: \1601016.DLevel: (low/med) LOW Date Received: 11/04/04% Moisture: not dec. Date Analyzed: 11/12/04GC Column: J&W, DB624 ID: .18 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
67-64-1	Acetone		25	U
71-43-2	Benzene		2	J
100-41-4	Ethylbenzene		10	U
75-09-2	Methylene chloride		10	U
108-88-3	Toluene		10	U
79-01-6	Trichloroethene		10	U
1330-20-7	m, p-Xylene		20	U
95-47-6	o-Xylene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: Buck Environmental Labs, Inc Contract: BLASLANDLab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-09ASample wt/vol: 5 (g/mL) ML Lab File ID: \1001010.DLevel: (low/med) LOW Date Received: 11/03/04% Moisture: not dec. Date Analyzed: 11/12/04GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
67-64-1	Acetone		25	U
71-43-2	Benzene		10	U
100-41-4	Ethylbenzene		10	U
75-09-2	Methylene chloride		10	U
108-88-3	Toluene		10	U
79-01-6	Trichloroethene		10	U
1330-20-7	m,p-Xylene		20	U
95-47-6	o-Xylene		10	U

VOLATILE ANALYSES

METHOD 8015

Introduction

Analyses were performed according to USEPA method 8015 as referenced in the NYSDEC ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC test, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding time for volatile analyses under the Quality Assurance Project Plan (QAPP) is 7 days from sample receipt. The technical holding time is 14 days from sample collection to analysis.

All samples were analyzed within the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment.

No target compounds were detected in the method or trip blanks.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies a percent relative standard deviation (%RSD) limit of 20% or, alternately, a correlation coefficient of 0.99 or greater.

The initial calibration was acceptable.

3.2 Continuing Calibration

All continuing calibration standards were within 15%D of the initial calibration.

4. Compound Identification

Target compounds are identified by using the analyte's retention time.

All identified compounds met the specified criteria.

5. Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank

Matrix and matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method relative to the sample matrix.

Matrix spike blank (MSB) data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All MS/MSD recoveries and the relative percent difference between recoveries were within control limits. All MSB recoveries were within control limits.

6. Field Duplicates

No field duplicates were included with the samples in this data set.

7. System Performance and Overall Assessment

Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checklist

Organic Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	_____	X _____	_____
Is there a narrative or cover letter present?	X _____	_____	_____
Are the sample numbers included in the narrative?	X _____	_____	_____
Are the sample chain-of-custodies present?	X _____	_____	_____
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	_____	X _____	_____
<u>Holding Times</u>			
Have any holding times been exceeded?	_____	X _____	_____
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	X _____	_____	_____
Were matrix spikes analyzed at the required frequency?	X _____	_____	_____
How many spike recoveries were outside of QC limits? <u> 0 </u> out of <u> 2 </u>			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits? <u> 0 </u> out of <u> 1 </u>			
<u>Blanks</u>			
Is the method blank summary form present?	X _____	_____	_____
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X _____	_____	_____
Has a blank been analyzed at least once every twelve hours for each system used?	X _____	_____	_____
Do any method/reagent/instrument blanks have positive results?	_____	X _____	_____
Are there trip/field/rinse/equipment blanks associated with every sample?	X _____	_____	_____
Do any trip/field/rinse blanks have positive results?	_____	X _____	_____
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	X _____	_____	_____
Matrix spikes	X _____	_____	_____
Blanks	X _____	_____	_____

Organic Data Validation Checklist - Page 2

	YES	NO	NA
Are the chromatograms present for each of the following:			
Samples	<u> X </u>	<u> </u>	<u> </u>
Matrix spikes	<u> X </u>	<u> </u>	<u> </u>
Blanks	<u> X </u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable?	<u> X </u>	<u> </u>	<u> </u>
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u> </u>	<u> X </u>	<u> </u>
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	<u> X </u>	<u> </u>	<u> </u>
<u>Standard Data</u>			
Are the quantitation reports and chromatograms present for the initial and continuing calibration standards?	<u> X </u>	<u> </u>	<u> </u>
<u>Initial Calibration</u>			
Are the initial calibration forms present for each instrument used?	<u> X </u>	<u> </u>	<u> </u>
Are the response factor RSDs or correlation coefficients within acceptable limits?	<u> X </u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting the RRF or RSD?	<u> </u>	<u> X </u>	<u> </u>
<u>Continuing Calibration</u>			
Are the continuing calibration forms present for each day and each instrument?	<u> X </u>	<u> </u>	<u> </u>
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	<u> X </u>	<u> </u>	<u> </u>
All %D within acceptable limits?	<u> X </u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting of RF or %D?	<u> </u>	<u> X </u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u> </u>	<u> X </u>	<u> </u>

Corrected Sample Analysis Data Sheets

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-1

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411095-06CSample wt/vol: 5 (g/mL) uL Lab File ID: 1801018.DLevel: (low/med) LOW Date Received: 11/04/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-01CSample wt/vol: 5 (g/mL) uL Lab File ID: 1301013.DLevel: (low/med) LOW Date Received: 11/04/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17R

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BE10446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-07C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 3001030.D

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/L	Q
67-56-1	Methanol		0.20	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-18

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: Blasland SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411021-03BSample wt/vol: 5 (g/mL) uL Lab File ID: 1101011.DLevel: (low/med) LOW Date Received: 11/02/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/L	Q
67-56-1	Methanol		1	0

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-03CSample wt/vol: 5 (g/mL) uL Lab File ID: 2601026.DLevel: (low/med) LOW Date Received: 11/03/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23I

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: Blasland SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411021-04B

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1201012.D

Level: (low/med) LOW Date Received: 11/02/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23S

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: Blasland SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411021-02B

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1001010.D

Level: (low/med) LOW Date Received: 11/02/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-24DR

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-02CSample wt/vol: 5 (g/mL) uL Lab File ID: 2501025.DLevel: (low/med) LOW Date Received: 11/03/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24SR

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-01C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 2401024.D

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-25S

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: Blasland SAS No.: _____ SDG No.: REL0446Matrix: (soil/water) WATER Lab Sample ID: 0411021-01BSample wt/vol: 5 (g/mL) uL Lab File ID: 0901009.DLevel: (low/med) LOW Date Received: 11/02/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0445Matrix: (soil/water) WATER Lab Sample ID: 0411082-05CSample wt/vol: 5 (g/mL) uL Lab File ID: 4001040.DLevel: (low/med) LOW Date Received: 11/05/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-29

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-08C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 3101031.D

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		0.42	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-30

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-06C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 2901029.D

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/L	Q
67-56-1	Methanol	i	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-31

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411066-02C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1401014.D

Level: (low/med) LOW Date Received: 11/04/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-32

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BE10416

Matrix: (soil/water) WATER Lab Sample ID: 0411066-04C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1601016.D

Level: (low/med) LOW Date Received: 11/04/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-33

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BE10442

Matrix: (soil/water) WATER Lab Sample ID: 0411066-05C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1701017.D

Level: (low/med) LOW Date Received: 11/04/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/L	Q
67-56-1	Methanol		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PZ-5D

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BE10446Matrix: (soil/water) WATER Lab Sample ID: 0411041-05CSample wt/vol: 5 (g/mL) uL Lab File ID: 2801028.DLevel: (low/med) LOW Date Received: 11/03/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PZ-5S

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-04C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 2701027.D

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-09BSample wt/vol: 5 (g/mL) uL Lab File ID: 3201032.DLevel: (low/med) LOW Date Received: 11/03/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/L	Q
67-56-1	Methanol		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: Buck Environmental Labs, Inc Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-07BSample wt/vol: 5 (g/mL) uL Lab File ID: 2301023.DLevel: (low/med) LOW Date Received: 11/04/04% Moisture: not dec. Date Analyzed: 11/10/04GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-01

Lab Name: Buck Environmental Labs, Inc Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411066-03C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1501015.D

Level: (low/med) LOW Date Received: 11/04/04

% Moisture: not dec. Date Analyzed: 11/10/04

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

SEMIVOLATILE ANALYSES

METHOD 8270

Introduction

Analyses were performed according to USEPA SW-846 Method 8270 as referenced in NYSDEC ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC test, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for semi-volatile analyses under the Quality Assurance Project Plan (QAPP) are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the method blanks.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies various percent relative standard deviation (%RSD) limits for select compounds and allows two outliers. A technical review of the data applies a RSD limit of 30% to all compounds with no exceptions.

The %RSD was less than 30% for all compounds.

4.2 Continuing Calibration

All continuing calibration standards were within 25% difference (%D) of the initial calibration.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Surrogate recoveries were below control limits for one compound in samples MW-19, MW-18, MW-23I, MW-33DL and MW-27DL. Since all other surrogate recoveries were within control limits, no data have been qualified based on the deviations.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

All internal standard areas and retention times were within established limits.

7. Compound Identification

Target compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

Aniline was detected above the linear range in samples MW-27 and MW-33. Data for aniline have been replaced with data from the dilution analyses in the listed samples. All other identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank

Matrix and matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method relative to the sample matrix. Matrix spike blank (MSB) data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries were above control limits for aniline. Data for aniline have been qualified as estimated in sample MW-27 based on the deviation.

The MSB were within control limits.

9. Field Duplicates

No field duplicates were included with the samples in this data set.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checklist

Semivolatile Organics Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	_____	_____X_____	_____
Is there a narrative or cover letter present?	_____X_____	_____	_____
Are the sample numbers included in the narrative?	_____X_____	_____	_____
Are the sample chain-of-custodies present?	_____X_____	_____	_____
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	_____	_____X_____	_____
<u>Holding Times</u>			
Have any holding times been exceeded?	_____	_____X_____	_____
<u>Surrogate Recovery</u>			
Are the surrogate recovery forms present?	_____X_____	_____	_____
Are all the samples listed on the appropriate surrogate recovery form?	_____X_____	_____	_____
Were two or more surrogate recoveries outside of specified limits for any sample or blank?	_____	_____X_____	_____
If yes, were the samples reanalyzed?	_____	_____	_____X_____
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	_____X_____	_____	_____
Were matrix spikes analyzed at the required frequency	_____X_____	_____	_____
How many spike recoveries were outside of QC limits? <u> 2 </u> out of <u> 4 </u>			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits? <u> 1 </u> out of <u> 2 </u>			
<u>Blanks</u>			
Is the method blank summary form present?	_____X_____	_____	_____
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	_____X_____	_____	_____
Has a blank been analyzed for each GC/MS system used?	_____X_____	_____	_____
Do any method/reagent/instrument blanks have positive results?	_____	_____X_____	_____
Are there field/rinse/equipment blanks associated with every sample?	_____	_____X_____	_____

Semivolatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse blanks have positive results?	_____	_____	<u> X </u>
<u>Tuning and Mass Calibration</u>			
Are the GC/MS tuning forms present for DFTPP?	<u> X </u>	_____	_____
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	<u> X </u>	_____	_____
Has a DFTPP been analyzed for each twelve hours of analysis per instrument?	<u> X </u>	_____	_____
Have the ion abundance criteria been met for each instrument used?	<u> X </u>	_____	_____
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	<u> X </u>	_____	_____
Matrix spikes	<u> X </u>	_____	_____
Blanks	<u> X </u>	_____	_____
Has GPC cleanup been performed on all soil/sediment sample extracts?	_____	_____	<u> X </u>
Are the reconstructed ion chromatograms present for each of the following:			
Samples	<u> X </u>	_____	_____
Matrix spikes	<u> X </u>	_____	_____
Blanks	<u> X </u>	_____	_____
Is the chromatographic performance acceptable?	<u> X </u>	_____	_____
Are the mass spectra of the identified compounds present?	<u> X </u>	_____	_____
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	<u> X </u>	_____	_____
Do the samples and standard relative ion intensities agree within 20%?	<u> X </u>	_____	_____
<u>Tentatively Identified Compounds</u>			
Are all the TIC summary forms present?	_____	<u> X </u>	_____
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	_____	_____	<u> X </u>
Are any target compounds listed as TICs?	_____	_____	<u> X </u>

Semivolatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	_____	_____	X
Do the TIC and "best match" spectrum agree within 20%?	_____	_____	X
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	_____	X	_____
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X	_____	_____
<u>Standard Data</u>			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X	_____	_____
<u>Initial Calibration</u>			
Are the initial calibration forms present for each instrument used?	X	_____	_____
Are the response factor RSDs within acceptable limits?	X	_____	_____
Are the average RRF equal to or greater than minimum requirements?	X	_____	_____
Are there any transcription/calculation errors in reporting the RRF or RSD?	_____	X	_____
<u>Continuing Calibration</u>			
Are the continuing calibration forms present for each day and each instrument?	X	_____	_____
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	X	_____	_____
All %D within acceptable limits?	X	_____	_____
Are all RF equal to or greater than minimum requirements?	X	_____	_____
Are there any transcription/calculation errors in reporting of RF or %D?	_____	X	_____
<u>Internal Standards</u>			
Are internal standard areas of the samples and blanks within the upper and lower limits for each continuing calibration?	X	_____	_____
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X	_____	_____

Semivolatile Organics Data Validation Checklist - Page 4

YES NO NA

Field Duplicates

Were field duplicates submitted with the samples? _____ X _____

Semi-Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*				Internal Standards*					
		NBZ	FBP	TPH	DCB	DCB	NPT	ANT	PHN	CRY	PRY
MW-9S											
MW-19				↓							
MW-27											
MW-27 MS											
MW-27 MSD											
MW-27DL				↓							
MW-29											
MW-30											
MW-31											
MW-32											
TW-01											
MW-1											
MW-17R											
MW-18				↓							
MW-23I				↓							
MW-23S											
MW-24DR											
MW-24SR											
MW-25S											
MW-33											
MW-33DL			D								
PZ-5D											
PZ-5S											

Surrogates:

NBZ Nitrobenzene-d5
 FBP 2-Fluorobiphenyl
 TPH Terphenyl-d14
 DCB 1,2-Dichlorobenzene-d4

Internal Standards:

DCB 1,4-Dichlorobenzene-d4
 NPT Naphthalene-d8
 ANT Acenaphthene-d10
 PHN Phenanthrene-d10
 CRY Chrysene-d12
 PRY Perylene-d12

Qualifiers:

D Diluted
 ↓ Recovery low
 † Recovery high
 †† Recovery below 10%

* Unless otherwise specified, all parameters are within acceptable limits.

Semivolatile Calibration Outliers

Instrument: MSD2
 Level: low

Date/Time	12/07/04		12/8/04 0403		12/8/04 1633		12/9/04 0625			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
aniline										
n,n'-dimethylaniline										
Affected Samples:										

Corrected Sample Analysis Data Sheets

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-25S

Lab Name: Buck Environmental Labs, In Contract: Blasland

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411021-01C

Sample wt/vol: 950 (g/mL) ML Lab File ID: 4\0201002.

Level: (low/med) LOW Date Received: 11/02/04

% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)

BW

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23S

Lab Name: Buck Environmental Labs, In Contract: BlaslandLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411021-020Sample wt/vol: 960 (g/mL) ML Lab File ID: 4\0301003.Level: (low/med) LOW Date Received: 11/02/04% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type) EW

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: Buck Environmental Labs, In Contract: Blasland

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0446
 Matrix: (soil/water) WATER Lab Sample ID: 0411021-03C
 Sample wt/vol: 950 (g/mL) ML Lab File ID: 4\0401004.
 Level: (low/med) LOW Date Received: 11/02/04
 % Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04
 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04
 Injection Volume: 1 (µL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) N pH: 6
 Extraction: (Type) BUH

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
62-53-3	Aniline	5	U
121-69-7	N,N-Dimethylaniline	5	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: Buck Environmental Labs, In Contract: BlaslandLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411021-03CSample wt/vol: 950 (g/mL) ML Lab File ID: 4\A0301003Level: (low/med) LOW Date Received: 11/02/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)BU

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-23I

Lab Name: Buck Environmental Labs, In Contract: BlaslandLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411021-04CSample wt/vol: 975 (g/mL) ML Lab File ID: 4\0501005.Level: (low/med) LOW Date Received: 11/02/04% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)BLH

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
62-53-3	Aniline	5	U
121-69-7	N,N-Dimethylaniline	5	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23I

Lab Name: Buck Environmental Labs, In Contract: BlaslandLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411021-04CSample wt/vol: 975 (g/mL) ML Lab File ID: 4\A0401004Level: (low/med) LOW Date Received: 11/02/04% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)BV

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L Q

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24SR

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-01ASample wt/vol: 1000 (g/mL) ML Lab File ID: 4\A1101011Level: (low/med) LOW Date Received: 11/03/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/07/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type) Bla

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24DR

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-02ASample wt/vol: 980 (g/mL) ML Lab File ID: 4\A1201012Level: (low/med) LOW Date Received: 11/03/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/07/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)Butt

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-03A

Sample wt/vol: 940 (g/mL) ML Lab File ID: 4\A1301013

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/07/04

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)

BW

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	5	U
121-69-7	N,N-Dimethylaniline	5	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-03ASample wt/vol: 940 (g/mL) ML Lab File ID: 4\A0201002Level: (low/med) LOW Date Received: 11/03/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)BH

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline		5	U
121-69-7	N,N-Dimethylaniline		5	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

PZ-5S

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-04A

Sample wt/vol: 915 (g/mL) ML Lab File ID: 4\A1401014

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/07/04

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)

Both

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

PZ-5D

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411041-05A

Sample wt/vol: 985 (g/mL) ML Lab File ID: 4\A1501015

Level: (low/med) LOW Date Received: 11/03/04

% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6
BH Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-30

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-06ASample wt/vol: 1000 (g/mL) ML Lab File ID: 4\A1601016Level: (low/med) LOW Date Received: 11/03/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)BVA

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17R

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-07ASample wt/vol: 955 (g/mL) ML Lab File ID: 4\A1701017Level: (low/med) LOW Date Received: 11/03/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)Full

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-29

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411041-08ASample wt/vol: 940 (g/mL) ML Lab File ID: 4\A1801018Level: (low/med) LOW Date Received: 11/03/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)but

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411066-01A

Sample wt/vol: 990 (g/mL) ML Lab File ID: 4\0601006.

Level: (low/med) LOW Date Received: 11/04/04

% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)

BWA

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
62-53-3	Aniline	5	U
121-69-7	N,N-Dimethylaniline	5	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-31

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-02ASample wt/vol: 985 (g/mL) ML Lab File ID: 4\0701007.Level: (low/med) LOW Date Received: 11/04/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)ELH

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-01

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-03ASample wt/vol: 965 (g/mL) ML Lab File ID: 4\0801008.Level: (low/med) LOW Date Received: 11/04/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)EW

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-32

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-04ASample wt/vol: 990 (g/mL) ML Lab File ID: 4\0901009Level: (low/med) LOW Date Received: 11/04/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)But

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-33

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-05ASample wt/vol: 950 (g/mL) ML Lab File ID: 4\1001010.Level: (low/med) LOW Date Received: 11/04/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)BLK

CONCENTRATION UNITS:

CAS NO. COMPOUND (µg/L or µg/Kg) UG/L Q

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	2500 2700	ED
121-69-7	N,N-Dimethylaniline	5	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-33DL

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411065-05A

Sample wt/vol: 950 (g/mL) ML Lab File ID: 4\A0501005

Level: (low/med) LOW Date Received: 11/04/04

% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04

Injection Volume: 1 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)

BW

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L Q

CAS NO.	COMPOUND	(µg/L or µg/Kg)	<u>UG/L</u>	<u>Q</u>
62-53-3	Aniline	2700		
121-69-7	N,N-Dimethylaniline	100		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411066-06ASample wt/vol: 955 (g/mL) ML Lab File ID: 4\1101011.Level: (low/med) LOW Date Received: 11/04/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/05/04Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/08/04Injection Volume: 1 (uL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 6
But Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
62-53-3	Aniline	5		U
121-69-7	N,N-Dimethylaniline	5		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446

Matrix: (soil/water) WATER Lab Sample ID: 0411082-05A

Sample wt/vol: 980 (g/mL) ML Lab File ID: 4\A1101011

Level: (low/med) LOW Date Received: 11/05/04

% Moisture: Decanted: (Y/N) N Date Extracted: 11/08/04

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/08/04

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)

BU

CONCENTRATION UNITS:

CAS NO. COMPOUND (µg/L or µg/Kg) UG/L Q

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	820 1100		EDJ
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27DL

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0446Matrix: (soil/water) WATER Lab Sample ID: 0411082-05ASample wt/vol: 980 (g/mL) ML Lab File ID: 4\1101011Level: (low/med) LOW Date Received: 11/05/04% Moisture: Decanted: (Y/N) N Date Extracted: 11/08/04Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/09/04Injection Volume: 1 (µL) Dilution Factor: 10.00GPC Cleanup: (Y/N) N pH: 6 Extraction: (Type)But

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L Q

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	1100		
121-69-7	N,N-Dimethylaniline	51		U

Chain of Custody



ID#: 2496

506 BCL0440

0411041

0411042

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #

Contact & Company Name: White BBL, Telephone: (315) 446-9053, Address: 723 Towpath Rd., Syracuse NY 13214, Project #: 260.02.190, Samples Signature: Joseph Lisi

Table with 8 columns (E, B, E, C, E, E, F) and 3 rows (Preservative, Filtered, # of Containers, Container Information)

Keys: Preservation Key, Container Information Key, Matrix Key

PARAMETER ANALYSIS & METHOD

Main analysis table with columns for parameters (SVOCS, VOCs, Alcohols, etc.) and rows for samples (W-24SR, W-24DR, etc.)

REMARKS

Instructions/Comments: Special QA/QC Instructions (✓):

Laboratory Information and Receipt section with fields for Relinquished By, Received By, and Laboratory Received By



ID#: 2494

SDG BEL0448

0411082

0411083

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 2

Lab Work Order #

Contact & Company Name: White BBL
 Telephone: (315) 446-9120
 Address: 223 Townpath Rd.
 City/State: Syracuse NY 13214
 Project #: 26003190
 Sampler's Signature: [Signature]

Preservative	E	B	E	C	C	E	F
Filtered (✓)					✓		
# of Containers	2	3	3	1	1	1	1

Keys

Preservation Key:
 A. H₂SO₄
 B. HCL
 C. HNO₃
 D. NaOH
 E. None
 F. Other: ZnAc
 G. Other: _____
 H. Other: _____

Container Information Key:
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz Glass
 7. 4 oz Glass
 8. 8 oz Glass
 9. Other: _____
 10. Other: _____

Matrix Key:
 SO - Soil SE - Sediment NL - NAPL/OIL
 W - Water SL - Sludge SW - Sample W/pe
 T - Tissue A - Air Other: _____

PARAMETER ANALYSIS & METHOD

SUOCs	VOCs	Alcohols	TOTAL METALS	LEAD METALS	DISSOLVED METALS	FE METALS	TOTAL METALS - Phosphate	Sulfide
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Sample ID	Collection		Type (✓)		Matrix	PARAMETER ANALYSIS & METHOD								REMARKS
	Date	Time	Comp	Grab		SUOCs	VOCs	Alcohols	TOTAL METALS	LEAD METALS	DISSOLVED METALS	FE METALS	TOTAL METALS - Phosphate	
W-02RR	11/4/04	855		X	W	X	X	X	X	X	X	X	X	
MW-34	11/4/04	1030		X	W	X	X	X	X	X	X	X	X	
MW-35	11/4/04	1030	X	W	W	X	X	X	X	X	X	X	X	
MW-36	11/4/04	1145	X	W	W	X	X	X	X	X	X	X	X	
MW-27	11/4/04	1500	X	W	W	X	X	X	X	X	X	X	X	
MW-27 MS	11/4/04	1500	X	W	W	X	X	X						
MW-27 MSD	11/4/04	1500	X	W	W	X	X	X						
MW-28	11/4/04	1505	X	W	W	X	X	X	X	X	X	X	X	
MW-28 MS	11/4/04	1505	X	W	W	X	X	X						
MW-28 MSD	11/4/04	1505	X	W	W	X	X	X						
DUP-1	11/4/04	-	X	W	W	X	X	X						
DUP-2	11/4/04	-	X	W	W	X	X	X						
TREP BLANK	11/4/04	-		W	W	X	X	X						

Instructions/Comments: Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Cooler Custody Seal (✓):	<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <u>Joseph Lisi</u>	Printed Name:	Printed Name:	Printed Name: <u>Annalisa Davis</u>
Sample packed with ice (✓)		Signature: <u>[Signature]</u>	Signature:	Signature:	Signature: <u>[Signature]</u>
Surrounding Requirements:	Sample Receipt:	Firm: <u>BBL</u>	Firm/Courier:	Firm/Courier:	Firm: <u>Buck Labs</u>
Tracking #:	Condition/Cooler Temp:	Date/Time:	Date/Time:	Date/Time:	Date/Time: