

DATA REVIEW FOR
MCKESSON - BEAR STREET SITE

SDG# BEL0331

VOLATILE AND
SEMIVOLATILE ANALYSES

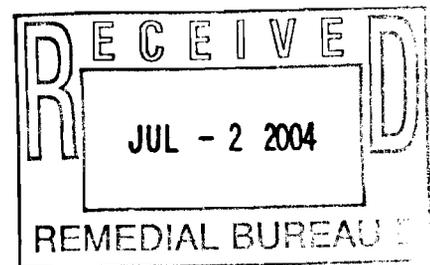
Analyses performed by:

Buck Environmental Laboratories, Inc.
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 # BEL0331 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-27	0310292-01B	water	10/30/03	x	x	x
MW-31	0310292-02B	water	10/30/03	x	x	x
MW-28	0310292-03B	water	10/30/03	x	x	x
MW-29	0310292-04B	water	10/30/03	x	x	x
MW-30	0310292-08B	water	10/30/03	x	x	x
DUP-2	0310292-09B	water	10/30/03	x	x	x
TB-3	0310292-10B	water	10/30/03	x	x	
MW-8S*	0310292-05B	water	10/30/03	x	x	x
MW-19	0310297-01B	water	10/31/03	x	x	x
MW-18	0310297-02B	water	10/31/03	x	x	x
MW-24DR	0310297-03B	water	10/31/03	x	x	x
MW-23I	0310297-04B	water	10/31/03	x	x	x
MW-24SR	0310297-05B	water	10/31/03	x	x	x
MW-23S	0310297-06B	water	10/31/03	x	x	x
PZ5S	0310297-07B	water	10/31/03	x	x	x
PZ5D	0310297-09B	water	10/31/03	x	x	x
TB-4	0310297-09A	water	10/31/03	x	x	
MW-25S	0311022-01B	water	11/4/03	x	x	x
MW-17R	0311022-02B	water	11/4/03	x	x	x
TB-5	0311022-02B	water	11/4/03	x	x	

- 1 compounds include: methylene chloride, acetone, trichloroethene, benzene, toluene, ethylbenzene, and xylenes
- 2 compounds include: 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 technical 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 compounds were detected in the method blanks. Acetone was, however, detected in two of the trip blanks. Based on the blank content, data for acetone have been qualified as non-detect in sample MW-19.

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.

Two surrogate recoveries for sample MW-29 were below control limits. The re-analysis of sample MW-29 yielded acceptable surrogate recoveries. The sample results from the re-analysis have been used to replace the original analysis of this sample. One surrogate recovery for sample MW-8S was above control limits. Positive data for sample MW-8S have been qualified as estimated based on the deviation. All other 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.

The following samples contained compounds above the linear range: MW-8S (methylene chloride, toluene and trichloroethene), MW-27 (methylene chloride), MW-31 (acetone), and DUP-2 (methylene chloride and acetone). Sample results which were greater than the linear range have been replaced with the data from the dilution analysis. 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 recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-27 / DUP-2	Acetone	170	800	110.0%

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-27 / DUP-2	Benzene	5	7	NA
	Ethylbenzene	ND	ND	NA
	Methylene Chloride	240	350	37.0%
	Toluene	ND	ND	NA
	Trichloroethene	ND	ND	NA
	m,p-Xylene	1 J	2 J	NA
	o-Xylene	2 J	2 J	NA

ND Not detected.

NA Analyte not detected in sample and/or field duplicate. Relative percent difference between recoveries (RPD) not applicable.

The field duplicate results were unacceptable for acetone. Data for acetone in the two samples presented in the above table have been qualified as estimated based on the deviation.

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>	_____	_____
Are the bar graph spectrum and mass/charge listing provided for each BFB?	<u>X</u>	_____	_____
Has a BFB 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>	_____	_____
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>	_____	_____
Is the RRT of each reported compound within 0.06 RRT units of the continuing calibration standard?	<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 there associated "best match" spectra present?	<u>X</u>	_____	_____
Are any target compounds listed as TICs?	_____	<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>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> </u>	<u> </u>
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u>X</u>	<u> </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 reconstructed ion 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 within specified limits?	<u>X</u>	<u> </u>	<u> </u>
Are the average RRF equal to or greater than minimum requirements?	<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 all RF equal to or greater than minimum requirements?	<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>Internal Standards</u>			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	<u> </u>	<u>X</u>	<u> </u>
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u>X</u>	<u> </u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u>X</u>	<u> </u>	<u> </u>

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*				Internal Standards*		
		DCE	TOL	BFB	DBF	PFB	DFB	CBZ
MW-27								
MW-31								
MW-28								
MW-29		1	1					
MW-30								
DUP-2								
TB-3								
MW-8S		1	1					
MW-19								
MW-18								
MW-24DR								
MW-23I								
MW-24SR								
MW-23S								
PZ5S								
PZ5D								
TB-4								
MW-25S								
MW-17R								
TB-5								
MW-8SMS		1						
MW-8SMSD								

Surrogates:
TOL Toluene-d8
BFB Bromofluorobenzene
DBF Dibromofluoromethane
DCE 1,2-Dichloroethane-d4

Internal Standards:
PFB Pentafluorobenzene
DFB 1,4-Difluorobenzene
CBZ Chlorobenzene-d5

Qualifiers:
1 Recovery high
1 Recovery low

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

Corrected Sample Analysis Data Sheets

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-09BSample wt/vol: 5 (g/mL) ML Lab File ID: \1501015.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/04/03GC 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		<u>800</u> 420	<u>✓</u>
71-43-2	Benzene		7	
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		310 <u>350</u>	U <u>✓</u>
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		2	J
95-47-6	o-Xylene		2	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2DL

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-09BSample wt/vol: 5 (g/mL) ML Lab File ID: \1901019.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 10.00

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

CONCENTRATION UNITS:

GAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
67-64-1	Acetone		800	
71-43-2	Benzene		50	U
100-41-4	Ethylbenzene		50	U
75-09-2	Methylene chloride		350	
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-8S

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-05BSample wt/vol: 5 (g/mL) ML Lab File ID: \1801018.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC 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		21	5 J
71-43-2	Benzene		25	J
100-41-4	Ethylbenzene		93	J
75-09-2	Methylene chloride	400000	4500	ED
108-88-3	Toluene		330 250	ED DFX
79-01-6	Trichloroethene		2300 3100	ED
1330-20-7	m,p-Xylene		250	J
95-47-6	o-Xylene		110	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8SDL

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-05BSample wt/vol: 5 (g/mL) ML Lab File ID: \2001020.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 100.00

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		1200	U
71-43-2	Benzene		500	U
100-41-4	Ethylbenzene		500	U
75-09-2	Methylene chloride		390000	E
108-88-3	Toluene		330	J
79-01-6	Trichloroethene		3100	
1330-20-7	m, p-Xylene		320	J
95-47-6	o-Xylene		120	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8SDL

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-05BSample wt/vol: 5 (g/mL) ML Lab File ID: \1801018.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/06/03GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 10,000.00

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		120000	U
71-43-2	Benzene		50000	U
100-41-4	Ethylbenzene		50000	U
75-09-2	Methylene chloride		400000	
108-88-3	Toluene		50000	U
79-01-6	Trichloroethene		50000	U
1330-20-7	m,p-Xylene		50000 100000	U
95-47-6	o-Xylene		50000	U

BBL

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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0311022-02B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \0701007.D

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

% Moisture: not dec. Date Analyzed: 11/06/03

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		12	U
71-43-2	Benzene		7	
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m, p-Xylene		10 5	U
95-47-6	o-Xylene		5	U

BH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: Buck Environmental Labs, Inc. Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-02BSample wt/vol: 5 (g/mL) ML Lab File ID: \0701007.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC 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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10	U
95-47-6	o-Xylene		5	U

1A
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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-01B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \0601006.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/05/03

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		11	<u>U</u>
71-43-2	Benzene		5	<u>U</u>
100-41-4	Ethylbenzene		5	<u>U</u>
75-09-2	Methylene chloride		5	<u>U</u>
108-88-3	Toluene		5	<u>U</u>
79-01-6	Trichloroethene		5	<u>U</u>
1330-20-7	m, p-Xylene		10	<u>U</u>
95-47-6	o-Xylene		5	<u>U</u>

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23I

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-04B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \0901009.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/05/03

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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m, p-Xylene		10	U
95-47-6	o-Xylene		5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23S

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-06B

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

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/05/03

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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10	U
95-47-6	o-Xylene		5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24DR

Lab Name: Buck Environmental Labs, Inc. Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-03BSample wt/vol: 5 (g/mL) ML Lab File ID: \0801008.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC 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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m, p-Xylene		10	U
95-47-6	o-Xylene		5	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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-05B

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

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/05/03

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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10	U
95-47-6	o-Xylene		5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-25S

Lab Name: Buck Environmental Labs, Inc. Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0311022-01BSample wt/vol: 5 (g/mL) ML Lab File ID: \0601006.DLevel: (low/med) LOW Date Received: 11/04/03% Moisture: not dec. Date Analyzed: 11/06/03GC 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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10 5	U
95-47-6	o-Xylene		5	U

BLL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-01BSample wt/vol: 5 (g/mL) ML Lab File ID: \1001010.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/04/03GC 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		170	U
71-43-2	Benzene		5	
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		220 240	U D
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		1	J
95-47-6	o-Xylene		2	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27DL

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-01BSample wt/vol: 5 (g/mL) ML Lab File ID: \1701017.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 10.00

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		150	
71-43-2	Benzene		50	U
100-41-4	Ethylbenzene		50	U
75-09-2	Methylene chloride		240	
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-28

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-03BSample wt/vol: 5 (g/mL) ML Lab File ID: \1201012.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/04/03GC 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		24	Q
71-43-2	Benzene		11	
100-41-4	Ethylbenzene		12	
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		6	
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		6	J
95-47-6	o-Xylene		7	

BLL

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-29

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-04BSample wt/vol: 5 (g/mL) ML Lab File ID: \1301013.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/04/03GC 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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10 5	U
95-47-6	o-Xylene		5	U

BLL

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-29 RA

UMP

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-04BSample wt/vol: 5 (g/mL) ML Lab File ID: \1601016.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC 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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10	U
95-47-6	o-Xylene		5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-30

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-08BSample wt/vol: 5 (g/mL) ML Lab File ID: \1401014.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/04/03GC 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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10 5	U
95-47-6	o-Xylene		5	U

BLLA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-31

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-02BSample wt/vol: 5 (g/mL) ML Lab File ID: \1101011.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/04/03GC 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	1200	480	E D
71-43-2	Benzene		13	
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		5	U
95-47-6	o-Xylene		5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-31DL

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-02B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1801018.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/05/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 10.00

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		1200	
71-43-2	Benzene		16	J
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.

PZ-5D

Lab Name: Buck Environmental Labs, Inc. Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-08BSample wt/vol: 5 (g/mL) ML Lab File ID: \1301013.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC 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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m, p-Xylene		10	U
95-47-6	o-Xylene		5	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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-07B

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

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/05/03

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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10	U
95-47-6	o-Xylene		5	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-3

Lab Name: Buck Environmental Labs, Inc. Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-10ASample wt/vol: 5 (g/mL) ML Lab File ID: \1601016.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/04/03GC 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		12	U
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10 5	U
95-47-6	o-Xylene		5	U

BLL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-4

Lab Name: Buck Environmental Labs, Inc. Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-09ASample wt/vol: 5 (g/mL) ML Lab File ID: \1401014.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/05/03GC 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		28	
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		10	U
95-47-6	o-Xylene		5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-5

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0311022-03A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \0801008.D

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

% Moisture: not dec. Date Analyzed: 11/06/03

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		110	
71-43-2	Benzene		5	U
100-41-4	Ethylbenzene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
79-01-6	Trichloroethene		5	U
1330-20-7	m,p-Xylene		5	U
95-47-6	o-Xylene		5	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 technical 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 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 percent difference (%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.

The MS/MSD recoveries and relative percent difference between recoveries (RPD) were within control limits. The MSB recovery was also within control limits.

6. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-27 / DUP-2	methanol	ND	ND	NA

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

7. The sample result units were originally reported as ug/l. The units have been corrected to mg/l.

8. 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?	<u> </u>	<u> X </u>	<u> </u>
Is there a narrative or cover letter present?	<u> X </u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> X </u>	<u> </u>	<u> </u>
Are the sample chain-of-custodies present?	<u> X </u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> </u>	<u> X </u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u> X </u>	<u> </u>
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u> X </u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency?	<u> X </u>	<u> </u>	<u> </u>
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?	<u> X </u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u> X </u>	<u> </u>	<u> </u>
Has a blank been analyzed at least once every twelve hours for each system used?	<u> X </u>	<u> </u>	<u> </u>
Do any method/reagent/instrument blanks have positive results?	<u> </u>	<u> X </u>	<u> </u>
Are there trip/field/rinse/equipment blanks associated with every sample?	<u> X </u>	<u> </u>	<u> </u>
Do any trip/field/rinse blanks have positive results?	<u> </u>	<u> X </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>

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> X </u>	<u> </u>	<u> </u>

Calibration Outliers

Instrument: GC-03

Matrix: water

Date	11/7/03	11/7/03	11/7/03	11/7/03		
Time		1356	1507	1618		
	Initial Cal.	Cont. Cal.				
	RSD	%D	%D	%D	%D	%D
methanol						
Affected Samples:						

Corrected Sample Analysis Data Sheets

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-09C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 3501035.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-05C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 3301033.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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		0.12	J

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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0311022-02C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 5201052.D

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

% Moisture: not dec. Date Analyzed: 11/07/03

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-18

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-02C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 4301043.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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-23I

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-04C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 4501045.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-06C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 4701047.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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.

MW-24DR

Lab Name: Buck Environmental Labs, Inc. Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-03CSample wt/vol: 5 (g/mL) uL Lab File ID: 4401044.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/07/03GC 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.

MW-24SR

Lab Name: Buck Environmental Labs, Inc. Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-05CSample wt/vol: 5 (g/mL) uL Lab File ID: 4601046.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/07/03GC 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-25S

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0311022-01C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 5101051.D

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

% Moisture: not dec. Date Analyzed: 11/07/03

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.

MW-27

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLANDLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-01CSample wt/vol: 5 (g/mL) uL Lab File ID: 2901029.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/07/03GC 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

MW-28

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLANDLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-03CSample wt/vol: 5 (g/mL) uL Lab File ID: 3101031.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/07/03GC 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	($\mu\text{g/L}$ or $\mu\text{g/Kg}$)	MG/L	Q
67-56-1	Methanol		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-29

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLANDLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-04CSample wt/vol: 5 (g/mL) uL Lab File ID: 3201032.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/07/03GC 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-30

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLANDLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-08CSample wt/vol: 5 (g/mL) uL Lab File ID: 3401034.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/07/03GC 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	($\mu\text{g/L}$ or $\mu\text{g/Kg}$)	<u>MG/L</u>	<u>Q</u>
67-56-1	Methanol		1	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.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-02C

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

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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

1A
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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-08C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 4901049.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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-5S

Lab Name: Buck Environmental Labs, Inc. Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-07CSample wt/vol: 5 (g/mL) uL Lab File ID: 4801048.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/07/03GC 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-19

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-01C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 4201042.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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.

TB-3

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLANDLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-10BSample wt/vol: 5 (g/mL) uL Lab File ID: 3601036.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: not dec. Date Analyzed: 11/07/03GC 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.

TB-4

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-09B

Sample wt/vol: 5 (g/mL) uL Lab File ID: 5001050.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: not dec. Date Analyzed: 11/07/03

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.

TB-5

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0311022-03B

Sample wt/vol: 5 (g/mL) uL Lab File ID: 5301053.D

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

% Moisture: not dec. Date Analyzed: 11/07/03

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.

Surrogates were diluted beyond the range of quantitation in several samples. No data have been qualified based on diluted surrogates. Recovery for one surrogate was outside control limits in samples MW-27, MW-31, MW-28, MW-29, and MW-18 and recoveries for two surrogates were outside of control limits in samples MW-19 and MW-8S. Associated sample results with two surrogate recoveries outside of control limits have been qualified as estimated. All other 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.

The internal standard recovery of Chrysene-d12 was above the control limit in samples MW-31, MW-29, and MW-19. No sample results were associated with the deviate internal standard therefore no data were qualified. All other 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.

Samples MW-27, DUP-2 and MW-28 contained aniline above the linear range and sample MW8S contained analine and N,N'-Dimethylaniline above the linear range. Data for the listed compounds in associated samples have been replaced with data from the dilution analyses. 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 and relative percent difference (RPD) between recoveries for aniline were outside control limits. The MSB was, however, within control limits for aniline. No data have been qualified based on the deviations.

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-27 / DUP-2	Aniline	3700	2900	24.0%
	N,N-Dimethylaniline	ND	ND	NA

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable

10. System Performance and Overall Assessment

The original sample aniline results in the following samples were incorrectly calculated by the laboratory (DUP-2, DUP-2DL, MW-8S, MW-8SDL, MW-27, MW-27DL, MW-28, MW-28DL, MW-29). The sample results have been corrected and include in the corrected data sheets.

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?	<u> </u>	<u> X </u>	<u> </u>
Is there a narrative or cover letter present?	<u> X </u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> X </u>	<u> </u>	<u> </u>
Are the sample chain-of-custodies present?	<u> X </u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> </u>	<u> X </u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u> X </u>	<u> </u>
<u>Surrogate Recovery</u>			
Are the surrogate recovery forms present?	<u> X </u>	<u> </u>	<u> </u>
Are all the samples listed on the appropriate surrogate recovery form?	<u> X </u>	<u> </u>	<u> </u>
Were two or more surrogate recoveries outside of specified limits for any sample or blank?	<u> </u>	<u> X </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> X </u>	<u> </u>
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u> X </u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency	<u> X </u>	<u> </u>	<u> </u>
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?	<u> X </u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u> X </u>	<u> </u>	<u> </u>
Has a blank been analyzed for each GC/MS system used?	<u> X </u>	<u> </u>	<u> </u>
Do any method/reagent/instrument blanks have positive results?	<u> </u>	<u> X </u>	<u> </u>
Are there field/rinse/equipment blanks associated with every sample?	<u> </u>	<u> X </u>	<u> </u>

Semivolatile Organics Data Validation Checklist - Page 2

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

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?	<u> X </u>	<u> </u>	<u> </u>
Do the TIC and "best match" spectrum agree within 20%?	<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> X </u>	<u> </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 reconstructed ion 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 within acceptable limits?	<u> X </u>	<u> </u>	<u> </u>
Are the average RRF equal to or greater than minimum requirements?	<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 all RF equal to or greater than minimum requirements?	<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>Internal Standards</u>			
Are internal standard areas of the samples and blanks within the upper and lower limits for each continuing calibration?	<u> </u>	<u> X </u>	<u> </u>
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u> X </u>	<u> </u>	<u> </u>

Semivolatile Organics Data Validation Checklist - Page 4

Field Duplicates

Were field duplicates submitted with the samples? X

Semivolatile Calibration Outliers

Instrument: MSD2

Level: low

Date/Time	11/06/03	11/10/03 1404	11/11/03 09:05	11/11/03 1629	11/12/03 1335			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D
aniline								
n,n'-dimethylaniline								
Affected Samples:								

Semivolatile Calibration Outliers - Page 2

Instrument: MSD2

Level: low

Date/Time	11/06/03		11/18/03 1239							
	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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-09A

Sample wt/vol: 990 (g/mL) *JP* Lab File ID: 1001010.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	<i>2.400</i>	<i>E-D</i>
121-69-7	N,N-Dimethylaniline	5	U

355 correction

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-09A

Sample wt/vol: 990 (g/mL) ml Lab File ID: 1001010.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	22000		E
121-69-7	N,N-Dimethylaniline	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-2DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-09A

Sample wt/vol: 990 (g/mL) 6 Lab File ID: 1101011.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 20.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	2900		
121-69-7	N,N-Dimethylaniline	100		U

359 correction

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BELO331
 Matrix: (soil/water) WATER Lab Sample ID: 0310292-09A
 Sample wt/vol: 990 (g/mL) ml Lab File ID: 1101011.D
 Level: (low/med) LOW Date Received: 10/31/03
 % Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03
 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03
 Injection Volume: 1 (µL) Dilution Factor: 20.00
 GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type)

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	3600	E ()
121-69-7	N,N-Dimethylaniline	100	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-09A

Sample wt/vol: 990 (g/mL) ml Lab File ID: 0301003.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/18/03

Injection Volume: 1 (µL) Dilution Factor: 50.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	3600		
121-69-7	N,N-Dimethylaniline	250		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-05A

Sample wt/vol: 985 (g/mL) *985* Lab File ID: 1401014.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	43000		E
121-69-7	N,N-Dimethylaniline	5400		E

267 correction

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8SDL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-05A

Sample wt/vol: 985 (g/mL) G Lab File ID: 0301003.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 1,000.00

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

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L Q

CAS NO.	COMPOUND
62-53-3	Aniline
121-69-7	N,N-Dimethylaniline

67000

24000

371 correction

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-05A

Sample wt/vol: 985 (g/mL) Q Lab File ID: 1401014.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

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	550000 <u>3300</u>	E D
121-69-7	N,N-Dimethylaniline	5400 <u>2400</u>	E D

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8SDL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-05A

Sample wt/vol: 985 (g/mL) ml Lab File ID: 0301003.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 1,000.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	83000		
121-69-7	N,N-Dimethylaniline	23000		

1C

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.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0311022-02ASample wt/vol: 960 (g/mL) ml Lab File ID: 0501005.DLevel: (low/med) LOW Date Received: 11/04/03% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 11/10/03Injection Volume: 1 (μ L) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/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-18

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-02ASample wt/vol: 975 (g/mL) ml Lab File ID: 0701007.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 11/10/03Injection Volume: 1 (μ L) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg)	UG/L	Q
62-53-3	Aniline	0.7		J
121-69-7	N,N-Dimethylaniline	5		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-18

RA

Lab Name: Buck Environmental Labs, In ContractLab Code: 10795Case No.: C

SAS No.: _____

SDG No.: BEL0331Matrix: (soil/water) WATERLab Sample ID: 0310297-02ASample wt/vol: 975 (g/mL) mlLab File ID: 1001010.DLevel: (low/med) LOWDate Received: 10/31/03% Moisture: Decanted: (Y/N) NDate Extracted: 11/04/03Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 11/11/03Injection Volume: 1 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg)	UG/L	Q
62-53-3	Aniline	0.7		J
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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-01A

Sample wt/vol: 990 (g/mL) ml Lab File ID: 0601006.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	51	J	
121-69-7	N,N-Dimethylaniline	16	J	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19 *RA*
JB

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-01A

Sample wt/vol: 990 (g/mL) ml Lab File ID: 0901009.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L Q

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
62-53-3	Aniline	54	
121-69-7	N,N-Dimethylaniline	16	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23I

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795

Case No.: C

SAS No.: _____

SDG No.: BEL0331

Matrix: (soil/water) WATER

Lab Sample ID: 0310297-04A

Sample wt/vol: 990 (g/mL) ml

Lab File ID: 0901009.D

Level: (low/med) LOW

Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N

Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 11/10/03

Injection Volume: 1 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

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

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-23I RA JB

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-04A

Sample wt/vol: 990 (g/mL) ml Lab File ID: 1101011.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ 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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23S

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-06A

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1101011.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	60		
121-69-7	N,N-Dimethylaniline	5		U

1C
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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-03A

Sample wt/vol: 940 (g/mL) ml Lab File ID: 0801008.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	0.5	J
121-69-7	N,N-Dimethylaniline	5	U

1C

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.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-05A

Sample wt/vol: 890 (g/mL) ml Lab File ID: 1001010.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	16		
121-69-7	N,N-Dimethylaniline	6		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-25S

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0311022-01A

Sample wt/vol: 990 (g/mL) ml Lab File ID: 0401004.D

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

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ 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

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-27

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-01A

Sample wt/vol: 975 (g/mL) 975 Lab File ID: 0501005.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L Q

CAS NO.	COMPOUND
62-53-3	Aniline
121-69-7	N,N-Dimethylaniline

3.400 1400 →
5 U

419 correction

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-01A

Sample wt/vol: 975 (g/mL) 8 Lab File ID: 0801008.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 50.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L Q
62-53-3	Aniline	3700	
121-69-7	N,N-Dimethylaniline	260	U

A77 Correction

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-01A

Sample wt/vol: 975 (g/mL) ml Lab File ID: 0501005.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	4000	12000	E
121-69-7	N,N-Dimethylaniline		5	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331
 Matrix: (soil/water) WATER Lab Sample ID: 0310292-01A
 Sample wt/vol: 975 (g/mL) ml Lab File ID: 1201012.D
 Level: (low/med) LOW Date Received: 10/31/03
 % Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03
 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03
 Injection Volume: 1 (µL) Dilution Factor: 20.00
 GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	3500		E
121-69-7	N,N-Dimethylaniline	100		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-01A

Sample wt/vol: 975 (g/mL) ml Lab File ID: 0801008.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 50.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	4600	
121-69-7	N,N-Dimethylaniline	260	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-28

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-03A

Sample wt/vol: 990 (g/mL) *990* Lab File ID: 0701007.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	850	E	1
121-69-7	N,N-Dimethylaniline	5	U	

431 correction
B.L.H

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-28DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331
 Matrix: (soil/water) WATER Lab Sample ID: 0310292-03A
 Sample wt/vol: 990 (g/mL) 8 Lab File ID: 1301013.D
 Level: (low/med) LOW MB Date Received: 10/31/03
 % Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03
 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03
 Injection Volume: 1 (µL) Dilution Factor: 20.00
 GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	1900		
121-69-7	N,N-Dimethylaniline	100		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-28DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-03A

Sample wt/vol: 990 (g/mL) *S ml JB* Lab File ID: 0901009.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 10.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	1500		Q
121-69-7	N,N-Dimethylaniline	50		U

135 correction

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-28DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-03A

Sample wt/vol: 990 (g/mL) *8 ml 9/3* Lab File ID: 1401014.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 50.00

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

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	2200		
121-69-7	N,N-Dimethylaniline	250		U

113 correction

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-28

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-03A

Sample wt/vol: 990 (g/mL) ml Lab File ID: 0701007.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

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	6900	6900	E-D
121-69-7	N,N-Dimethylaniline	5	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-28DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BELC331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-03A

Sample wt/vol: 990 (g/mL) ml Lab File ID: 0901009.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 10.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	1900	E
121-69-7	N,N-Dimethylaniline	50	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-28DL

Lab Name: Buck Environmental Labs, In Contract: BELLab Code: 10795

Case No.:

SAS No.:

SDG No.: BEL0331Matrix: (soil/water) WATERLab Sample ID: 0310292-03ASample wt/vol: 990 (g/mL) mlLab File ID: 1301013.DLevel: (low/med) LOWDate Received: 10/31/03% Moisture: Decanted: (Y/N) NDate Extracted: 11/04/03Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 11/12/03Injection Volume: 1 (μ L)Dilution Factor: 20.00GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg)	UG/L	Q
62-53-3	Aniline		2400	
121-69-7	N,N-Dimethylaniline		100	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-28DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795

Case No.:

SAS No.:

SDG No.: BE10331

Matrix: (soil/water) WATER

Lab Sample ID: 0310292-03A

Sample wt/vol: 990 (g/mL) ml

Lab File ID: 1401014.D

Level: (low/med) LOW

Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N

Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 11/12/03

Injection Volume: 1 (µL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH:

Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	2800		
121-69-7	N,N-Dimethylaniline	250		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-29

Lab Name: Buck Environmental Labs, In Contract: BBLLab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310292-04ASample wt/vol: 920 (g/mL) ml Lab File ID: 0801008.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	2	J
121-69-7	N,N-Dimethylaniline	5	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-29
RA 16

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-04A

Sample wt/vol: 920 (g/mL) *9 ml JB* Lab File ID: 1001010.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L Q
0.5 J
5 U

CAS NO.	COMPOUND
62-53-3	Aniline
121-69-7	N,N-Dimethylaniline

151 correction BHT

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-29 *RA*
JB

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BELO331

Matrix: (soil/water) WATER Lab Sample ID: 0310292-04A

Sample wt/vol: 920 (g/mL) ml Lab File ID: 1001010.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	0.7		J
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: BBLLab Code: 10795

Case No.:

SAS No.: _____

SDG No.: BEL0331Matrix: (soil/water) WATERLab Sample ID: 0310292-08ASample wt/vol: 1000 (g/mL) mlLab File ID: 0901009.DLevel: (low/med) LOWDate Received: 10/31/03% Moisture: Decanted: (Y/N) NDate Extracted: 11/04/03Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 11/11/03Injection Volume: 1 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg)	UG/L	Q
62-53-3	Aniline	4		J
121-69-7	N,N-Dimethylaniline	5		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-31

Lab Name: Buck Environmental Labs, In Contract: BBLLab Code: 10795

Case No.:

SAS No.: _____

SDG No.: BEL0331Matrix: (soil/water) WATERLab Sample ID: 0310292-02ASample wt/vol: 935 (g/mL) mlLab File ID: 0601006.DLevel: (low/med) LOWDate Received: 10/31/03% Moisture: Decanted: (Y/N) NDate Extracted: 11/04/03Concentrated Extract Volume: 1000 (µL)Date Analyzed: 11/11/03Injection Volume: 1 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline		88	
121-69-7	N,N-Dimethylaniline		5	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-31 RA
[Signature]

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: _____ SAS No.: _____ SDG No.: BEL0331
 Matrix: (soil/water) WATER Lab Sample ID: 0310292-02A
 Sample wt/vol: 935 (g/mL) ml Lab File ID: 1301013.D
 Level: (low/med) LOW Date Received: 10/31/03
 % Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03
 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03
 Injection Volume: 1 (µL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	85	
121-69-7	N,N-Dimethylaniline	5	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PZ-5D

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331

Matrix: (soil/water) WATER Lab Sample ID: 0310297-08A

Sample wt/vol: 985 (g/mL) ml Lab File ID: 1301013.D

Level: (low/med) LOW Date Received: 10/31/03

% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-53-3	Aniline	46		
121-69-7	N,N-Dimethylaniline	5		U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PZ-5S

Lab Name: Buck Environmental Labs, In Contract: _____Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0331Matrix: (soil/water) WATER Lab Sample ID: 0310297-07ASample wt/vol: 985 (g/mL) ml Lab File ID: 1201012.DLevel: (low/med) LOW Date Received: 10/31/03% Moisture: Decanted: (Y/N) N Date Extracted: 11/04/03Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/03Injection Volume: 1 (µL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____ 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

Chain of Custody



6723 Towpath Road, P.O. Box 66
 Syracuse, New York 13214-0066
 TEL: (315) 446-9120

SDG BEL 0331

CHAIN OF CUSTODY RECORD

0310292
 0310293

PROJ. NO.		PROJECT NAME														REMARKS
20003		McKesson														
SAMPLERS: (Signature)																REMARKS
<i>[Signature]</i>																
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	Number of Containers	SVOCs (2)	VOCs (3)	Alcohols (3)	Surfact (1)	Diss Metals (1)	Total Metals (1)	NO ₃ / SO ₄ (1)	Total Orthophosphate (1)	Ammonia (1)	REMARKS
	10/30/03	900		X	MW-27	14	X	X	X	X	X	X	X	X	X	
		930			MW-31	14	X	X	X	X	X	X	X	X	X	
		1200			MW-28	14	X	X	X	X	X	X	X	X	X	
		1205			MW-29	14	X	X	X	X	X	X	X	X	X	
		1320			MW-85	14	X	X	X	X	X	X	X	X	X	
		1320 1315			MW-85 MS/MSD	28	X	X	X	X	X	X	X	X	X	
		1515			MW-30	14	X	X	X	X	X	X	X	X	X	
					Dup-2	14	X	X	X	X	X	X	X	X	X	126
					Temp blanks	4										(136) total
					TB-3	6										132
Relinquished by: (Signature)			DATE	TIME	Received by: (Signature)			Relinquished by: (Signature)			DATE	TIME	Relinquished by: (Signature)			
<i>[Signature]</i>			10/30/03													
Relinquished by: (Signature)			DATE	TIME	Received by: (Signature)			Relinquished by: (Signature)			DATE	TIME	Relinquished by: (Signature)			
Relinquished by: (Signature)			DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME		Remarks:						
					<i>[Signature]</i>		10/31/03	10:58		seals intact cooler temps 3.7°, 1.2°, 1.9°, 2.0°						

Contact:
 Christie Sobol
 315-446-9120



0310297

SDG BEL0331

6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME																		
24003		McKesson																		
SAMPLERS: (Signature)																				
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		Number of Containers	SVOCs	VOCs	Metals									REMARKS	
	10/3/03	900		X	MW-19	1	8	X	X	X										
		920			MW-78	2	8	X	X	X										
		1105			MW-24DR	3	8	X	X	X										
		1145			MW-23I	4	8	X	X	X										
		1210			MW-24SR	5	8	X	X	X										Contact: Christine Sobel 315-446-9120
		1420			MW-23S	6	8	X	X	X										
		1515			P2-5S	7	8	X	X	X										
		1545			P2-5D	8	8	X	X	X										
					Temp Blank		3													
					TB-4	9	6													6577 Sobel
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)						
[Signature]		10/3/03	1700	[Signature]																
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)						
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME	Remarks:												
				[Signature]		10/31/03	4:33	Hand delivered - no seals intact Temps: 2.4°, 13.9°, 12.9°												

PBL0331

03110202



6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME															
2003		McKesson															
SAMPLERS: (Signature) <i>[Signature]</i>																	
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	Number of Containers		SVOCs	VOCs	Metals	REMARKS						
	10/3/03	1025		X	MW-255	X	X	X									
	11/3/03	1020			MW-17R	X	X	X			* contact = Christie Sobol 315-446-9120						
				TB-5													
Relinquished by: (Signature) <i>[Signature]</i>			DATE	TIME	Received by: (Signature)			Relinquished by: (Signature)			DATE	TIME	Relinquished by: (Signature)				
Relinquished by: (Signature)			DATE	TIME	Received by: (Signature)			Relinquished by: (Signature)			DATE	TIME	Relinquished by: (Signature)				
Relinquished by: (Signature)			DATE	TIME	Received for Laboratory by: (Signature) <i>[Signature]</i>		DATE	TIME	Remarks:								
					<i>[Signature]</i>		11/4/03	10:45	seals intact 4.6°								

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY
 Contract Lab Sample Information Sheet (CLISIS)

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		VOA GC/MS Method	BNA GC/MS Method	VOA GC Method	Pesticide PCB's Method	Metals	Other
DUP-2	0310292-09	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-8S	0310292-05	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-8S MS	0310292-06	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-8S MSD	0310292-07	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-17R	0311022-02	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-18	0310297-02	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-19	0310297-01	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-23I	0310297-04	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-23S	0310297-06	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-24DR	0310297-03	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-24SR	0310297-05	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-25S	0311022-01	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-27	0310292-01	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-28	0310292-03	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC/MS VOLATILE (VOA) ANALYSIS
Contract Lab Sample Information Sheet (CL SIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310292-01	WATER	10/30/03	10/31/03	NA	11/04/03, 11/05/03
0310292-02	WATER	10/30/03	10/31/03	NA	11/05/03, 11/04/03
0310292-03	WATER	10/30/03	10/31/03	NA	11/04/03
0310292-04	WATER	10/30/03	10/31/03	NA	11/04/03
0310292-05	WATER	10/30/03	10/31/03	NA	11/05/03, 11/06/03
0310292-06	WATER	10/30/03	10/31/03	NA	11/05/03, 11/06/03
0310292-07	WATER	10/30/03	10/31/03	NA	11/05/03, 11/06/03
0310292-08	WATER	10/30/03	10/31/03	NA	11/04/03
0310292-09	WATER	10/30/03	10/31/03	NA	11/04/03, 11/05/03
0310292-10	WATER	10/30/03	10/31/03	NA	11/04/03
0310297-01	WATER	10/31/03	10/31/03	NA	11/05/03
0310297-02	WATER	10/31/03	10/31/03	NA	11/05/03
0310297-03	WATER	10/31/03	10/31/03	NA	11/05/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 SAMPLE PREPARATION AND ANALYSIS SUMMARY
 GC/MS VOLATILE (VOA) ANALYSIS
 Contract Lab Sample Information Sheet (CLISIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310297-04	WATER	10/31/03	10/31/03	NA	11/05/03
0310297-05	WATER	10/31/03	10/31/03	NA	11/05/03
0310297-06	WATER	10/31/03	10/31/03	NA	11/05/03
0310297-07	WATER	10/31/03	10/31/03	NA	11/05/03
0310297-08	WATER	10/31/03	10/31/03	NA	11/05/03
0310297-09	WATER	10/31/03	10/31/03	NA	11/05/03
0311022-01	WATER	11/03/03	11/04/03	NA	11/06/03
0311022-02	WATER	11/03/03	11/04/03	NA	11/06/03
0311022-03	WATER	11/03/03	11/04/03	NA	11/06/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 SAMPLE PREPARATION AND ANALYSIS SUMMARY
 GC/MS VOLATILE (METHANOL) ANALYSIS
 Contract Lab Sample Information Sheet (CL SIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310292-01	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-02	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-03	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-04	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-05	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-06	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-07	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-08	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-09	WATER	10/30/03	10/31/03	NA	11/07/03
0310292-10	WATER	10/30/03	10/31/03	NA	11/07/03
0310297-01	WATER	10/31/03	10/31/03	NA	11/07/03
0310297-02	WATER	10/31/03	10/31/03	NA	11/07/03
0310297-03	WATER	10/31/03	10/31/03	NA	11/07/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 SAMPLE PREPARATION AND ANALYSIS SUMMARY
 GC/MS VOLATILE (METHANOL) ANALYSIS
 Contract Lab Sample Information Sheet (CL SIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310297-04	WATER	10/31/03	10/31/03	NA	11/07/03
0310297-05	WATER	10/31/03	10/31/03	NA	11/07/03
0310297-06	WATER	10/31/03	10/31/03	NA	11/07/03
0310297-07	WATER	10/31/03	10/31/03	NA	11/07/03
0310297-08	WATER	10/31/03	10/31/03	NA	11/07/03
0310297-09	WATER	10/31/03	10/31/03	NA	11/07/03
0311022-01	WATER	11/03/03	11/04/03	NA	11/07/03
0311022-02	WATER	11/03/03	11/04/03	NA	11/07/03
0311022-03	WATER	11/03/03	11/04/03	NA	11/07/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 SAMPLE PREPARATION AND ANALYSIS SUMMARY
 GC/MS SEMIVOLATILE (SVOA) ANALYSIS
 Contract Lab Sample Information Sheet (CL SIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310292-01	WATER	10/30/03	10/31/03	11/04/03	11/11/03, 11/12/03
0310292-02	WATER	10/30/03	10/31/03	11/04/03	11/11/03, 11/12/03
0310292-03	WATER	10/30/03	10/31/03	11/04/03	11/11/03, 11/12/03
0310292-04	WATER	10/30/03	10/31/03	11/04/03	11/11/03, 11/12/03
0310292-05	WATER	10/30/03	10/31/03	11/04/03	11/12/03
0310292-06	WATER	10/30/03	10/31/03	11/04/03	11/12/03
0310292-07	WATER	10/30/03	10/31/03	11/04/03	11/12/03
0310292-08	WATER	10/30/03	10/31/03	11/04/03	11/11/03
0310292-09	WATER	10/30/03	10/31/03	11/04/03	11/11, 11/12, 11/18/03
0310297-01	WATER	10/31/03	10/31/03	11/04/03	11/10/03, 11/11/03
0310297-02	WATER	10/31/03	10/31/03	11/04/03	11/10/03, 11/11/03
0310297-03	WATER	10/31/03	10/31/03	11/04/03	11/10/03
0310297-04	WATER	10/31/03	10/31/03	11/04/03	11/10/03, 11/11/03

Buck Environmental Labs, Inc.

Sample Receipt Checklist

Client Name BLASLAND

Date and Time Receive

10/31/03

Work Order Numbe 0310292

Received by: PB

Checklist completed by Pamela Davis 10/31/03
Signature Date

Reviewed by SAS 10/31/03
Initials Date

Matrix:

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No
- No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No
- Adjusted? _____ Checked by _____

SampID	ClientSampID	TagNo
01A	MW-27	
01B	MW-27	
01C	MW-27	
02A	MW-31	
02B	MW-31	
02C	MW-31	
03A	MW-28	
03B	MW-28	
03C	MW-28	
04A	MW-29	
04B	MW-29	
04C	MW-29	
05A	MW-8S	
05B	MW-8S	
05C	MW-8S	
06A	MW-8S MS	
06B	MW-8S MS	
06C	MW-8S MS	
07A	MW-8S MSD	
07B	MW-8S MSD	
07C	MW-8S MSD	
08A	MW-30	
08B	MW-30	
08C	MW-30	
09A	DUP-2	
09B	DUP-2	
09C	DUP-2	
10A	TB-3	
10B	TB-3	
11A	STORAGE BLANK	

Any No and/or NA (not applicable) response must be detailed in the comments section be

Sample Custodies Tracked on the Following Internal Chains:

Dept:	Area	By	On
MSSEMI	<u>Ref 02</u>	<u>SAS</u>	<u>10/31/03</u>
MSVOA	<u>Ref 07</u>	<u>SAS</u>	<u>10/31/03</u>

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

07

Buck Environmental Lab, Inc.

Ref # 02-102

BEL Job # 0310292

Internal Chain of Custody

Dept: MSVOA

ClientID: BLASLAND

Relinquished By: Pamela Brown

Date: 10/31/03

Testing: S260ASPL MMSOHL

Received By: Timothy M. King

Date: 11/04/03

Testing:

BEL Sample ID	Sample Removal And Return Tracking																							
	Removed				Returned				Removed				Returned				Removed				Returned			
	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time						
-01B 1	11-04-03	13:30	UMP	A	11-05-03	10:00																		
-01B 2	11-05-03	10:00	UMP	A	11-06-03	9:30																		
-01B 3																								
-01C 1	11/7/03	1354	Ⓟ	A	11/7/03	1640																		
-01C 2																								
-01C 3																								
-02B 1	11-04-03	13:30	UMP	A	11-05-03	10:00																		
-02B 2	11-05-03	10:00	UMP	A	11-06-03	9:30																		
-02B 3	11-06-03	9:30	UMP	A	11-07-03	9:00																		
-02C 1	11/7/03	1354	Ⓟ	A	11/7/03	1640																		
-02C 2																								
-02C 3																								
-03B 1	11-04-03	13:30	UMP	A	11-05-03	10:00																		
-03B 2	11-05-03	10:00	UMP	A	11-06-03	9:30																		
-03B 3	11-06-03	9:30	UMP	A	11-07-03	9:00																		
-03C 1	11/7/03	1354	Ⓟ	A	11/7/03	1640																		
-03C 2																								
-03C 3																								
-04B 1	11-04-03	13:30	UMP	A	11-05-03	10:00																		
-04B 2	11-05-03	10:00	UMP	A	11-06-03	9:30																		
-04B 3	11-06-03	9:30	UMP	A	11-07-03	9:00																		
-04C 1	11/7/03	1354	Ⓟ	A	11/7/03	1640																		
-04C 2																								
-04C 3																								
-05B 1	11-04-03	13:30	UMP	A	11-05-03	10:00																		
-05B 2	11-05-03	10:00	UMP	A	11-06-03	9:30																		
-05B 3	11-06-03	9:30	UMP	A	11-07-03	9:00																		
-05C 1	11/7/03	1354	Ⓟ	A	11/7/03	1640																		
-05C 2																								
-05C 3																								
-06B 1	11-04-03	13:30	UMP	A	11-05-03	10:00																		
-06B 2	11-06-03	9:30	UMP	A	11-07-03	9:00																		
-06B 3	11/7/03	1354	Ⓟ	A	11/7/03	1640																		
-06C 1	11/7/03	1354	Ⓟ	A	11/7/03	1640																		
-06C 2																								
-06C 3																								
-07B 1	11-04-03	13:30	UMP	A	11-05-03	10:00																		
-07B 2	11-06-03	9:30	UMP	A	11-07-03	9:00																		

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

Buck Environmental Lab, Inc.

Ref # 02

BEL Job # 0310292

Internal Chain of Custody

Dept: MSVOA

ClientID: BLASLAND

Relinquished By Samela Brown

Date: 10/31/03

Testing: 8260A-SP2 MMECHL

Received By: Christy M. Aving

Date: 11/04/03

Testing: _____

BEL Sample ID	Sample Removal And Return Tracking																							
	Removed				Returned				Removed				Returned				Removed				Returned			
	Date	Time	By	*	Date	Time			Date	Time	By	*	Date	Time			Date	Time	By	*	Date	Time		
-07B	3																							
-07C	1	11/7/03	1354	(D)	A	11/7/03	1640																	
-07C	2																							
-07C	3																							
-08B	1	11-04-03	13:30	UMP	A	11-05-03	10:00																	
-08B	2																							
-08B	3																							
-08C	1	11/7/03	1354	(D)	A	11/7/03	1640																	
-08C	2																							
-08C	3																							
-09B	1	11-04-03	13:30	UMP	A	11-05-03	10:00																	
-09B	2	11-05-03	10:00	UMP	A	11-04-03	9:30																	
-09B	3																							
-09C	1	11/7/03	1354	(D)	A	11/7/03	1640																	
-09C	2																							
-09C	3																							
-10A	1	11-04-03	13:30	UMP	A	11-05-03	10:00																	
-10A	2																							
-10A	3																							
-10B	1	11/7/03	1354	(D)	A	11/7/03	1640																	
-10B	2																							
-10B	3																							
-11A	1	11-04-03	13:30	UMP	A	11-05-03	10:00																	

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

Buck Environmental Labs, Inc.

Sample Receipt Checklist

Client Name BLASLAND

Date and Time Receive

10/31/03

Work Order Numbe 0310297

Received by: PB

Checklist completed by Pamela Davis 10/31/03
Signature Date

Reviewed by SaS 10/31/03
Initials Date

Matrix:

Carrier name: Hand Deliver

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No
- No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No
- Adjusted? _____ Checked by _____

SampID	ClientSampID	TagNo
01A	MW-19	
01B	MW-19	
01C	MW-19	
02A	MW-18	
02B	MW-18	
02C	MW-18	
03A	MW-24DR	
03B	MW-24DR	
03C	MW-24DR	
04A	MW-23I	
04B	MW-23I	
04C	MW-23I	
05A	MW-24SR	
05B	MW-24SR	
05C	MW-24SR	
06A	MW-23S	
06B	MW-23S	
06C	MW-23S	
07A	PZ-5S	
07B	PZ-5S	
07C	PZ-5S	
08A	PZ-5D	
08B	PZ-5D	
08C	PZ-5D	
09A	TB-4	
09B	TB-4	

Any No and/or NA (not applicable) response must be detailed in the comments section be

Sample Custodies Tracked on the Following Internal Chains:

Dept:	Area	By	On
MSSEMI	Ref 02	Sa S	10/31/03
MSVOA	Ref 07	Sa S	10/31/03

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: temperatures: 2.4°, 13.9°, 12.9°

Corrective Action _____

Buck Environmental Lab, Inc.
Internal Chain of Custody

Ref # 07

BEL Job # 0310297

Dept: MSVOA

ClientID: BLASLAND

Relinquished By: Pamela Brown

Date: 10/31/01

Testing: 8260, ASAC, MNEFOTL

Received By: Christy M. Pieng

Date: 11-05-03

Testing: _____

BEL Sample ID	Sample Removal And Return Tracking															
	Removed				Returned				Removed				Returned			
	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time	Date	Time	By	*
-01B 1	11-05-03	10:00	CMP	A	11-06-03	4:30										
-01B 2																
-01B 3																
-01C 1	11/7/03	1354	(A)	A	11/7/03	1640										
-01C 2																
-01C 3																
-02B 1	11-05-03	10:00	CMP	A	11-06-03	9:30										
-02B 2	11-06-03	9:30	CMP	A	11-07-03	9:00										
-02B 3																
-02C 1	11/7/03	1354	(A)	A	11/7/03	1640										
-02C 2																
-02C 3																
-03B 1	11-05-03	10:00	CMP	A	11-06-03	9:30										
-03B 2	11-06-03	9:30	CMP	A	11-07-03	9:00										
-03B 3																
-03C 1	11/7/03	1354	(A)	A	11/7/03	1640										
-03C 2																
-03C 3																
-04B 1	11-05-03	10:00	CMP	A	11-06-03	9:30										
-04B 2	11-06-03	9:30	CMP	A	11-07-03	9:00										
-04B 3																
-04C 1	11/7/03	1354	(A)	A	11/7/03	1640										
-04C 2																
-04C 3																
-05B 1	11-05-03	10:00	CMP	A	11-06-03	9:30										
-05B 2	11-06-03	9:30	CMP	A	11-07-03	9:00										
-05B 3																
-05C 1	11/7/03	1354	(A)	A	11/7/03	1640										
-05C 2																
-05C 3																
-06B 1	11-05-03	10:00	CMP	A	11-06-03	9:30										
-06B 2	11-06-03	9:30	CMP	A	11-07-03	9:00										
-06B 3																
-06C 1	11/7/03	1354	(A)	A	11/7/03	1640										
-06C 2																
-06C 3																
-07B 1	11-05-03	10:00	CMP	A	11-06-03	9:30										
-07B 2	11-06-03	9:30	CMP	A	11-07-03	9:00										

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

Buck Environmental Lab, Inc.

Ref # 07

BEL Job # 0310297

Internal Chain of Custody

Dept: MSVOA

ClientID: BLASLAND

Relinquished By Parula Brown

Date: 10/31/03

Testing: SLCOASPL MMECHL

Received By: University M. Pinc

Date: 11-05-03

Testing: _____

BEL Sample ID	Sample Removal And Return Tracking																							
	Removed				Returned				Removed				Returned				Removed				Returned			
	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time						
-07B	3																							
-07C	1	11/7/03	1354	(D)	A	11/7/03	1640																	
-07C	2																							
-07C	3																							
-08B	1	11-05-03	10:00	UMP	A	11-06-03	9:30																	
-08B	2	11-05-03	9:30	UMP	A	11-07-03	4:00																	
-08B	3																							
-08C	1	11/7/03	1354	(D)	A	11/7/03	1640																	
-08C	2																							
-08C	3																							
-09A	1	11-05-03	10:00	UMP	A	11-06-03	9:30																	
-09A	2																							
-09A	3																							
-09B	1	11/7/03	1354	(D)	A	11/7/03	1640																	
-09B	2																							
-09B	3																							

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

Buck Environmental Labs, Inc.

Sample Receipt Checklist

Client Name BLASLAND

Date and Time Receive

11/04/03

Work Order Number 0311022

Received by: PB

Checklist completed by Parula Davis 11/4/03
Signature Date

Reviewed by SAS 11/4/03
Initials Date

Matrix:

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No
- No VCA vials submitted
- Water - pH acceptable upon receipt? Yes No

Adjusted? _____ Checked by _____

SampleID	ClientSampleID	TagNo
01A	MW-25S	
01B	MW-25S	
01C	MW-25S	
02A	MW-17R	
02B	MW-17R	
02C	MW-17R	
03A	TB-5	
03B	TB-5	

Any No and/or NA (not applicable) response must be detailed in the comments section be

Sample Custodies Tracked on the Following Internal Chains:

Dept:	Area	By	On
MSSEM	Ref 02	SAS	11/4/03
MSVOA	Ref 07	SAS	11/4/03

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Buck Environmental Lab, Inc.
Internal Chain of Custody

Ref # 07

BEL Job # 0311022

Dept: MSVOA

ClientID: BLASLAND

Relinquished By Camilla Brown

Date: 11/4/03

Testing: 8260ASPL, M-ME04C

Received By: Christy M. Lewis

Date: 11-06-03

Testing: _____

BEL Sample ID		Sample Removal And Return Tracking																	
		Removed				Returned		Removed				Returned		Removed				Returned	
		Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time
-01B	1	11-06-03	9:30	CMP	A	11-07-03	9:00												
-01B	2																		
-01B	3																		
-01C	1	11/7/03	1354	D	A	11/7/03	1640												
-01C	2																		
-01C	3																		
-02B	1	11-06-03	9:30	CMP	A	11-07-03	9:00												
-02B	2																		
-02B	3																		
-02C	1	11/7/03	1354	D	A	11/7/03	1640												
-02C	2																		
-02C	3																		
-03A	1	11-06-03	9:30	CMP	A	11-07-03	9:00												
-03A	2																		
-03A	3																		
-03B	1	11/7/03	1354	D	A	11/7/03	1640												
-03B	2																		
-03B	3																		

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

