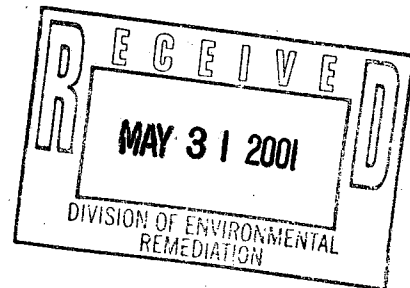


report. 401040, 2001-05-31.

PDI - Soil - GW - Invest -
Data - Vol 1

Exhibit I
Analytical Data for
Pre-Design Soil and
Additional Groundwater
Investigation

Volume I of III



Niagara Mohawk Power Corporation
North Albany Service Center
Albany, New York

May 2001

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

DATA REVIEW FOR

NMPC
NORTH ALBANY

SDG# L64299

VOLATILE, SEMIVOLATILE
AND CYANIDE ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:



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

Summary

The following is an assessment of the data package for SDG# L64299 for sampling at the NMPC- North Albany 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				
				VOA	BNA	PCB	MET	CN
SB-145 (2-4') ¹	L64299-1	soil	10/10/00	x	x			x
MW-27D(2-4')	L64299-4	soil	10/10/00	x	x			x
SB-145 (20-22')	L64299-5	soil	10/10/00	x	x			x
SB-DUP-1	L64299-9	soil	10/10/00	x	x			x
MW-28D(0-2')	L64388-1	soil	10/11/00	x	x			x
SB-139 (18-19.3') ²	L64388-2	soil	10/11/00	x	x			x
MW-26S(6-8')	L64388-5	soil	10/11/00	x	x			x
SB-140 (8-10')	L64388-6	soil	10/12/00	x	x			x
SB-140 (18-18.8')	L64388-7	soil	10/12/00	x	x			x
SB-DUP-2	L64388-8	soil	10/12/00		x			x
MW-27D(16-18')	L64426-1	soil	10/13/00	x	x			x
MW-27D(22-22.2)	L64426-2	soil	10/13/00	x				
RB-1 RINSE BLANK	L64541-1	water	10/13/00	x	x			x
MW-28D(16-18')	L64541-2	soil	10/13/00	x	x			x
MW-26D(14-16')	L64541-3	soil	10/13/00	x	x			x
TRIP BLANK	L64541-5	water	10/13/00	x				
SB-142 (12-14')	L64595-1	soil	10/18/00	x	x			x
SB-142 (16-18')	L64595-2	soil	10/18/00	x	x			x
SB-143 (10-12')	L64595-3	soil	10/18/00	x	x			x
SB-143 (16-18')	L64595-4	soil	10/18/00	x	x			x

1 BTEX MS/MSD analysis performed on sample.

2 PAH and CN MS/MSD analysis performed on sample.

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260 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 tests, 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 NYSASP is 10 days from sample receipt. The technical holding time for soils is 14 days from sample collection.

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

No target compounds were detected in the method or rinse 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 percent relative standard deviation (%RSD) limits for select compounds only and allows two outliers. A technical review of the data applies limits 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

The method specifies percent drift (%D) criteria for select compounds only. A technical review applies limits to all compounds with no exceptions.

All continuing calibration standards were acceptable.

5. Surrogates / System Monitoring Compounds

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

All the 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 response for one or more of the internal standards was below established limits in samples SB-145(2-4'), SB-145(2-4')MS, SB-145(2-4')MSD and SB-142(16-18'). Data for all compounds quantitated under the non-compliant standards have been qualified as estimated based on the deviations.

7. Compound Identification

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

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

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

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicates

Results for the duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Alternate Sample Result	Duplicate Result	RPD
SB-145(2-4') / SB-DUP-1	benzene	16	3500	2600	29.5%
	toluene	2J	1800	1500	18.2%
	ethyl benzene	4J	9000	7200	22.2%
	xylene (total)	4J	5200	4100	23.7%

The sample and the corresponding field duplicate were listed as SB-145(2-4') and SB-DUP-1. Review of the results and raw data suggest that sample SB-145(2-4') may have been switched with sample SB-145(20-22') either in the laboratory or in field. The duplicate results, based on the assumed switched samples, are within acceptable limits.

Since samples SB-145(2-4') and SB-145(20-22') may have been switched, all data for both samples have been qualified as estimated.

11. General Comments

The temperature of the samples collected on 10/11, 10/13 and 10/18/00 were above the specified limits when received at the laboratory (13.8, 9.3 and 11.4°C, respectively). No data have been qualified based on the temperature excursions; however, the end-user should be aware that some loss of volatile compounds may have occurred.

All medium level analyses were performed at elevated rather than the method-specified ambient temperatures. All medium level data have been qualified as estimated based on the method non-compliance.

12. 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 Checksheets

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?	<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> </u>	<u> X </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 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>
Was one or more of the 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> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<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> 8 </u>			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
<u> 0 </u> out of <u> 4 </u>			
<u>Blanks</u>			
Is a 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> X </u>	<u> </u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 2

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

Volatile 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> </u>	<u> </u>	<u> X </u>
Do the TIC and "best match" spectrum agree within 20%?	<u> </u>	<u> </u>	<u> X </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 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 RRFs equal to or greater than minimum requirements?	<u> X </u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting the RRFs or RSDs?	<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>

Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
<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*		
		TOL	BFB	DCE	DFB	CBZ	DCB
RB-1 RINSE BLANK							
TRIP BLANK							
SB-145 (2-4')						I	I
SB-145 (2-4')MS						I	I
SB-145 (2-4')MSD						I	I
SB-140 (8-10')							
MW-27D(16-18')							
MW-28D(16-18')							
SB-142 (12-14')							
SB-143 (10-12')							
SB-143 (16-18')							
SB-142 (16-18')							I
MW-27D(2-4')							
SB-145 (20-22')							
SB-DUP-1							
MW-28D(0-2')							
SB-139 (18-19.3')							
MW-26S(6-8')							
SB-140 (18-18.8')							
MW-27D(22-22.2)							
SB-140 (18-18.8')DL							
MW-26D(14-16')							
SB-143 (16-18')DL							
SB-142 (16-18')DL							
SB-143 (10-12')DL							

Surrogates:

TOL Toluene-d8
 BFB Bromofluorobenzene
 DCE 1,4-Dichloroethane-d4

Internal Standards:

DFB 1,4-Difluorobenzene
 DCB 1,4-Dichlorobenzene-d4
 CBZ Chlorobenzene-d5

Qualifiers:

D Diluted
 I Recovery high
 L Recovery low
 LL Recovery <25%

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

Volatile Calibration Outliers

Instrument: MSC

Matrix: soil

Level: low

Date/Time	8/22/00		10/18/00 11:05		10/19/00 9:41					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
benzene										
toluene										
ethyl benzene										
xylene (total)										
Affected Samples										

Volatile Calibration Outliers - Page 2

Instrument: MSB

Matrix: soil

Level: low

Date/Time	10/18/00		10/19/00 15:49		10/20/00 10:39					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
benzene										
toluene										
ethyl benzene										
xylene (total)										
Affected Samples										

Corrected Sample Analysis Data Sheets

1A
VOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-26D(14-16')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64541-3

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101812

Level: (low/med) MED

Date Received: 10/18/00

%Moisture: not dec. 9

Date Analyzed: 10/18/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	690	U
108-88-3-----Toluene	690	U
100-41-4-----Ethylbenzene	350	J
1330-20-7-----Xylene (total)	580	J

1A
VOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-26S (6-8')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64388-5

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101308

Level: (low/med) MED

Date Received: 10/13/00

%Moisture: not dec. 18

Date Analyzed: 10/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	760	85
108-88-3-----Toluene	760	85
100-41-4-----Ethylbenzene	7600	85
1330-20-7-----Xylene (total)	4800	85

1A
VOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-27D (2-4')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64299-4

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101110

Level: (low/med) MED

Date Received: 10/11/00

%Moisture: not dec. 12

Date Analyzed: 10/11/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	4400	56619
108-88-3-----Toluene	5000	
100-41-4-----Ethylbenzene	2000	
1330-20-7-----Xylene (total)	11000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-27D(16-18)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64426-1

Sample wt/vol: 1 (g/mL) g

Lab File ID: CD101610

Level: (low/med) LOW

Date Received: 10/14/00

%Moisture: not dec. 12

Date Analyzed: 10/16/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	6	J
108-88-3-----Toluene	6	J
100-41-4-----Ethylbenzene	150	
1330-20-7-----Xylene (total)	91	

1A
VOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-27D(22-22-2)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64426-2

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101607

Level: (low/med) MED

Date Received: 10/14/00

%Moisture: not dec. 6

Date Analyzed: 10/16/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	200	J
108-88-3-----Toluene	660	J
100-41-4-----Ethylbenzene	940	J
1330-20-7-----Xylene (total)	350	J

1A
VOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-28D (0-2')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64388-1

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101306

Level: (low/med) MED

Date Received: 10/13/00

%Moisture: not dec. 12

Date Analyzed: 10/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	390	J
108-88-3-----Toluene	150	J
100-41-4-----Ethylbenzene	710	JS
1330-20-7-----Xylene (total)	710	JS

1A
VOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-28D(16-18')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64541-2

Sample wt/vol: 1 (g/mL) g

Lab File ID: CD101908

Level: (low/med) LOW

Date Received: 10/18/00

%Moisture: not dec. 14

Date Analyzed: 10/19/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	11	J
108-88-3-----Toluene	22	J
100-41-4-----Ethylbenzene	110	
1330-20-7-----Xylene (total)	76	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

RB-1 RINSE BLANK

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Water

Lab Sample ID: L64541-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD101808

Level: (low/med) LOW

Date Received: 10/18/00

%Moisture: not dec.

Date Analyzed: 10/18/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

71-43-2-----Benzene	5	U
108-88-3-----Toluene	5	U
100-41-4-----Ethylbenzene	5	U
1330-20-7-----Xylene (total)	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-139 (18-19.3
)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64388-2

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101307

Level: (low/med) MED

Date Received: 10/13/00

%Moisture: not dec. 5

Date Analyzed: 10/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	2200	J 4 5
108-88-3-----Toluene	320	
100-41-4-----Ethylbenzene	18000	
1330-20-7-----Xylene (total)	11000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-140 (18-18.8
')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64388-7

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101309

Level: (low/med) MED

Date Received: 10/13/00

%Moisture: not dec. 6

Date Analyzed: 10/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	8100	55 4 DT
108-88-3-----Toluene	16000	
100-41-4-----Ethylbenzene	31000	
1330-20-7-----Xylene (total)	27000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-140 (18-18.8
) DL

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64388-7DL

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101608

Level: (low/med) MED

Date Received: 10/13/00

%Moisture: not dec. 6

Date Analyzed: 10/16/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 2

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	8300	D
108-88-3-----Toluene	17000	D
100-41-4-----Ethylbenzene	31000	D
1330-20-7-----Xylene (total)	26000	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-140 (8-10)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64388-6

Sample wt/vol: 5 (g/mL) g

Lab File ID: CD101305

Level: (low/med) LOW

Date Received: 10/13/00

%Moisture: not dec. 11

Date Analyzed: 10/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	6	U
108-88-3-----Toluene	5	J
100-41-4-----Ethylbenzene	6	U
1330-20-7-----Xylene (total)	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-142 (12-14)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64595-1

Sample wt/vol: 2 (g/mL) g

Lab File ID: BE101911

Level: (low/med) LOW

Date Received: 10/19/00

%Moisture: not dec. 16

Date Analyzed: 10/19/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 2.5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	20	U
108-88-3-----Toluene	15	
100-41-4-----Ethylbenzene	100	
1330-20-7-----Xylene (total)	38	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-142 (16-18')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64595-2

Sample wt/vol: 1 (g/mL) g

Lab File ID: BE102007

Level: (low/med) LOW

Date Received: 10/19/00

%Moisture: not dec. 8

Date Analyzed: 10/20/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	610	
108-88-3-----Toluene	27	
100-41-4-----Ethylbenzene	~~1200~~ 4000	☒
1330-20-7-----Xylene (total)	340	

15
9/15

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-142(16-18)
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64595-2DL

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102010

Level: (low/med) MED

Date Received: 10/19/00

%Moisture: not dec. 8

Date Analyzed: 10/20/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	450	JD
108-88-3-----Toluene	680	U D
100-41-4-----Ethylbenzene	4000	D
1330-20-7-----Xylene (total)	1000	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-143 (10-12)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64595-3

Sample wt/vol: 1 (g/mL) g

Lab File ID: BE101913

Level: (low/med) LOW

Date Received: 10/19/00

%Moisture: not dec. 33

Date Analyzed: 10/20/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	6300	E
108-88-3-----Toluene	3900	E
100-41-4-----Ethylbenzene	7300	E
1330-20-7-----Xylene (total)	11000	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-143 (10-12')
DL

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64595-3DL

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102011

Level: (low/med) MED

Date Received: 10/19/00

%Moisture: not dec. 33

Date Analyzed: 10/20/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 4

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 25 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	30000	D
108-88-3-----Toluene	22000	D
100-41-4-----Ethylbenzene	97000	D
1330-20-7-----Xylene (total)	110000	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-143 (16-18')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64595-4

Sample wt/vol: 1 (g/mL) g

Lab File ID: BE101914

Level: (low/med) LOW

Date Received: 10/19/00

%Moisture: not dec. 14

Date Analyzed: 10/20/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

71-43-2-----Benzene	4100	E
108-88-3-----Toluene	3000	E
100-41-4-----Ethylbenzene	3000	E
1330-20-7-----Xylene (total)	6300	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-143(16-18)
DL

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64595-4DL

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102009

Level: (low/med) MED

Date Received: 10/19/00

%Moisture: not dec. 14

Date Analyzed: 10/20/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	3600	DS
108-88-3-----Toluene	3700	DS
100-41-4-----Ethylbenzene	5600	DS
1330-20-7-----Xylene (total)	14000	DS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-145 (2-4')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64299-1

Sample wt/vol: 5 (g/mL) g

Lab File ID: CD101107

Level: (low/med) LOW

Date Received: 10/11/00

%Moisture: not dec. 9

Date Analyzed: 10/11/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

71-43-2-----	Benzene	16		
108-88-3-----	Toluene	2	J	J
100-41-4-----	Ethylbenzene	4	J	J
1330-20-7-----	Xylene (total)	4	J	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-145 (20-22)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64299-5

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101111

Level: (low/med) MED

Date Received: 10/11/00

%Moisture: not dec. 18

Date Analyzed: 10/11/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	3500	4444
108-88-3-----Toluene	1800	
100-41-4-----Ethylbenzene	9000	
1330-20-7-----Xylene (total)	5200	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-DUP-1

SB-145 (20-22)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Soil

Lab Sample ID: L64299-9

Sample wt/vol: 4 (g/mL) g

Lab File ID: CD101112

Level: (low/med) MED

Date Received: 10/11/00

%Moisture: not dec. 12

Date Analyzed: 10/11/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	2600	4900
108-88-3-----Toluene	1500	
100-41-4-----Ethylbenzene	7200	
1330-20-7-----Xylene (total)	4100	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) Water

Lab Sample ID: L64541-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD101809

Level: (low/med) LOW

Date Received: 10/18/00

%Moisture: not dec.

Date Analyzed: 10/18/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

71-43-2-----Benzene	5	U
108-88-3-----Toluene	5	U
100-41-4-----Ethylbenzene	5	U
1330-20-7-----Xylene (total)	5	U

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270 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 tests, 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 method specified holding times for semivolatile analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 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, and rinse blanks) are prepared to identify any contamination which may have been introduced in to 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 or rinse 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 percent relative standard deviation (%RSD) limits for select compounds only and allows four outliers. A technical review of the data applies limits 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 acceptable, with the following exception:

Instrument MSE 10/12/00 10:21

Pyrene 54.2%

Pyrene data for the associated samples MW-26S(6-8)DL, SB-140(18-18.8)DL, SB-DUP-2DL, MW-28D(0-2)DL, SB-139(18-19.3)DL and MW-27D(16-18)DL have been qualified as estimated based on the %D.

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.

Recoveries for two surrogates were below control limits in samples SB139(18-19.3') and SB139(18-19.3')MS. All data for these samples have been qualified as estimated based on the recoveries. Recovery for one surrogate was above control limits in samples SB-140(18-18.8'), SB-DUP-2, MW-27D(16-18'), MW-27D(16-18')DL, SB-143(10-12') and SB-143(16-18'). Since the recoveries for all remaining surrogates were within control limits, no data have been qualified based on the deviations. 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 responses for one or more of the internal standards were below established limits in samples SB-145(20-22'), SB-DUP-1, SB-145(2-4'), MW-27D(2-4'), MW-26S(6-8'), SB-140(18-18.8'), SB-DUP-2, SB-139(18-19.3'), SB-139(18-19.3')MS, SB-139(18-19.3')MSD, MW-28D(0-2'), MW-27D(16-18'), SB-140(18-18.3')DL, SB-143(10-12') and SB-143(16-18') and the response for one internal standard was above established limits in samples SB-145(20-22), SB-DUP-2, SB-139(18-19.3), SB-139(18-19.3)MS, SB-139(18-19.3)MSD, MW-26S(6-8) and SB-140(18-18.8). Data for all compounds quantitated under the low standards and data for all positive compounds quantitated under the high standards have been qualified as estimated based on the deviations.

7. Compound Identification

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

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike, matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

Matrix spike recoveries could not be accurately calculated due to interference from the relatively high concentration of target compounds present in the unspiked sample.

9. Matrix Spike Blank

The recovery for one compound was below control limits in two of the four matrix spike blank soil samples. All water matrix spike blank recoveries were within control limits. No data have been qualified based on matrix spike blank performance alone.

10. Field Duplicate

The field duplicate results are as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SB-145(2-4') / SB-DUP-1	Naphthalene	970J	980J	1.0%
	Acenaphthalene	20000	21000	4.9%
	Acenaphthene	3900	3600J	8.0%
	Fluorene	3500J	3400J	2.9%
	Phenanthrene	15000	16000	6.5%
	Anthracene	7800	8600	9.8%
	Fluoranthene	33000J	31000J	6.3%
	Pyrene	120000	99000	19.2%
	Benzo(a)anthracene	20000	17000	16.2%
	Chrysene	23000	18000	24.4%
	Benzo(b)fluoranthene	54000	50000	7.7%
	Benzo(k)fluoranthene	7600	5800	26.9%
	Benzo(a)pyrene	70000	65000	7.4%
	Indeno(1,2,3-cd)pyrene	27000	22000J	20.4%
	Dibenzo(a,h)anthracene	7200	5500	26.8%
	Benzo(g,h,i)perylene	59000	49000	18.5%

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-26S(6-8') / SB-DUP-2	Naphthalene	58000	48000	19.0%
	Acenaphthalene	ND	730	NA
	Acenaphthene	15000J	14000J	6.9%
	Fluorene	7000J	8100J	15.4%
	Phenanthrene	16000J	16000J	0.0%
	Anthracene	4700	4400	6.6%
	Fluoranthene	3700	3300	11.4%
	Pyrene	15000	14000	6.9%
	Benzo(a)anthracene	1500	1600	6.5%
	Chrysene	1400	1600	13.3%
	Benzo(b)fluoranthene	1200	1400	15.4%
	Benzo(k)fluoranthene	420	490	15.4%
	Benzo(a)pyrene	1800	1800	0.0%
	Indeno(1,2,3-cd)pyrene	800	920	14.0%
	Dibenzo(a,h)anthracene	160J	160J	0.0%
	Benzo(g,h,i)perylene	1200	1200	0.0%

ND Not detected.

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

The field duplicate results are acceptable.

11. General Comments

The temperature of the samples collected on 10/11, 10/13 and 10/18/00 were above the specified limits when received at the laboratory (13.8, 9.3 and 11.4^oC, respectively). No data have been qualified based on the temperature excursions.

12. 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 Checksheets

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> </u>	<u> X </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> X </u>	<u> </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 base-neutral or acid surrogate recoveries outside of specified limits for any sample or blank?	<u> X </u>	<u> </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> X </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<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> NA </u> out of <u> NA </u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u> NA </u> out of <u> NA </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 blanks have positive results?	<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?	<u> </u>	<u> X </u>	<u> </u>
Are there field/rinse blanks associated with every sample?	<u> X </u>	<u> </u>	<u> </u>
<u>Tuning and Mass Calibration</u>			
Are the GC/MS tuning forms present for DFTPP?	<u> X </u>	<u> </u>	<u> </u>
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	<u> X </u>	<u> </u>	<u> </u>
Has a DFTPP been analyzed for each twelve hours of analysis per instrument?	<u> X </u>	<u> </u>	<u> </u>
Have the ion abundance criteria been met for each instrument used?	<u> X </u>	<u> </u>	<u> </u>
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	<u> X </u>	<u> </u>	<u> </u>
Matrix spikes	<u> X </u>	<u> </u>	<u> </u>
Blanks	<u> X </u>	<u> </u>	<u> </u>
Are the reconstructed ion chromatograms present for each of the following:			
Samples	<u> X </u>	<u> </u>	<u> </u>
Matrix spikes	<u> X </u>	<u> </u>	<u> </u>
Blanks	<u> X </u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable?	<u> X </u>	<u> </u>	<u> </u>
Are the mass spectra of the identified compounds present?	<u> X </u>	<u> </u>	<u> </u>
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	<u> X </u>	<u> </u>	<u> </u>
Do the samples and standard relative ion intensities agree within 20%?	<u> X </u>	<u> </u>	<u> </u>
<u>Tentatively Identified Compounds</u>			
Are all the TIC summary forms present?	<u> </u>	<u> </u>	<u> X </u>
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	<u> </u>	<u> </u>	<u> X </u>
Are any target compounds listed as TICs?	<u> </u>	<u> </u>	<u> X </u>

Semivolatile Organics Data Validation Checklist - Page 3

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

Semivolatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
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>

Semivolatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		N B Z	F B P	T P H	D C B	P H L	2 F P	T B P	2 C P	D C B	N P T	A N T	P H N	C R Y	P R Y
SB-DUP-1DL						--	--	--	--						
SB-145(2-4')DL						--	--	--	--						
MW-27D(2-4')DL						--	--	--	--						
SB-145(20-22')						--	--	--	--		↑			↑	↑
SB-DUP-1						--	--	--	--					↑	
SB-145(2-4')						--	--	--	--					↑	
MW-27D(2-4')						--	--	--	--					↑	
SB-145(20-22')DL						--	--	--	--						
SB-140(8-10')						--	--	--	--						
MW-26S(6-8')						--	--	--	--		↑				↑
SB-140(18-18.8')				↑		--	--	--	--		↑				↑
SB-DUP-2				↑		--	--	--	--		↑			↑	↑
SB-139(18-19.3')		↑			↑	--	--	--	--		↑			↑	↑
SB-139(18-19.3')MS		↑			↑	--	--	--	--		↑			↑	↑
SB-139(18-19.3')MSD						--	--	--	--		↑			↑	↑
MW-28D(0-2')						--	--	--	--					↑	↑
MW-27D(16-18')				↑		--	--	--	--					↑	↑
MW-26S(6-8')DL						--	--	--	--						
SB-140(18-18.8')DL						--	--	--	--						↑
SB-DUP-2DL						--	--	--	--						
MW-28D(0-2')DL						--	--	--	--						
SB-139(18-19.3')DL						--	--	--	--						
MW-27D(16-18')						--	--	--	--						
MW-28D(16-18')						--	--	--	--						
MW-26D(14-16')						--	--	--	--						
MW-26D(14-16')DL						--	--	--	--						
SB-142(16-18')						--	--	--	--						
SB-142(12-14')						--	--	--	--						
SB-143(10-12')				↑		--	--	--	--						↑
SB-143(16-18')				↑		--	--	--	--						↑
SB-142(16-18')DL						--	--	--	--						

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		N B Z	F B P	T P H	D C B	P H L	2 F P	T B P	2 C P	D C B	N P T	A N T	P H N	C R Y	P R Y
SB-143(16-18')DL						--	--	--	--						
SB-142(12-14')DL						--	--	--	--						
SB-143(10-12')DL						--	--	--	--						
RB-1 RINSE BLANK						--	--	--	--						

Surrogates:

NBZ Nitrobenzene-d5
 FBP 2-Fluorobiphenyl
 TPH Terphenyl-d14
 DCB 1,2-Dichlorobenzene-d4
 PHL Phenol-d6
 2FP 2-Fluorophenol
 TBP 2,4,6-Tribromophenol
 2CP 2-Chlorophenol-d4

Internal Standards:

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

Qualifiers:

D Diluted
 l Recovery low
 h Recovery high
 na not applicable

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

Semivolatile Calibration Outliers

Instrument: MS E

Date/Time	9/11/00		10/16/00 13:47		10/17/00 13:35		10/19/00 10:21			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Naphthalene										
Acenaphthylene										
Acenaphthene										
Fluorene										
Phenanthrene										
Anthracene										
Fluoranthene										
Pyrene								54.2		
Benzo(a)anthracene										
Chrysene										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:							mw26s(6-8)dl			
							sb140(18-18.8)dl			
							sbdup2dl			
							mw28d(0-2)dl			
							sb139(18-19.3)dl			
							mw27d(16-18)dl			

Semivolatlie Calibration Outliers - Page 2

Instrument: MS E

Date/Time	10/24/00		10/24/00 16:41		10/25/00 8:25		10/26/00 9:11		10/27/00 8:30	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Naphthalene										
Acenaphthylene										
Acenaphthene										
Fluorene										
Phenanthrene										
Anthracene										
Fluoranthene										
Pyrene										
Benzo(a)anthracene										
Chrysene										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:										

Corrected Sample Analysis Data Sheets

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-26D(14-16)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64541-3

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED102417

Level: (low/med) LOW

Date Received: 10/18/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/19/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	3500	J
208-96-8-----	Acenaphthylene	120	J
83-32-9-----	Acenaphthene	68	J
86-73-7-----	Fluorene	94	J
85-01-8-----	Phenanthrene	200	J
120-12-7-----	Anthracene	43	J
206-44-0-----	Fluoranthene	67	J
129-00-0-----	Pyrene	100	J
56-55-3-----	Benzo(a)anthracene	37	J
218-01-9-----	Chrysene	370	U
205-99-2-----	Benzo(b)fluoranthene	370	U
207-08-9-----	Benzo(k)fluoranthene	370	U
50-32-8-----	Benzo(a)pyrene	38	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	370	U
53-70-3-----	Dibenzo(a,h)anthracene	370	U
191-24-2-----	Benzo(g,h,i)perylene	370	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-26D(14-16')
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64541-3DL

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED102503

Level: (low/med) LOW

Date Received: 10/18/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/19/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

91-20-3-----	Naphthalene	3500	D
208-96-8-----	Acenaphthylene	120	JD
83-32-9-----	Acenaphthene	730	U D
86-73-7-----	Fluorene	86	JD
85-01-8-----	Phenanthrene	210	JD
120-12-7-----	Anthracene	730	U D
206-44-0-----	Fluoranthene	75	JD
129-00-0-----	Pyrene	110	JD
56-55-3-----	Benzo (a) anthracene	730	U D
218-01-9-----	Chrysene	730	U D
205-99-2-----	Benzo (b) fluoranthene	730	U D
207-08-9-----	Benzo (k) fluoranthene	730	U D
50-32-8-----	Benzo (a) pyrene	730	U D
193-39-5-----	Indeno (1,2,3-cd) pyrene	730	U D
53-70-3-----	Dibenzo (a,h) anthracene	730	U D
191-24-2-----	Benzo (g,h,i) perylene	730	U D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-26S (6-8)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-5

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: ED101707

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

91-20-3-----	Naphthalene	98000	58000	E D
208-96-8-----	Acenaphthylene	400		U
83-32-9-----	Acenaphthene	33000	15000	E
86-73-7-----	Fluorene	10000	7000	E
85-01-8-----	Phenanthrene	25000	6000	E
120-12-7-----	Anthracene	4700		E
206-44-0-----	Fluoranthene	3700		E
129-00-0-----	Pyrene	15000		E
56-55-3-----	Benzo (a) anthracene	1500		
218-01-9-----	Chrysene	1400		
205-99-2-----	Benzo (b) fluoranthene	1200		
207-08-9-----	Benzo (k) fluoranthene	420		
50-32-8-----	Benzo (a) pyrene	1800		
193-39-5-----	Indeno (1,2,3-cd) pyrene	800		
53-70-3-----	Dibenzo (a,h) anthracene	160		
191-24-2-----	Benzo (g,h,i) perylene	1200		

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-26S (6-8') D
L

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-5DL

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: ED101903

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/19/00

Injection Volume: 2.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
91-20-3	Naphthalene	58000	D
208-96-8	Acenaphthylene	20000	U D
83-32-9	Acenaphthene	15000	JD
86-73-7	Fluorene	7000	JD
85-01-8	Phenanthrene	16000	JD
120-12-7	Anthracene	3700	JD
206-44-0	Fluoranthene	4200	JD
129-00-0	Pyrene	7800	JD
56-55-3	Benzo (a) anthracene	20000	U D
218-01-9	Chrysene	20000	U D
205-99-2	Benzo (b) fluoranthene	20000	U D
207-08-9	Benzo (k) fluoranthene	20000	U D
50-32-8	Benzo (a) pyrene	20000	U D
193-39-5	Indeno (1,2,3-cd) pyrene	20000	U D
53-70-3	Dibenzo (a,h) anthracene	20000	U D
191-24-2	Benzo (g,h,i) perylene	20000	U D

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-27D (2-4')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64299-4

Sample wt/vol: 31.6 (g/mL) g

Lab File ID: ED101619

Level: (low/med) LOW

Date Received: 10/11/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/13/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	54000	53000	ED
208-96-8-----	Acenaphthylene	51000	65000	ED
83-32-9-----	Acenaphthene	240000	110000	ED
86-73-7-----	Fluorene	97000	57000	ED
85-01-8-----	Phenanthrene	260000	140000	ED
120-12-7-----	Anthracene	91000	54000	ED
206-44-0-----	Fluoranthene	90000	94000	ED
129-00-0-----	Pyrene	400000	230000	ED
56-55-3-----	Benzo (a) anthracene	39000	47000	ED
218-01-9-----	Chrysene	39000	54000	ED
205-99-2-----	Benzo (b) fluoranthene	48000	58000	ED
207-08-9-----	Benzo (k) fluoranthene	10000		
50-32-8-----	Benzo (a) pyrene	73000	79000	ED
193-39-5-----	Indeno (1,2,3-cd) pyrene	43000	40000	ED
53-70-3-----	Dibenzo (a,h) anthracene	9500		
191-24-2-----	Benzo (g,h,i) perylene	57000	52000	ED

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-27D (2-4') D
L

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64299-4DL

Sample wt/vol: 31.6 (g/mL) g

Lab File ID: ED101615

Level: (low/med) LOW

Date Received: 10/11/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/13/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	53000	D
208-96-8-----	Acenaphthylene	65000	D
83-32-9-----	Acenaphthene	110000	D
86-73-7-----	Fluorene	57000	D
85-01-8-----	Phenanthrene	140000	D
120-12-7-----	Anthracene	54000	D
206-44-0-----	Fluoranthene	94000	D
129-00-0-----	Pyrene	230000	D
56-55-3-----	Benzo(a)anthracene	47000	D
218-01-9-----	Chrysene	54000	D
205-99-2-----	Benzo(b)fluoranthene	58000	D
207-08-9-----	Benzo(k)fluoranthene	20000	JD
50-32-8-----	Benzo(a)pyrene	79000	D
193-39-5-----	Indeno(1,2,3-cd)pyrene	40000	D
53-70-3-----	Dibenzo(a,h)anthracene	7800	JD
191-24-2-----	Benzo(g,h,i)perylene	52000	D

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-27D(16-18')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64426-1

Sample wt/vol: 31.6 (g/mL) g

Lab File ID: ED101714

Level: (low/med) LOW

Date Received: 10/14/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	20000	
208-96-8-----	Acenaphthylene	10000	
83-32-9-----	Acenaphthene	5700	
86-73-7-----	Fluorene	25000	
85-01-8-----	Phenanthrene	270000	5000 E
120-12-7-----	Anthracene	19000	
206-44-0-----	Fluoranthene	46000	76000 E
129-00-0-----	Pyrene	220000	240000 E
56-55-3-----	Benzo(a)anthracene	29000	46000 E
218-01-9-----	Chrysene	31000	44000 E
205-99-2-----	Benzo(b)fluoranthene	15000	
207-08-9-----	Benzo(k)fluoranthene	6100	
50-32-8-----	Benzo(a)pyrene	18000	
193-39-5-----	Indeno(1,2,3-cd)pyrene	12000	
53-70-3-----	Dibenzo(a,h)anthracene	2300	
191-24-2-----	Benzo(g,h,i)perylene	20000	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-27D(16-18')
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64426-1DL

Sample wt/vol: 31.6 (g/mL) g

Lab File ID: ED101908

Level: (low/med) LOW

Date Received: 10/14/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/19/00

Injection Volume: 2.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

91-20-3-----	Naphthalene	43000	JD
208-96-8-----	Acenaphthylene	17000	JD
83-32-9-----	Acenaphthene	9800	JD
86-73-7-----	Fluorene	41000	JD
85-01-8-----	Phenanthrene	190000	D
120-12-7-----	Anthracene	31000	JD
206-44-0-----	Fluoranthene	76000	D
129-00-0-----	Pyrene	240000	D
56-55-3-----	Benzo(a)anthracene	46000	JD
218-01-9-----	Chrysene	44000	JD
205-99-2-----	Benzo(b)fluoranthene	36000	JD
207-08-9-----	Benzo(k)fluoranthene	13000	JD
50-32-8-----	Benzo(a)pyrene	35000	JD
193-39-5-----	Indeno(1,2,3-cd)pyrene	18000	JD
53-70-3-----	Dibenzo(a,h)anthracene	72000	U D
191-24-2-----	Benzo(g,h,i)perylene	31000	JD

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-28D (0-2')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-1

Sample wt/vol: 30.6 (g/mL) g

Lab File ID: ED101713

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	28000	16000	E
208-96-8-----	Acenaphthylene	4300	5300	E
83-32-9-----	Acenaphthene	67000	29000	E
86-73-7-----	Fluorene	28000	16000	E
85-01-8-----	Phenanthrene	76000	52000	E
120-12-7-----	Anthracene	77000	17000	E
206-44-0-----	Fluoranthene	16000	24000	E
129-00-0-----	Pyrene	77000	43000	E
56-55-3-----	Benzo(a)anthracene	7800	10000	E
218-01-9-----	Chrysene	7200	9600	E
205-99-2-----	Benzo(b)fluoranthene	5500	10000	E
207-08-9-----	Benzo(k)fluoranthene	1200		E
50-32-8-----	Benzo(a)pyrene	8500	14000	E
193-39-5-----	Indeno(1,2,3-cd)pyrene	4300	4200	E
53-70-3-----	Dibenzo(a,h)anthracene	950		E
191-24-2-----	Benzo(g,h,i)perylene	6500	5800	E

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-28D (0-2') D
L

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-1DL

Sample wt/vol: 30.6 (g/mL) g

Lab File ID: ED101906

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/19/00

Injection Volume: 2.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND		
91-20-3-----	Naphthalene	16000	JD
208-96-8-----	Acenaphthylene	5300	JD
83-32-9-----	Acenaphthene	29000	D
86-73-7-----	Fluorene	16000	JD
85-01-8-----	Phenanthrene	52000	D
120-12-7-----	Anthracene	17000	JD
206-44-0-----	Fluoranthene	24000	D
129-00-0-----	Pyrene	43000	D
56-55-3-----	Benzo (a) anthracene	10000	JD
218-01-9-----	Chrysene	9600	JD
205-99-2-----	Benzo (b) fluoranthene	10000	JD
207-08-9-----	Benzo (k) fluoranthene	3500	JD
50-32-8-----	Benzo (a) pyrene	14000	JD
193-39-5-----	Indeno (1,2,3-cd) pyrene	4200	JD
53-70-3-----	Dibenzo (a,h) anthracene	18000	U D
191-24-2-----	Benzo (g,h,i) perylene	5800	JD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-28D(16-18')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64541-2

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED102416

Level: (low/med) LOW

Date Received: 10/18/00

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/19/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	420	
208-96-8-----	Acenaphthylene	47	J
83-32-9-----	Acenaphthene	52	J
86-73-7-----	Fluorene	390	U
85-01-8-----	Phenanthrene	72	J
120-12-7-----	Anthracene	390	U
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	390	U
56-55-3-----	Benzo (a) anthracene	390	U
218-01-9-----	Chrysene	390	U
205-99-2-----	Benzo (b) fluoranthene	390	U
207-08-9-----	Benzo (k) fluoranthene	390	U
50-32-8-----	Benzo (a) pyrene	390	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	390	U
53-70-3-----	Dibenzo (a,h) anthracene	390	U
191-24-2-----	Benzo (g,h,i) perylene	390	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-1 RINSE BLANK

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) WATER

Lab Sample ID: L64541-1

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: ED102411

Level: (low/med) LOW

Date Received: 10/18/00

% Moisture: decanted: (Y/N) N

Date Extracted: 10/20/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

91-20-3-----	Naphthalene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	10	U
86-73-7-----	Fluorene	10	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
56-55-3-----	Benzo (a) anthracene	10	U
218-01-9-----	Chrysene	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
50-32-8-----	Benzo (a) pyrene	10	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	10	U
53-70-3-----	Dibenzo (a,h) anthracene	10	U
191-24-2-----	Benzo (g,h,i) perylene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-139 (18-19.3
')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-2

Sample wt/vol: 31.5 (g/mL) g

Lab File ID: ED101710

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	190000	140000	E
208-96-8-----	Acenaphthylene	29000	17000	E
83-32-9-----	Acenaphthene	52000	24000	E
86-73-7-----	Fluorene	28000	15000	E
85-01-8-----	Phenanthrene	57000	44000	E
120-12-7-----	Anthracene	16000	15000	E
206-44-0-----	Fluoranthene	8900	15000	E
129-00-0-----	Pyrene	64000	28000	E
56-55-3-----	Benzo (a) anthracene	6500		E
218-01-9-----	Chrysene	5400		E
205-99-2-----	Benzo (b) fluoranthene	3200		E
207-08-9-----	Benzo (k) fluoranthene	910		E
50-32-8-----	Benzo (a) pyrene	5500		E
193-39-5-----	Indeno (1,2,3-cd) pyrene	2400		E
53-70-3-----	Dibenzo (a,h) anthracene	510		E
191-24-2-----	Benzo (g,h,i) perylene	3500		E

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-139 (18-19.3
) DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-2DL

Sample wt/vol: 31.5 (g/mL) g

Lab File ID: ED101907

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/19/00

Injection Volume: 2.0 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
91-20-3-----	Naphthalene	140000	D
208-96-8-----	Acenaphthylene	17000	JD
83-32-9-----	Acenaphthene	24000	JD
86-73-7-----	Fluorene	15000	JD
85-01-8-----	Phenanthrene	44000	D
120-12-7-----	Anthracene	15000	JD
206-44-0-----	Fluoranthene	15000	JD
129-00-0-----	Pyrene	28000	JD
56-55-3-----	Benzo (a) anthracene	7400	JD
218-01-9-----	Chrysene	7800	JD
205-99-2-----	Benzo (b) fluoranthene	33000	U D
207-08-9-----	Benzo (k) fluoranthene	33000	U D
50-32-8-----	Benzo (a) pyrene	8100	JD
193-39-5-----	Indeno (1,2,3-cd) pyrene	33000	U D
53-70-3-----	Dibenzo (a,h) anthracene	33000	U D
191-24-2-----	Benzo (g,h,i) perylene	33000	U D

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-140 (18-18.8
)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-7

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED101708

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	110000	48000	E
208-96-8-----	Acenaphthylene	3000		E
83-32-9-----	Acenaphthene	8100		E
86-73-7-----	Fluorene	5200		E
85-01-8-----	Phenanthrene	25000	6000	E
120-12-7-----	Anthracene	3400		E
206-44-0-----	Fluoranthene	3900		E
129-00-0-----	Pyrene	18000		E
56-55-3-----	Benzo (a) anthracene	2400		
218-01-9-----	Chrysene	2000		
205-99-2-----	Benzo (b) fluoranthene	1400		
207-08-9-----	Benzo (k) fluoranthene	520		
50-32-8-----	Benzo (a) pyrene	2100		
193-39-5-----	Indeno (1,2,3-cd) pyrene	690		
53-70-3-----	Dibenzo (a,h) anthracene	180		
191-24-2-----	Benzo (g,h,i) perylene	1100		

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-140 (18-18.8
') DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-7DL

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED101904

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/19/00

Injection Volume: 2.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	68000	D
208-96-8-----	Acenaphthylene	4700	JD
83-32-9-----	Acenaphthene	6500	JD
86-73-7-----	Fluorene	5100	JD
85-01-8-----	Phenanthrene	16000	JD
120-12-7-----	Anthracene	3600	JD
206-44-0-----	Fluoranthene	5600	JD
129-00-0-----	Pyrene	8500	JD
56-55-3-----	Benzo (a) anthracene	2500	JD
218-01-9-----	Chrysene	2500	JD
205-99-2-----	Benzo (b) fluoranthene	18000	U D
207-08-9-----	Benzo (k) fluoranthene	18000	U D
50-32-8-----	Benzo (a) pyrene	2900	JD
193-39-5-----	Indeno (1,2,3-cd) pyrene	18000	U D
53-70-3-----	Dibenzo (a,h) anthracene	18000	U D
191-24-2-----	Benzo (g,h,i) perylene	18000	U D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-140 (8-10)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-6

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED101706

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
91-20-3	Naphthalene	48	J
208-96-8	Acenaphthylene	370	U
83-32-9	Acenaphthene	370	U
86-73-7	Fluorene	370	U
85-01-8	Phenanthrene	39	J
120-12-7	Anthracene	370	U
206-44-0	Fluoranthene	88	J
129-00-0	Pyrene	140	J
56-55-3	Benzo (a) anthracene	370	U
218-01-9	Chrysene	370	U
205-99-2	Benzo (b) fluoranthene	370	U
207-08-9	Benzo (k) fluoranthene	370	U
50-32-8	Benzo (a) pyrene	370	U
193-39-5	Indeno (1,2,3-cd) pyrene	370	U
53-70-3	Dibenzo (a,h) anthracene	370	U
191-24-2	Benzo (g,h,i) perylene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-142 (12-14')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64595-1

Sample wt/vol: 30.9 (g/mL) g

Lab File ID: ED102621

Level: (low/med) LOW

Date Received: 10/19/00

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 10/24/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/26/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
91-20-3	Naphthalene	15000	9500
208-96-8	Acenaphthylene	800	
83-32-9	Acenaphthene	5200	4200
86-73-7	Fluorene	2700	
85-01-8	Phenanthrene	9500	7300
120-12-7	Anthracene	2000	
206-44-0	Fluoranthene	2800	
129-00-0	Pyrene	4700	3700
56-55-3	Benzo (a) anthracene	1200	
218-01-9	Chrysene	1000	
205-99-2	Benzo (b) fluoranthene	900	
207-08-9	Benzo (k) fluoranthene	360	J
50-32-8	Benzo (a) pyrene	1100	
193-39-5	Indeno (1,2,3-cd) pyrene	340	J
53-70-3	Dibenzo (a,h) anthracene	64	J
191-24-2	Benzo (g,h,i) perylene	440	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-142 (12-14)
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64595-1DL

Sample wt/vol: 30.9 (g/mL) g

Lab File ID: ED102709

Level: (low/med) LOW

Date Received: 10/19/00

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 10/24/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/27/00

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
91-20-3	Naphthalene	9500	D
208-96-8	Acenaphthylene	890	JD
83-32-9	Acenaphthene	4200	D
86-73-7	Fluorene	2600	D
85-01-8	Phenanthrene	7300	D
120-12-7	Anthracene	2000	D
206-44-0	Fluoranthene	2500	D
129-00-0	Pyrene	3700	D
56-55-3	Benzo (a) anthracene	1200	JD
218-01-9	Chrysene	1100	JD
205-99-2	Benzo (b) fluoranthene	890	JD
207-08-9	Benzo (k) fluoranthene	360	JD
50-32-8	Benzo (a) pyrene	1200	JD
193-39-5	Indeno (1,2,3-cd) pyrene	430	JD
53-70-3	Dibenzo (a,h) anthracene	1900	U D
191-24-2	Benzo (g,h,i) perylene	550	JD

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-142 (16-18')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64595-2

Sample wt/vol: 31.4 (g/mL) g

Lab File ID: ED102618

Level: (low/med) LOW

Date Received: 10/19/00

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 10/24/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/26/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

91-20-3	Naphthalene	39000	3000	E
208-96-8	Acenaphthylene	72		J
83-32-9	Acenaphthene	280		J
86-73-7	Fluorene	57		J
85-01-8	Phenanthrene	140		J
120-12-7	Anthracene	350		U
206-44-0	Fluoranthene	350		U
129-00-0	Pyrene	48		J
56-55-3	Benzo (a) anthracene	350		U
218-01-9	Chrysene	350		U
205-99-2	Benzo (b) fluoranthene	350		U
207-08-9	Benzo (k) fluoranthene	350		U
50-32-8	Benzo (a) pyrene	350		U
193-39-5	Indeno (1,2,3-cd) pyrene	350		U
53-70-3	Dibenzo (a,h) anthracene	350		U
191-24-2	Benzo (g,h,i) perylene	350		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-142(16-18')
DL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L64299

Matrix: (soil/water) SOIL Lab Sample ID: L64595-2DL

Sample wt/vol: 31.4 (g/mL) g Lab File ID: ED102707

Level: (low/med) LOW Date Received: 10/19/00

% Moisture: 8 decanted: (Y/N) N Date Extracted: 10/24/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/27/00

Injection Volume: 2.0 (uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
91-20-3-----	Naphthalene	31000	D
208-96-8-----	Acenaphthylene	8600	U D
83-32-9-----	Acenaphthene	8600	U D
86-73-7-----	Fluorene	8600	U D
85-01-8-----	Phenanthrene	8600	U D
120-12-7-----	Anthracene	8600	U D
206-44-0-----	Fluoranthene	8600	U D
129-00-0-----	Pyrene	8600	U D
56-55-3-----	Benzo(a)anthracene	8600	U D
218-01-9-----	Chrysene	8600	U D
205-99-2-----	Benzo(b)fluoranthene	8600	U D
207-08-9-----	Benzo(k)fluoranthene	8600	U D
50-32-8-----	Benzo(a)pyrene	8600	U D
193-39-5-----	Indeno(1,2,3-cd)pyrene	8600	U D
53-70-3-----	Dibenzo(a,h)anthracene	8600	U D
191-24-2-----	Benzo(g,h,i)perylene	8600	U D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-143 (10-12')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64595-3

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED102622

Level: (low/med) LOW

Date Received: 10/19/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 10/24/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/26/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

91-20-3-----	Naphthalene	1000000	820000	E
208-96-8-----	Acenaphthylene	44000		E
83-32-9-----	Acenaphthene	210000	200000	E
86-73-7-----	Fluorene	170000	150000	E
85-01-8-----	Phenanthrene	610000	550000	E
120-12-7-----	Anthracene	130000	140000	E
206-44-0-----	Fluoranthene	270000	300000	E
129-00-0-----	Pyrene	480000	280000	E
56-55-3-----	Benzo(a)anthracene	110000	100000	E
218-01-9-----	Chrysene	76000		E
205-99-2-----	Benzo(b)fluoranthene	99000		E
207-08-9-----	Benzo(k)fluoranthene	25000		E
50-32-8-----	Benzo(a)pyrene	88000	110000	E
193-39-5-----	Indeno(1,2,3-cd)pyrene	32000		E
53-70-3-----	Dibenzo(a,h)anthracene	8300		E
191-24-2-----	Benzo(g,h,i)perylene	42000		E

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-143(10-12')
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64595-3DL

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED102710

Level: (low/med) LOW

Date Received: 10/19/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 10/24/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/27/00

Injection Volume: 2.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND		
91-20-3-----	Naphthalene	820000	D
208-96-8-----	Acenaphthylene	66000	JD
83-32-9-----	Acenaphthene	200000	JD
86-73-7-----	Fluorene	150000	JD
85-01-8-----	Phenanthrene	550000	D
120-12-7-----	Anthracene	140000	JD
206-44-0-----	Fluoranthene	300000	D
129-00-0-----	Pyrene	280000	D
56-55-3-----	Benzo(a)anthracene	100000	JD
218-01-9-----	Chrysene	99000	JD
205-99-2-----	Benzo(b)fluoranthene	94000	JD
207-08-9-----	Benzo(k)fluoranthene	38000	JD
50-32-8-----	Benzo(a)pyrene	110000	JD
193-39-5-----	Indeno(1,2,3-cd)pyrene	42000	JD
53-70-3-----	Dibenzo(a,h)anthracene	250000	U D
191-24-2-----	Benzo(g,h,i)perylene	51000	JD

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-143 (16-18')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64595-4

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: ED102623

Level: (low/med) LOW

Date Received: 10/19/00

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/24/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/26/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	~~160000~~ 140000	E
208-96-8-----	Acenaphthylene	7100	E
83-32-9-----	Acenaphthene	7700	E
86-73-7-----	Fluorene	15000	E
85-01-8-----	Phenanthrene	35000	E
120-12-7-----	Anthracene	8400	E
206-44-0-----	Fluoranthene	~~14000~~ 12000	E
129-00-0-----	Pyrene	~~33000~~ 17000	E
56-55-3-----	Benzo (a) anthracene	6100	E
218-01-9-----	Chrysene	4100	E
205-99-2-----	Benzo (b) fluoranthene	4200	E
207-08-9-----	Benzo (k) fluoranthene	1400	E
50-32-8-----	Benzo (a) pyrene	4800	E
193-39-5-----	Indeno (1,2,3-cd) pyrene	1700	E
53-70-3-----	Dibenzo (a,h) anthracene	440	E
191-24-2-----	Benzo (g,h,i) perylene	2000	E

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-143(16-18')
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64595-4DL

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: ED102708

Level: (low/med) LOW

Date Received: 10/19/00

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/24/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/27/00

Injection Volume: 2.0 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	140000	D
208-96-8-----	Acenaphthylene	5500	JD
83-32-9-----	Acenaphthene	6100	JD
86-73-7-----	Fluorene	10000	JD
85-01-8-----	Phenanthrene	35000	JD
120-12-7-----	Anthracene	7100	JD
206-44-0-----	Fluoranthene	16000	JD
129-00-0-----	Pyrene	17000	JD
56-55-3-----	Benzo(a)anthracene	6100	JD
218-01-9-----	Chrysene	5300	JD
205-99-2-----	Benzo(b)fluoranthene	4600	JD
207-08-9-----	Benzo(k)fluoranthene	38000	U D
50-32-8-----	Benzo(a)pyrene	6500	JD
193-39-5-----	Indeno(1,2,3-cd)pyrene	38000	U D
53-70-3-----	Dibenzo(a,h)anthracene	38000	U D
191-24-2-----	Benzo(g,h,i)perylene	38000	U D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-145 (2-4)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64299-1

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED101618

Level: (low/med) LOW

Date Received: 10/11/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/13/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

91-20-3-----	Naphthalene	970	J
208-96-8-----	Acenaphthylene	20000	
83-32-9-----	Acenaphthene	3900	
86-73-7-----	Fluorene	3500	J
85-01-8-----	Phenanthrene	15000	
120-12-7-----	Anthracene	7800	
206-44-0-----	Fluoranthene	31000 33000	E 5
129-00-0-----	Pyrene	170000 120000	E 5
56-55-3-----	Benzo (a) anthracene	20000	40
218-01-9-----	Chrysene	23000	
205-99-2-----	Benzo (b) fluoranthene	31000 54000	E 0
207-08-9-----	Benzo (k) fluoranthene	7600	
50-32-8-----	Benzo (a) pyrene	45000 70000	E 0
193-39-5-----	Indeno (1,2,3-cd) pyrene	27000	
53-70-3-----	Dibenzo (a,h) anthracene	7200	
191-24-2-----	Benzo (g,h,i) perylene	47000 59000	E 0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-145 (2-4) D
L

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64299-1DL

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED101614

Level: (low/med) LOW

Date Received: 10/11/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/13/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	37000	U D
208-96-8-----	Acenaphthylene	34000	JD
83-32-9-----	Acenaphthene	5300	JD
86-73-7-----	Fluorene	4900	JD
85-01-8-----	Phenanthrene	17000	JD
120-12-7-----	Anthracene	9700	JD
206-44-0-----	Fluoranthene	33000	JD
129-00-0-----	Pyrene	120000	D
56-55-3-----	Benzo (a) anthracene	27000	JD
218-01-9-----	Chrysene	34000	JD
205-99-2-----	Benzo (b) fluoranthene	54000	D
207-08-9-----	Benzo (k) fluoranthene	22000	JD
50-32-8-----	Benzo (a) pyrene	70000	D
193-39-5-----	Indeno (1,2,3-cd) pyrene	40000	D
53-70-3-----	Dibenzo (a,h) anthracene	10000	JD
191-24-2-----	Benzo (g,h,i) perylene	59000	D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-145 (20-22')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64299-5

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: ED101616

Level: (low/med) LOW

Date Received: 10/11/00

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
91-20-3	Naphthalene	150000	83000
208-96-8	Acenaphthylene	30000	20000
83-32-9	Acenaphthene	56000	24000
86-73-7	Fluorene	35000	19000
85-01-8	Phenanthrene	95000	58000
120-12-7	Anthracene	26000	20000
206-44-0	Fluoranthene	26000	33000
129-00-0	Pyrene	100000	39000
56-55-3	Benzo (a) anthracene	11000	13000
218-01-9	Chrysene	9900	13000
205-99-2	Benzo (b) fluoranthene	8600	12000
207-08-9	Benzo (k) fluoranthene	1600	
50-32-8	Benzo (a) pyrene	9700	3000
193-39-5	Indeno (1,2,3-cd) pyrene	5700	
53-70-3	Dibenzo (a,h) anthracene	1600	
191-24-2	Benzo (g,h,i) perylene	8500	6900

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-145 (20-22')
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64299-5DL

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: ED101705

Level: (low/med) LOW

Date Received: 10/11/00

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 40.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
91-20-3	Naphthalene	83000	D
208-96-8	Acenaphthylene	20000	D
83-32-9	Acenaphthene	24000	D
86-73-7	Fluorene	19000	D
85-01-8	Phenanthrene	58000	D
120-12-7	Anthracene	20000	D
206-44-0	Fluoranthene	33000	D
129-00-0	Pyrene	39000	D
56-55-3	Benzo (a) anthracene	13000	JD
218-01-9	Chrysene	13000	JD
205-99-2	Benzo (b) fluoranthene	12000	JD
207-08-9	Benzo (k) fluoranthene	4900	JD
50-32-8	Benzo (a) pyrene	13000	JD
193-39-5	Indeno (1,2,3-cd) pyrene	5700	JD
53-70-3	Dibenzo (a,h) anthracene	16000	U D
191-24-2	Benzo (g,h,i) perylene	6900	JD

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-DUP-1

SB-145(2-4')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64299-9

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: ED101617

Level: (low/med) LOW

Date Received: 10/11/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/13/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

91-20-3	Naphthalene	980	J
208-96-8	Acenaphthylene	21000	
83-32-9	Acenaphthene	3600	J
86-73-7	Fluorene	3400	J
85-01-8	Phenanthrene	16000	
120-12-7	Anthracene	8600	
206-44-0	Fluoranthene	32000 31000	E D
129-00-0	Pyrene	160000 98000	E D
56-55-3	Benzo(a)anthracene	17000	CH
218-01-9	Chrysene	18000	
205-99-2	Benzo(b)fluoranthene	26000 50000	D
207-08-9	Benzo(k)fluoranthene	5800 5800 5000	D
50-32-8	Benzo(a)pyrene	35000 65000	E D
193-39-5	Indeno(1,2,3-cd)pyrene	22000	
53-70-3	Dibenzo(a,h)anthracene	5500	
191-24-2	Benzo(g,h,i)perylene	33000 49000	E D

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-DUP-1 DL

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64299-9DL

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: ED101613

Level: (low/med) LOW

Date Received: 10/11/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/13/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	38000	U D
208-96-8-----	Acenaphthylene	29000	JD
83-32-9-----	Acenaphthene	5100	JD
86-73-7-----	Fluorene	5100	JD
85-01-8-----	Phenanthrene	17000	JD
120-12-7-----	Anthracene	8800	JD
206-44-0-----	Fluoranthene	31000	JD
129-00-0-----	Pyrene	99000	D
56-55-3-----	Benzo (a) anthracene	22000	JD
218-01-9-----	Chrysene	28000	JD
205-99-2-----	Benzo (b) fluoranthene	50000	D
207-08-9-----	Benzo (k) fluoranthene	16000	JD
50-32-8-----	Benzo (a) pyrene	65000	D
193-39-5-----	Indeno (1,2,3-cd) pyrene	35000	JD
53-70-3-----	Dibenzo (a,h) anthracene	7400	JD
191-24-2-----	Benzo (g,h,i) perylene	49000	D

. 1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-DUP-2

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-8

Sample wt/vol: 30.6 (g/mL) g

Lab File ID: ED101709

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	77000	48000	E
208-96-8-----	Acenaphthylene	730		
83-32-9-----	Acenaphthene	30000	14000	E
86-73-7-----	Fluorene	8100		E
85-01-8-----	Phenanthrene	23000	16000	E
120-12-7-----	Anthracene	4400		E
206-44-0-----	Fluoranthene	3300		E
129-00-0-----	Pyrene	14000		E
56-55-3-----	Benzo (a) anthracene	1600		
218-01-9-----	Chrysene	1600		
205-99-2-----	Benzo (b) fluoranthene	1400		
207-08-9-----	Benzo (k) fluoranthene	490		
50-32-8-----	Benzo (a) pyrene	1800		
193-39-5-----	Indeno (1,2,3-cd) pyrene	920		
53-70-3-----	Dibenzo (a,h) anthracene	160		
191-24-2-----	Benzo (g,h,i) perylene	1200		

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-DUP-2 DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64299

Matrix: (soil/water) SOIL

Lab Sample ID: L64388-8DL

Sample wt/vol: 30.6 (g/mL) g

Lab File ID: ED101905

Level: (low/med) LOW

Date Received: 10/13/00

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/19/00

Injection Volume: 2.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND		
91-20-3-----	Naphthalene	48000	D
208-96-8-----	Acenaphthylene	20000	U D
83-32-9-----	Acenaphthene	14000	JD
86-73-7-----	Fluorene	6000	JD
85-01-8-----	Phenanthrene	16000	JD
120-12-7-----	Anthracene	3400	JD
206-44-0-----	Fluoranthene	4400	JD
129-00-0-----	Pyrene	8200	JD
56-55-3-----	Benzo (a) anthracene	20000	U D
218-01-9-----	Chrysene	2000	JD
205-99-2-----	Benzo (b) fluoranthene	20000	U D
207-08-9-----	Benzo (k) fluoranthene	20000	U D
50-32-8-----	Benzo (a) pyrene	2600	JD
193-39-5-----	Indeno (1,2,3-cd) pyrene	20000	U D
53-70-3-----	Dibenzo (a,h) anthracene	20000	U D
191-24-2-----	Benzo (g,h,i) perylene	20000	U D

CYANIDE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 9010.

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:

Concentration (C) qualifiers:

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

- E The reported value is estimated due to the presence of interference.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.

Validation qualifiers:

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- 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 tests, 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 cyanide analyses under NYSASP protocols is 26 days from validated time of sample receipt (VTSR). The technical holding time for cyanide analyses is 28 days from date of collection.

All samples were analyzed within specified holding time.

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 (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

All calibration and preparation blanks were found to be acceptable, with no analytes detected above the CRDL.

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 continuing performance is satisfactory.

3.1 Initial Calibration

The correlation coefficient of the initial calibration was greater than 0.995 and the initial calibration verification standard recovery was within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

The matrix spike recovery was within control limits.

4.2 Laboratory Duplicate

The laboratory duplicate results were acceptable.

5. Field Duplicate

Results for the duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SB-145(2-4') / SB-DUP-1	Cyanide	ND	0.79	NA
MW-26S(6-8') / SB-DUP-2	Cyanide	ND	ND	NA

ND Not detected.

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

6. Laboratory Control Sample (LCS)

All LCS recoveries were within control limits.

7. 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 specified in the method.

Data Validation Checksheets

Inorganic Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</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> </u>	<u>X</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>Form I to IX</u>			
Are all the Form I through Form IX labeled with:			
Laboratory name?	<u>X</u>	<u> </u>	<u> </u>
Sample No.?	<u>X</u>	<u> </u>	<u> </u>
SDG No.?	<u>X</u>	<u> </u>	<u> </u>
Correct units?	<u>X</u>	<u> </u>	<u> </u>
Matrix?	<u>X</u>	<u> </u>	<u> </u>
<u>Raw Data</u>			
Is the distillation log for cyanides present?	<u>X</u>	<u> </u>	<u> </u>
Are pH values listed?	<u> </u>	<u> </u>	<u>X</u>
pH for cyanide analyses >12 (waters)?	<u> </u>	<u> </u>	<u>X</u>
Percent solids calculation present for soils/sediments?	<u>X</u>	<u> </u>	<u> </u>
Are preparation dates present on sample preparation logs/bench sheets?	<u>X</u>	<u> </u>	<u> </u>
Are the measurement read out records present cyanide?	<u>X</u>	<u> </u>	<u> </u>
Is the data legible?	<u>X</u>	<u> </u>	<u> </u>
Is the data properly labeled?	<u>X</u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Were cyanide distillations performed within 14 days?	<u>X</u>	<u> </u>	<u> </u>
<u>Form I (Final Data)</u>			
Are all forms complete?	<u>X</u>	<u> </u>	<u> </u>
Are correct units indicated on Form I's?	<u>X</u>	<u> </u>	<u> </u>
Are soil sample results for each parameter corrected for percent solids?	<u>X</u>	<u> </u>	<u> </u>
Are all "less than IDL" values properly coded with "U"?	<u>X</u>	<u> </u>	<u> </u>
Are the correct concentration qualifiers used with final data?	<u>X</u>	<u> </u>	<u> </u>
Is a physical description of samples given on Form I's?	<u> </u>	<u>X</u>	<u> </u>

Inorganic Data Validation Checklist - Page 2

	YES	NO	NA
<u>Calibration</u>			
Is a record of 4 point calibration present for cyanide analysis?	<u>X</u>	<u> </u>	<u> </u>
Is the correlation coefficient less than 0.995?	<u>X</u>	<u> </u>	<u> </u>
<u>Form II A (Initial and Continuing Calibration Verification)</u>			
Present and complete for all analytes?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration standards (initial and continuing) within control limits?	<u>X</u>	<u> </u>	<u> </u>
Was continuing calibration performed every 10 samples or every 2 hours?	<u>X</u>	<u> </u>	<u> </u>
Was the ICV for cyanides distilled?	<u>X</u>	<u> </u>	<u> </u>
<u>Form III (Initial and Continuing Calibration Blanks)</u>			
Present and complete?	<u>X</u>	<u> </u>	<u> </u>
Was an initial calibration blank analyzed?	<u>X</u>	<u> </u>	<u> </u>
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration blanks (when $IDL < CRDL$) less than or equal to the Contract Required Detection Limits (CRDLs)?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration blanks less than two times Instrument Detection Limit (when $IDL > CRDL$)?	<u> </u>	<u> </u>	<u>X</u>
<u>Form III (Preparation Blank)</u>			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	<u>X</u>	<u> </u>	<u> </u>
each batch of digested samples?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>
Is concentration of prep. blank value less than the CRDL (when $IDL \leq CRDL$)?	<u>X</u>	<u> </u>	<u> </u>
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	<u> </u>	<u> </u>	<u>X</u>
Is concentration of prep. blank value less than two times IDL (when $IDL > CRDL$)?	<u> </u>	<u> </u>	<u>X</u>
Is concentration of prep. blank below the negative CRDL?	<u> </u>	<u>X</u>	<u> </u>

Inorganic Data Validation Checklist - Page 3

	YES	NO	NA
<u>Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)</u>			
Present and complete for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>
Was field blank used for spiked sample?	<u> </u>	<u>X</u>	<u> </u>
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?	<u>X</u>	<u> </u>	<u> </u>
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	<u>X</u>	<u> </u>	<u> </u>
<u>Aqueous</u>			
Are any spike recoveries:			
less than 30%?	<u> </u>	<u> </u>	<u>X</u>
between 30-74%?	<u> </u>	<u> </u>	<u>X</u>
between 126-150%?	<u> </u>	<u> </u>	<u>X</u>
greater than 150%?	<u> </u>	<u> </u>	<u>X</u>
<u>Soil/Sediment</u>			
Are any spike recoveries:			
less than 10%?	<u> </u>	<u>X</u>	<u> </u>
between 10-74%?	<u> </u>	<u>X</u>	<u> </u>
between 126-200%?	<u>X</u>	<u> </u>	<u> </u>
greater than 200%?	<u> </u>	<u>X</u>	<u> </u>
<u>Form VI (Lab Duplicates)</u>			
Present and complete for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>
Was field blank used for duplicate analysis?	<u> </u>	<u>X</u>	<u> </u>
Are all values within control limits (RPD 20% or difference $\leq \pm$ CRDL)?	<u>X</u>	<u> </u>	<u> </u>
If no, are all results outside the control limits flagged with an * on Form I's and VI?	<u> </u>	<u> </u>	<u>X</u>
<u>Aqueous</u>			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?	<u> </u>	<u> </u>	<u>X</u>

Inorganic Data Validation Checklist - Page 4

	YES	NO	NA
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	_____	_____	<u>X</u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?	_____	_____	<u>X</u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?	_____	_____	<u>X</u>
<u>Field Duplicates</u>			
Were field duplicates analyzed?	<u>X</u>	_____	_____
<u>Aqueous</u>			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?	_____	_____	<u>X</u>
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	_____	_____	<u>X</u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?	_____	_____	<u>X</u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) > 2xCRDL?	_____	_____	<u>X</u>
<u>Form VII (Laboratory Control Sample)</u>			
Was one LCS prepared and analyzed for:			
each SDG?	<u>X</u>	_____	_____
each batch samples digested/distilled?	<u>X</u>	_____	_____
<u>Aqueous LCS</u>			
Is any LCS recovery:			
less than 50%?	_____	<u>X</u>	_____
between 50% and 79%?	_____	<u>X</u>	_____
between 121% and 150%?	_____	<u>X</u>	_____
greater than 150%?	_____	<u>X</u>	_____
<u>Solid LCS</u>			
Is LCS "Found" value higher than the control limits?	_____	<u>X</u>	_____
Is LCS "Found" lower than the control limits?	_____	<u>X</u>	_____

Inorganic Data Validation Checklist - Page 5

	YES	NO	NA
<u>Dissolved/Total for Inorganic/Total Analytes</u>			
Were any analyses performed for dissolved as well as total analytes on the same sample.	_____	<u>X</u>	_____
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if greater than CRDL)	_____	_____	<u>X</u>
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?	_____	_____	<u>X</u>
<u>Field Blank</u>			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	_____	_____	<u>X</u>
If no, was field blank value already rejected due to other QC criteria?	_____	_____	<u>X</u>
<u>Form X, XI, XII (Verification of Instrumental Parameters)</u>			
Is verification report present for Instrument Detection Limits?	_____	<u>X</u>	_____
Is IDL greater than CRDL for any analyte?	_____	<u>X</u>	_____
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.	_____	_____	<u>X</u>
Was any sample result higher than the highest calibration standard?	<u>X</u>	_____	_____
If yes, was the sample diluted to obtain the result on Form I?	<u>X</u>	_____	_____
<u>Percent Solids</u>			
Are the percent solids in soil/sediment(s):			
< 50%?	_____	<u>X</u>	_____
< 10%?	_____	<u>X</u>	_____

Corrected Sample Analysis Data Sheets

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW-26D(14-16)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64541-3

Level (low/med): LOW

Date Received: 10/18/00

% Solids: 90.7

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.54	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-26S(6-8)

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64388-5

Level (low/med): LOW

Date Received: 10/13/00

% Solids: 81.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.61	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW-27D(16-18)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64426-1

Level (low/med): LOW

Date Received: 10/16/00

% Solids: 88.2

14
Am 11.6.00

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.54	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-27D(2-4)

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64299-4

Level (low/med): LOW

Date Received: 10/11/00

% Solids: 88.0

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.57	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW-28D(0-2)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64388-1

Level (low/med): LOW

Date Received: 10/13/00

% Solids: 87.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	4.7			C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW-28D(16-18)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64541-2

Level (low/med): LOW

Date Received: 10/18/00

% Solids: 86.1

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.82			C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

RB-1RINSEBLANK

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Water

Lab Sample ID: L64541-1

Level (low/med): LOW

Date Received: 10/18/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	10.0	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-139(18-19.3)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64388-2

Level (low/med): LOW

Date Received: 10/13/00

% Solids: 94.6

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.51	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

SB-140(18-18.8)

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64388-7

Level (low/med): LOW

Date Received: 10/13/00

% Solids: 93.6

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.51	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-140(8-10)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64388-6

Level (low/med): LOW

Date Received: 10/13/00

% Solids: 88.9

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.54	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-142(12-14)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64595-1

Level (low/med): LOW

Date Received: 10/19/00

% Solids: 83.9

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	1.7			C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-142(16-18)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64595-2

Level (low/med): LOW

Date Received: 10/19/00

% Solids: 91.7

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.50	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-143(10-12)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64595-3

Level (low/med): LOW

Date Received: 10/19/00

% Solids: 66.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	66.3			C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-143(16-18)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64595-4

Level (low/med): LOW

Date Received: 10/19/00

% Solids: 86.1

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	1.2			C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

SB-145(2-4)

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64299-1

Level (low/med): LOW

Date Received: 10/11/00

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.54	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-145(20-22)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64299-5

Level (low/med): LOW

Date Received: 10/11/00

% Solids: 82.1

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	1.9			C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

SB-DUP-1

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64299-9

Level (low/med): LOW

Date Received: 10/11/00

% Solids: 87.9

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.79			C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-DUP-2

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64299

Matrix (soil/water): Soil

Lab Sample ID: L64388-8

Level (low/med): LOW

Date Received: 10/13/00

% Solids: 83.4

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.56	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

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Laboratory Narrative



6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Ms. Lynette Mokry
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC North Albany Project No. 366.08.01
SDG L64299

The following package contains the analytical results of the soil samples submitted to our laboratory on October 11, 13, 14, 18 and 19, 2000. The samples were received intact and under proper chain of custody. The temperature of the samples was checked upon receipt. The sample temperatures, as recorded with a temperature gun, were 5.8°, 13.8°, 3°, 9.3° and 11.4°C. The samples were assigned to logins L64299, L64388, L64426, L64541 and L64595, and sample delivery group (SDG) L64299.

The samples are reported according to ASP Category B guidelines. Samples SB-145 (2-4) and SB-139 (18-19.3) were submitted for matrix spike and spike duplicate analyses. The samples were analyzed by SW846 methods 8260 for BTEX, 8270 for PAHs and 9010 for cyanide.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the *package review checklists*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: November 7, 2000



NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
MW-26D (14-16') L64541-3	SOIL	17-OCT-00	18-OCT-00	NA	18-OCT-00
MW-26S (6-8') L64388-5	SOIL	12-OCT-00	13-OCT-00	NA	13-OCT-00
MW-27D (2-4') L64299-4	SOIL	10-OCT-00	11-OCT-00	NA	11-OCT-00
MW-27D (16-18') L64426-1	SOIL	13-OCT-00	¹⁴ ~~18~~ -OCT-00 AN 11.6.00	NA	16-OCT-00
MW-27D (22-22.2') L64426-2	SOIL	13-OCT-00	¹⁴ ~~16~~ -OCT-00	NA	16-OCT-00
MW-28D (0-2') L64388-1	SOIL	11-OCT-00	13-OCT-00	NA	13-OCT-00
MW-28D (16-18') L64541-2	SOIL	16-OCT-00	18-OCT-00	NA	19-OCT-00
RB-1 RINSE BLANK L64541-1	WATER	16-OCT-00	18-OCT-00	NA	18-OCT-00
SB-139 (18-19.3') L64388-2	SOIL	11-OCT-00	13-OCT-00	NA	13-OCT-00
SB-140 (18-18.8') L64388-7	SOIL	12-OCT-00	13-OCT-00	NA	13-OCT-00
SB-140 (18-18.8') L64388-7 DL	SOIL	12-OCT-00	13-OCT-00	NA	16-OCT-00
SB-140 (8-10') L64388-6	SOIL	12-OCT-00	13-OCT-00	NA	13-OCT-00
SB-142 (12-14') L64595-1	SOIL	18-OCT-00	19-OCT-00	NA	19-OCT-00
SB-142 (16-18') L64595-2	SOIL	18-OCT-00	19-OCT-00	NA	20-OCT-00
SB-142 (16-18') D L64595-2 DL	SOIL	18-OCT-00	19-OCT-00	NA	20-OCT-00
SB-143 (10-12') L64595-3	SOIL	18-OCT-00	19-OCT-00	NA	20-OCT-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
SB-143 (10-12') D L64595-3 DL	SOIL	18-OCT-00	19-OCT-00	NA	20-OCT-00
SB-143 (16-18') L64595-4	SOIL	18-OCT-00	19-OCT-00	NA	20-OCT-00
SB-143 (16-18') D L64595-4 DL	SOIL	18-OCT-00	19-OCT-00	NA	20-OCT-00
SB-145 (2-4') L64299-1	SOIL	10-OCT-00	11-OCT-00	NA	11-OCT-00
SB-145 (2-4') MS L64299-2	SOIL	10-OCT-00	11-OCT-00	NA	11-OCT-00
SB-145 (2-4') MSD L64299-3	SOIL	10-OCT-00	11-OCT-00	NA	11-OCT-00
SB-145 (20-22') L64299-5	SOIL	10-OCT-00	11-OCT-00	NA	11-OCT-00
SB-DUP-1 L64299-9	SOIL	10-OCT-00	11-OCT-00	NA	11-OCT-00
TRIP BLANK L64541-5	WATER		18-OCT-00	NA	18-OCT-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
MW-26D (14-16') L64541-3	SOIL	SW846 8260	NA		1
MW-26S (6-8') L64388-5	SOIL	SW846 8260	NA		1
MW-27D (2-4') L64299-4	SOIL	SW846 8260	NA		1
MW-27D (16-18') L64426-1	SOIL	SW846 8260	NA		5
MW-27D (22-22.2') L64426-2	SOIL	SW846 8260	NA		1
MW-28D (0-2') L64388-1	SOIL	SW846 8260	NA		1
MW-28D (16-18') L64541-2	SOIL	SW846 8260	NA		5
RB-1 RINSE BLANK L64541-1	WATER	SW846 8260	NA		1
SB-139 (18-19.3') L64388-2	SOIL	SW846 8260	NA		1
SB-140 (18-18.8') L64388-7	SOIL	SW846 8260	NA		1
SB-140 (18-18.8') L64388-7 DL	SOIL	SW846 8260	NA		2
SB-140 (8-10') L64388-6	SOIL	SW846 8260	NA		1
SB-142 (12-14') L64595-1	SOIL	SW846 8260	NA		2.5
SB-142 (16-18') L64595-2	SOIL	SW846 8260	NA		5
SB-142 (16-18') D L64595-2 DL	SOIL	SW846 8260	NA		1
SB-143 (10-12') L64595-3	SOIL	SW846 8260	NA		5

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
SB-143 (10-12') D L64595-3 DL	SOIL	SW846 8260	NA		4
SB-143 (16-18') L64595-4	SOIL	SW846 8260	NA		5
SB-143 (16-18') D L64595-4 DL	SOIL	SW846 8260	NA		1
SB-145 (2-4') L64299-1	SOIL	SW846 8260	NA		1
SB-145 (2-4') MS L64299-2	SOIL	SW846 8260	NA		1
SB-145 (2-4') MSD L64299-3	SOIL	SW846 8260	NA		1
SB-145 (20-22') L64299-5	SOIL	SW846 8260	NA		1
SB-DUP-1 L64299-9	SOIL	SW846 8260	NA		1
TRIP BLANK L64541-5	WATER	SW846 8260	NA		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
MW-26D (14-16') L64541-3	SOIL	17-OCT-00	18-OCT-00	19-OCT-00	24-OCT-00
MW-26D (14-16') D L64541-3 DL	SOIL	17-OCT-00	18-OCT-00	19-OCT-00	25-OCT-00
MW-26S (6-8') L64388-5	SOIL	12-OCT-00	13-OCT-00	16-OCT-00	17-OCT-00
MW-26S (6-8') DL L64388-5 DL	SOIL	12-OCT-00	13-OCT-00	16-OCT-00	19-OCT-00
MW-27D (2-4') DL L64299-4 DL	SOIL	10-OCT-00	11-OCT-00	13-OCT-00	16-OCT-00
MW-27D (2-4') L64299-4	SOIL	10-OCT-00	11-OCT-00	13-OCT-00	16-OCT-00
MW-27D (16-18') L64426-1	SOIL	13-OCT-00	¹⁴ ~~16~~ -OCT-00 <i>Rm 11.6.00</i>	16-OCT-00	17-OCT-00
MW-27D (16-18') D L64426-1 DL	SOIL	13-OCT-00	¹⁴ ~~16~~ -OCT-00	16-OCT-00	19-OCT-00
MW-28D (0-2') L64388-1	SOIL	11-OCT-00	13-OCT-00	16-OCT-00	17-OCT-00
MW-28D (0-2') DL L64388-1 DL	SOIL	11-OCT-00	13-OCT-00	16-OCT-00	19-OCT-00
MW-28D (16-18') L64541-2	SOIL	16-OCT-00	18-OCT-00	19-OCT-00	24-OCT-00
RB-1 RINSE BLANK L64541-1	WATER	16-OCT-00	18-OCT-00	20-OCT-00	24-OCT-00
SB-139 (18-19.3') L64388-2	SOIL	11-OCT-00	13-OCT-00	16-OCT-00	17-OCT-00
SB-139 (18-19.3') L64388-2 DL	SOIL	11-OCT-00	13-OCT-00	16-OCT-00	19-OCT-00
SB-139 (18-19.3') L64388-3 <i>MS</i>	SOIL	11-OCT-00	13-OCT-00	16-OCT-00	17-OCT-00
SB-139 (18-19.3') L64388-4 <i>MSD</i>	SOIL	11-OCT-00	13-OCT-00	16-OCT-00	17-OCT-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
SB-140 (18-18.8') L64388-7	SOIL	12-OCT-00	13-OCT-00	16-OCT-00	17-OCT-00
SB-140 (18-18.8') L64388-7 DL	SOIL	12-OCT-00	13-OCT-00	16-OCT-00	19-OCT-00
SB-140 (8-10') L64388-6	SOIL	12-OCT-00	13-OCT-00	16-OCT-00	17-OCT-00
SB-142 (12-14') L64595-1	SOIL	18-OCT-00	19-OCT-00	24-OCT-00	26-OCT-00
SB-142 (12-14') D L64595-1 DL	SOIL	18-OCT-00	19-OCT-00	24-OCT-00	27-OCT-00
SB-142 (16-18') L64595-2	SOIL	18-OCT-00	19-OCT-00	24-OCT-00	26-OCT-00
SB-142 (16-18') D L64595-2 DL	SOIL	18-OCT-00	19-OCT-00	24-OCT-00	27-OCT-00
SB-143 (10-12') L64595-3	SOIL	18-OCT-00	19-OCT-00	24-OCT-00	26-OCT-00
SB-143 (10-12') D L64595-3 DL	SOIL	18-OCT-00	19-OCT-00	24-OCT-00	27-OCT-00
SB-143 (16-18') L64595-4	SOIL	18-OCT-00	19-OCT-00	24-OCT-00	26-OCT-00
SB-143 (16-18') D L64595-4 DL	SOIL	18-OCT-00	19-OCT-00	24-OCT-00	27-OCT-00
SB-145 (2-4') DL L64299-1 DL	SOIL	10-OCT-00	11-OCT-00	13-OCT-00	16-OCT-00
SB-145 (2-4') L64299-1	SOIL	10-OCT-00	11-OCT-00	13-OCT-00	16-OCT-00
SB-145 (20-22') L64299-5	SOIL	10-OCT-00	11-OCT-00	13-OCT-00	16-OCT-00
SB-145 (20-22') L64299-5 DL	SOIL	10-OCT-00	11-OCT-00	13-OCT-00	17-OCT-00
SB-DUP-1 DL L64299-9 DL	SOIL	10-OCT-00	11-OCT-00	13-OCT-00	16-OCT-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
MW-26D (14-16') L64541-3	SOIL	SW846 8270	SW846/3550 /8270PAH	NONE	1
MW-26D (14-16') D L64541-3 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		2
MW-26S (6-8') L64388-5	SOIL	SW846 8270	SW846/3550 /8270PAH		1
MW-26S (6-8') DL L64388-5 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		50
MW-27D (2-4') DL L64299-4 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		10
MW-27D (2-4') L64299-4	SOIL	SW846 8270	SW846/3550 /8270PAH		1
MW-27D (16-18') L64426-1	SOIL	SW846 8270	SW846/3550 /8270PAH		1
MW-27D (16-18') D L64426-1 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		20
MW-28D (0-2') L64388-1	SOIL	SW846 8270	SW846/3550 /8270PAH		1
MW-28D (0-2') DL L64388-1 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		50
MW-28D (16-18') L64541-2	SOIL	SW846 8270	SW846/3550 /8270PAH		1
RB-1 RINSE BLANK L64541-1	WATER	SW846 8270	SW846/3510 /8270PAH		1
SB-139 (18-19.3') L64388-2	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-139 (18-19.3') L64388-2 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		100
SB-139 (18-19.3') L64388-3 MS	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-139 (18-19.3') L64388-4 MSD	SOIL	SW846 8270	SW846/3550 /8270PAH		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
SB-140 (18-18.8') L64388-7	SOIL	SW846 8270	SW846/3550 /8270PAH	NONE	1
SB-140 (18-18.8') L64388-7 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		50
SB-140 (8-10') L64388-6	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-142 (12-14') L64595-1	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-142 (12-14') D L64595-1 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		5
SB-142 (16-18') L64595-2	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-142 (16-18') D L64595-2 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		25
SB-143 (10-12') L64595-3	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-143 (10-12') D L64595-3 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		50
SB-143 (16-18') L64595-4	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-143 (16-18') D L64595-4 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		100
SB-145 (2-4') DL L64299-1 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		10
SB-145 (2-4') L64299-1	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-145 (20-22') L64299-5	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-145 (20-22') L64299-5 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		40
SB-DUP-1 DL L64299-9 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		10

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - INORGANIC ANALYSIS

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE RECEIVED	DATE ANALYZED
MW-26D (14-16) L64541-3	SOIL	TOTAL CYANIDE	10/18/2000	10/26/2000
MW-26S (6-8) L64388-5	SOIL	TOTAL CYANIDE	10/13/2000	10/18/2000
MW-27D (16-18) L64426-1	SOIL	TOTAL CYANIDE	14 Nov 2000 10/16/2000	10/18/2000
MW-27D (2-4) L64299-4	SOIL	TOTAL CYANIDE	10/11/2000	10/16/2000
MW-28D (0-2) L64388-1	SOIL	TOTAL CYANIDE	10/13/2000	10/18/2000
MW-28D (16-18) L64541-2	SOIL	TOTAL CYANIDE	10/18/2000	10/26/2000
RB-1 RINSE BLANK L64541-1	WATER	TOTAL CYANIDE	10/18/2000	10/26/2000
SB-139 (18-19.3) L64388-2	SOIL	TOTAL CYANIDE	10/13/2000	10/18/2000
SB-139 (18-19.3) L64388-3S	SOIL	TOTAL CYANIDE	10/13/2000	10/18/2000
SB-139 (18-19.3) L64388-4D	SOIL	TOTAL CYANIDE	10/13/2000	10/18/2000
SB-140 (18-18.8) L64388-7	SOIL	TOTAL CYANIDE	10/13/2000	10/18/2000
SB-140 (8-10) L64388-6	SOIL	TOTAL CYANIDE	10/13/2000	10/18/2000
SB-142 (12-14) L64595-1	SOIL	TOTAL CYANIDE	10/19/2000	10/26/2000
SB-142 (16-18) L64595-2	SOIL	TOTAL CYANIDE	10/19/2000	10/26/2000
SB-143 (10-12) L64595-3	SOIL	TOTAL CYANIDE	10/19/2000	10/26/2000
SB-143 (16-18) L64595-4	SOIL	TOTAL CYANIDE	10/19/2000	10/26/2000
SB-145 (2-4) L64299-1	SOIL	TOTAL CYANIDE	10/11/2000	10/16/2000

SAMPLE PREPARATION AND ANALYSIS SUMMARY - INORGANIC ANALYSIS

[illegible]

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	CN	
L64299	10/10/00	1995	SB-145 (2-4')	soil	no	no	--	yes	VOA - int std BNA - ms ² , int std
L64299	10/10/00	1995	MW-27D(2-4')	soil	no	no	--	yes	VOA - temperature BNA - ms ² , int std
L64299	10/10/00	1995	SB-145 (20-22')	soil	no	no	--	yes	VOA - temperature BNA - ms ² , int std
L64299	10/10/00	1995	SB-DUP-1	soil	no	no	--	yes	VOA - temperature BNA - ms ² , int std
L64299	10/11/00	1995	MW-28D(0-2')	soil	no	no	--	yes	VOA - temperature BNA - ms ² , int std, cal
L64299	10/11/00	1995	SB-139 (18-19.3')	soil	no	no	--	yes	VOA - temperature BNA - ms ² , int std, surr ²
L64299	10/11/00	1995	MW-26S(6-8')	soil	no	no	--	yes	VOA - temperature BNA - ms ² , surr ² , int std
L64299	10/12/00	1995	SB-140 (8-10')	soil	yes	no	--	yes	BNA - ms ² , int std
L64299	10/12/00	1995	SB-140 (18-18.8')	soil	no	no	--	yes	VOA - temperature BNA - ms ² , surr ² , int std
L64299	10/12/00	1995	SB-DUP-2	soil	--	no	--	yes	BNA - ms ² , surr ² , int std
L64299	10/13/00	1995	MW-27D(16-18')	soil	yes	no	--	yes	BNA - ms ² , surr ² , int std, cal
L64299	10/13/00	1995	MW-27D(22-22.2)	soil	no	--	--	--	VOA - temperature
L64299	10/13/00	1995	RB-1 RINSE BLANK	water	yes	no	--	yes	BNA - ms ²
L64299	10/13/00	1995	MW-28D(16-18')	soil	yes	no	--	yes	BNA - ms ²
L64299	10/13/00	1995	MW-26D(14-16')	soil	yes	no	--	yes	BNA - ms ²
L64299	10/13/00	1995	TRIP BLANK	water	yes	--	--	--	
L64299	10/18/00	1995	SB-142 (12-14')	soil	yes	no	--	yes	BNA - ms ²
L64299	10/18/00	1995	SB-142 (16-18')	soil	no	no	--	yes	VOA - int std BNA - ms ²

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	CN	
L64299	10/18/00	1995	SB-143 (10-12')	soil	no	no	--	yes	VOA - temperature BNA - ms ² , surr ² , int std
L64299	10/18/00	1995	SB-143 (16-18')	soil	no	no	--	yes	VOA - temperature BNA - ms ² , surr ²

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
- 2 The deviation resulted in no qualification of data.
- 3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

DATA REVIEW FOR

NMPC
NORTH ALBANY

SDG# L64720

VOLATILE, SEMIVOLATILE
AND CYANIDE ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:



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



vdb2390

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260 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 tests, 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 NYSASP is 10 days from sample receipt. The technical holding time for soils is 14 days from sample collection.

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

No target compounds were detected in the method, trip or rinse 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 percent relative standard deviation (%RSD) limits for select compounds only and allows two outliers. A technical review of the data applies limits 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

The method specifies percent drift (%D) criteria for select compounds only. A technical review applies limits to all compounds with no exceptions.

All continuing calibration standards were acceptable.

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.

Recovery for one surrogate was above control limits in sample SB-136(24-26') and recoveries for two surrogates were above control limits in sample SB-136(24-26')RE. All positive data for the samples have been qualified as estimated based on the recoveries. 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 responses for one or more of the internal standards were below established limits in samples SB-136(10-12'), SB-136(10-12')RE, SB-136(24-26') and SB-136(24-26')RE. Data for all compounds quantitated under the non-compliant standards have been qualified as estimated based on the deviations.

7. Compound Identification

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

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

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

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicates

Results for the duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Alternate Sample Result	Duplicate Result	RPD
SB135(12-14') / SB-DUP-2	toluene	1500J	ND	ND	NA
	ethylbenzene	25000	5300	2000	90.4%
	xylene (total)	24000	1600	1900	17.1%

ND Not detected.

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

The sample and respective field duplicate are listed as SB-135(12-14) and SB-DUP-2. Review of the results and the raw data suggest that samples SB-135(12-14) and SB-135(18-20) may have been switched either in the field or in the laboratory. The duplicate results, based on the switched samples, are acceptable.

11. General Comments

The temperature of the samples was above the specified limit when received at the laboratory (8.2°C). No data have been qualified based on the temperature excursions; however, the end-user should be aware that some loss of volatile compounds may have occurred.

All medium level analyses were performed at elevated rather than the method-specified ambient temperatures. All medium level data have been qualified as estimated based on the method non-compliance.

12. 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 Checksheets

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?	<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> </u>	<u> X </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> X </u>	<u> </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 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>
Was one or more surrogate recoveries outside of specified limits for any sample or blank?	<u> X </u>	<u> </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> X </u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<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> 8 </u>			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
<u> 0 </u> out of <u> 4 </u>			
<u>Blanks</u>			
Is a 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> X </u>	<u> </u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 2

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

Volatile 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>
Do the TIC and "best match" spectrum agree within 20%?	_____	_____	<u> X </u>
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	_____	<u> X </u>	_____
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	<u> X </u>	_____	_____
<u>Standard Data</u>			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	<u> X </u>	_____	_____
<u>Initial Calibration</u>			
Are the initial calibration forms present for each instrument used?	<u> X </u>	_____	_____
Are the response factor RSDs within acceptable limits?	<u> X </u>	_____	_____
Are the average RRFs equal to or greater than minimum requirements?	<u> X </u>	_____	_____
Are there any transcription/calculation errors in reporting the RRFs or RSDs?	_____	<u> X </u>	_____
<u>Continuing Calibration</u>			
Are the continuing calibration forms present for each day and each instrument?	<u> X </u>	_____	_____
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	<u> X </u>	_____	_____
All %D within acceptable limits?	<u> X </u>	_____	_____
Are all RF equal to or greater than minimum requirements?	<u> X </u>	_____	_____
Are there any transcription/calculation errors in reporting of RF or %D?	_____	<u> X </u>	_____
<u>Internal Standards</u>			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	_____	<u> X </u>	_____
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u> X </u>	_____	_____

Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u> X </u>	<u> </u>	<u> </u>

Qualifiers:

D Diluted

D	Diluted
I	Recovery high

Recovery low

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

Volatile Calibration Outliers

Instrument: MSB

Matrix: soil

Level: low

Date/Time	10/18/00		10/24/00 09:59		10/24/00 21:33					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
benzene										
toluene										
ethylbenzene										
xylene (total)										
Affected Samples										

Corrected Sample Analysis Data Sheets

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-135 (12-14')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-3

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102411

Level: (low/med) MED

Date Received: 10/21/00

%Moisture: not dec. 20

Date Analyzed: 10/24/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 2

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 50 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	1600	✓ J 45 5
108-88-3-----Toluene	1500	
100-41-4-----Ethylbenzene	25000	
1330-20-7-----Xylene (total)	24000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-135(18-20')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-4

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102412

Level: (low/med) MED

Date Received: 10/21/00

%Moisture: not dec. 11

Date Analyzed: 10/24/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	700	<i>Handwritten:</i> 7500 10/24/00
108-88-3-----Toluene	700	
100-41-4-----Ethylbenzene	5300	
1330-20-7-----Xylene (total)	1600	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-136(10-12)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-1

Sample wt/vol: 5 (g/mL) g

Lab File ID: BE102409

Level: (low/med) LOW

Date Received: 10/21/00

%Moisture: not dec. 13

Date Analyzed: 10/24/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	1	J
108-88-3-----Toluene	20	
100-41-4-----Ethylbenzene	6	U
1330-20-7-----Xylene (total)	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-136 (10-12-1)
RE

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-1RE

Sample wt/vol: 5 (g/mL) g

Lab File ID: BE102423

Level: (low/med) LOW

Date Received: 10/21/00

%Moisture: not dec. 13

Date Analyzed: 10/25/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	6	U
108-88-3-----Toluene	12	
100-41-4-----Ethylbenzene	6	U
1330-20-7-----Xylene (total)	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-136(24-26)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-2

Sample wt/vol: 5 (g/mL) g

Lab File ID: BE102408

Level: (low/med) LOW

Date Received: 10/21/00

%Moisture: not dec. 10

Date Analyzed: 10/24/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

71-43-2-----	Benzene	6	U
108-88-3-----	Toluene	18	J
100-41-4-----	Ethylbenzene	6	U
1330-20-7-----	Xylene (total)	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-136(24-26)
RE

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-2RE

Sample wt/vol: 5 (g/mL) g

Lab File ID: BE102424

Level: (low/med) LOW

Date Received: 10/21/00

%Moisture: not dec. 10

Date Analyzed: 10/25/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	1	J
108-88-3-----Toluene	34	J
100-41-4-----Ethylbenzene	6	U
1330-20-7-----Xylene (total)	7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-141(4-6')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-7

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102413

Level: (low/med) MED

Date Received: 10/21/00

%Moisture: not dec. 21

Date Analyzed: 10/24/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	790	☒
108-88-3-----Toluene	200	J
100-41-4-----Ethylbenzene	780	J
1330-20-7-----Xylene (total)	720	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-141(16-18)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-8

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102425

Level: (low/med) MED

Date Received: 10/21/00

%Moisture: not dec. 10

Date Analyzed: 10/25/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	690	J 6/9
108-88-3-----Toluene	160	
100-41-4-----Ethylbenzene	1800	
1330-20-7-----Xylene (total)	1200	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-144(4-6)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-9

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102422

Level: (low/med) MED

Date Received: 10/21/00

%Moisture: not dec. 44

Date Analyzed: 10/25/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	3200	46124
108-88-3-----Toluene	3100	
100-41-4-----Ethylbenzene	7100	
1330-20-7-----Xylene (total)	18000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-144 (20-22')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Soil

Lab Sample ID: L64720-12

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102426

Level: (low/med) MED

Date Received: 10/21/00

%Moisture: not dec. 9

Date Analyzed: 10/25/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

71-43-2-----Benzene	1400	5/4/00
108-88-3-----Toluene	310	
100-41-4-----Ethylbenzene	8800	
1330-20-7-----Xylene (total)	4900	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-2 (RINSE BLANK)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Water

Lab Sample ID: L64720-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE102405

Level: (low/med) LOW

Date Received: 10/21/00

%Moisture: not dec.

Date Analyzed: 10/24/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

71-43-2-----Benzene	5	U
108-88-3-----Toluene	5	U
100-41-4-----Ethylbenzene	5	U
1330-20-7-----Xylene (total)	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-DUP-2

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

SB-135(121)

Matrix: (soil/water) Soil

Lab Sample ID: L64720-13

Sample wt/vol: 4 (g/mL) g

Lab File ID: BE102427

Level: (low/med) MED

Date Received: 10/21/00

%Moisture: not dec. 24

Date Analyzed: 10/25/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

71-43-2-----	Benzene	820	820 820 2000 1900
108-88-3-----	Toluene	820	
100-41-4-----	Ethylbenzene	2000	
1330-20-7-----	Xylene (total)	1900	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) Water

Lab Sample ID: L64720-15

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE102406

Level: (low/med) LOW

Date Received: 10/21/00

%Moisture: not dec.

Date Analyzed: 10/24/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

71-43-2-----Benzene	5	U
108-88-3-----Toluene	5	U
100-41-4-----Ethylbenzene	5	U
1330-20-7-----Xylene (total)	5	U

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270 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 tests, 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 method specified holding times for semivolatile analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 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, and rinse blanks) are prepared to identify any contamination which may have been introduced in to 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 or rinse 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 percent relative standard deviation (%RSD) limits for select compounds only and allows four outliers. A technical review of the data applies limits 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 acceptable.

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.

Recovery for one surrogate was outside control limits in samples SB-141(16-18')DL, SB-144(20-22') and SB-144(4-6'). Since recoveries for the remaining surrogates were within control limits, no data have been qualified based on the deviations. Surrogates were diluted beyond the range of quantitation in samples SB-144(4-6')DL and SB-144(20-22")DL. No data have been qualified based on diluted surrogates. 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 responses for two of the internal standards were below established limits in samples SB-135(12-14'), SB141(4-6'), SB-144(4-6'), SB-144(4-6')DL, and SB-141(16-18'). Data for all compounds quantitated under the non-compliant standards have been qualified as estimated based on the deviations. All other internal standard areas and retention times were within established limits.

7. Compound Identification

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

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike, matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

Matrix spike recoveries could not be accurately calculated due to interference from the relatively high concentration of target compounds present in the unspiked sample.

9. Matrix Spike Blank

Recovery for one compound was below control limits in matrix spike blank soil sample. All water matrix spike blank recoveries were within control limits. No data have been qualified based on matrix spike blank performance alone.

10. Field Duplicate

No field duplicates were submitted for semivolatile analysis.

11. General Comments

The temperature of the samples was above the specified limit when received at the laboratory (8.2°C). No data have been qualified based on the temperature excursions.

12. 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 Checksheets

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> </u>	<u> X </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> X </u>	<u> </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 base-neutral or acid 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> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<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> NA </u> out of <u> NA </u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u> NA </u> out of <u> NA </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 blanks have positive results?	<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?	<u> </u>	<u> X </u>	<u> </u>
Are there field/rinse blanks associated with every sample?	<u> X </u>	<u> </u>	<u> </u>
<u>Tuning and Mass Calibration</u>			
Are the GC/MS tuning forms present for DFTPP?	<u> X </u>	<u> </u>	<u> </u>
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	<u> X </u>	<u> </u>	<u> </u>
Has a DFTPP been analyzed for each twelve hours of analysis per instrument?	<u> X </u>	<u> </u>	<u> </u>
Have the ion abundance criteria been met for each instrument used?	<u> X </u>	<u> </u>	<u> </u>
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	<u> X </u>	<u> </u>	<u> </u>
Matrix spikes	<u> X </u>	<u> </u>	<u> </u>
Blanks	<u> X </u>	<u> </u>	<u> </u>
Are the reconstructed ion chromatograms present for each of the following:			
Samples	<u> X </u>	<u> </u>	<u> </u>
Matrix spikes	<u> X </u>	<u> </u>	<u> </u>
Blanks	<u> X </u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable?	<u> X </u>	<u> </u>	<u> </u>
Are the mass spectra of the identified compounds present?	<u> X </u>	<u> </u>	<u> </u>
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	<u> X </u>	<u> </u>	<u> </u>
Do the samples and standard relative ion intensities agree within 20%?	<u> X </u>	<u> </u>	<u> </u>
<u>Tentatively Identified Compounds</u>			
Are all the TIC summary forms present?	<u> </u>	<u> </u>	<u> X </u>
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	<u> </u>	<u> </u>	<u> X </u>
Are any target compounds listed as TICs?	<u> </u>	<u> </u>	<u> X </u>

Semivolatile Organics Data Validation Checklist - Page 3

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

Semivolatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
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> </u>	<u> X </u>	<u> </u>

Semivolatile Qualifier Summary

Holding Time, Surrogates, Internal Standards

[illegible]

Surrogates:

NBZ	Nitrobenzene-d5
FBP	2-Fluorobiphenyl
TPH	Terphenyl-d14
DCB	1,2-Dichlorobenzene-d4
PHL	Phenol-d6
2FP	2-Fluorophenol
TBP	2,4,6-Tribromophenol
2CP	2-Chlorophenol-d4

Internal Standards:

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

Qualifiers:

D	Diluted
l	Recovery low
h	Recovery high
na	not applicable

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

Semivolatile Calibration Outliers

Instrument: MS E

Date/Time	10/24/00		11/01/00 9:45		11/02/00 10:52		11/13/00 11:18			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Naphthalene										
Acenaphthylene										
Acenaphthene										
Fluorene										
Phenanthrene										
Anthracene										
Fluoranthene										
Pyrene										
Benzo(a)anthracene										
Chrysene										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:										

Corrected Sample Analysis Data Sheets

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-2 (RINSE BLAN
K)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) WATER

Lab Sample ID: L64720-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED110104

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/l

Q

CAS NO.

COMPOUND

91-20-3-----	Naphthalene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	10	U
86-73-7-----	Fluorene	10	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
56-55-3-----	Benzo (a) anthracene	10	U
218-01-9-----	Chrysene	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
50-32-8-----	Benzo (a) pyrene	10	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	10	U
53-70-3-----	Dibenzo (a,h) anthracene	10	U
191-24-2-----	Benzo (g,h,i) perylene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-135(12-14')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-3

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED110120

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	100000	74000	E
208-96-8-----	Acenaphthylene	35000	26000	E
83-32-9-----	Acenaphthene	10000		E
86-73-7-----	Fluorene	14000	12000	E
85-01-8-----	Phenanthrene	54000	41000	E
120-12-7-----	Anthracene	12000	10000	E
206-44-0-----	Fluoranthene	14000	23000	E
129-00-0-----	Pyrene	49000	32000	E
56-55-3-----	Benzo(a)anthracene	7600		E
218-01-9-----	Chrysene	5800		E
205-99-2-----	Benzo(b)fluoranthene	5500		E
207-08-9-----	Benzo(k)fluoranthene	1400		E
50-32-8-----	Benzo(a)pyrene	7700	2000	E
193-39-5-----	Indeno(1,2,3-cd)pyrene	3700		E
53-70-3-----	Dibenzo(a,h)anthracene	860		E
191-24-2-----	Benzo(g,h,i)perylene	6200		E

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-135(12-14)
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-3DL

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED110213

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

91-20-3	Naphthalene	74000	D
208-96-8	Acenaphthylene	26000	D
83-32-9	Acenaphthene	8500	JD
86-73-7	Fluorene	12000	JD
85-01-8	Phenanthrene	41000	D
120-12-7	Anthracene	10000	JD
206-44-0	Fluoranthene	23000	D
129-00-0	Pyrene	32000	D
56-55-3	Benzo(a)anthracene	9600	JD
218-01-9	Chrysene	8400	JD
205-99-2	Benzo(b)fluoranthene	8700	JD
207-08-9	Benzo(k)fluoranthene	3000	JD
50-32-8	Benzo(a)pyrene	12000	JD
193-39-5	Indeno(1,2,3-cd)pyrene	4400	JD
53-70-3	Dibenzo(a,h)anthracene	21000	U D
191-24-2	Benzo(g,h,i)perylene	6300	JD

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-135(18-20)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-4

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: ED110210

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	25000	21000	ED
208-96-8-----	Acenaphthylene	1000		
83-32-9-----	Acenaphthene	530		
86-73-7-----	Fluorene	510		
85-01-8-----	Phenanthrene	1800		
120-12-7-----	Anthracene	710		
206-44-0-----	Fluoranthene	960		
129-00-0-----	Pyrene	1600		
56-55-3-----	Benzo(a)anthracene	630		
218-01-9-----	Chrysene	580		
205-99-2-----	Benzo(b)fluoranthene	580		
207-08-9-----	Benzo(k)fluoranthene	160		J
50-32-8-----	Benzo(a)pyrene	760		
193-39-5-----	Indeno(1,2,3-cd)pyrene	250		J
53-70-3-----	Dibenzo(a,h)anthracene	52		J
191-24-2-----	Benzo(g,h,i)perylene	350		J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-135 (18-20)
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-4DL

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: ED111309

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/13/00

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	21000	D
208-96-8-----	Acenaphthylene	1100	JD
83-32-9-----	Acenaphthene	550	JD
86-73-7-----	Fluorene	560	JD
85-01-8-----	Phenanthrene	2200	JD
120-12-7-----	Anthracene	700	JD
206-44-0-----	Fluoranthene	1200	JD
129-00-0-----	Pyrene	1900	JD
56-55-3-----	Benzo (a) anthracene	690	JD
218-01-9-----	Chrysene	610	JD
205-99-2-----	Benzo (b) fluoranthene	630	JD
207-08-9-----	Benzo (k) fluoranthene	3700	U D
50-32-8-----	Benzo (a) pyrene	930	JD
193-39-5-----	Indeno (1,2,3-cd) pyrene	3700	U D
53-70-3-----	Dibenzo (a,h) anthracene	3700	U D
191-24-2-----	Benzo (g,h,i) perylene	3700	U D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-136 (10-12)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-1

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED110208

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	200	J
208-96-8-----	Acenaphthylene	380	U
83-32-9-----	Acenaphthene	380	U
86-73-7-----	Fluorene	380	U
85-01-8-----	Phenanthrene	85	J
120-12-7-----	Anthracene	380	U
206-44-0-----	Fluoranthene	42	J
129-00-0-----	Pyrene	48	J
56-55-3-----	Benzo(a)anthracene	380	U
218-01-9-----	Chrysene	380	U
205-99-2-----	Benzo(b)fluoranthene	380	U
207-08-9-----	Benzo(k)fluoranthene	380	U
50-32-8-----	Benzo(a)pyrene	380	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	380	U
53-70-3-----	Dibenzo(a,h)anthracene	380	U
191-24-2-----	Benzo(g,h,i)perylene	380	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-136(24-26')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-2

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: ED110209

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	360	U
208-96-8-----	Acenaphthylene	360	U
83-32-9-----	Acenaphthene	360	U
86-73-7-----	Fluorene	360	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
56-55-3-----	Benzo (a) anthracene	360	U
218-01-9-----	Chrysene	360	U
205-99-2-----	Benzo (b) fluoranthene	360	U
207-08-9-----	Benzo (k) fluoranthene	360	U
50-32-8-----	Benzo (a) pyrene	360	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	360	U
53-70-3-----	Dibenzo (a,h) anthracene	360	U
191-24-2-----	Benzo (g,h,i) perylene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-141(16-18')

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-8

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED110217

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

91-20-3-----	Naphthalene	76000	59000	E
208-96-8-----	Acenaphthylene	5400		E
83-32-9-----	Acenaphthene	40000	26000	E
86-73-7-----	Fluorene	26000	15000	E
85-01-8-----	Phenanthrene	64000	52000	E
120-12-7-----	Anthracene	18000	14000	E
206-44-0-----	Fluoranthene	18000	21000	E
129-00-0-----	Pyrene	49000	33000	E
56-55-3-----	Benzo(a)anthracene	9400	12000	E
218-01-9-----	Chrysene	6900	10000	E
205-99-2-----	Benzo(b)fluoranthene	6000		E
207-08-9-----	Benzo(k)fluoranthene	1500		E
50-32-8-----	Benzo(a)pyrene	7400	13000	E
193-39-5-----	Indeno(1,2,3-cd)pyrene	2200		E
53-70-3-----	Dibenzo(a,h)anthracene	640		E
191-24-2-----	Benzo(g,h,i)perylene	3000		E

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-141(16-18)
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code: Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-8DL

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED110212

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO.	COMPOUND		
91-20-3	Naphthalene	59000	D
208-96-8	Acenaphthylene	6100	JD
83-32-9	Acenaphthene	26000	JD
86-73-7	Fluorene	15000	JD
85-01-8	Phenanthrene	52000	D
120-12-7	Anthracene	14000	JD
206-44-0	Fluoranthene	21000	JD
129-00-0	Pyrene	33000	JD
56-55-3	Benzo (a) anthracene	12000	JD
218-01-9	Chrysene	10000	JD
205-99-2	Benzo (b) fluoranthene	7500	JD
207-08-9	Benzo (k) fluoranthene	37000	U D
50-32-8	Benzo (a) pyrene	13000	JD
193-39-5	Indeno (1,2,3-cd) pyrene	37000	U D
53-70-3	Dibenzo (a,h) anthracene	37000	U D
191-24-2	Benzo (g,h,i) perylene	4300	JD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-141(4-6')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-7

Sample wt/vol: 30.7 (g/mL) g

Lab File ID: ED110121

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	9200	7100	E D
208-96-8-----	Acenaphthylene	1600		
83-32-9-----	Acenaphthene	2800		
86-73-7-----	Fluorene	1500		
85-01-8-----	Phenanthrene	7300	6400	E D
120-12-7-----	Anthracene	1500		
206-44-0-----	Fluoranthene	1900		
129-00-0-----	Pyrene	6400		E D
56-55-3-----	Benzo(a)anthracene	1700		
218-01-9-----	Chrysene	1600		
205-99-2-----	Benzo(b)fluoranthene	1400		
207-08-9-----	Benzo(k)fluoranthene	510		
50-32-8-----	Benzo(a)pyrene	1600		
193-39-5-----	Indeno(1,2,3-cd)pyrene	1200		
53-70-3-----	Dibenzo(a,h)anthracene	280		
191-24-2-----	Benzo(g,h,i)perylene	2100		

1C
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-141(4-6') DL

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-7DL

Sample wt/vol: 30.7 (g/mL) g

Lab File ID: ED110216

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	7100	D
208-96-8-----	Acenaphthylene	2400	D
83-32-9-----	Acenaphthene	3500	D
86-73-7-----	Fluorene	2200	D
85-01-8-----	Phenanthrene	6400	D
120-12-7-----	Anthracene	1800	D
206-44-0-----	Fluoranthene	2800	D
129-00-0-----	Pyrene	6400	D
56-55-3-----	Benzo(a)anthracene	2000	D
218-01-9-----	Chrysene	1800	D
205-99-2-----	Benzo(b)fluoranthene	1800	D
207-08-9-----	Benzo(k)fluoranthene	610	JD
50-32-8-----	Benzo(a)pyrene	1900	D
193-39-5-----	Indeno(1,2,3-cd)pyrene	1100	JD
53-70-3-----	Dibenzo(a,h)anthracene	220	JD
191-24-2-----	Benzo(g,h,i)perylene	1600	D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-144(20-22)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-12

Sample wt/vol: 30.1 (g/mL) g

Lab File ID: ED110214

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	820000	
208-96-8-----	Acenaphthylene	560000	J
83-32-9-----	Acenaphthene	14000	
86-73-7-----	Fluorene	58000	
85-01-8-----	Phenanthrene	43000	
120-12-7-----	Anthracene	140000	
206-44-0-----	Fluoranthene	45000	
129-00-0-----	Pyrene	71000	
56-55-3-----	Benzo (a) anthracene	100000	
218-01-9-----	Chrysene	34000	J
205-99-2-----	Benzo (b) fluoranthene	31000	J
207-08-9-----	Benzo (k) fluoranthene	26000	J
50-32-8-----	Benzo (a) pyrene	11000	J
193-39-5-----	Indeno (1,2,3-cd) pyrene	35000	J
53-70-3-----	Dibenzo (a,h) anthracene	14000	J
191-24-2-----	Benzo (g,h,i) perylene	36000	U
		18000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB-144 (20-22)
DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-12DL

Sample wt/vol: 30.1 (g/mL) g

Lab File ID: ED110211

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1000.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	820000	D
208-96-8-----	Acenaphthylene	360000	U D
83-32-9-----	Acenaphthene	70000	JD
86-73-7-----	Fluorene	50000	JD
85-01-8-----	Phenanthrene	200000	JD
120-12-7-----	Anthracene	51000	JD
206-44-0-----	Fluoranthene	84000	JD
129-00-0-----	Pyrene	110000	JD
56-55-3-----	Benzo (a) anthracene	360000	U D
218-01-9-----	Chrysene	360000	U D
205-99-2-----	Benzo (b) fluoranthene	360000	U D
207-08-9-----	Benzo (k) fluoranthene	360000	U D
50-32-8-----	Benzo (a) pyrene	360000	U D
193-39-5-----	Indeno (1,2,3-cd) pyrene	360000	U D
53-70-3-----	Dibenzo (a,h) anthracene	360000	U D
191-24-2-----	Benzo (g,h,i) perylene	360000	U D

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-144(4-6')

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-9

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED110215

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 44 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/kg

Q

91-20-3-----	Naphthalene	1800000	
208-96-8-----	Acenaphthylene	1500000	J
83-32-9-----	Acenaphthene	19000	J
86-73-7-----	Fluorene	5000	J
85-01-8-----	Phenanthrene	8500	J
120-12-7-----	Anthracene	33000	J
206-44-0-----	Fluoranthene	2500	J
129-00-0-----	Pyrene	8900	J
56-55-3-----	Benzo(a)anthracene	28000	J
218-01-9-----	Chrysene	3400	J
205-99-2-----	Benzo(b)fluoranthene	3600	J
207-08-9-----	Benzo(k)fluoranthene	2700	J
50-32-8-----	Benzo(a)pyrene	1200	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	1400	J
53-70-3-----	Dibenzo(a,h)anthracene	1600	J
191-24-2-----	Benzo(g,h,i)perylene	6000	J
		2800	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

SB-144(4-6') DL

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L64720

Matrix: (soil/water) SOIL

Lab Sample ID: L64720-9DL

Sample wt/vol: 30 (g/mL) g

Lab File ID: ED111308

Level: (low/med) LOW

Date Received: 10/21/00

% Moisture: 44 decanted: (Y/N) N

Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/13/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1000.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

91-20-3-----	Naphthalene	1800000	D
208-96-8-----	Acenaphthylene	600000	U D
83-32-9-----	Acenaphthene	600000	U D
86-73-7-----	Fluorene	600000	U D
85-01-8-----	Phenanthrene	600000	U D
120-12-7-----	Anthracene	600000	U D
206-44-0-----	Fluoranthene	600000	U D
129-00-0-----	Pyrene	600000	U D
56-55-3-----	Benzo(a)anthracene	600000	U D
218-01-9-----	Chrysene	600000	U D
205-99-2-----	Benzo(b)fluoranthene	600000	U D
207-08-9-----	Benzo(k)fluoranthene	600000	U D
50-32-8-----	Benzo(a)pyrene	600000	U D
193-39-5-----	Indeno(1,2,3-cd)pyrene	600000	U D
53-70-3-----	Dibenzo(a,h)anthracene	600000	U D
191-24-2-----	Benzo(g,h,i)perylene	600000	U D

CYANIDE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 9010.

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:

Concentration (C) qualifiers:

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

- E The reported value is estimated due to the presence of interference.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.

Validation qualifiers:

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- 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 tests, 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 cyanide analyses under NYSASP protocols is 26 days from validated time of sample receipt (VTSR). The technical holding time for cyanide analyses is 28 days from date of collection.

All samples were analyzed within specified holding time.

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 (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

All calibration and preparation blanks were found to be acceptable, with no analytes detected above the CRDL.

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 continuing performance is satisfactory.

3.1 Initial Calibration

The correlation coefficient of the initial calibration was greater than 0.995 and the initial calibration verification standard recovery was within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

The matrix spike recovery was above control limits. All positive data have been qualified as estimated based on the recovery.

4.2 Laboratory Duplicate

The laboratory duplicate results were outside control limits.

5. Field Duplicate

No field duplicate was submitted for cyanide analysis.

6. Laboratory Control Sample (LCS)

All LCS recoveries were within control limits.

7. General Comments

The matrix spike, matrix spike duplicate and associated sample were distilled and analyzed twice. The spike and duplicate results were outside control limits for both analyses. Since the spike recovery and duplicate results were somewhat better in the second analysis, the results of that analysis were reported. The end-user should be aware that the sample was non-homogenous and the results should be considered estimated only.

8. General Comments

The temperature of the samples was above the specified limit when received at the laboratory (8.2°C). No data have been qualified based on the temperature excursions.

9. 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 specified in the method.

Data Validation Checksheets

Inorganic Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</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> </u>	<u>X</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>Form I to IX</u>			
Are all the Form I through Form IX labeled with:			
Laboratory name?	<u>X</u>	<u> </u>	<u> </u>
Sample No.?	<u>X</u>	<u> </u>	<u> </u>
SDG No.?	<u>X</u>	<u> </u>	<u> </u>
Correct units?	<u>X</u>	<u> </u>	<u> </u>
Matrix?	<u>X</u>	<u> </u>	<u> </u>
<u>Raw Data</u>			
Is the distillation log for cyanides present?	<u>X</u>	<u> </u>	<u> </u>
Are pH values listed?	<u> </u>	<u> </u>	<u>X</u>
pH for cyanide analyses >12 (waters)?	<u> </u>	<u> </u>	<u>X</u>
Percent solids calculation present for soils/sediments?	<u>X</u>	<u> </u>	<u> </u>
Are preparation dates present on sample preparation logs/bench sheets?	<u>X</u>	<u> </u>	<u> </u>
Are the measurement read out records present cyanide?	<u>X</u>	<u> </u>	<u> </u>
Is the data legible?	<u>X</u>	<u> </u>	<u> </u>
Is the data properly labeled?	<u>X</u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Were cyanide distillations performed within 14 days?	<u>X</u>	<u> </u>	<u> </u>
<u>Form I (Final Data)</u>			
Are all forms complete?	<u>X</u>	<u> </u>	<u> </u>
Are correct units indicated on Form I's?	<u>X</u>	<u> </u>	<u> </u>
Are soil sample results for each parameter corrected for percent solids?	<u>X</u>	<u> </u>	<u> </u>
Are all "less than IDL" values properly coded with "U"?	<u>X</u>	<u> </u>	<u> </u>
Are the correct concentration qualifiers used with final data?	<u>X</u>	<u> </u>	<u> </u>
Is a physical description of samples given on Form I's?	<u> </u>	<u>X</u>	<u> </u>

Inorganic Data Validation Checklist - Page 2

	YES	NO	NA
<u>Calibration</u>			
Is a record of 4 point calibration present for cyanide analysis?	<u>X</u>	<u> </u>	<u> </u>
Is the correlation coefficient less than 0.995?	<u>X</u>	<u> </u>	<u> </u>
<u>Form II A (Initial and Continuing Calibration Verification)</u>			
Present and complete for all analytes?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration standards (initial and continuing) within control limits?	<u>X</u>	<u> </u>	<u> </u>
Was continuing calibration performed every 10 samples or every 2 hours?	<u>X</u>	<u> </u>	<u> </u>
Was the ICV for cyanides distilled?	<u>X</u>	<u> </u>	<u> </u>
<u>Form III (Initial and Continuing Calibration Blanks)</u>			
Present and complete?	<u>X</u>	<u> </u>	<u> </u>
Was an initial calibration blank analyzed?	<u>X</u>	<u> </u>	<u> </u>
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration blanks (when $IDL < CRDL$) less than or equal to the Contract Required Detection Limits (CRDLs)?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration blanks less than two times Instrument Detection Limit (when $IDL > CRDL$)?	<u> </u>	<u> </u>	<u>X</u>
<u>Form III (Preparation Blank)</u>			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	<u>X</u>	<u> </u>	<u> </u>
each batch of digested samples?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>
Is concentration of prep. blank value less than the CRDL (when $IDL \leq CRDL$)?	<u>X</u>	<u> </u>	<u> </u>
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	<u> </u>	<u> </u>	<u>X</u>
Is concentration of prep. blank value less than two times IDL (when $IDL > CRDL$)?	<u> </u>	<u> </u>	<u>X</u>
Is concentration of prep. blank below the negative CRDL?	<u> </u>	<u>X</u>	<u> </u>

Inorganic Data Validation Checklist - Page 3

	YES	NO	NA
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>
Was field blank used for spiked sample?	<u> </u>	<u>X</u>	<u> </u>
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?	<u> </u>	<u>X</u>	<u> </u>
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	<u>X</u>	<u> </u>	<u> </u>
<u>Aqueous</u>			
Are any spike recoveries:			
less than 30%?	<u> </u>	<u> </u>	<u>X</u>
between 30-74%?	<u> </u>	<u> </u>	<u>X</u>
between 126-150%?	<u> </u>	<u> </u>	<u>X</u>
greater than 150%?	<u> </u>	<u> </u>	<u>X</u>
<u>Soil/Sediment</u>			
Are any spike recoveries:			
less than 10%?	<u> </u>	<u>X</u>	<u> </u>
between 10-74%?	<u> </u>	<u>X</u>	<u> </u>
between 126-200%?	<u>X</u>	<u> </u>	<u> </u>
greater than 200%?	<u>X</u>	<u> </u>	<u> </u>
Form VI (Lab Duplicates)			
Present and complete for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>
Was field blank used for duplicate analysis?	<u> </u>	<u>X</u>	<u> </u>
Are all values within control limits (RPD 20% or difference $\leq \pm$ CRDL)?	<u> </u>	<u>X</u>	<u> </u>
If no, are all results outside the control limits flagged with an * on Form I's and VI?	<u>X</u>	<u> </u>	<u> </u>
<u>Aqueous</u>			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?	<u> </u>	<u> </u>	<u>X</u>

Inorganic Data Validation Checklist - Page 4

	YES	NO	NA
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	_____	_____	<u>X</u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?	<u>X</u>	_____	_____
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?	_____	_____	<u>X</u>
<u>Field Duplicates</u>			
Were field duplicates analyzed?	_____	<u>X</u>	_____
<u>Aqueous</u>			
Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?	_____	_____	<u>X</u>
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	_____	_____	<u>X</u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?	_____	_____	<u>X</u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) > 2xCRDL?	_____	_____	<u>X</u>
<u>Form VII (Laboratory Control Sample)</u>			
Was one LCS prepared and analyzed for:			
each SDG?	<u>X</u>	_____	_____
each batch samples digested/distilled?	<u>X</u>	_____	_____
<u>Aqueous LCS</u>			
Is any LCS recovery:			
less than 50%?	_____	<u>X</u>	_____
between 50% and 79%?	_____	<u>X</u>	_____
between 121% and 150%?	_____	<u>X</u>	_____
greater than 150%?	_____	<u>X</u>	_____
<u>Solid LCS</u>			
Is LCS "Found" value higher than the control limits?	_____	<u>X</u>	_____
Is LCS "Found" lower than the control limits?	_____	<u>X</u>	_____

Inorganic Data Validation Checklist - Page 5

	YES	NO	NA
<u>Dissolved/Total for Inorganic/Total Analytes</u>			
Were any analyses performed for dissolved as well as total analytes on the same sample.	_____	<u>X</u>	_____
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if greater than CRDL)	_____	_____	<u>X</u>
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?	_____	_____	<u>X</u>
<u>Field Blank</u>			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	_____	_____	<u>X</u>
If no, was field blank value already rejected due to other QC criteria?	_____	_____	<u>X</u>
<u>Form X, XI, XII (Verification of Instrumental Parameters)</u>			
Is verification report present for Instrument Detection Limits?	_____	<u>X</u>	_____
Is IDL greater than CRDL for any analyte?	_____	<u>X</u>	_____
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.	_____	_____	<u>X</u>
Was any sample result higher than the highest calibration standard?	<u>X</u>	_____	_____
If yes, was the sample diluted to obtain the result on Form I?	<u>X</u>	_____	_____
<u>Percent Solids</u>			
Are the percent solids in soil/sediment(s):			
< 50%?	<u>X</u>	_____	_____
< 10%?	_____	<u>X</u>	_____

Corrected Sample Analysis Data Sheets

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-135(12-14)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64720

Matrix (soil/water): Soil

Lab Sample ID: L64720-3

Level (low/med): LOW

Date Received: 10/21/00

% Solids: 79.6

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.60	U	*N	C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-135(18-20)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64720

Matrix (soil/water): Soil

Lab Sample ID: L64720-4

Level (low/med): LOW

Date Received: 10/21/00

% Solids: 89.4

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.53	U	*N	C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

SB-136(10-12)

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64720

Matrix (soil/water): Soil

Lab Sample ID: L64720-1

Level (low/med): LOW

Date Received: 10/21/00

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.54	U	*N	C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-136(24-26)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64720

Matrix (soil/water): Soil

Lab Sample ID: L64720-2

Level (low/med): LOW

Date Received: 10/21/00

% Solids: 90.2

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.52	U	*N	C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-141(4-6)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64720

Matrix (soil/water): Soil

Lab Sample ID: L64720-7

Level (low/med): LOW

Date Received: 10/21/00

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.62	U	*N	C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-141(16-18)

Lab Name: GALSON LABORATORIES Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L64720

Matrix (soil/water): SOIL Lab Sample ID: L64720-8

Level (low/med): LOW Date Received: 10/21/00

% Solids: 90.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.53	U	*N	C

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

SB-144(4-6)

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64720

Matrix (soil/water): Soil

Lab Sample ID: L64720-9

Level (low/med): LOW

Date Received: 10/21/00

% Solids: 55.7

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	66.1		*N S	C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SB-144(20-22)

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64720

Matrix (soil/water): Soil

Lab Sample ID: L64720-12

Level (low/med): LOW

Date Received: 10/21/00

% Solids: 91.4

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	0.51	U	*N	C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

RB-2

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L64720

Matrix (soil/water): Water

Lab Sample ID: L64720-6

Level (low/med): LOW

Date Received: 10/21/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	10.0	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

Laboratory Narrative



6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Ms. Lynette Mokry
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC North Albany Project No. 366.08.01
SDG L64720

The following package contains the analytical results of the soil samples submitted to our laboratory on October 21, 2000. The samples were received intact and under proper chain of custody. The temperature of the samples was checked upon receipt. The sample temperature, as recorded with a temperature gun, was 8.2°C. The samples were assigned to login and sample delivery group (SDG) L64720.

The samples are reported according to ASP Category B guidelines. Sample SB-144 (4-6) was submitted for matrix spike and spike duplicate analyses. The samples were analyzed by SW846 methods 8260 for BTEX, 8270 for PAHs and 9010 for cyanide.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the *package review checklists*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: November 14, 2000



GC/MS VOLATILES PACKAGE REVIEW CHECKLIST

Client: BBL Project: N. Albany SDG: L64720

	YES	NO	NA
DEC FORMS: Present and Complete	☒	☐	☐
Hold Times Met	☒	☐	☐

Comments: _____

FORM 1A: Present and Complete	☒	☐	☐
FORM 1E: Present and Complete	☐	☐	☒
Raw Data Present for All Samples	☒	☐	☐

Comments: _____

FORM 2A/B: Present and Complete	☒	☐	☐
Surrogate Recoveries in Limits	☐	☒	☐
If No, sample(s) reanalyzed	☒	☐	☐

Comments: _____

FORM 3A/B: Present and Complete	☒	☐	☐
Spike Recoveries in Limits	☒	☐	☐

Comments: _____

FORM 4A: Present and Complete	☒	☐	☐
FORM 5A: Present and Complete	☒	☐	☐
MDLs: Present and Complete	☒	☐	☐

GC/MS VOLATILES PACKAGE REVIEW CHECKLIST

Client: BBL Project: N. Albany SDG: L64720

	<u>YES</u>	<u>NO</u>	<u>NA</u>
FORM 6A: Present and Complete Calibration(s) Pass	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 7A: Present and Complete Calibration(s) Pass	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 8A: Present and Complete Internal Std Areas in Limits	<u>✓</u>	<u>—</u>	<u>—</u>
If Not, Sample(s) Reanalyzed	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 1A - Method Blanks, MS/MSD/MSB:			
Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>
Raw Data Present	<u>✓</u>	<u>—</u>	<u>—</u>
Method Blanks <MDL	<u>✓</u>	<u>—</u>	<u>—</u>
If not, Associated Data Flagged "B"	<u>—</u>	<u>—</u>	<u>✓</u>

Comments: _____

INTERNAL CHAIN OF CUSTODY: Present	<u>✓</u>	<u>—</u>	<u>—</u>

PERCENT MOISTURE SHEET: Present	<u>✓</u>	<u>—</u>	<u>—</u>

SECTION SUPERVISOR: J. Sikus DATE: 11/7/00

QC REVIEWER: [Signature] DATE: 11/14/00

GC/MS Semivolatile Package Review Checklist

Client: QGL Project: NIMON, ALBANY SDG: LL4720

YES NO NA

DEC Forms

present and complete
hold times met

✓ ✓ ✓

comments : _____

Internal Chain-of-Custody present and complete

✓ ✓ ✓

Form 2C/2D

present and complete
surrogate recoveries within limits
sample(s) reanalyzed

✓ ✓ ✓

comments : _____

Form 3C/3D

present and complete
spike recoveries within limits

✓ ✓ ✓

comments : LOW % REC + POSA RSD DUE TO MATRIX &/OR HIGH CONC. OF TARGET
CMPS

Form 4B

present and complete

✓ ✓ ✓

Form 5B

present and complete

✓ ✓ ✓

IDLs

present and complete

✓ ✓ ✓

Sample Form 1B/1C/1F

present and complete
raw data present for all samples

✓ ✓ ✓

comments : _____

Form 6B/6C

present and complete
calibration(s) pass

✓ ✓ ✓

comments : _____

GC/MS Semivolatile Package Review Checklist

Client : ABL

Project : NIMO/N. ALBANY SDG : 164700

		<u>YES</u>	<u>NO</u>	<u>NA</u>
Form 7B/7C	present and complete calibration(s) pass	☒	☐	☐

comments : _____

Form 8B/8C	present and complete internal standard areas within limits	☒	☒	☐
	sample(s) reanalyzed	☒	☐	☐

comments : _____

QC Form 1B/1C/1F	present and complete raw data present for all samples	☒	☐	☐
	method blank results <MDL	☒	☐	☐
	associated results flagged "B"	☐	☐	☒

comments : _____

Calculation Sheet	present	☒	☐	☐
Instrument Logs	present and complete	☒	☐	☐
Extraction Logs	present and complete	☒	☐	☐
Moisture Sheet	present and complete	☒	☐	☐

additional comments : _____

Section Supervisor : Thomas V. Kappil Date : 11/14/00

QC Reviewer : Sydney Lee Mac Date : 11/14/00

CONVENTIONALS PACKAGE REVIEW CHECKLIST

CLIENT BBL

PROJECT N. Albany

SDG LG4720

	YES	NO	NA
DEC FORMS: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>
HOLD TIMES MET	<u>X</u>	<u> </u>	<u> </u>

COMMENTS: _____

COVER PAGE: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>
FORM 1: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>

COMMENTS: _____

FORM 2: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>
ICV/CCV RECOVERIES WITHIN LIMITS	<u>X</u>	<u> </u>	<u> </u>

COMMENTS: _____

FORM 3: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>
ICB/CCBs LESS THAN CRDL	<u>X</u>	<u> </u>	<u> </u>
ALL PBs PRESENT AND <CRDL	<u>X</u>	<u> </u>	<u> </u>

COMMENTS: _____

FORM 5: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>
IF SR<4XSA, RECOVERIES WITHIN 75-125%	<u> </u>	<u>X</u>	<u> </u>
IF NO, POST SPIKES PERFORMED	<u> </u>	<u>X</u>	<u> </u>
ASSOCIATED RESULTS FLAGGED "N"	<u>X</u>	<u> </u>	<u> </u>

COMMENTS: The sample, MS and MSD were distilled and analyzed twice. Both times the spike and dup failed. Sulfide was not found in the scrubber solutions of the first run, but was found in the second run. It was removed w/ Cadmium Carbonate. The spike recovery and duplicate RPD were better with the second run and those are the results that are reported. The sample was not homogenous, had a strong Petroleum odor, and was white sand/rock.

CONVENTIONALS PACKAGE REVIEW CHECKLIST

CLIENT BBL

PROJECT N. Albany

SDG LL4720

	<u>YES</u>	<u>NO</u>	<u>NA</u>
FORM 6: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>
IF CRDL < SR < 5XCRDL, SR-DR < CRDL	<u> </u>	<u> </u>	<u>X</u>
IF SR > 5XCRDL, RPD < 20%	<u> </u>	<u>X</u>	<u> </u>
IF NO, ASSOCIATED RESULTS FLAGGED "*"	<u>X</u>	<u> </u>	<u> </u>

COMMENTS: See Form 5 comment on p.1 of checklist

FORM 7: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>
RECOVERIES WITHIN 80-120% FOR WATER	<u>X</u>	<u> </u>	<u> </u>
RECOVERIES WITHIN LIMITS FOR SOILS	<u>X</u>	<u> </u>	<u> </u>

COMMENTS:

FORM 13: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>

COMMENTS:

FORM 14: PRESENT AND COMPLETE	<u>X</u>	<u> </u>	<u> </u>

COMMENTS:

RAW DATA: PRESENT FOR ALL SAMPLES	<u>X</u>	<u> </u>	<u> </u>

PERCENT MOISTURE CALCULATION: PRESENT	<u>X</u>	<u> </u>	<u> </u>

SECTION SUPERVISOR: Denise MacSaff

DATE: 11/6/00

QC REVIEWER: David Lee M. J. D.

DATE: 11/14/00

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L64720

SDG : L64720 MATRIX : Soil

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB's	Organophos Pesticides	Chlor. Herb.	T. Dithio- Carbamates Pest.	Methyl- Carbamates	Organics List #	ETU	Karb.	CN- Total	CN- Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
SB-136(10-12')	L64720-1	X	X								X					
SB-136(24-26')	L64720-2	X	X								X					
SB-135(12-14')	L64720-3	X	X								X					
SB-135(18-20')	L64720-4	X	X								X					
SB-141(4-6')	L64720-7	X	X								X					
SB-141(16-18')	L64720-8	X	X								X					
SB-144(4-6')	L64720-9	X	X								X					
SB-144(4-6')MS	L64720-10	X	X								X					
SB-144(4-6')MSD	L64720-11	X	X								X					
SB-144(20-22')	L64720-12	X	X								X					
SB-DUP-2	L64720-13	X														
MSB/LCS	L64720-14	X	X								X					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
RB-2 (RINSE BLANK) L64720-6	WATER	20-OCT-00	21-OCT-00	NA	24-OCT-00
SB-135 (12-14') L64720-3	SOIL	19-OCT-00	21-OCT-00	NA	24-OCT-00
SB-135 (18-20') L64720-4	SOIL	19-OCT-00	21-OCT-00	NA	24-OCT-00
SB-136 (10-12') L64720-1	SOIL	19-OCT-00	21-OCT-00	NA	24-OCT-00
SB-136 (10-12') R L64720-1 RE	SOIL	19-OCT-00	21-OCT-00	NA	25-OCT-00
SB-136 (24-26') L64720-2	SOIL	19-OCT-00	21-OCT-00	NA	24-OCT-00
SB-136 (24-26') R L64720-2 RE	SOIL	19-OCT-00	21-OCT-00	NA	25-OCT-00
SB-141 (16-18') L64720-8	SOIL	20-OCT-00	21-OCT-00	NA	25-OCT-00
SB-141 (4-6') L64720-7	SOIL	20-OCT-00	21-OCT-00	NA	24-OCT-00
SB-144 (20-22') L64720-12	SOIL	20-OCT-00	21-OCT-00	NA	25-OCT-00
SB-144 (4-6') L64720-9	SOIL	20-OCT-00	21-OCT-00	NA	25-OCT-00
SB-144 (4-6') MS L64720-10	SOIL	20-OCT-00	21-OCT-00	NA	25-OCT-00
SB-144 (4-6') MSD L64720-11	SOIL	20-OCT-00	21-OCT-00	NA	25-OCT-00
SB-DUP-2 L64720-13	SOIL	19-OCT-00	21-OCT-00	NA	25-OCT-00
TRIP BLANK L64720-15	WATER	20-OCT-00	21-OCT-00	NA	24-OCT-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
RB-2 (RINSE BLANK) L64720-6	WATER	SW846 8260	NA		1
SB-135 (12-14') L64720-3	SOIL	SW846 8260	NA		2
SB-135 (18-20') L64720-4	SOIL	SW846 8260	NA		1
SB-136 (10-12') L64720-1	SOIL	SW846 8260	NA		1
SB-136 (10-12') R L64720-1 RE	SOIL	SW846 8260	NA		1
SB-136 (24-26') L64720-2	SOIL	SW846 8260	NA		1
SB-136 (24-26') R L64720-2 RE	SOIL	SW846 8260	NA		1
SB-141 (16-18') L64720-8	SOIL	SW846 8260	NA		1
SB-141 (4-6') L64720-7	SOIL	SW846 8260	NA		1
SB-144 (20-22') L64720-12	SOIL	SW846 8260	NA		1
SB-144 (4-6') L64720-9	SOIL	SW846 8260	NA		1
SB-144 (4-6') MS L64720-10	SOIL	SW846 8260	NA		1
SB-144 (4-6') MSD L64720-11	SOIL	SW846 8260	NA		1
SB-DUP-2 L64720-13	SOIL	SW846 8260	NA		1
TRIP BLANK L64720-15	WATER	SW846 8260	NA		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
RB-2 (RINSE BLANK) L64720-6	WATER	20-OCT-00	21-OCT-00	26-OCT-00	01-NOV-00
SB-135 (12-14') L64720-3	SOIL	19-OCT-00	21-OCT-00	26-OCT-00	01-NOV-00
SB-135 (12-14') D L64720-3 DL	SOIL	19-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-135 (18-20') L64720-4	SOIL	19-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-135 (18-20') D L64720-4 DL	SOIL	19-OCT-00	21-OCT-00	26-OCT-00	13-NOV-00
SB-136 (10-12') L64720-1	SOIL	19-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-136 (24-26') L64720-2	SOIL	19-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-141 (16-18') D L64720-8 DL	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-141 (16-18') L64720-8	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-141 (4-6') L64720-7	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	01-NOV-00
SB-141 (4-6') DL L64720-7 DL	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-144 (20-22') D L64720-12 DL	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-144 (20-22') L64720-12	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-144 (4-6') L64720-9	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	02-NOV-00
SB-144 (4-6') DL L64720-9 DL	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	13-NOV-00
SB-144 (4-6') MS L64720-10	SOIL	20-OCT-00	21-OCT-00	26-OCT-00	13-NOV-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
RB-2 (RINSE BLANK) L64720-6	WATER	SW846 8270	SW846/3510 /8270PAH	NONE	1
SB-135 (12-14') L64720-3	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-135 (12-14') D L64720-3 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		50
SB-135 (18-20') L64720-4	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-135 (18-20') D L64720-4 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		10
SB-136 (10-12') L64720-1	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-136 (24-26') L64720-2	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-141 (16-18') D L64720-8 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		100
SB-141 (16-18') L64720-8	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-141 (4-6') L64720-7	SOIL	SW846 8270	SW846/3550 /8270PAH		1
SB-141 (4-6') DL L64720-7 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		4
SB-144 (20-22') D L64720-12 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		1000
SB-144 (20-22') L64720-12	SOIL	SW846 8270	SW846/3550 /8270PAH		100
SB-144 (4-6') L64720-9	SOIL	SW846 8270	SW846/3550 /8270PAH		10
SB-144 (4-6') DL L64720-9 DL	SOIL	SW846 8270	SW846/3550 /8270PAH		1000
SB-144 (4-6') MS L64720-10	SOIL	SW846 8270	SW846/3550 /8270PAH	✓	10

SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - INORGANIC ANALYSIS

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE RECEIVED	DATE ANALYZED
RB-2 RINSE BLANK L64720-6	WATER	TOTAL CYANIDE	10/21/2000	10/27/2000
SB-135(12-14) L64720-3	SOIL	TOTAL CYANIDE	10/21/2000	10/27/2000
SB-135(18-20) L64720-4	SOIL	TOTAL CYANIDE	10/21/2000	10/27/2000
SB-136(10-12) L64720-1	SOIL	TOTAL CYANIDE	10/21/2000	10/27/2000
SB-136(24-26) L64720-2	SOIL	TOTAL CYANIDE	10/21/2000	10/27/2000
SB-141(16-18) L64720-8	SOIL	TOTAL CYANIDE	10/21/2000	10/27/2000
SB-141(4-6) L64720-7	SOIL	TOTAL CYANIDE	10/21/2000	10/27/2000
SB-144(20-22) L64720-12	SOIL	TOTAL CYANIDE	10/21/2000	10/30/2000
SB-144(4-6) L647210-9	SOIL	TOTAL CYANIDE	10/21/2000	11/01/2000
SB-144(4-6)MS L64720-10S	SOIL	TOTAL CYANIDE	10/21/2000	11/01/2000
SB-144(4-6)MSD L64720-11D	SOIL	TOTAL CYANIDE	10/21/2000	11/01/2000

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	CN	
L64720	10/19/00	1995	SB-136(10-12')	soil	no	no	--	no	VOA - int std BNA - msb ² , ms ² CN - ms
L64720	10/19/00	1995	SB-136(24-26')	soil	no	no	--	no	VOA - int std, surr ² BNA - msb ² , ms ² CN - ms
L64720	10/19/00	1995	SB-135(12-14')	soil	no	no	--	no	VOA - temperature BNA - msb ² , ms ² int std CN - ms
L64720	10/19/00	1995	SB-135(18-20')	soil	no	no	--	no	VOA - temperature BNA - msb ² , ms ² CN - ms
L64720	10/20/00	1995	RB-2 (RINSE BLANK)	water	yes	yes	--	yes	
L64720	10/20/00	1995	SB-141(4-6')	soil	no	no	--	no	VOA - temperature BNA - msb ² , ms ² int std CN - ms
L64720	10/20/00	1995	SB-141(16-18')	soil	no	no	--	nos	VOA - temperature BNA - msb ² , ms ² , surr ² CN - ms
L64720	10/20/00	1995	SB-144(4-6')	soil			--	no	VOA - temperature BNA - msb ² , ms ² , surr ² , int std CN - ms
L64720	10/20/00	1995	SB-144(20-22')	soil			--	no	VOA - temperature BNA - msb ² , ms ² , surr ² CN - ms
L64720	10/19/00	1995	SB-DUP-2	soil	no	--	--	--	VOA - temperature

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
- 2 The deviation resulted in no qualification of data.
- 3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

DATA REVIEW FOR

NMPC
NORTH ALBANY

SDG# L65205

VOLATILE, SEMIVOLATILE, PCB
AND INORGANIC ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

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

Summary

The following is an assessment of the data package for SDG# L65205 for sampling at the NMPC- North Albany 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				
				VOA	BNA	PCB	TAL	TAL-F
MW-1	L65205-1	water	11/1/00	x	x		x	
TRIP BLANK 1	L65205-2	water	--	x				
MW-20D	L65252-1	water	11/2/00	x	x		x	
MW-3	L65252-2	water	11/2/00	x	x		x	
MW-6A*	L65252-3	water	11/2/00	x	x		x	
MW-DUP-1	L65252-6	water	11/2/00	x	x		x	
TRIP BLANK 2	L65252-7	water	--	x				
MW-21R*	L65272-10	water	11/3/00	x	x	x	x	
MW-21D	L65272-2	water	11/3/00	x	x		x	
MW-22R	L65272-3	water	11/3/00	x	x		x	
MW-22S	L65272-4	water	11/3/00	x	x		x	
MW-DUP-2	L65272-5	water	11/3/00			x		
TRIP BLANK 3	L65272-6	water	--	x				
MW-19D	L65476-1	water	11/7/00	x	x		x	
MW-16D	L65476-4	water	11/7/00	x	x		x	
MW-15S	L65476-5	water	11/7/00	x	x		x	
TRIP BLANK 4	L65476-6	water	--	x				
MW-16R	L65538-1/6	water	11/8/00	x	x		x	x
MW-17S	L65538-2	water	11/8/00	x	x		x	
MW-17D	L65538-3	water	11/8/00	x	x		x	
MW-12	L65538-4	water	11/8/00	x	x		x	
TRIP BLANK 5	L65538-5	water		x				

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260 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 tests, 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 NYSASP is 10 days from sample receipt. The technical holding time for unpreserved waters is 7 days from sample collection.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, and 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.

Acetone was detected in the method blanks and acetone and methylene chloride were detected in the trip blanks. Based on the blank content, data for acetone have been qualified as undetected in samples MW-19D, MW-22R, MW-22S, MW6A and MW-DUP-1.

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 percent relative standard deviation (%RSD) limits for select compounds only and allows two outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD were less than 30% and the response factors were greater than 0.05 for all compounds, with the following exception:

Instrument MSB	10/18/00
Bromomethane	31.2%

Data for bromomethane have been qualified as estimated in the associated samples *MW-1*, *MW-6A*, *MW-6AMS*, *MW-6AMSD*, *MW-20D*, *MW-3*, *MW-DUP-1*, *MW-15S*, *MW-16D*, *MW-19D*, *MW-21D*, *MW-21R*, *MW-22R*, *MW-22S*, *TRIP BLANK 1*, *TRIP BLANK 2*, *TRIP BLANK 3* and *TRIP BLANK 4* based on the %RSD.

4.2 Continuing Calibration

The method species percent drift (%D) criteria for select compounds only. A technical review applies limits to all compounds with no exceptions.

The response for several compounds in the continuing calibration standards were outside 25% difference (%D) of the initial calibration, as summarized on the attached calibration summary sheets. All positive data for compounds with increasing response factors and all data for compounds with decreasing responses (designated as negative values) have been qualified as estimated in the associated samples based on the %D.

5. Surrogates / System Monitoring Compounds

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

All surrogate recoveries were within control limits.

6. Internal Standard Performance

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

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

7. Compound Identification

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

All identified compounds met the specified criteria.

Several semivolatile target and non-target compounds were included among the tentatively identified compounds listed as present in the samples. Since the measurement of these compounds is better suited to the semivolatile analyses, their presence in this fraction has been rejected.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

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

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicates

Results for the duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-20D / MW-DUP-1	chloromethane	ND	2J	NA
	methylene chloride	ND	6	NA
	toluene	ND	3J	NA

ND Not detected.

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

The duplicate results are acceptable.

11. General Comments

The VOA vials for sample MW-21D were mislabelled in the field. The proper sample identification was determined based on the labeled sample time and date.

All samples were analyzed at elevated rather than the method specified ambient temperatures. All data have been qualified as estimated based on the method non-compliance.

12. 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 Checksheets

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?	<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> </u>	<u> X </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> X </u>	<u> </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 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>
Was one 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> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<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> 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 a 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> X </u>	<u> </u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 2

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

Volatile 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> </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 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> </u>	<u> X </u>	<u> </u>
Are the average RRFs equal to or greater than minimum requirements?	<u> X </u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting the RRFs or RSDs?	<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> </u>	<u> X </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> X </u>	<u> </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>

Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
<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*		
		TOL	BFB	DCE	DFB	CBZ	DCB
MW-1							
TRIP BLANK 1							
MW-20D							
MW-3							
MW-6A							
MW-6A MS							
MW-6A MSD							
MW-DUP-1							
TRIP BLANK 2							
MW-21R							
MW-22R							
MW-22S							
TRIP BLANK 3							
MW-19D							
MW-16D							
MW-15S							
TRIP BLANK 4							
MW-16R							
MW-16R DL							
MW-17S							
MW-17D							
MW-17DDL							
MW-12							
TRIP BLANK 5							

Surrogates:

TOL Toluene-d8
 BFB Bromofluorobenzene
 DCE 1,4-Dichloroethane-d4

Internal Standards:

DFB 1,4-Difluorobenzene
 DCB 1,4-Dichlorobenzene-d4
 CBZ Chlorobenzene-d5

Qualifiers:

D Diluted
 † Recovery high
 ‡ Recovery low
 ‡‡ Recovery <25%

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

Volatile Calibration Outliers

Instrument: MSB

Matrix: water

Level: low

Date/Time	10/18/00		11/3/00 1019		11/6/00 1603		11/7/00 1257		11/8/00 1237	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
chloromethane										
bromomethane		31.2		-25.6		-55.2		-27.2		-32.0
vinyl chloride										
chloroethane										
methylene chloride										
acetone				30.2		42.8		49.8		32.1
carbon disulfide										
1,1-dichloroethene										
1,1-dichloroethane										
1,2-dichloroethene (total)										
methyltertbutylether										
chloroform										
1,2-dichloroethane										
2-butanone								37.4		
1,1,1-trichloroethane										
carbon tetrachloride										
vinyl acetate										
bromodichloromethane										
1,2-dichloropropane										
cis-1,3-dichloropropane										
trichloroethene										
dibromochloromethane										
1,1,2-trichloroethane										
benzene										
trans-1,3-dichloropropane				30.8						
bromoform										
4-methyl-2-pentanone				32.9						
2-hexanone				33.3						27.2
tetrachloroethene										
1,1,1,2-tetrachloroethane										
toluene										
chlorobenzene										
ethylbenzene										

Volatile Calibration Outliers - Page 2

Date/Time	10/18/00		11/3/00 1019		11/6/00 1603		11/7/00 1257		11/8/00 1237	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
styrene										
xylene (total)										
Affected Samples	mw1		mw1		trip blank1		trip blank3		trip blank4	
	trip blank1				trip blank 2		mw21r		mw19d	
	trip blank2				mw6a				mw15s	
	mw6a				mw6ams				mw16d	
	mw6ams				mw6amsd					
	mw6amsd				mw20d					
	mw20d				mw3					
	mw3				mwdup1					
	mwdup1				mw21d					
	mw21d				mw22r					
	mw22r				mw22s					
	mw22s									
	trip blank3									
	mw21r									
	trip blank 4									
	mw19d									
	mw15s									
	mw16d									

Volatile Calibration Outliers - Page 3

Instrument: MSC

Matrix: water

Level: low

Date/Time	11/6/00		11/13/00 1235		11/14/00 1003					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
chloromethane										
bromomethane										
vinyl chloride										
chloroethane										
methylene chloride										
acetone				34.4		51.1				
carbon disulfide										
1,1-dichloroethene										
1,1-dichloroethane										
1,2-dichloroethene (total)										
methyltertbutylether										
chloroform										
1,2-dichloroethane										
2-butanone										
1,1,1-trichloroethane										
carbon tetrachloride										
vinyl acetate										
bromodichloromethane										
1,2-dichloropropane										
cis-1,3-dichloropropane										
trichloroethene										
dibromochloromethane										
1,1,2-trichloroethane										
benzene										
trans-1,3-dichloropropane										
bromoform						29.4				
4-methyl-2-pentanone										
2-hexanone										
tetrachloroethene										
1,1,1,2-tetrachloroethane										
toluene										
chlorobenzene										

Volatile Calibration Outliers - Page 4

Date/Time	11/6/00		11/13/00 1235		11/14/00 1003					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
ethylbenzene										
styrene										
xylene (total)										
Affected Samples			mw16r		trip blank 5					
			mw17d		mw17s					
			mw12		mw17ddl					
					mw16rdl					

Corrected Sample Analysis Data Sheets

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-1

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65205-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110312

Level: (low/med) LOW

Date Received: 11/02/00

%Moisture: not dec.

Date Analyzed: 11/03/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

74-87-3	Chloromethane	10	0.15
74-83-9	Bromomethane	10	0.15
75-01-4	Vinyl Chloride	10	0.15
75-00-3	Chloroethane	10	0.15
75-09-2	Methylene Chloride	7	0.15
67-64-1	Acetone	10	0.15
75-15-0	Carbon Disulfide	5	0.15
75-35-4	1,1-Dichloroethene	5	0.15
75-34-3	1,1-Dichloroethane	5	0.15
540-59-0	1,2-Dichloroethene (Total)	5	0.15
1634-04-4	Methyltertbutylether	5	0.15
67-66-3	Chloroform	5	0.15
107-06-2	1,2-Dichloroethane	5	0.15
78-93-3	2-Butanone	10	0.15
71-55-6	1,1,1-Trichloroethane	5	0.15
56-23-5	Carbon Tetrachloride	5	0.15
108-05-4	Vinyl Acetate	10	0.15
75-27-4	Bromodichloromethane	5	0.15
78-87-5	1,2-Dichloropropane	5	0.15
10061-01-5	cis-1,3-Dichloropropene	5	0.15
79-01-6	Trichloroethene	5	0.15
124-48-1	Dibromochloromethane	5	0.15
79-00-5	1,1,2-Trichloroethane	5	0.15
71-43-2	Benzene	5	0.15
10061-02-6	trans-1,3-Dichloropropene	5	0.15
75-25-2	Bromoform	5	0.15
108-10-1	4-Methyl-2-Pentanone	10	0.15
591-78-6	2-Hexanone	10	0.15
127-18-4	Tetrachloroethene	5	0.15
79-34-5	1,1,2,2-Tetrachloroethane	5	0.15
108-88-3	Toluene	5	0.15
108-90-7	Chlorobenzene	5	0.15
100-41-4	Ethylbenzene	5	0.15
100-42-5	Styrene	5	0.15

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-1

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65205-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110312

Level: (low/med) LOW

Date Received: 11/02/00

%Moisture: not dec.

Date Analyzed: 11/03/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

85

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65205-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110312

Level: (low/med) LOW

Date Received: 11/02/00

%Moisture: not dec.

Date Analyzed: 11/03/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-3

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110612

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	8
74-83-9-----	Bromomethane	10	8
75-01-4-----	Vinyl Chloride	10	8
75-00-3-----	Chloroethane	10	8
75-09-2-----	Methylene Chloride	5	8
67-64-1-----	Acetone	10	8
75-15-0-----	Carbon Disulfide	5	8
75-35-4-----	1,1-Dichloroethene	5	8
75-34-3-----	1,1-Dichloroethane	5	8
540-59-0-----	1,2-Dichloroethene (Total)	5	8
1634-04-4-----	Methyltertbutylether	5	8
67-66-3-----	Chloroform	5	8
107-06-2-----	1,2-Dichloroethane	5	8
78-93-3-----	2-Butanone	10	8
71-55-6-----	1,1,1-Trichloroethane	5	8
56-23-5-----	Carbon Tetrachloride	5	8
108-05-4-----	Vinyl Acetate	10	8
75-27-4-----	Bromodichloromethane	5	8
78-87-5-----	1,2-Dichloropropane	5	8
10061-01-5-----	cis-1,3-Dichloropropene	5	8
79-01-6-----	Trichloroethene	5	8
124-48-1-----	Dibromochloromethane	5	8
79-00-5-----	1,1,2-Trichloroethane	5	8
71-43-2-----	Benzene	5	8
10061-02-6-----	trans-1,3-Dichloropropene	5	8
75-25-2-----	Bromoform	5	8
108-10-1-----	4-Methyl-2-Pentanone	10	8
591-78-6-----	2-Hexanone	10	8
127-18-4-----	Tetrachloroethene	5	8
79-34-5-----	1,1,2,2-Tetrachloroethane	5	8
108-88-3-----	Toluene	5	8
108-90-7-----	Chlorobenzene	5	8
100-41-4-----	Ethylbenzene	5	8
100-42-5-----	Styrene	5	8

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-3

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110612

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	5	12/15

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-3

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110612

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-6A

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110608

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	10	✓
74-83-9	Bromomethane	10	✓
75-01-4	Vinyl Chloride	10	✓
75-00-3	Chloroethane	10	✓
75-09-2	Methylene Chloride	5	✓
67-64-1	Acetone	5	✓
75-15-0	Carbon Disulfide	5	✓
75-35-4	1,1-Dichloroethene	5	✓
75-34-3	1,1-Dichloroethane	5	✓
540-59-0	1,2-Dichloroethene (Total)	5	✓
1634-04-4	Methyltertbutylether	7	✓
67-66-3	Chloroform	5	✓
107-06-2	1,2-Dichloroethane	5	✓
78-93-3	2-Butanone	10	✓
71-55-6	1,1,1-Trichloroethane	5	✓
56-23-5	Carbon Tetrachloride	5	✓
108-05-4	Vinyl Acetate	10	✓
75-27-4	Bromodichloromethane	5	✓
78-87-5	1,2-Dichloropropane	5	✓
10061-01-5	cis-1,3-Dichloropropene	5	✓
79-01-6	Trichloroethene	5	✓
124-48-1	Dibromochloromethane	5	✓
79-00-5	1,1,2-Trichloroethane	5	✓
71-43-2	Benzene	5	✓
10061-02-6	trans-1,3-Dichloropropene	5	✓
75-25-2	Bromoform	5	✓
108-10-1	4-Methyl-2-Pentanone	10	✓
591-78-6	2-Hexanone	10	✓
127-18-4	Tetrachloroethene	5	✓
79-34-5	1,1,2,2-Tetrachloroethane	5	✓
108-88-3	Toluene	5	✓
108-90-7	Chlorobenzene	5	✓
100-41-4	Ethylbenzene	5	✓
100-42-5	Styrene	5	✓

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-6A

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110608

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	5	✓

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-6A

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110608

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000091-20-3	Naphthalene	33.65	29	J ✓
2.				
3.				
4.				
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26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-12

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111314

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	-----Chloromethane	10	✓
74-83-9	-----Bromomethane	10	✓
75-01-4	-----Vinyl Chloride	10	✓
75-00-3	-----Chloroethane	10	✓
75-09-2	-----Methylene Chloride	5	✓
67-64-1	-----Acetone	10	✓
75-15-0	-----Carbon Disulfide	5	✓
75-35-4	-----1,1-Dichloroethene	5	✓
75-34-3	-----1,1-Dichloroethane	5	✓
540-59-0	-----1,2-Dichloroethene (Total)	5	✓
1634-04-4	-----Methyltertbutylether	5	✓
67-66-3	-----Chloroform	5	✓
107-06-2	-----1,2-Dichloroethane	5	✓
78-93-3	-----2-Butanone	10	✓
71-55-6	-----1,1,1-Trichloroethane	5	✓
56-23-5	-----Carbon Tetrachloride	5	✓
108-05-4	-----Vinyl Acetate	10	✓
75-27-4	-----Bromodichloromethane	5	✓
78-87-5	-----1,2-Dichloropropane	5	✓
10061-01-5	-----cis-1,3-Dichloropropene	5	✓
79-01-6	-----Trichloroethene	5	✓
124-48-1	-----Dibromochloromethane	5	✓
79-00-5	-----1,1,2-Trichloroethane	5	✓
71-43-2	-----Benzene	5	✓
10061-02-6	-----trans-1,3-Dichloropropene	5	✓
75-25-2	-----Bromoform	5	✓
108-10-1	-----4-Methyl-2-Pentanone	10	✓
591-78-6	-----2-Hexanone	10	✓
127-18-4	-----Tetrachloroethene	5	✓
79-34-5	-----1,1,2,2-Tetrachloroethane	5	✓
108-88-3	-----Toluene	5	✓
108-90-7	-----Chlorobenzene	5	✓
100-41-4	-----Ethylbenzene	5	✓
100-42-5	-----Styrene	5	✓

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-12

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111314

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

✓✓

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-12

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111314

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000091-57-6	Naphthalene, methyl	40.09	13	J
2.				
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-15S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110806

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	10	✓
74-83-9	Bromomethane	10	✓
75-01-4	Vinyl Chloride	10	✓
75-00-3	Chloroethane	10	✓
75-09-2	Methylene Chloride	5	✓
67-64-1	Acetone	10	✓
75-15-0	Carbon Disulfide	5	✓
75-35-4	1,1-Dichloroethene	5	✓
75-34-3	1,1-Dichloroethane	5	✓
540-59-0	1,2-Dichloroethene (Total)	5	✓
1634-04-4	Methyltertbutylether	5	✓
67-66-3	Chloroform	5	✓
107-06-2	1,2-Dichloroethane	5	✓
78-93-3	2-Butanone	10	✓
71-55-6	1,1,1-Trichloroethane	5	✓
56-23-5	Carbon Tetrachloride	5	✓
108-05-4	Vinyl Acetate	10	✓
75-27-4	Bromodichloromethane	5	✓
78-87-5	1,2-Dichloropropane	5	✓
10061-01-5	cis-1,3-Dichloropropene	5	✓
79-01-6	Trichloroethene	5	✓
124-48-1	Dibromochloromethane	5	✓
79-00-5	1,1,2-Trichloroethane	5	✓
71-43-2	Benzene	5	✓
10061-02-6	trans-1,3-Dichloropropene	5	✓
75-25-2	Bromoform	5	✓
108-10-1	4-Methyl-2-Pentanone	10	✓
591-78-6	2-Hexanone	10	✓
127-18-4	Tetrachloroethene	5	✓
79-34-5	1,1,2,2-Tetrachloroethane	5	✓
108-88-3	Toluene	5	✓
108-90-7	Chlorobenzene	5	✓
100-41-4	Ethylbenzene	5	✓
100-42-5	Styrene	5	✓

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-15S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110806

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

845

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-15S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110806

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110807

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3	-----Chloromethane	10	0.5
74-83-9	-----Bromomethane	10	0.5
75-01-4	-----Vinyl Chloride	10	0.5
75-00-3	-----Chloroethane	10	0.5
75-09-2	-----Methylene Chloride	5	0.5
67-64-1	-----Acetone	10	0.5
75-15-0	-----Carbon Disulfide	5	0.5
75-35-4	-----1,1-Dichloroethene	5	0.5
75-34-3	-----1,1-Dichloroethane	5	0.5
540-59-0	-----1,2-Dichloroethene (Total)	5	0.5
1634-04-4	-----Methyltertbutylether	18	0.5
67-66-3	-----Chloroform	5	0.5
107-06-2	-----1,2-Dichloroethane	5	0.5
78-93-3	-----2-Butanone	10	0.5
71-55-6	-----1,1,1-Trichloroethane	5	0.5
56-23-5	-----Carbon Tetrachloride	5	0.5
108-05-4	-----Vinyl Acetate	10	0.5
75-27-4	-----Bromodichloromethane	5	0.5
78-87-5	-----1,2-Dichloropropane	5	0.5
10061-01-5	-----cis-1,3-Dichloropropene	5	0.5
79-01-6	-----Trichloroethene	5	0.5
124-48-1	-----Dibromochloromethane	5	0.5
79-00-5	-----1,1,2-Trichloroethane	5	0.5
71-43-2	-----Benzene	5	0.5
10061-02-6	-----trans-1,3-Dichloropropene	5	0.5
75-25-2	-----Bromoform	5	0.5
108-10-1	-----4-Methyl-2-Pentanone	10	0.5
591-78-6	-----2-Hexanone	10	0.5
127-18-4	-----Tetrachloroethene	5	0.5
79-34-5	-----1,1,2,2-Tetrachloroethane	5	0.5
108-88-3	-----Toluene	5	0.5
108-90-7	-----Chlorobenzene	5	0.5
100-41-4	-----Ethylbenzene	5	0.5
100-42-5	-----Styrene	5	0.5

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110807

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	5	8.5

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110807

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111311

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

74-87-3	Chloromethane	10	8/5
74-83-9	Bromomethane	10	8/5
75-01-4	Vinyl Chloride	10	8/5
75-00-3	Chloroethane	10	8/5
75-09-2	Methylene Chloride	5	8/5
67-64-1	Acetone	10	8/5
75-15-0	Carbon Disulfide	5	8/5
75-35-4	1,1-Dichloroethene	5	8/5
75-34-3	1,1-Dichloroethane	5	8/5
540-59-0	1,2-Dichloroethene (Total)	5	8/5
1634-04-4	Methyltertbutylether	5	8/5
67-66-3	Chloroform	5	8/5
107-06-2	1,2-Dichloroethane	5	8/5
78-93-3	2-Butanone	10	8/5
71-55-6	1,1,1-Trichloroethane	5	8/5
56-23-5	Carbon Tetrachloride	5	8/5
108-05-4	Vinyl Acetate	10	8/5
75-27-4	Bromodichloromethane	5	8/5
78-87-5	1,2-Dichloropropane	5	8/5
10061-01-5	cis-1,3-Dichloropropene	5	8/5
79-01-6	Trichloroethene	5	8/5
124-48-1	Dibromochloromethane	5	8/5
79-00-5	1,1,2-Trichloroethane	5	8/5
71-43-2	Benzene	560	8/5
10061-02-6	trans-1,3-Dichloropropene	5	8/5
75-25-2	Bromoform	5	8/5
108-10-1	4-Methyl-2-Pentanone	10	8/5
591-78-6	2-Hexanone	10	8/5
127-18-4	Tetrachloroethene	5	8/5
79-34-5	1,1,2,2-Tetrachloroethane	5	8/5
108-88-3	Toluene	74	8/5
108-90-7	Chlorobenzene	5	8/5
100-41-4	Ethylbenzene	200	8/5
100-42-5	Styrene	5	8/5

FORM I CLP VOA

50

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111311

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	180	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111311

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000611-14-3	Benzene, 1-ethyl-2-methyl	27.65	42	J
2. 000108-67-8	Benzene, 1,3,5-trimethyl	27.79	11	J
3. 000095-36-3	Benzene, 1,2,4-trimethyl	28.78	51	J
4. 000496-11-7	Indane	30.52	240	J
5. 000095-13-6	Indene	31.09	150	J
6.	Substituted Benzene	33.61	14	J
7.	Unknown Aromatic	34.30	19	J
8. 000767-59-9	1H-Indene, 1-methyl	34.63	41	J
9. 000091-20-3	Naphthalene	36.17	1000	J
10. 000090-12-0	Naphthalene, 1-methyl	40.08	90	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16R DL

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-1DL

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: CD111409

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	100	N	D
74-83-9	Bromomethane	100	N	D
75-01-4	Vinyl Chloride	100	N	D
75-00-3	Chloroethane	100	N	D
75-09-2	Methylene Chloride	50	N	D
67-64-1	Acetone	100	N	D
75-15-0	Carbon Disulfide	50	N	D
75-35-4	1,1-Dichloroethene	50	N	D
75-34-3	1,1-Dichloroethane	50	N	D
540-59-0	1,2-Dichloroethene (Total)	50	N	D
1634-04-4	Methyltertbutylether	50	N	D
67-66-3	Chloroform	50	N	D
107-06-2	1,2-Dichloroethane	50	N	D
78-93-3	2-Butanone	150	N	D
71-55-6	1,1,1-Trichloroethane	50	N	D
56-23-5	Carbon Tetrachloride	50	N	D
108-05-4	Vinyl Acetate	100	N	D
75-27-4	Bromodichloromethane	50	N	D
78-87-5	1,2-Dichloropropane	50	N	D
10061-01-5	cis-1,3-Dichloropropene	50	N	D
79-01-6	Trichloroethene	50	N	D
124-48-1	Dibromochloromethane	50	N	D
79-00-5	1,1,2-Trichloroethane	50	N	D
71-43-2	Benzene	780	N	D
10061-02-6	trans-1,3-Dichloropropene	50	N	D
75-25-2	Bromoform	50	N	D
108-10-1	4-Methyl-2-Pentanone	100	N	D
591-78-6	2-Hexanone	100	N	D
127-18-4	Tetrachloroethene	50	N	D
79-34-5	1,1,2,2-Tetrachloroethane	50	N	D
108-88-3	Toluene	82	N	D
108-90-7	Chlorobenzene	50	N	D
100-41-4	Ethylbenzene	240	N	D
100-42-5	Styrene	50	N	D

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16R DL

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-1DL

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: CD111409

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

200

DJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16R DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-1 DL

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: CD111409

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000496-11-7	Indane	30.53	300	J
2.	Substituted Benzene	31.10	150	J
3. 000091-20-3	Naphthalene	36.20	1200	J
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FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111313

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	10	✓
74-83-9	Bromomethane	10	✓
75-01-4	Vinyl Chloride	10	✓
75-00-3	Chloroethane	10	✓
75-09-2	Methylene Chloride	5	✓
67-64-1	Acetone	10	✓
75-15-0	Carbon Disulfide	5	✓
75-35-4	1,1-Dichloroethene	5	✓
75-34-3	1,1-Dichloroethane	5	✓
540-59-0	1,2-Dichloroethene (Total)	5	✓
1634-04-4	Methyltertbutylether	9	✓
67-66-3	Chloroform	5	✓
107-06-2	1,2-Dichloroethane	5	✓
78-93-3	2-Butanone	10	✓
71-55-6	1,1,1-Trichloroethane	5	✓
56-23-5	Carbon Tetrachloride	5	✓
108-05-4	Vinyl Acetate	10	✓
75-27-4	Bromodichloromethane	5	✓
78-87-5	1,2-Dichloropropane	5	✓
10061-01-5	cis-1,3-Dichloropropene	5	✓
79-01-6	Trichloroethene	5	✓
124-48-1	Dibromochloromethane	5	✓
79-00-5	1,1,2-Trichloroethane	5	✓
71-43-2	Benzene	430	✓
10061-02-6	trans-1,3-Dichloropropene	5	✓
75-25-2	Bromoform	5	✓
108-10-1	4-Methyl-2-Pentanone	10	✓
591-78-6	2-Hexanone	10	✓
127-18-4	Tetrachloroethene	5	✓
79-34-5	1,1,2,2-Tetrachloroethane	5	✓
108-88-3	Toluene	5	✓
108-90-7	Chlorobenzene	5	✓
100-41-4	Ethylbenzene	4	✓
100-42-5	Styrene	5	✓

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111313

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	7	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111313

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/13/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000098-82-8	Benzene, (1-methylethyl)	26.36	24	J
2.	Substituted Benzene	28.38	25	J
3. 000095-36-3	1,2,4-Trimethylbenzene	28.78	18	J
4. 000496-11-7	Indane	30.52	1600	J
5.	Substituted Benzene	31.50	15	J
6.	Unknown Aromatic	31.97	53	J
7.	Unknown Aromatic	33.60	80	J
8.	Unknown Aromatic	34.10	110	J
9.	Unknown Aromatic	34.63	38	J
10. 000090-12-0	Naphthalene, 1-methyl-	40.09	79	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17D DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-3DL

Sample wt/vol: 1 (g/mL) mL

Lab File ID: CD111408

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	50	✓	D
74-83-9	Bromomethane	50	✓	D
75-01-4	Vinyl Chloride	50	✓	D
75-00-3	Chloroethane	50	✓	D
75-09-2	Methylene Chloride	25	✓	D
67-64-1	Acetone	50	✓	D
75-15-0	Carbon Disulfide	25	✓	D
75-35-4	1,1-Dichloroethene	25	✓	D
75-34-3	1,1-Dichloroethane	25	✓	D
540-59-0	1,2-Dichloroethene (Total)	25	✓	D
1634-04-4	Methyltertbutylether	10	✓	JD
67-66-3	Chloroform	25	✓	D
107-06-2	1,2-Dichloroethane	25	✓	D
78-93-3	2-Butanone	96	✓	D
71-55-6	1,1,1-Trichloroethane	25	✓	D
56-23-5	Carbon Tetrachloride	25	✓	D
108-05-4	Vinyl Acetate	50	✓	D
75-27-4	Bromodichloromethane	25	✓	D
78-87-5	1,2-Dichloropropane	25	✓	D
10061-01-5	cis-1,3-Dichloropropene	25	✓	D
79-01-6	Trichloroethene	25	✓	D
124-48-1	Dibromochloromethane	25	✓	D
79-00-5	1,1,2-Trichloroethane	25	✓	D
71-43-2	Benzene	530	✓	D
10061-02-6	trans-1,3-Dichloropropene	25	✓	D
75-25-2	Bromoform	25	✓	D
108-10-1	4-Methyl-2-Pentanone	50	✓	D
591-78-6	2-Hexanone	50	✓	D
127-18-4	Tetrachloroethene	25	✓	D
79-34-5	1,1,2,2-Tetrachloroethane	25	✓	D
108-88-3	Toluene	25	✓	D
108-90-7	Chlorobenzene	25	✓	D
100-41-4	Ethylbenzene	25	✓	D
100-42-5	Styrene	25	✓	D

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17D DL

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-3DL

Sample wt/vol: 1 (g/mL) mL

Lab File ID: CD111408

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION/UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

25

W D

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17D DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-3 DL

Sample wt/vol: 1 (g/mL) mL

Lab File ID: CD111408

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000496-11-7	Indane	30.54	1600	J
2. _____	Substituted Benzene	33.64	52	J
3. _____	Substituted Benzene	34.13	65	J
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
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24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111407

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	-----Chloromethane	10	Ø W
74-83-9	-----Bromomethane	10	Ø W
75-01-4	-----Vinyl Chloride	10	Ø W
75-00-3	-----Chloroethane	10	Ø W
75-09-2	-----Methylene Chloride	5	Ø W
67-64-1	-----Acetone	10	Ø W
75-15-0	-----Carbon Disulfide	4	J
75-35-4	-----1,1-Dichloroethene	5	Ø W
75-34-3	-----1,1-Dichloroethane	5	Ø W
540-59-0	-----1,2-Dichloroethene (Total)	5	Ø W
1634-04-4	-----Methyltertbutylether	1	J
67-66-3	-----Chloroform	5	Ø W
107-06-2	-----1,2-Dichloroethane	5	Ø W
78-93-3	-----2-Butanone	10	Ø W
71-55-6	-----1,1,1-Trichloroethane	5	Ø W
56-23-5	-----Carbon Tetrachloride	5	Ø W
108-05-4	-----Vinyl Acetate	10	Ø W
75-27-4	-----Bromodichloromethane	5	Ø W
78-87-5	-----1,2-Dichloropropane	5	Ø W
10061-01-5	-----cis-1,3-Dichloropropene	5	Ø W
79-01-6	-----Trichloroethene	5	Ø W
124-48-1	-----Dibromochloromethane	5	Ø W
79-00-5	-----1,1,2-Trichloroethane	5	Ø W
71-43-2	-----Benzene	48	J
10061-02-6	-----trans-1,3-Dichloropropene	5	Ø W
75-25-2	-----Bromoform	5	Ø W
108-10-1	-----4-Methyl-2-Pentanone	10	Ø W
591-78-6	-----2-Hexanone	10	Ø W
127-18-4	-----Tetrachloroethene	5	Ø W
79-34-5	-----1,1,2,2-Tetrachloroethane	5	Ø W
108-88-3	-----Toluene	5	Ø W
108-90-7	-----Chlorobenzene	5	Ø W
100-41-4	-----Ethylbenzene	5	Ø W
100-42-5	-----Styrene	5	Ø W

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111407

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

8 60

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111407

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 000496-11-7	Indane	30.54	120	J 
2.				
3.				
4.				
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29.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-19D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110805

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	10	uL
74-83-9	Bromomethane	10	uL
75-01-4	Vinyl Chloride	10	uL
75-00-3	Chloroethane	10	uL
75-09-2	Methylene Chloride	5	uL
67-64-1	Acetone	10	uL
75-15-0	Carbon Disulfide	5	uL
75-35-4	1,1-Dichloroethene	5	uL
75-34-3	1,1-Dichloroethane	5	uL
540-59-0	1,2-Dichloroethene (Total)	5	uL
1634-04-4	Methyltertbutylether	5	uL
67-66-3	Chloroform	5	uL
107-06-2	1,2-Dichloroethane	5	uL
78-93-3	2-Butanone	10	uL
71-55-6	1,1,1-Trichloroethane	5	uL
56-23-5	Carbon Tetrachloride	5	uL
108-05-4	Vinyl Acetate	10	uL
75-27-4	Bromodichloromethane	5	uL
78-87-5	1,2-Dichloropropane	5	uL
10061-01-5	cis-1,3-Dichloropropene	5	uL
79-01-6	Trichloroethene	5	uL
124-48-1	Dibromochloromethane	5	uL
79-00-5	1,1,2-Trichloroethane	5	uL
71-43-2	Benzene	5	uL
10061-02-6	trans-1,3-Dichloropropene	5	uL
75-25-2	Bromoform	5	uL
108-10-1	4-Methyl-2-Pentanone	10	uL
591-78-6	2-Hexanone	10	uL
127-18-4	Tetrachloroethene	5	uL
79-34-5	1,1,2,2-Tetrachloroethane	5	uL
108-88-3	Toluene	5	uL
108-90-7	Chlorobenzene	5	uL
100-41-4	Ethylbenzene	5	uL
100-42-5	Styrene	5	uL

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-19D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110805

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	5	WJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-19D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110805

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-20D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110611

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	-----Chloromethane	10	UUG
74-83-9	-----Bromomethane	10	UUG
75-01-4	-----Vinyl Chloride	10	UUG
75-00-3	-----Chloroethane	10	UUG
75-09-2	-----Methylene Chloride	5	UUG
67-64-1	-----Acetone	10	UUG
75-15-0	-----Carbon Disulfide	5	UUG
75-35-4	-----1,1-Dichloroethene	5	UUG
75-34-3	-----1,1-Dichloroethane	5	UUG
540-59-0	-----1,2-Dichloroethene (Total)	5	UUG
1634-04-4	-----Methyltertbutylether	5	UUG
67-66-3	-----Chloroform	5	UUG
107-06-2	-----1,2-Dichloroethane	5	UUG
78-93-3	-----2-Butanone	10	UUG
71-55-6	-----1,1,1-Trichloroethane	5	UUG
56-23-5	-----Carbon Tetrachloride	5	UUG
108-05-4	-----Vinyl Acetate	10	UUG
75-27-4	-----Bromodichloromethane	5	UUG
78-87-5	-----1,2-Dichloropropane	5	UUG
10061-01-5	-----cis-1,3-Dichloropropene	5	UUG
79-01-6	-----Trichloroethene	5	UUG
124-48-1	-----Dibromochloromethane	5	UUG
79-00-5	-----1,1,2-Trichloroethane	5	UUG
71-43-2	-----Benzene	5	UUG
10061-02-6	-----trans-1,3-Dichloropropene	5	UUG
75-25-2	-----Bromoform	5	UUG
108-10-1	-----4-Methyl-2-Pentanone	10	UUG
591-78-6	-----2-Hexanone	10	UUG
127-18-4	-----Tetrachloroethene	5	UUG
79-34-5	-----1,1,2,2-Tetrachloroethane	5	UUG
108-88-3	-----Toluene	5	UUG
108-90-7	-----Chlorobenzene	5	UUG
100-41-4	-----Ethylbenzene	5	UUG
100-42-5	-----Styrene	5	UUG

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-20D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110611

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

865

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-20D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110611

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110614

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

74-87-3	Chloromethane	10	8.45
74-83-9	Bromomethane	10	8.45
75-01-4	Vinyl Chloride	10	8.45
75-00-3	Chloroethane	10	8.45
75-09-2	Methylene Chloride	5	8.45
67-64-1	Acetone	10	8.45
75-15-0	Carbon Disulfide	5	8.45
75-35-4	1,1-Dichloroethene	5	8.45
75-34-3	1,1-Dichloroethane	5	8.45
540-59-0	1,2-Dichloroethene (Total)	5	8.45
1634-04-4	Methyltertbutylether	5	8.45
67-66-3	Chloroform	5	8.45
107-06-2	1,2-Dichloroethane	5	8.45
78-93-3	2-Butanone	10	8.45
71-55-6	1,1,1-Trichloroethane	5	8.45
56-23-5	Carbon Tetrachloride	5	8.45
108-05-4	Vinyl Acetate	10	8.45
75-27-4	Bromodichloromethane	5	8.45
78-87-5	1,2-Dichloropropane	5	8.45
10061-01-5	cis-1,3-Dichloropropene	5	8.45
79-01-6	Trichloroethene	5	8.45
124-48-1	Dibromochloromethane	5	8.45
79-00-5	1,1,2-Trichloroethane	5	8.45
71-43-2	Benzene	5	8.45
10061-02-6	trans-1,3-Dichloropropene	5	8.45
75-25-2	Bromoform	5	8.45
108-10-1	4-Methyl-2-Pentanone	10	8.45
591-78-6	2-Hexanone	10	8.45
127-18-4	Tetrachloroethene	5	8.45
79-34-5	1,1,2,2-Tetrachloroethane	5	8.45
108-88-3	Toluene	5	8.45
108-90-7	Chlorobenzene	5	8.45
100-41-4	Ethylbenzene	5	8.45
100-42-5	Styrene	5	8.45

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110614

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

SLW

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110614

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-10

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110705

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	10	0.05
74-83-9	Bromomethane	10	0.05
75-01-4	Vinyl Chloride	10	0.05
75-00-3	Chloroethane	10	0.05
75-09-2	Methylene Chloride	5	0.05
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	5	0.05
75-35-4	1,1-Dichloroethene	5	0.05
75-34-3	1,1-Dichloroethane	5	0.05
540-59-0	1,2-Dichloroethene (Total)	5	0.05
1634-04-4	Methyltertbutylether	5	0.05
67-66-3	Chloroform	5	0.05
107-06-2	1,2-Dichloroethane	5	0.05
78-93-3	2-Butanone	10	0.05
71-55-6	1,1,1-Trichloroethane	5	0.05
56-23-5	Carbon Tetrachloride	5	0.05
108-05-4	Vinyl Acetate	10	0.05
75-27-4	Bromodichloromethane	5	0.05
78-87-5	1,2-Dichloropropane	5	0.05
10061-01-5	cis-1,3-Dichloropropene	5	0.05
79-01-6	Trichloroethene	5	0.05
124-48-1	Dibromochloromethane	5	0.05
79-00-5	1,1,2-Trichloroethane	5	0.05
71-43-2	Benzene	5	0.05
10061-02-6	trans-1,3-Dichloropropene	5	0.05
75-25-2	Bromoform	5	0.05
108-10-1	4-Methyl-2-Pentanone	10	0.05
591-78-6	2-Hexanone	10	0.05
127-18-4	Tetrachloroethene	5	0.05
79-34-5	1,1,2,2-Tetrachloroethane	5	0.05
108-88-3	Toluene	5	0.05
108-90-7	Chlorobenzene	5	0.05
100-41-4	Ethylbenzene	5	0.05
100-42-5	Styrene	5	0.05

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-10

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110705

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	5	✓ W

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-10

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110705

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-22-R

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110615

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	10	0.45
74-83-9	Bromomethane	10	0.45
75-01-4	Vinyl Chloride	10	0.45
75-00-3	Chloroethane	10	0.45
75-09-2	Methylene Chloride	5	0.45
67-64-1	Acetone	15	0.45
75-15-0	Carbon Disulfide	5	0.45
75-35-4	1,1-Dichloroethene	5	0.45
75-34-3	1,1-Dichloroethane	5	0.45
540-59-0	1,2-Dichloroethene (Total)	5	0.45
1634-04-4	Methyltertbutylether	5	0.45
67-66-3	Chloroform	5	0.45
107-06-2	1,2-Dichloroethane	5	0.45
78-93-3	2-Butanone	10	0.45
71-55-6	1,1,1-Trichloroethane	5	0.45
56-23-5	Carbon Tetrachloride	5	0.45
108-05-4	Vinyl Acetate	10	0.45
75-27-4	Bromodichloromethane	5	0.45
78-87-5	1,2-Dichloropropane	5	0.45
10061-01-5	cis-1,3-Dichloropropene	5	0.45
79-01-6	Trichloroethene	5	0.45
124-48-1	Dibromochloromethane	5	0.45
79-00-5	1,1,2-Trichloroethane	5	0.45
71-43-2	Benzene	5	0.45
10061-02-6	trans-1,3-Dichloropropene	5	0.45
75-25-2	Bromoform	5	0.45
108-10-1	4-Methyl-2-Pentanone	10	0.45
591-78-6	2-Hexanone	10	0.45
127-18-4	Tetrachloroethene	5	0.45
79-34-5	1,1,2,2-Tetrachloroethane	5	0.45
108-88-3	Toluene	5	0.45
108-90-7	Chlorobenzene	5	0.45
100-41-4	Ethylbenzene	5	0.45
100-42-5	Styrene	5	0.45

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22-R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110615

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

✓ UJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22-R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110615

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-22S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110616

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

74-87-3	Chloromethane	10	✓
74-83-9	Bromomethane	10	✓
75-01-4	Vinyl Chloride	10	✓
75-00-3	Chloroethane	10	✓
75-09-2	Methylene Chloride	5	✓
67-64-1	Acetone	10	✓
75-15-0	Carbon Disulfide	5	✓
75-35-4	1,1-Dichloroethene	5	✓
75-34-3	1,1-Dichloroethane	5	✓
540-59-0	1,2-Dichloroethene (Total)	5	✓
1634-04-4	Methyltertbutylether	5	✓
67-66-3	Chloroform	5	✓
107-06-2	1,2-Dichloroethane	5	✓
78-93-3	2-Butanone	10	✓
71-55-6	1,1,1-Trichloroethane	5	✓
56-23-5	Carbon Tetrachloride	5	✓
108-05-4	Vinyl Acetate	10	✓
75-27-4	Bromodichloromethane	5	✓
78-87-5	1,2-Dichloropropane	5	✓
10061-01-5	cis-1,3-Dichloropropene	5	✓
79-01-6	Trichloroethene	5	✓
124-48-1	Dibromochloromethane	5	✓
79-00-5	1,1,2-Trichloroethane	5	✓
71-43-2	Benzene	5	✓
10061-02-6	trans-1,3-Dichloropropene	5	✓
75-25-2	Bromoform	5	✓
108-10-1	4-Methyl-2-Pentanone	10	✓
591-78-6	2-Hexanone	10	✓
127-18-4	Tetrachloroethene	5	✓
79-34-5	1,1,2,2-Tetrachloroethane	5	✓
108-88-3	Toluene	5	✓
108-90-7	Chlorobenzene	5	✓
100-41-4	Ethylbenzene	5	✓
100-42-5	Styrene	5	✓

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-22S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110616

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	5	8/15

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110616

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-DUP-1

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110613

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	2	J
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	6	J
67-64-1-----	Acetone	2 10	U
75-15-0-----	Carbon Disulfide	3	J
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (Total)	5	U
1634-04-4-----	Methyltertbutylether	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
108-05-4-----	Vinyl Acetate	10	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-DUP-1

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110613

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

✓✓✓

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-DUP-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110613

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
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FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK |

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65205-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110605

Level: (low/med) LOW

Date Received: 11/02/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3	-----Chloromethane	10	BL
74-83-9	-----Bromomethane	10	BL
75-01-4	-----Vinyl Chloride	10	BL
75-00-3	-----Chloroethane	10	BL
75-09-2	-----Methylene Chloride	5	BL
67-64-1	-----Acetone	4	JB
75-15-0	-----Carbon Disulfide	5	BL
75-35-4	-----1,1-Dichloroethene	5	BL
75-34-3	-----1,1-Dichloroethane	5	BL
540-59-0	-----1,2-Dichloroethene (Total)	5	BL
1634-04-4	-----Methyltertbutylether	5	BL
67-66-3	-----Chloroform	5	BL
107-06-2	-----1,2-Dichloroethane	5	BL
78-93-3	-----2-Butanone	10	BL
71-55-6	-----1,1,1-Trichloroethane	5	BL
56-23-5	-----Carbon Tetrachloride	5	BL
108-05-4	-----Vinyl Acetate	10	BL
75-27-4	-----Bromodichloromethane	5	BL
78-87-5	-----1,2-Dichloropropane	5	BL
10061-01-5	-----cis-1,3-Dichloropropene	5	BL
79-01-6	-----Trichloroethene	5	BL
124-48-1	-----Dibromochloromethane	5	BL
79-00-5	-----1,1,2-Trichloroethane	5	BL
71-43-2	-----Benzene	5	BL
10061-02-6	-----trans-1,3-Dichloropropene	5	BL
75-25-2	-----Bromoform	5	BL
108-10-1	-----4-Methyl-2-Pentanone	10	BL
591-78-6	-----2-Hexanone	10	BL
127-18-4	-----Tetrachloroethene	5	BL
79-34-5	-----1,1,2,2-Tetrachloroethane	5	BL
108-88-3	-----Toluene	5	BL
108-90-7	-----Chlorobenzene	5	BL
100-41-4	-----Ethylbenzene	5	BL
100-42-5	-----Styrene	5	BL

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK |

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65205-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110605

Level: (low/med) LOW

Date Received: 11/02/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	5	0.15

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65205-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110605

Level: (low/med) LOW

Date Received: 11/02/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
3.				
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FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK 2

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-7

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110606

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	-----Chloromethane	10	0.05
74-83-9	-----Bromomethane	10	0.05
75-01-4	-----Vinyl Chloride	10	0.05
75-00-3	-----Chloroethane	10	0.05
75-09-2	-----Methylene Chloride	5	0.05
67-64-1	-----Acetone	3	JB
75-15-0	-----Carbon Disulfide	5	0.05
75-35-4	-----1,1-Dichloroethene	5	0.05
75-34-3	-----1,1-Dichloroethane	5	0.05
540-59-0	-----1,2-Dichloroethene (Total)	5	0.05
1634-04-4	-----Methyltertbutylether	5	0.05
67-66-3	-----Chloroform	5	0.05
107-06-2	-----1,2-Dichloroethane	5	0.05
78-93-3	-----2-Butanone	10	0.05
71-55-6	-----1,1,1-Trichloroethane	5	0.05
56-23-5	-----Carbon Tetrachloride	5	0.05
108-05-4	-----Vinyl Acetate	10	0.05
75-27-4	-----Bromodichloromethane	5	0.05
78-87-5	-----1,2-Dichloropropane	5	0.05
10061-01-5	-----cis-1,3-Dichloropropene	5	0.05
79-01-6	-----Trichloroethene	5	0.05
124-48-1	-----Dibromochloromethane	5	0.05
79-00-5	-----1,1,2-Trichloroethane	5	0.05
71-43-2	-----Benzene	5	0.05
10061-02-6	-----trans-1,3-Dichloropropene	5	0.05
75-25-2	-----Bromoform	5	0.05
108-10-1	-----4-Methyl-2-Pentanone	10	0.05
591-78-6	-----2-Hexanone	10	0.05
127-18-4	-----Tetrachloroethene	5	0.05
79-34-5	-----1,1,2,2-Tetrachloroethane	5	0.05
108-88-3	-----Toluene	5	0.05
108-90-7	-----Chlorobenzene	5	0.05
100-41-4	-----Ethylbenzene	5	0.05
100-42-5	-----Styrene	5	0.05

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK 2

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-7

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110606

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

uV

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TRIP BLANK 2

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65252-7

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110606

Level: (low/med) LOW

Date Received: 11/03/00

%Moisture: not dec.

Date Analyzed: 11/06/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK 3

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110704

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3	Chloromethane	10	0.5
74-83-9	Bromomethane	10	0.5
75-01-4	Vinyl Chloride	10	0.5
75-00-3	Chloroethane	10	0.5
75-09-2	Methylene Chloride	5	0.5
67-64-1	Acetone	10	0.5
75-15-0	Carbon Disulfide	5	0.5
75-35-4	1,1-Dichloroethene	5	0.5
75-34-3	1,1-Dichloroethane	5	0.5
540-59-0	1,2-Dichloroethene (Total)	5	0.5
1634-04-4	Methyltertbutylether	5	0.5
67-66-3	Chloroform	5	0.5
107-06-2	1,2-Dichloroethane	5	0.5
78-93-3	2-Butanone	10	0.5
71-55-6	1,1,1-Trichloroethane	5	0.5
56-23-5	Carbon Tetrachloride	5	0.5
108-05-4	Vinyl Acetate	10	0.5
75-27-4	Bromodichloromethane	5	0.5
78-87-5	1,2-Dichloropropane	5	0.5
10061-01-5	cis-1,3-Dichloropropene	5	0.5
79-01-6	Trichloroethene	5	0.5
124-48-1	Dibromochloromethane	5	0.5
79-00-5	1,1,2-Trichloroethane	5	0.5
71-43-2	Benzene	5	0.5
10061-02-6	trans-1,3-Dichloropropene	5	0.5
75-25-2	Bromoform	5	0.5
108-10-1	4-Methyl-2-Pentanone	10	0.5
591-78-6	2-Hexanone	10	0.5
127-18-4	Tetrachloroethene	5	0.5
79-34-5	1,1,2,2-Tetrachloroethane	5	0.5
108-88-3	Toluene	5	0.5
108-90-7	Chlorobenzene	5	0.5
100-41-4	Ethylbenzene	5	0.5
100-42-5	Styrene	5	0.5

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK

3

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110704

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

840

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TRIP BLANK

3

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65272-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110704

Level: (low/med) LOW

Date Received: 11/04/00

%Moisture: not dec.

Date Analyzed: 11/07/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
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FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK 4

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110804

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3	-----Chloromethane	10	BL
74-83-9	-----Bromomethane	10	BL
75-01-4	-----Vinyl Chloride	10	BL
75-00-3	-----Chloroethane	10	BL
75-09-2	-----Methylene Chloride	5	BL
67-64-1	-----Acetone	6	J
75-15-0	-----Carbon Disulfide	5	BL
75-35-4	-----1,1-Dichloroethene	5	BL
75-34-3	-----1,1-Dichloroethane	5	BL
540-59-0	-----1,2-Dichloroethene (Total)	5	BL
1634-04-4	-----Methyltertbutylether	5	BL
67-66-3	-----Chloroform	5	BL
107-06-2	-----1,2-Dichloroethane	5	BL
78-93-3	-----2-Butanone	10	BL
71-55-6	-----1,1,1-Trichloroethane	5	BL
56-23-5	-----Carbon Tetrachloride	5	BL
108-05-4	-----Vinyl Acetate	10	BL
75-27-4	-----Bromodichloromethane	5	BL
78-87-5	-----1,2-Dichloropropane	5	BL
10061-01-5	-----cis-1,3-Dichloropropene	5	BL
79-01-6	-----Trichloroethene	5	BL
124-48-1	-----Dibromochloromethane	5	BL
79-00-5	-----1,1,2-Trichloroethane	5	BL
71-43-2	-----Benzene	5	BL
10061-02-6	-----trans-1,3-Dichloropropene	5	BL
75-25-2	-----Bromoform	5	BL
108-10-1	-----4-Methyl-2-Pentanone	10	BL
591-78-6	-----2-Hexanone	10	BL
127-18-4	-----Tetrachloroethene	5	BL
79-34-5	-----1,1,2,2-Tetrachloroethane	5	BL
108-88-3	-----Toluene	5	BL
108-90-7	-----Chlorobenzene	5	BL
100-41-4	-----Ethylbenzene	5	BL
100-42-5	-----Styrene	5	BL

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK 4

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110804

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)

5

ØLJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TRIP BLANK 4

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65476-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BE110804

Level: (low/med) LOW

Date Received: 11/08/00

%Moisture: not dec.

Date Analyzed: 11/08/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK 5

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111406

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/l

Q

CAS NO.

COMPOUND

74-87-3	-----Chloromethane	10	0.5
74-83-9	-----Bromomethane	10	0.5
75-01-4	-----Vinyl Chloride	10	0.5
75-00-3	-----Chloroethane	10	0.5
75-09-2	-----Methylene Chloride	1	J
67-64-1	-----Acetone	10	0.5
75-15-0	-----Carbon Disulfide	5	0.5
75-35-4	-----1,1-Dichloroethene	5	0.5
75-34-3	-----1,1-Dichloroethane	5	0.5
540-59-0	-----1,2-Dichloroethene (Total)	5	0.5
1634-04-4	-----Methyltertbutylether	5	0.5
67-66-3	-----Chloroform	5	0.5
107-06-2	-----1,2-Dichloroethane	5	0.5
78-93-3	-----2-Butanone	10	0.5
71-55-6	-----1,1,1-Trichloroethane	5	0.5
56-23-5	-----Carbon Tetrachloride	5	0.5
108-05-4	-----Vinyl Acetate	10	0.5
75-27-4	-----Bromodichloromethane	5	0.5
78-87-5	-----1,2-Dichloropropane	5	0.5
10061-01-5	-----cis-1,3-Dichloropropene	5	0.5
79-01-6	-----Trichloroethene	5	0.5
124-48-1	-----Dibromochloromethane	5	0.5
79-00-5	-----1,1,2-Trichloroethane	5	0.5
71-43-2	-----Benzene	5	0.5
10061-02-6	-----trans-1,3-Dichloropropene	5	0.5
75-25-2	-----Bromoform	5	0.5
108-10-1	-----4-Methyl-2-Pentanone	10	0.5
591-78-6	-----2-Hexanone	10	0.5
127-18-4	-----Tetrachloroethene	5	0.5
79-34-5	-----1,1,2,2-Tetrachloroethane	5	0.5
108-88-3	-----Toluene	5	0.5
108-90-7	-----Chlorobenzene	5	0.5
100-41-4	-----Ethylbenzene	5	0.5
100-42-5	-----Styrene	5	0.5

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK 5

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111406

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

1330-20-7-----Xylene (total)	5	SLW

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TRIP BLANK 5

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) Water

Lab Sample ID: L65538-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CD111406

Level: (low/med) LOW

Date Received: 11/09/00

%Moisture: not dec.

Date Analyzed: 11/14/00

GC Column: HP-624 ID: .25 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270 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 tests, 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 method specified holding times for semivolatile analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for waters 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, and rinse blanks) are prepared to identify any contamination which may have been introduced in to the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

Di-n-butyl phthalates was detected in the method blanks. Based on the blank content, data for di-n-butyl phthalate have been qualified as undetected in samples MW-12, MW-15S, MW-16D, MW-16R, MW-17D, MW-17S, MW-19D, MW-21D, MW-21R, MW-22R and MW-22S. In addition to di-n-butyl phthalate, several non-target compounds were also detected in the blanks. When common to the blank and samples, their presence in the samples have been rejected.

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 percent relative standard deviation (%RSD) limits for select compounds only and allows four outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD were less than 30% and the response factors were greater than 0.05 for all compounds, with the following exception:

Instrument MSE 11/17/00

Hexachlorobenzene 36.6%

Based on the %RSD, data for hexachlorobenzene have been qualified as estimated in the associated sample MW-17D.

4.2 Continuing Calibration

The response for several compounds in the continuing calibration standards were outside 25% difference (%D) of the initial calibration, as summarized on the attached calibration summary sheets. All positive data for compounds with increasing response factors and all data for compounds with decreasing responses (designated as negative values) have been qualified as estimated in the associated samples based on the %D.

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.

Recovery for one surrogate was outside control limits in samples MW-21D, MW-22R and MW-17D. Since the recoveries for the remaining surrogates were within control limits, no data have been qualified based on the deviations. All other sample 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 response for one or more internal standard was below established limits in samples MW-6A, MW-6AMS and MW-6AMSD. Data for all compounds quantitated under the non-compliant standards have been qualified as estimated based on the deviations. All other sample internal standard areas and retention times were within established limits.

7. Compound Identification

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

All identified compounds met the specified criteria.

Several volatile target and non-target compounds were included among the tentatively identified compounds listed as present in the samples. Since the measurement of these compounds is better suited to volatile analyses, their presence in this fraction have been rejected.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike, matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

Recovery for 4-nitrophenol was above control limits in both the matrix spike and matrix spike duplicate. Since all other matrix spike and matrix spike duplicate recoveries and all relative percent differences between recoveries were within control limits and since no 4-nitrophenol was detected in the samples, no data have been qualified based on the deviations.

9. Matrix Spike Blank

Recovery for 4-nitrophenol was above control limits in the matrix spike blank. Since all other matrix spike blank recoveries were within control limits and since no 4-nitrophenol was detected in the samples, no data have been qualified based on the deviation.

10. Field Duplicate

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-20D / MW-DUP-1	bis(2-ethylhexyl)phthalate	28	ND	HA

ND Not detected.

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

The duplicate results are acceptable.

11. 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 Checksheets

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> </u>	<u> X </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 base-neutral or acid 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> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<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> 22 </u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u> 0 </u> out of <u> 11 </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 blanks have positive results?	<u> X </u>	<u> </u>	<u> </u>

Semivolatile Organics Data Validation Checklist - Page 2

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

Semivolatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
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>	<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> </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 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> </u>	<u>X</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 error 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> </u>	<u>X</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 samples and blank within the upper and lower limits for each continuing calibration?	<u> </u>	<u>X</u>	<u> </u>

Semivolatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
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>

Semivolatile Qualifier Summary **Holding Time, Surrogates, Internal Standards**

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		N B Z	F B P	T P H	D C B	P H L	2 F P	T B P	2 C P	D C B	N P T	A N T	P H N	C R Y	P R Y
MW-1															
MW-20D															
MW-3															
MW-6A														↓	↓
MW-6AMS															↓
MW-6AMSD														↓	↓
MW-DUP-1															
MW-21R															
MW-21D			↑												
MW-22R			↑												
MW-22S															
MW-19D															
MW-16D															
MW-15S															
MW-16R															
MW-17S															
MW-17D					↓										
MW-12															

Surrogates:

NBZ Nitrobenzene-d5
 FBP 2-Fluorobiphenyl
 TPH Terphenyl-d14
 DCB 1,2-Dichlorobenzene-d4
 PHL Phenol-d6
 2FP 2-Fluorophenol
 TBP 2,4,6-Tribromophenol
 2CP 2-Chlorophenol-d4

Internal Standards:

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

Qualifiers:

D Diluted
 ↓ Recovery low
 ↑ Recovery high
 na not applicable

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

Semivolatile Calibration Outliers

Instrument: MS E

Date/Time	10/24/00		11/14 0945		11/14 2357		11/15 1401		11/16 0018	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Benzoic acid										
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol						-84.4				
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane				26.3		29.4		27.1		
Nitrobenzene						44.3				
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline						-62.7				
Hexachlorobutadiene				60.9		60.9		48.2		37.6
4-Chloro-3-methylphenol										
2-Methylnaphthalene				52.1		46.4		33.2		
Hexachlorocyclopentadiene				55.6		65.2		65.2		51.2
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline				32.3		39.4				32.9
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										

Semivolatile Calibration Outliers - Page 2

Date/Time	10/24/00		11/14 0945		11/14 2357		11/15 1401		11/16 0018	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
2,4-Dinitrophenol										
4-Nitrophenol				33.2		49.9		58.4		55.2
Dibenzofuran										
2,4-Dinitrotoluene						28.8				
Diethylphthalate										
Fluorene										
4-Chlorophenyl-phenylether				28.8						
4,6-Dinitro-2-methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Carbazole										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
Benzo(a)anthracene										
3,3'-Dichlorobenzidine										
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate										50.0
Benzo(b)fluoranthene										
Benzo(k)fluoranthene						28.0				
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:			MW21D		MW19D		MW16R		MW1	
			MW22R		MW16D		MW17S			
			MW22S		MW15S		MW12			
			MW21R				MW3			
							MW6A			
							MW6AMS			

Semivolatile Calibration Outliers - Page 3

Date/Time	10/24/00		11/14 0945		11/14 2357		11/15 1401		11/16 0018	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
							MW6AMSD			
							MWDUP1			
							MW20D			

Semivolatiele Calibration Outliers - Page 4

Instrument: MS E

Date/Time	11/17/00		12/4 1537							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Benzoic acid										
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol										
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane										
Nitrobenzene				53.3						
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol										
2-Methylnaphthalene										
Hexachlorocyclopentadiene										
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										

Semivolatile Calibration Outliers - Page 5

Date/Time	11/17/00		12/4 1537							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
2,4-Dinitrophenol				38.0						
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
Fluorene										
4-Chlorophenyl-phenylether										
4,6-Dinitro-2-methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene		36.6		55.4						
Pentachlorophenol										
Phenanthrene										
Anthracene										
Carbazole										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
Benzo(a)anthracene										
3,3'-Dichlorobenzidine										
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:	MW17D		MW17D							

Corrected Sample Analysis Data Sheets

1B
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-1

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65205-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111529

Level: (low/med) LOW

Date Received: 11/02/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-1

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65205-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111529

Level: (low/med) LOW

Date Received: 11/02/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	12	
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65205-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111529

Level: (low/med) LOW

Date Received: 11/02/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/16/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 13

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3 Penten 2 ol	1.11	8	JB
2.	Unknown	1.96	6	J
3.	Unknown	2.28	2	J
4.	Unknown	4.19	11	J
5.	Unknown	4.45	5	J
6.	Unknown	4.85	13	JB
7.	Unknown	5.58	5	J
8. 000050-45-3	Benzoic acid, -dichloro-	12.71	26	J
9.	Unknown	19.58	2	J
10.	Unknown	19.70	6	J
11.	Unknown Alkane	21.70	2	J
12.	Unknown Alkane	22.30	2	J
13.	Unknown	22.35	3	J
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-3

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111514

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-3

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111514

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	16	
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111514

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3-Penten-2-ol	1.11	10	JB
2.	Unknown	1.97	4	J
3.	Unknown	2.27	3	J
4.	Unknown	2.40	2	J
5.	Unknown	3.18	8	J
6.	Unknown	4.19	10	J
7.	Unknown	4.45	4	J
8.	Unknown	4.85	10	JB
9.	Unknown	5.58	13	J
10.	Unknown	5.94	2	J
11. 000050-45-3	Benzoic acid, dichloro-	12.71	34	J
12.	Unknown	19.70	5	J
13.	Unknown Alkane	19.79	2	J
14.	Unknown Alkane	21.09	2	J
15.	Unknown Alkane	21.70	2	J
16.	Unknown Alkane	22.30	2	J
17.	Unknown	22.35	5	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-6A

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111515

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

65-85-0	Benzoic acid	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
	bis(2-Chloroisopropyl) ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	5	- J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-6A

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111515

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/l

Q

CAS NO.

COMPOUND

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	1	J
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	J
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-6A

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111515

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3-Penten-2-ol	1.11	13	JB
2.	Unknown	1.92	4	J
3.	Unknown	1.97	5	J
4.	Unknown	2.28	6	J
5.	Unknown	2.56	2	J
6.	Unknown	4.20	13	J
7.	Unknown	4.45	6	J
8.	Unknown	4.67	7	J
9.	Unknown	4.85	19	JB
10.	Unknown	5.58	2	J
11.	Unknown	9.02	2	J
12.	Substituted Naphthalene	11.08	3	J
13.	Unknown	11.75	2	J
14. 000050-84-0	Benzoic acid, -dichloro-	12.70	14	J
15.	Unknown	12.73	12	J
16.	Unknown	19.70	5	J
17.	Unknown Alkane	19.79	2	J
18.	Unknown Alkane	20.45	2	J
19.	Unknown Alkane	21.09	2	J
20.	Unknown Alkane	21.71	3	J
21.	Unknown Alkane	22.30	2	J
22.	Unknown	22.35	3	J
23.				
24.				
25.				
26.				
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28.				
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1B
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-12

Lab Code: Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111510

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-12

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111510

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	2 10	JB U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-12

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111510

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000625-33-2	3-Penten-2-one	1.07	3	J
2. 001569-50-2	3-Penten-2-ol	1.11	34	JB
3.	Unknown	1.70	4	JB
4. 000050-45-3	Benzoic acid, -dichloro-	12.74	40	J
5.	Unknown	19.80	3	J
6.	Unknown Alkane	21.71	3	J
7.	Unknown Alkane	22.30	2	J
8.	Unknown	22.35	7	J
9.	Unknown Alkane	22.88	3	J
10.	Unknown Alkane	23.43	2	J
11.				
12.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-15S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111436

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-15S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111436

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	210	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-15S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111436

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.17	36	J
2.	Unknown	1.81	2	J
3.	Unknown	2.20	4	J
4.	Unknown	3.89	3	J
5.	Unknown	5.03	3	J
6.	000098-86-2 Acetophenone	7.20	3	J
7.	000050-45-3 Benzoic acid, -dichloro-	12.91	12	J
8.	002008-58-4 Benzamide, -dichloro-	13.67	2	J
9.	Unknown	19.86	3	J
10.	Unknown Alkane	21.87	2	J
11.	Unknown Alkane	22.46	3	J
12.	Unknown	22.52	4	J
13.				
14.				
15.				
16.				
17.				
18.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111435

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111435

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	210	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111435

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.20	10	J
2.	Unknown	2.42	4	J
3. 000096-19-5	1-Propene, -trichloro-	5.03	3	J
4. 000098-86-2	Acetophenone	7.20	2	J
5.	Unknown	12.89	3	J
6.	Unknown	19.87	3	J
7.	Unknown	21.87	2	J
8.	Unknown	22.52	6	J
9.	Unknown	23.04	3	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111507

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	27	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	20	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	3	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111507

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

99-09-2-----3-Nitroaniline	25	U
83-32-9-----Acenaphthene	54	
51-28-5-----2,4-Dinitrophenol	25	U
100-02-7-----4-Nitrophenol	25	U
132-64-9-----Dibenzofuran	10	U
121-14-2-----2,4-Dinitrotoluene	10	U
84-66-2-----Diethylphthalate	10	U
86-73-7-----Fluorene	13	
7005-72-3-----4-Chlorophenyl-phenylether	10	U
100-01-6-----4-Nitroaniline	25	U
534-52-1-----4,6-Dinitro-2-methylphenol	25	U
86-30-6-----N-Nitrosodiphenylamine	10	U
101-55-3-----4-Bromophenyl-phenylether	10	U
118-74-1-----Hexachlorobenzene	10	U
87-86-5-----Pentachlorophenol	25	U
85-01-8-----Phenanthrene	4	J
120-12-7-----Anthracene	1	J
86-74-8-----Carbazole	3	J
84-74-2-----Di-n-butylphthalate	210	JBU
206-44-0-----Fluoranthene	10	U
129-00-0-----Pyrene	10	U
85-68-7-----Butylbenzylphthalate	10	U
56-55-3-----Benzo(a)anthracene	10	U
91-94-1-----3,3'-Dichlorobenzidine	20	U
218-01-9-----Chrysene	10	U
117-81-7-----bis(2-Ethylhexyl)phthalate	1	J
117-84-0-----Di-n-octylphthalate	10	U
205-99-2-----Benzo(b)fluoranthene	10	U
207-08-9-----Benzo(k)fluoranthene	10	U
50-32-8-----Benzo(a)pyrene	10	U
193-39-5-----Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----Dibenzo(a,h)anthracene	10	U
191-24-2-----Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111507

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3-Penten-2-ol	1.09	27	JB
2. 000108-88-3	Toluene	1.58	22	J
3. 000100-41-4	Ethylbenzene	2.85	110	J
4. 000106-42-3	p-Xylene	3.05	51	J
5. 000095-47-6	Benzene, 1,2-dimethyl	3.57	46	J
6. 000620-14-4	Benzene, 1-ethyl-3-methyl	5.21	12	J
7. 000526-73-8	Benzene, 1,2,3-trimethyl	5.79	33	J
8. 000095-36-3	1,2,4-Trimethylbenzene	6.26	15	J
9. 000496-11-7	Indane	6.48	98	J
10. 000673-32-5	Benzene, 1-propynyl	6.65	77	J
11.	Unknown C10H12	8.10	14	J
12.	Unknown C10H10	8.21	14	J
13.	Unknown C10H10	8.30	27	J
14.	Unknown C10H10	8.33	14	J
15. 001504-58-1	3-Phenyl-2-propyn-1-ol	9.15	37	J
16. 000083-33-0	1H-Inden-1-one, 2,3-dihydro	9.95	16	J
17.	Substituted Naphthalene	10.32	94	J
18.	Unknown	10.44	33	J
19.	Substituted Naphthalene	11.52	30	J
20.	Unknown	11.64	45	J
21. 000050-84-0	Benzoic acid, -dichloro-	12.76	19	J
22.	Unknown	13.27	14	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED120403

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/04/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	2	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	62	
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED120403

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/04/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	40	
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	4	J
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	1	J
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED120403

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/04/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000108-88-3	Toluene	1.43	14	J
2. _____	Unknown C9H12	5.23	8	J
3. _____	Unknown C9H12	6.04	19	J
4. _____	Unknown C9H10	6.32	620	J
5. _____	Unknown C9H12	7.89	25	J
6. _____	Unknown C9H12	8.01	30	J
7. _____	Unknown PAH	8.09	12	J
8. _____	Unknown PAH	8.12	10	J
9. _____	Unknown PAH	9.41	7	J
10. _____	Unknown PAH	9.75	11	J
11. _____	Unknown PAH	10.13	120	J
12. _____	Unknown PAH	10.51	6	J
13. _____	Unknown PAH	11.04	6	J
14. _____	Unknown PAH	11.31	7	J
15. 000050-45-3	Benzoic acid, -dichloro-	12.62	44	J
16. _____	Unknown	19.51	11	J
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111508

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111508

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	1	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65538-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111508

Level: (low/med) LOW

Date Received: 11/09/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/13/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.06	3	J
2.	001569-50-2 3-Penten-2-ol	1.12	46	JB
3.	Unknown	1.70	5	JB
4.	Unknown	1.93	2	J
5.	Unknown	1.96	2	JB
6.	Unknown	2.09	2	JB
7.	Unknown	2.29	4	JB
8.	Unknown	3.69	3	J
9.	Unknown	4.85	2	J
10.	Unknown	7.03	2	J
11.	000050-45-3 Benzoic acid, dichloro-	12.74	50	J
12.	Unknown Alkane	21.09	2	J
13.	Unknown Alkane	21.72	3	J
14.	Unknown	22.17	4	JB
15.	Unknown Alkane	22.31	2	J
16.	Unknown	22.35	5	JB
17.	Unknown	22.88	3	J
18.	Unknown Alkane	23.42	2	J
19.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-19D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111434

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/l Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-19D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111434

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	2 10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-19D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65476-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111434

Level: (low/med) LOW

Date Received: 11/08/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.20	13	J
2.	Unknown	2.42	9	J
3.	Unknown	3.88	2	J
4.	Unknown Alkane	21.87	3	JB
5.	Unknown Alkane	22.47	3	JB
6.	Unknown	22.52	5	J
7.	Unknown Alkane	23.04	3	J
8.	Unknown Alkane	23.56	2	J
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10.				
11.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111519

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

65-85-0	Benzoic acid	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
	bis(2-Chloroisopropyl) ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-20D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111519

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	28	
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-20D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111519

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~001569-50-2~~	~~3-Penten-2-ol~~	1.11	9	JB
2.	Unknown	1.96	4	J
3.	Unknown	2.28	4	J
4.	Unknown	4.20	10	J
5.	Unknown	4.45	4	J
6.	Unknown	4.85	10	JB
7. 000050-45-3	Benzoic acid, -dichloro-	12.68	15	J
8.	Unknown	19.70	4	JB
9.	Unknown	22.35	4	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111411

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111411

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111411

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3-Penten-2-ol	1.17	39	JB
2.	Unknown	1.80	5	JB
3.	Unknown	4.86	4	J
4.	Unknown	5.04	6	J
5.	Unknown	5.76	4	J
6.	Unknown	9.30	4	J
7.	Unknown	9.85	4	J
8.	Unknown	12.11	4	J
9.	Unknown	12.85	12	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-10

Sample wt/vol: 900 (g/mL) mL

Lab File ID: ED111414

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

65-85-0-----	Benzoic acid	11	U
108-95-2-----	Phenol	11	U
111-44-4-----	bis(2-Chloroethyl) ether	11	U
95-57-8-----	2-Chlorophenol	11	U
541-73-1-----	1,3-Dichlorobenzene	11	U
106-46-7-----	1,4-Dichlorobenzene	11	U
95-50-1-----	1,2-Dichlorobenzene	11	U
100-51-6-----	Benzyl alcohol	11	U
95-48-7-----	2-Methylphenol	11	U
-----	bis(2-Chloroisopropyl) ether	11	U
106-44-5-----	4-Methylphenol	11	U
621-64-7-----	N-Nitroso-di-n-propylamine	11	U
67-72-1-----	Hexachloroethane	11	U
98-95-3-----	Nitrobenzene	11	U
78-59-1-----	Isophorone	11	U
88-75-5-----	2-Nitrophenol	11	U
105-67-9-----	2,4-Dimethylphenol	11	U
111-91-1-----	bis(2-Chloroethoxy) methane	11	U
120-83-2-----	2,4-Dichlorophenol	11	U
120-82-1-----	1,2,4-Trichlorobenzene	11	U
91-20-3-----	Naphthalene	11	U
106-47-8-----	4-Chloroaniline	11	U
87-68-3-----	Hexachlorobutadiene	11	U
59-50-7-----	4-Chloro-3-methylphenol	11	U
91-57-6-----	2-Methylnaphthalene	11	U
77-47-4-----	Hexachlorocyclopentadiene	11	U
88-06-2-----	2,4,6-Trichlorophenol	11	U
95-95-4-----	2,4,5-Trichlorophenol	11	U
91-58-7-----	2-Chloronaphthalene	11	U
88-74-4-----	2-Nitroaniline	28	U
131-11-3-----	Dimethylphthalate	11	U
208-96-8-----	Acenaphthylene	11	U
606-20-2-----	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-10

Sample wt/vol: 900 (g/mL) mL

Lab File ID: ED111414

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

99-09-2-----	3-Nitroaniline	28	U
83-32-9-----	Acenaphthene	11	U
51-28-5-----	2,4-Dinitrophenol	28	U
100-02-7-----	4-Nitrophenol	28	U
132-64-9-----	Dibenzofuran	11	U
121-14-2-----	2,4-Dinitrotoluene	11	U
84-66-2-----	Diethylphthalate	11	U
86-73-7-----	Fluorene	11	U
7005-72-3-----	4-Chlorophenyl-phenylether	11	U
100-01-6-----	4-Nitroaniline	28	U
534-52-1-----	4,6-Dinitro-2-methylphenol	28	U
86-30-6-----	N-Nitrosodiphenylamine	11	U
101-55-3-----	4-Bromophenyl-phenylether	11	U
118-74-1-----	Hexachlorobenzene	11	U
87-86-5-----	Pentachlorophenol	28	U
85-01-8-----	Phenanthrene	11	U
120-12-7-----	Anthracene	11	U
86-74-8-----	Carbazole	11	U
84-74-2-----	Di-n-butylphthalate	11	U
206-44-0-----	Fluoranthene	11	U
129-00-0-----	Pyrene	11	U
85-68-7-----	Butylbenzylphthalate	11	U
56-55-3-----	Benzo(a)anthracene	11	U
91-94-1-----	3,3'-Dichlorobenzidine	22	U
218-01-9-----	Chrysene	11	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	11	U
117-84-0-----	Di-n-octylphthalate	11	U
205-99-2-----	Benzo(b)fluoranthene	11	U
207-08-9-----	Benzo(k)fluoranthene	11	U
50-32-8-----	Benzo(a)pyrene	11	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	11	U
53-70-3-----	Dibenzo(a,h)anthracene	11	U
191-24-2-----	Benzo(g,h,i)perylene	11	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-10

Sample wt/vol: 900 (g/mL) mL

Lab File ID: ED111414

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3-Penten-2-ol	1.79	5	JB
2.	Unknown	2.08	2	J
3.	Unknown	2.20	2	JB
4.	Unknown	3.89	2	JB
5. 000050-45-3	Benzoic acid, -dichloro-	12.92	70	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22-R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111412

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

CAS NO.	COMPOUND		
65-85-0	Benzoic acid	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
	bis(2-Chloroisopropyl) ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.:

MW-22-R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111412

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	210	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22-R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111412

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 8

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3-Penten-2-ol	1.78	5	JB
2.	Unknown	2.20	21	JB
3.	Unknown	5.55	4	J
4. 054446-78-5	Ethanol, 1-(2-butoxyethoxy)-	8.94	7	J
5. 000112-36-7	Ethane, 1,1'-oxybis[2-ethoxy	9.86	8	J
6. 000124-17-4	Ethanol, 2-(2-butoxyethoxy)-	11.15	300	J
7.	Unknown	12.58	4	J
8.	Unknown	12.69	5	J
9.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-4

Sample wt/vol: 900 (g/mL) mL

Lab File ID: ED111413

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

65-85-0-----	Benzoic acid	11	U
108-95-2-----	Phenol	11	U
111-44-4-----	bis(2-Chloroethyl) ether	11	U
95-57-8-----	2-Chlorophenol	11	U
541-73-1-----	1,3-Dichlorobenzene	11	U
106-46-7-----	1,4-Dichlorobenzene	11	U
95-50-1-----	1,2-Dichlorobenzene	11	U
100-51-6-----	Benzyl alcohol	11	U
95-48-7-----	2-Methylphenol	11	U
-----	bis(2-Chloroisopropyl) ether	11	U
106-44-5-----	4-Methylphenol	11	U
621-64-7-----	N-Nitroso-di-n-propylamine	11	U
67-72-1-----	Hexachloroethane	11	U
98-95-3-----	Nitrobenzene	11	U
78-59-1-----	Isophorone	11	U
88-75-5-----	2-Nitrophenol	11	U
105-67-9-----	2,4-Dimethylphenol	11	U
111-91-1-----	bis(2-Chloroethoxy) methane	11	U
120-83-2-----	2,4-Dichlorophenol	11	U
120-82-1-----	1,2,4-Trichlorobenzene	11	U
91-20-3-----	Naphthalene	11	U
106-47-8-----	4-Chloroaniline	11	U
87-68-3-----	Hexachlorobutadiene	11	U
59-50-7-----	4-Chloro-3-methylphenol	11	U
91-57-6-----	2-Methylnaphthalene	11	U
77-47-4-----	Hexachlorocyclopentadiene	11	U
88-06-2-----	2,4,6-Trichlorophenol	11	U
95-95-4-----	2,4,5-Trichlorophenol	11	U
91-58-7-----	2-Chloronaphthalene	11	U
88-74-4-----	2-Nitroaniline	28	U
131-11-3-----	Dimethylphthalate	11	U
208-96-8-----	Acenaphthylene	11	U
606-20-2-----	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-22S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-4

Sample wt/vol: 900 (g/mL) mL

Lab File ID: ED111413

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	28	U
83-32-9-----	Acenaphthene	11	U
51-28-5-----	2,4-Dinitrophenol	28	U
100-02-7-----	4-Nitrophenol	28	U
132-64-9-----	Dibenzofuran	11	U
121-14-2-----	2,4-Dinitrotoluene	11	U
84-66-2-----	Diethylphthalate	11	U
86-73-7-----	Fluorene	11	U
7005-72-3-----	4-Chlorophenyl-phenylether	11	U
100-01-6-----	4-Nitroaniline	28	U
534-52-1-----	4,6-Dinitro-2-methylphenol	28	U
86-30-6-----	N-Nitrosodiphenylamine	11	U
101-55-3-----	4-Bromophenyl-phenylether	11	U
118-74-1-----	Hexachlorobenzene	11	U
87-86-5-----	Pentachlorophenol	28	U
85-01-8-----	Phenanthrene	11	U
120-12-7-----	Anthracene	11	U
86-74-8-----	Carbazole	11	U
84-74-2-----	Di-n-butylphthalate	211	UB U
206-44-0-----	Fluoranthene	11	U
129-00-0-----	Pyrene	11	U
85-68-7-----	Butylbenzylphthalate	11	U
56-55-3-----	Benzo(a)anthracene	11	U
91-94-1-----	3,3'-Dichlorobenzidine	22	U
218-01-9-----	Chrysene	11	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----	Di-n-octylphthalate	11	U
205-99-2-----	Benzo(b)fluoranthene	11	U
207-08-9-----	Benzo(k)fluoranthene	11	U
50-32-8-----	Benzo(a)pyrene	11	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	11	U
53-70-3-----	Dibenzo(a,h)anthracene	11	U
191-24-2-----	Benzo(g,h,i)perylene	11	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-4

Sample wt/vol: 900 (g/mL) mL

Lab File ID: ED111413

Level: (low/med) LOW

Date Received: 11/04/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3-Penten-2-ol	1.79	5	JB
2.	Unknown	2.08	2	J
3.	Unknown	2.20	3	JB
4.	Unknown	2.42	4	J
5.	Unknown	3.89	2	JB
6.	Unknown	4.85	3	J
7.	Unknown	5.04	4	J
8. 000050-84-0	Benzoic acid, -dichloro-	12.93	92	J
9. 002008-58-4	Benzamide, 2,6-dichloro-	13.64	3	J
10.				
11.				
12.				
13.				
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30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-DUP-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111518

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

65-85-0-----	Benzoic acid	10	U
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
-----	bis(2-Chloroisopropyl) ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-DUP-1

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111518

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE-ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-DUP-1

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65252-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: ED111518

Level: (low/med) LOW

Date Received: 11/03/00

% Moisture: decanted: (Y/N) N

Date Extracted: 11/07/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/15/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001569-50-2	3-Penten-2-ol	1.11	8	JJ
2.	Unknown	1.97	4	J
3.	Unknown	2.28	5	J
4.	Unknown	4.20	11	J
5.	Unknown	4.45	5	J
6.	Unknown C8H16	4.86	13	J
7. 000050-84-0	Benzoic acid, -dichloro-	12.67	12	J
8.	Unknown	19.70	8	J
9.	Unknown Alkane	19.79	2	J
10.	Unknown Alkane	21.71	2	J
11.				
12.				
13.				
14.				
15.				
16.				
17.				
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PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 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.
- C Identification confirmed by GC/MS.
- 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 tests, 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 PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for waters are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the specified holding time.

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 Aroclors were detected in the method blank.

3. System Performance

System performance and column resolution were 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

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within the specified limit.

5. Surrogates / System Monitoring Compounds

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

All surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell within the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

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

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

8. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-21R / MW-DUP-2	Aroclor 1254	0.32	0.41	24.6%

The duplicate results are acceptable.

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 Checksheets

PCB 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> </u>	<u> X </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 recoveries of any surrogate 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> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<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> 4 </u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u> 0 </u> out of <u> 2 </u>		
<u>Blanks</u>			
Is a 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>
Is the chromatographic performance acceptable for each instrument?	<u> X </u>	<u> </u>	<u> </u>

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any method/reagent/instrument blanks have positive results?	<u> </u>	<u> X </u>	<u> </u>
Do any field/rinse/equipment blanks have positive results?	<u> </u>	<u> </u>	<u> X </u>
Are there field/rinse/equipment blanks associated with every sample?	<u> </u>	<u> X </u>	<u> </u>
<u>Calibration and GC Performance</u>			
Are the following chromatograms and integration reports present?			
peak resolution check	<u> </u>	<u> X </u>	<u> </u>
Aroclor 1016/1260	<u> X </u>	<u> </u>	<u> </u>
Aroclors 1221, 1232, 1242, 1248, and 1254	<u> X </u>	<u> </u>	<u> </u>
Is a calibration summary form present and complete for each analytical sequence?	<u> X </u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the forms?	<u> </u>	<u> X </u>	<u> </u>
Are the %RSD for the initial calibration within specified limits for all analytes?	<u> X </u>	<u> </u>	<u> </u>
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?	<u> </u>	<u> </u>	<u> X </u>
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	<u> X </u>	<u> </u>	<u> </u>
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	<u> </u>	<u> X </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the form?	<u> </u>	<u> X </u>	<u> </u>
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	<u> X </u>	<u> </u>	<u> </u>
<u>Analytical Sequence</u>			
Is Form VIII present and complete for each column and each period of analyses?	<u> X </u>	<u> </u>	<u> </u>
Was the proper analytical sequence followed?	<u> X </u>	<u> </u>	<u> </u>

PCB Data Validation Checklist - Page 3

	YES	NO	NA
<u>Cleanup Efficiency Verification</u>			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	<u>X</u>	<u> </u>	<u> </u>
<u>PCB Identification</u>			
Are RT of sample compounds within the established RT windows?	<u>X</u>	<u> </u>	<u> </u>
Were all positively identified compounds confirmed on a second column?	<u>X</u>	<u> </u>	<u> </u>
Was GC/MS confirmation provided when required?	<u> </u>	<u> </u>	<u>X</u>
Were there any false negatives?	<u> </u>	<u>X</u>	<u> </u>
<u>Compound Quantitation and Reported 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 waters, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
<u>Chromatogram Quality</u>			
Were the baselines stable?	<u>X</u>	<u> </u>	<u> </u>
Were any electronegative displacement (negative peaks) or unusual peaks detected?	<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>

PCB Qualifier Summary

Holding Time and Surrogates

[illegible]

Surrogates:

TCX	Tetrachloro-m-xylene
DCB	Decachlorobiphenyl
na	Not applicable

Qualifiers:

D	Surrogate diluted out
↑	Recovery high
↓	Recovery low

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

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

[illegible]

Corrected Sample Analysis Data Sheets

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-10

Sample wt/vol: 900 (g/mL) mL

Lab File ID: HP9B\1110b010

% Moisture: decanted: (Y/N) N

Date Received: 11/04/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/10/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

12674-11-2-----Aroclor-1016	0.06	U
11104-28-2-----Aroclor-1221	0.06	U
11141-16-5-----Aroclor-1232	0.06	U
53469-21-9-----Aroclor-1242	0.06	U
12672-29-6-----Aroclor-1248	0.06	U
11097-69-1-----Aroclor-1254	0.32	
11096-82-5-----Aroclor-1260	0.06	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-DUP-2

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L65205

Matrix: (soil/water) WATER

Lab Sample ID: L65272-5

Sample wt/vol: 900 (g/mL) mL

Lab File ID: HP9B\1110b007

% Moisture: decanted: (Y/N) N

Date Received: 11/04/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/09/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/10/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

12674-11-2-----Aroclor-1016	0.06	U
11104-28-2-----Aroclor-1221	0.06	U
11141-16-5-----Aroclor-1232	0.06	U
53469-21-9-----Aroclor-1242	0.06	U
12672-29-6-----Aroclor-1248	0.06	U
11097-69-1-----Aroclor-1254	0.41	
11096-82-5-----Aroclor-1260	0.06	U

FORM I PEST

INORGANIC ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 methods.

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:

Concentration (C) qualifiers:

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

- E The reported value is estimated due to the presence of interference.
- M Duplicate injection precision not met.
- N Spiked sample recovery not within control limits.
- S Reported value was determined by the method of standard additions (MSA).
- W Post-digestion spike for Furnace-AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- * Duplicate analysis not within control limits.
- + Correlation coefficient for MSA is less than 0.995.

Validation qualifiers:

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- 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 tests, 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 inorganic analyses under NYSASP protocols is as follows. All holding times are measured from validated time of sample receipt (VTSR).

Metals (other than mercury)	180 days
Mercury	26 days
Cyanide	12 days

The technical holding times for inorganic analyses is as follows. All holding times are measured from date of collection.

Metals (other than mercury)	180 days
Mercury	28 days
Cyanide	14 days

All samples were analyzed within 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 (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

All calibration and preparation blanks were found to be acceptable, with no analytes detected above the CRDL.

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 continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits with the exception of sodium in one standard. Since no samples were associated with the non-compliant standard, the deviation has no impact on the reported data.

3.3 CRDL Standard

All CRDL standard recoveries were within control limits.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

All dissolved matrix spike recoveries were within control limits. The total matrix spike recovery for selenium was, however, below control limits. All total selenium data have been qualified as estimated based on the recovery.

4.2 Laboratory Duplicate

All laboratory duplicate results were within control limits.

5. Field Duplicate

Results for the duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-20D / MW-DUP-1	barium	117B	118B	<CRDL
	calcium	181000	181000	0.0%
	iron	928	1160	22.2%
	magnesium	41000	41000	0.0%
	manganese	581	580	0.2%
	potassium	3760B	3780B	<CRDL
	sodium	390000	387000	0.8%
	zinc	5.1B	4.3B	<CRDL

The duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

All LCS recoveries were within control limits.

7. Serial Dilution

All required serial dilution results were acceptable.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

11. 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 specified in the method.

Data Validation Checksheets

Inorganic Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</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> </u>	<u>X</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>X</u>	<u> </u>	<u> </u>
<u>Form I to IX</u>			
Are all the Form I through Form IX labeled with:			
Laboratory name?	<u>X</u>	<u> </u>	<u> </u>
Sample No.?	<u>X</u>	<u> </u>	<u> </u>
SDG No.?	<u>X</u>	<u> </u>	<u> </u>
Correct units?	<u>X</u>	<u> </u>	<u> </u>
Matrix?	<u>X</u>	<u> </u>	<u> </u>
<u>Raw Data</u>			
Is the digestion log for flame AA/ICP present?	<u>X</u>	<u> </u>	<u> </u>
Is the digestion log for furnace AA present?	<u> </u>	<u> </u>	<u>X</u>
Is the distillation log for mercury present?	<u>X</u>	<u> </u>	<u> </u>
Is the distillation log for cyanides present?	<u>X</u>	<u> </u>	<u> </u>
Are pH values listed?	<u>X</u>	<u> </u>	<u> </u>
pH for metals analyses <2 (waters)?	<u>X</u>	<u> </u>	<u> </u>
pH for cyanide analyses >12 (waters)?	<u>X</u>	<u> </u>	<u> </u>
Percent solids calculation present for soils/sediments?	<u> </u>	<u> </u>	<u>X</u>
Are preparation dates present on sample preparation logs/bench sheets?	<u>X</u>	<u> </u>	<u> </u>
Are the measurement read out records present for:			
ICP	<u>X</u>	<u> </u>	<u> </u>
Flame AA	<u> </u>	<u> </u>	<u>X</u>
Furnace AA	<u> </u>	<u> </u>	<u>X</u>
Mercury	<u>X</u>	<u> </u>	<u> </u>
Cyanides	<u>X</u>	<u> </u>	<u> </u>
Is the data legible?	<u>X</u>	<u> </u>	<u> </u>
Is the data properly labeled?	<u>X</u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Were mercury analyses performed within 28 days?	<u>X</u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 2

	YES	NO	NA
Were cyanide distillations performed within 14 days?	<u>X</u>	<u> </u>	<u> </u>
Were other metal analysis performed within 6 months?	<u>X</u>	<u> </u>	<u> </u>
<u>Form I (Final Data)</u>			
Are all forms complete?	<u>X</u>	<u> </u>	<u> </u>
Are correct units indicated on Form I's?	<u>X</u>	<u> </u>	<u> </u>
Are soil sample results for each parameter corrected for percent solids?	<u>X</u>	<u> </u>	<u> </u>
Are all "less than IDL" values properly coded with "U"?	<u>X</u>	<u> </u>	<u> </u>
Are the correct concentration qualifiers used with final data?	<u>X</u>	<u> </u>	<u> </u>
Is a physical description of samples given on Form I's?	<u>X</u>	<u> </u>	<u> </u>
<u>Calibration</u>			
Is a record of at least 2 point calibration present for ICP analysis?	<u>X</u>	<u> </u>	<u> </u>
Is a record of 5 point calibration present for Hg analysis?	<u>X</u>	<u> </u>	<u> </u>
Is a record of 4 point calibration present for:			
Flame AA?	<u> </u>	<u> </u>	<u>X</u>
Furnace AA?	<u> </u>	<u> </u>	<u>X</u>
Cyanides?	<u>X</u>	<u> </u>	<u> </u>
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	<u>X</u>	<u> </u>	<u> </u>
Is correlation coefficient less than .995 for:			
Mercury Analysis?	<u> </u>	<u>X</u>	<u> </u>
Cyanide Analysis?	<u> </u>	<u>X</u>	<u> </u>
Atomic Absorption Analysis?	<u> </u>	<u> </u>	<u>X</u>
<u>Form II A (Initial and Continuing Calibration Verification)</u>			
Present and complete for all analytes?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	<u> </u>	<u>X</u>	<u> </u>
Hg (80-120%)?	<u>X</u>	<u> </u>	<u> </u>
Cyanides (85-115%)?	<u>X</u>	<u> </u>	<u> </u>
Was continuing calibration performed every 10 samples or every 2 hours?	<u>X</u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 3

	YES	NO	NA
Was the ICV for cyanides distilled?	<u>X</u>	<u> </u>	<u> </u>
<u>Form II B (CRDL Standards for AA and ICP)</u>			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	<u> </u>	<u> </u>	<u>X</u>
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?	<u>X</u>	<u> </u>	<u> </u>
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?	<u>X</u>	<u> </u>	<u> </u>
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	<u>X</u>	<u> </u>	<u> </u>
Are CRA and CRI standards within control limits for metals (60-120%)?	<u>X</u>	<u> </u>	<u> </u>
Is mid-range standard within control limits for cyanide (80-120%)	<u>X</u>	<u> </u>	<u> </u>
<u>Form III (Initial and Continuing Calibration Blanks)</u>			
Present and complete?	<u>X</u>	<u> </u>	<u> </u>
Was an initial calibration blank analyzed?	<u>X</u>	<u> </u>	<u> </u>
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	<u>X</u>	<u> </u>	<u> </u>
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?	<u> </u>	<u> </u>	<u>X</u>
<u>Form III (Preparation Blank)</u>			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	<u>X</u>	<u> </u>	<u> </u>
each batch of digested samples?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?	<u>X</u>	<u> </u>	<u> </u>
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	<u> </u>	<u> </u>	<u>X</u>
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?	<u> </u>	<u> </u>	<u>X</u>

Inorganic Data Validation Checklist - Page 4

	YES	NO	NA
Is concentration of prep. blank below the negative CRDL?	☐	☒	☐
<u>Form IV (ICP Interference Check Sample)</u>			
Present and complete?	☒	☐	☐
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	☒	☐	☐
Are all ICS results inside the control limits ($\pm 20\%$)?	☒	☐	☐
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?	☐	☐	☒
<u>Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)</u>			
Present and complete for:			
each SDG?	☒	☐	☐
each matrix type?	☒	☐	☐
Was field blank used for spiked sample?	☐	☒	☐
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?	☐	☒	☐
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	☒	☐	☐
<u>Aqueous</u>			
Are any spike recoveries:			
less than 30%?	☐	☒	☐
between 30-74%?	☒	☐	☐
between 126-150%?	☐	☒	☐
greater than 150%?	☐	☒	☐
<u>Soil/Sediment</u>			
Are any spike recoveries:			
less than 10%?	☐	☐	☒
between 10-74%?	☐	☐	☒
between 126-200%?	☐	☐	☒
greater than 200%?	☐	☐	☒
<u>Form VI (Lab Duplicates)</u>			
Present and complete for:			
each SDG?	☒	☐	☐
each matrix type?	☒	☐	☐

Inorganic Data Validation Checklist - Page 5

	YES	NO	NA
Was field blank used for duplicate analysis?	<u> </u>	<u> X </u>	<u> </u>
Are all values within control limits (RPD 20% or difference $\leq \pm$ CRDL)?	<u> X </u>	<u> </u>	<u> </u>
If no, are all results outside the control limits flagged with an * on Form I's and VI?	<u> </u>	<u> </u>	<u> X </u>
<u>Aqueous</u>			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?	<u> </u>	<u> X </u>	<u> </u>
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	<u> </u>	<u> X </u>	<u> </u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?	<u> </u>	<u> </u>	<u> X </u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?	<u> </u>	<u> </u>	<u> X </u>
<u>Field Duplicates</u>			
Were field duplicates analyzed?	<u> X </u>	<u> </u>	<u> </u>
<u>Aqueous</u>			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?	<u> </u>	<u> X </u>	<u> </u>
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	<u> </u>	<u> X </u>	<u> </u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?	<u> </u>	<u> </u>	<u> X </u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) > 2xCRDL?	<u> </u>	<u> </u>	<u> X </u>
<u>Form VII (Laboratory Control Sample)</u>			
Was one LCS prepared and analyzed for:			
each SDG?	<u> X </u>	<u> </u>	<u> </u>
each batch samples digested/distilled?	<u> X </u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 6

	YES	NO	NA
<u>Aqueous LCS</u>			
Is any LCS recovery:			
less than 50%?	_____	<u>X</u>	_____
between 50% and 79%?	_____	<u>X</u>	_____
between 121% and 150%?	_____	<u>X</u>	_____
greater than 150%?	_____	<u>X</u>	_____
<u>Solid LCS</u>			
Is LCS "Found" value higher than the control limits?	_____	_____	<u>X</u>
Is LCS "Found" lower than the control limits?	_____	_____	<u>X</u>
<u>Form IX (ICP Serial Dilution)</u>			
Was Serial Dilution analysis performed for:			
each SDG?	<u>X</u>	_____	_____
each matrix type?	<u>X</u>	_____	_____
Was field blank(s) used for Serial Dilution Analysis?	_____	<u>X</u>	_____
Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.	_____	_____	<u>X</u>
Are any required % difference values:			
> 10%?	_____	<u>X</u>	_____
≥100%?	_____	<u>X</u>	_____
<u>Furnace Atomic Absorption (AA) QC Analysis</u>			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?	_____	_____	<u>X</u>
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?	_____	_____	<u>X</u>
Were dilutions analyzed for samples with analytical spike recovery less than 40%?	_____	_____	<u>X</u>
Is analytical spike recovery outside the control limits (85-115%) for any sample?	_____	_____	<u>X</u>
<u>Form VIII (Method of Standard Addition Results)</u>			
Present?	_____	<u>X</u>	_____
If no, is any Form I result coded with "S" or "+"?	_____	<u>X</u>	_____
Was MSA required for any sample but not performed?	_____	<u>X</u>	_____

Inorganic Data Validation Checklist - Page 7

	YES	NO	NA
Is the coefficient of correlation for MSA less than 0.995 for any sample?	_____	_____	<u>X</u>
Is the coefficient of correlation for MSA less than 0.990 for any sample?	_____	_____	<u>X</u>
Was proper quantitation procedure followed?	_____	_____	<u>X</u>
<u>Dissolved/Total for Inorganic/Total Analytes</u>			
Were any analyses performed for dissolved as well as total analytes on the same sample.	<u>X</u>	_____	_____
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if greater than CRDL)	_____	<u>X</u>	_____
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?	_____	<u>X</u>	_____
<u>Field Blank</u>			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	_____	_____	<u>X</u>
If no, was field blank value already rejected due to other QC criteria?	_____	_____	<u>X</u>
<u>Form X, XI, XII (Verification of Instrumental Parameters)</u>			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	<u>X</u>	_____	_____
ICP Interelement Correlation Factors (annually)?	<u>X</u>	_____	_____
ICP Linear Ranges (quarterly)?	<u>X</u>	_____	_____
Is IDL greater than CRDL for any analyte?	_____	<u>X</u>	_____
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.	_____	_____	<u>X</u>
Was any sample result higher than the linear range of ICP.	<u>X</u>	_____	_____
Was any sample result higher than the highest calibration standard for non-ICP parameters?	_____	<u>X</u>	_____
If yes for any of the above, was the sample diluted to obtain the result on Form I?	<u>X</u>	_____	_____
<u>Percent Solids</u>			
Are the percent solids in soil/sediment(s):			
< 50%?	_____	_____	<u>X</u>
< 10%?	_____	_____	<u>X</u>

Corrected Sample Analysis Data Sheets

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

DMW-16R

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65538-6

Level (low/med): LOW

Date Received: 11/09/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1400			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	5030			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	136			P
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium	619	B		P
7439-96-5	Manganese	18.3			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	5730			P
7782-49-2	Selenium	10.3			P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	355000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.0	U		P
57-12-5	Cyanide	251			C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

FORM I - IN

10/95

203

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-1

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65205-1

Level (low/med): LOW

Date Received: 11/02/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	208			P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	108	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	144000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	2680			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	35700			P
7439-96-5	Manganese	1930			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	8160			P
7782-49-2	Selenium	4.0	✓	*N	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	202000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	6.8	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-3

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65252-2

Level (low/med): LOW

Date Received: 11/03/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	256			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	288000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	140	U		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	82300			P
7439-96-5	Manganese	8090			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	23200			P
7782-49-2	Selenium	4.0	U	*N	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	364000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.0	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-6A

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65252-3

Level (low/med): LOW

Date Received: 11/03/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	365	—		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	6.3	B		P
7440-39-3	Barium	435			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	217000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	7.8	B		P
7439-89-6	Iron	48900			P
7439-92-1	Lead	5.5			P
7439-95-4	Magnesium	36300			P
7439-96-5	Manganese	3070			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	8710			P
7782-49-2	Selenium	5.0		*N J	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	194000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	12.5	B		P
57-12-5	Cyanide	203			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-12

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65538-4

Level (low/med): LOW

Date Received: 11/09/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	241			P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	71.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	151000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	28.0	U		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	31600			P
7439-96-5	Manganese	3110			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	9270			P
7782-49-2	Selenium	4.0	U	*N	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	223000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.7	B		P
57-12-5	Cyanide	12.8			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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205

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW-15S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65476-5

Level (low/med): LOW

Date Received: 11/08/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	187	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	82800			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	3420			P
7439-92-1	Lead	2.2	B		P
7439-95-4	Magnesium	8160			P
7439-96-5	Manganese	700			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	4670	B		P
7782-49-2	Selenium	4.0	U	*N WJ	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	62000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.0	U		P
57-12-5	Cyanide	23.4			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-16D

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65476-4

Level (low/med): LOW

Date Received: 11/08/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	125	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	8.4	B		P
7440-39-3	Barium	860			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	161000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.4	B		P
7439-89-6	Iron	19800			P
7439-92-1	Lead	2.3	B		P
7439-95-4	Magnesium	21700			P
7439-96-5	Manganese	2400			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	7250			P
7782-49-2	Selenium	4.0	U	*N W	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	264000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.6	B		P
57-12-5	Cyanide	151			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-16R

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65538-1

Level (low/med): LOW

Date Received: 11/09/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2530	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1480			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	5880			P
7440-47-3	Chromium	3.7	B		P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	9.0	B		P
7439-89-6	Iron	4910			P
7439-92-1	Lead	15.9			P
7439-95-4	Magnesium	1850	B		P
7439-96-5	Manganese	76.4			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.6	B		P
7440-09-7	Potassium	5680			P
7782-49-2	Selenium	4.0	Ø	*N WJ	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	369000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	4.7	B		P
7440-66-6	Zinc	17.3	B		P
57-12-5	Cyanide	172			C

Color Before: grey

Clarity Before: cloudy

Texture:

Color After: light yell

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-17D

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65538-3

Level (low/med): LOW

Date Received: 11/09/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	886	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	5150			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	223000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	15500			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	50800			P
7439-96-5	Manganese	2710			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	8450			P
7782-49-2	Selenium	4.0	U	*N	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	313000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.6	B		P
57-12-5	Cyanide	450			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW-17S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65538-2

Level (low/med): LOW

Date Received: 11/09/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	73.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	93600			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.9	B		P
7439-89-6	Iron	21000			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	15600			P
7439-96-5	Manganese	1220			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	1430	B		P
7782-49-2	Selenium	4.0	~~U~~	*N 5	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	38000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.0	U		P
57-12-5	Cyanide	36.2			C

Color Before: brown

Clarity Before: cloudy

Texture:

Color After: light yell

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-19D

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65476-1

Level (low/med): LOW

Date Received: 11/08/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	54.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	116000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	3.8	B		P
7439-89-6	Iron	1670			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	22300			P
7439-96-5	Manganese	7290			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	16400			P
7782-49-2	Selenium	4.8	B	*NJ	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	116000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.8	B		P
57-12-5	Cyanide	92.6			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW-20D

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65252-1

Level (low/med): LOW

Date Received: 11/03/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	117	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	181000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	928			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	41000			P
7439-96-5	Manganese	581			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	3760	B		P
7782-49-2	Selenium	4.0	U	*N W	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	390000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	5.1	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-21D

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65272-2

Level (low/med): LOW

Date Received: 11/04/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1210			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	258000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	22400			P
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium	54100			P
7439-96-5	Manganese	5090			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	8790			P
7782-49-2	Selenium	6.8		*N J	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	260000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.0	U		P
57-12-5	Cyanide	113			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

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NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-21R

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65272-10

Level (low/med): LOW

Date Received: 11/04/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	464	—		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	948			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	4360	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	1040			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	970	B		P
7439-96-5	Manganese	31.7			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	3570	B		P
7782-49-2	Selenium	4.0	✓	*N 5	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	234000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.8	B		P
57-12-5	Cyanide	83.0			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

FORM I - IN

10/95

21.1

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW-22-R

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65272-3

Level (low/med): LOW

Date Received: 11/04/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	139	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	7860			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	83100			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	117			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	21600			P
7439-96-5	Manganese	837			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	14600			P
7782-49-2	Selenium	4.0	✓	*N W	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	171000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	2.0	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-22S

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65272-4

Level (low/med): LOW

Date Received: 11/04/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.6	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	100	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	201000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	4.1	B		P
7440-50-8	Copper	6.7	B		P
7439-89-6	Iron	88.9	B		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	28500			P
7439-96-5	Manganese	880			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.2	B		P
7440-09-7	Potassium	9390			P
7782-49-2	Selenium	4.0	U	*N W	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	26200			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	98.6			P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-DUP-1

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L65205

Matrix (soil/water): Water

Lab Sample ID: L65252-6

Level (low/med): LOW

Date Received: 11/03/00

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	118	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	181000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	1160			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	41000			P
7439-96-5	Manganese	588			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	3780	B		P
7782-49-2	Selenium	4.0	*N	5	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	387000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	4.3	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

FORM I - IN

10/95

Laboratory Narrative



6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Ms. Lynette Mokry
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC North Albany Project No. 366.08
SDG L65205

The following package contains the analytical results of the water samples submitted to our laboratory on November 2, 4, 8 and 9, 2000. The samples were received intact and under proper chain of custody. The temperature of the samples was checked upon receipt. The sample temperatures, as recorded with a temperature gun, were 7.2°, 3.6°, 5.7°, 4.2° and 6.2°C. The samples were assigned to logins L65205, L65252, L65272, L65476 and L65538, and sample delivery group (SDG) L65205.

The samples are reported according to ASP Category B guidelines. Samples MW-6A and MW-21R were submitted for matrix spike and spike duplicate analyses. The samples were analyzed by SW846 methods 8260, 8270, 8082, 6010/7000 and 9010.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the *package review checklists*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Lyndi L. Mjeda

Date: December 14, 2000



GC/MS VOLATILES PACKAGE REVIEW CHECKLIST

Client: B&N AUSany Project: N Aibany SDG: L65205

	<u>YES</u>	<u>NO</u>	<u>NA</u>
DEC FORMS: Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>
Hold Times Met	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 1A: Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>
FORM 1E: Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>
Raw Data Present for All Samples	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 2A/B: Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>
Surrogate Recoveries in Limits	<u>✓</u>	<u>—</u>	<u>—</u>
If No, sample(s) reanalyzed	<u>—</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 3A/B: Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>
Spike Recoveries in Limits	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 4A: Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>

FORM 5A: Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>

MDLs: Present and Complete	<u>✓</u>	<u>—</u>	<u>—</u>

GC/MS VOLATILES PACKAGE REVIEW CHECKLIST

Client: W. A. Albany Project: N. Albany SDG: L65305

	<u>YES</u>	<u>NO</u>	<u>NA</u>
FORM 6A: Present and Complete Calibration(s) Pass	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 7A: Present and Complete Calibration(s) Pass	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 8A: Present and Complete Internal Std Areas in Limits If Not, Sample(s) Reanalyzed	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

FORM 1A - Method Blanks, MS/MSD/MSB: Present and Complete Raw Data Present Method Blanks <MDL If not, Associated Data Flagged "B"	<u>✓</u>	<u>—</u>	<u>—</u>

Comments: _____

INTERNAL CHAIN OF CUSTODY: Present	<u>✓</u>	<u>—</u>	<u>—</u>

PERCENT MOISTURE SHEET: Present	<u>—</u>	<u>—</u>	<u>✓</u>

SECTION SUPERVISOR: R. L. L. L. L. DATE: 12/4/00

QC REVIEWER: L. L. L. L. L. DATE: 12/8/00

GC/MS Semivolatile Package Review Checklist

Client : BBL Project : NIMO/N. ALBANY SDG : LG5205

		YES	NO	NA
DEC Forms	present and complete	☒	☐	☐
	hold times met	☒	☐	☐
comments : _____				

Internal Chain-of-Custody	present and complete	☒	☐	☐
Form 2C/2D	present and complete	☒	☐	☐
	surrogate recoveries within limits *	☒	☐	☐
	sample(s) reanalyzed	☒	☐	☐
comments : <u>2 surrogates in prep. blank failed high due to low internal std. (1) Reanalyzed with similar results. There were no positive hits above CROL in the blank.</u>				
Form 3C/3D	present and complete	☒	☐	☐
	spike recoveries within limits	☒	☐	☐
comments : <u>Recoveries of 2 compounds were above in-house control limits. However, these 2 compounds were not detected in the associated samples.</u>				
Form 4B	present and complete	☒	☐	☐
Form 5B	present and complete	☒	☐	☐
IDLs	present and complete	☒	☐	☐
Sample Form 1B/1C/1F	present and complete	☒	☐	☐
	raw data present for all samples	☒	☐	☐
comments : _____				

Form 6B/6C	present and complete	☒	☐	☐
	calibration(s) pass	☒	☐	☐
comments : _____				

GC/MS Semivolatile Package Review Checklist

Client: BBL

Project: Nimble N. ALBANY SDG: LG5205

YES NO NA

Form 7B/7C

present and complete
calibration(s) pass

☒ ☐ ☐

comments: 3 compounds failed high, yet not detected above
CRQL in the affected samples. Pentachlorophenol analyzed
at 0.18 on 11/16/00 exceeded criteria (h.p. was 24.5%, less
sensitive)

Form 8B/8C

present and complete
internal standard areas within limits
sample(s) reanalyzed

☒ ☐ ☐
☐ ☒ ☐
☒ ☐ ☐

comments: Prep. blank R/G 27258-1, sample MWA, MS and M&D
exceeded internal standard criteria. Prep. blank was
reanalyzed. It is suspected that the glassware used for
this blank was contaminated with acid from Nitric acid wash.

QC Form 1B/1C/1F

present and complete
raw data present for all samples
method blank results <MDL
associated results flagged "B"

☒ ☐ ☐
☒ ☐ ☐
☐ ☒ ☐
☒ ☐ ☐

comments: Library search for prep. blank R/G 27258-1 was
done on the reanalysis run.

Calculation Sheet

present

☒ ☐ ☐

Instrument Logs

present and complete

☒ ☐ ☐

Extraction Logs

present and complete

☒ ☐ ☐

Moisture Sheet

present and complete

☐ ☐ ☒

additional comments: _____

Section Supervisor: Conner V. Kappel

Date: 12/5/00

QC Reviewer: Lynne W. Mott

Date: 12/8/00

Method 8082 PCB Package Review Checklist

Client BBL Project Nimo N. Albany SDG 265 205

		<u>Yes</u>	<u>No</u>	<u>NA</u>
DEC Forms:	Present and complete	✓		
	Holding times met	✓		

Comments: _____

Internal Chain of Custody: Present ✓

Form 1D: Present and complete ✓

Raw Data present for all samples ✓

Non-detects lined-out and initialed

Comments: _____

Form 2E: Present and complete ✓

Surrogate Recoveries within limits ✓

Comments: _____

Form 3E: Present and complete

Spike Recoveries within limits ✓

Comments: _____

Method 8082 PCB Package Review Checklist

Client BBL Project Nimrod/N. Albany SDG L65205

		<u>Yes</u>	<u>No</u>	<u>NA</u>
Form 4C:	Present and complete	<u>✓</u>	<u> </u>	<u> </u>
IDLs:	Present and complete	<u>✓</u>	<u> </u>	<u> </u>
GC Parameters:	Present and complete	<u>✓</u>	<u> </u>	<u> </u>
Form 6E:	Present and complete	<u>✓</u>	<u> </u>	<u> </u>
	% RSD within limits ($\leq 20\%$)	<u>✓</u>	<u> </u>	<u> </u>
Comments: _____				

Form 7: Present and complete ✓

% D within limits ($\pm 15\%$) ✓

Comments: _____

Form 8:	Present and complete	<u>✓</u>	<u> </u>	<u> </u>
	% D within limits	<u>✓</u>	<u> </u>	<u> </u>
Form 9:	Present and complete	<u>✓</u>	<u> </u>	<u> </u>
	% D within limits ($\pm 15\%$)	<u>✓</u>	<u> </u>	<u> </u>
Comments:				

Calibration Data: Present and complete

Method 8082 PCB Package Review Checklist

Client BBL Project Nimo / N. Albany SDG 265205

Yes No NA

Form 1D, Method Blanks, MS/MSD, MSB:

Present and complete	<u>✓</u>	<u> </u>	<u> </u>
Raw Data present	<u>✓</u>	<u> </u>	<u> </u>
Non-detects lined-out and initialed	<u>✓</u>	<u> </u>	<u> </u>
Method Blank(s) results < MDL	<u>✓</u>	<u> </u>	<u> </u>
If no, associated results flagged "B"	<u> </u>	<u> </u>	<u>✓</u>

Comment:

Calculation Formula:	Present	<u>✓</u>	<u> </u>	<u> </u>
Extraction Logs:	Present	<u>✓</u>	<u> </u>	<u> </u>
GPC/Calibration Logs:	Present	<u> </u>	<u> </u>	<u>✓</u>
% Moisture Calculation:	Present	<u> </u>	<u> </u>	<u>✓</u>
Calibration and Spike Standards Log:	Present	<u>✓</u>	<u> </u>	<u> </u>

Section Supervisor: [Signature] Date: 11/16/00

QC Reviewer: [Signature] Date: 12/8/00

INORGANIC PACKAGE REVIEW CHECKLIST

CLIENT BBL PROJECT NMPC NALBANY SDG L65205

	YES	NO	NA
DEC FORMS: PRESENT AND COMPLETE	☒	☐	☐
HOLD TIMES MET	☒	☐	☐
COMMENTS: _____			
COVER PAGE: PRESENT AND COMPLETE	☒	☐	☐
METALS CHAIN OF CUSTODY PRESENT	☒	☐	☐
FORM 1: PRESENT AND COMPLETE	☒	☐	☐
COMMENTS: _____			
FORM 2: PRESENT AND COMPLETE	☒	☐	☐
ICV/CCV RECOVERIES WITHIN LIMITS	☐	☒	☐
COMMENTS: <u>12/1 RUN FINAL CCV SLIGHTLY LOW FOR Na. Only</u> <u>affects CRT, ICSA + ICSAB. Samples not affected.</u>			
FORM 2B: PRESENT AND COMPLETE	☒	☐	☐
RECOVERIES WITHIN 80-120%	☒	☐	☐
Not required for Al, Ba, Ca, Fe, Mg, Na, K			
COMMENTS: _____			
FORM 3: PRESENT AND COMPLETE	☒	☐	☐
ICB/CCBs LESS THAN CRDL	☒	☐	☐
ALL PBs PRESENT AND <CRDL	☒	☐	☐
COMMENTS: _____			
FORM 4: PRESENT AND COMPLETE	☒	☐	☐
RECOVERIES WITHIN 80-120%	☒	☐	☐
Not required for Ca, Mg, K and Na			
COMMENTS: _____			
FORM 5: PRESENT AND COMPLETE	☒	☐	☐
IF SR<4XSA, RECOVERIES WITHIN 75-125%	☐	☒	☐
Not required for Ca, Mg, K and Na for all matrices, and Al, Fe for soils.			
IF NO, POST SPIKES PERFORMED	☒	☐	☐
ASSOCIATED RESULTS FLAGGED "N"	☒	☐	☐
COMMENTS: <u>See %R 58.7% for total metals</u>			

INORGANIC PACKAGE REVIEW CHECKLIST

CLIENT BBL PROJECT NMPC N. ALBANY SDG LL65205

	YES	NO	NA
FORM 6: PRESENT AND COMPLETE	☒	☐	☐
IF CRDL < SR < 5XCRDL, SR-DR < CRDL	☐	☒	☐
IF SR > 5XCRDL, RPD < 20%	☒	☐	☐
IF NO, ASSOCIATED RESULTS FLAGGED "*"	☒	☐	☐

COMMENTS: Se slightly outside control limit for total metals.

FORM 7: PRESENT AND COMPLETE	☒	☐	☐
RECOVERIES WITHIN 80-120% FOR WATER	☒	☐	☐
RECOVERIES WITHIN LIMITS FOR SOILS	☐	☐	☒

COMMENTS: _____

FORM 9: PRESENT AND COMPLETE	☒	☐	☐
IF SR > 50X IDL; %D < 10%	☒	☐	☐
IF NO, ASSOCIATED RESULTS FLAGGED "E"	☐	☐	☒

COMMENTS: _____

FORM 10: PRESENT AND COMPLETE	☒	☐	☐
FORM 11: PRESENT AND COMPLETE	☒	☐	☐
FORM 12: PRESENT AND COMPLETE	☒	☐	☐
FORM 13: PRESENT AND COMPLETE	☒	☐	☐

COMMENTS: _____

FORM 14: PRESENT AND COMPLETE	☒	☐	☐

COMMENTS: _____

RAW DATA: PRESENT FOR ALL SAMPLES	☒	☐	☐

CALIBRATION STANDARDS LOG: PRESENT	☒	☐	☐

PERCENT MOISTURE CALCULATION: PRESENT	☐	☐	☒

SECTION SUPERVISOR: Terry O'Brien DATE: 12/13/00

QC REVIEWER: Sydney M. Melt DATE: 12/14/00

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L65205 SDG : L65205 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio- Carbamates Pest	Methyl- Carbamates	Organics List #	ETU	Karb.	CN- Total	CN- Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
MW-1	L65205-1	X	X								X		1			
TRIP BLANK	L65205-2	X														

METALS LIST 1 : HG, AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L65252

SDG : L65205 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio- Carbamates Pest.	Methyl- Carbamates	Organics List #	ETU	Karp.	CN- Total	CN- Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
MW-20D	L65252-1	X	X									X		1		
MW-3	L65252-2	X	X									X		1		
MW-6A	L65252-3	X	X									X		1		
MW-6AMS	L65252-4	X	X									X		1		
MW-6AMSD	L65252-5	X	X									X		1		
MW-DUP-1	L65252-6	X	X									X		1		
TRIP BLANK	L65252-7	X														
MSB	L65252-8	X	X									X		1		

METALS LIST 1 : HG, AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L65272

SDG : L65205 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos. pesticides	Chlor Herb.	T. Dithio- Carbamates Pest.	Methyl- Carbamates	Organics List #	ETU	Karb	CN- Total	CN- Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
MW-21D	L65272-2	X	X									X		1		
MW-22-R	L65272-3	X	X									X		1		
MW-22S	L65272-4	X	X									X		1		
MW-DUP-2	L65272-5			X												
TRIP BLANK	L65272-6	X														
MW-21RMS	L65272-7			X												
MW-21RMSD	L65272-8			X												
MSB	L65272-9			X												
MW-21R	L65272-10	X	X	X								X		1		

METALS LIST 1 : HG, AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L65476

SDG : *L65205* MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos Pesticides	Chlor Herb.	T. Dithio- Carbametes Pest.	Methyl- Carbamates	Organics List #	ETU	Karp.	CN- Total	CN- Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
MW-19D	L65476-1	X	X								X		1			
MW-16D	L65476-4	X	X								X		1			
MW-15S	L65476-5	X	X								X		1			
TRIP BLANK	L65476-6	X														

METALS LIST I : HG, AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L65538

SDG : L65205 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos Pesticides	Chlor Herb.	T Dithio- Carbamates Pest	Methyl- Carbamates	Organics List #	ETU	Karb.	CN- Total	CN- Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
MW-16R	L65538-1	X	X									X		1		
MW-17S	L65538-2	X	X									X		1		
MW-17D	L65538-3	X	X									X		1		
MW-12	L65538-4	X	X									X		1		
TRIP BLANK	L65538-5	X														
MW-16R	L65538-6											X			1	

METALS LIST 1 : HG, AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN

DISSOLVED METALS LIST 1 : HG, AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
MW-1 L65205-1	WATER	01-NOV-00	02-NOV-00	NA	03-NOV-00
MW-12 L65538-4	WATER	08-NOV-00	09-NOV-00	NA	13-NOV-00
MW-15S L65476-5	WATER	07-NOV-00	08-NOV-00	NA	08-NOV-00
MW-16D L65476-4	WATER	07-NOV-00	08-NOV-00	NA	08-NOV-00
MW-16R L65538-1	WATER	08-NOV-00	09-NOV-00	NA	13-NOV-00
MW-16R DL L65538-1 DL	WATER	08-NOV-00	09-NOV-00	NA	14-NOV-00
MW-17D L65538-3	WATER	08-NOV-00	09-NOV-00	NA	13-NOV-00
MW-17D DL L65538-3 DL	WATER	08-NOV-00	09-NOV-00	NA	14-NOV-00
MW-17S L65538-2	WATER	08-NOV-00	09-NOV-00	NA	14-NOV-00
MW-19D L65476-1	WATER	07-NOV-00	08-NOV-00	NA	08-NOV-00
MW-20D L65252-1	WATER	02-NOV-00	03-NOV-00	NA	06-NOV-00
MW-21D L65272-2	WATER	03-NOV-00	04-NOV-00	NA	07-NOV-00
MW-21R L65272-10	WATER	03-NOV-00	04-NOV-00	NA	07-NOV-00
MW-22-R L65272-3	WATER	03-NOV-00	04-NOV-00	NA	07-NOV-00
MW-22S L65272-4	WATER	03-NOV-00	04-NOV-00	NA	07-NOV-00
MW-3 L65252-2	WATER	02-NOV-00	03-NOV-00	NA	07-NOV-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
MW-6A L65252-3	WATER	02-NOV-00	03-NOV-00	NA	06-NOV-00
MW-6AMS L65252-4	WATER	02-NOV-00	03-NOV-00	NA	06-NOV-00
MW-6AMSD L65252-5	WATER	02-NOV-00	03-NOV-00	NA	06-NOV-00
MW-DUP-1 L65252-6	WATER	02-NOV-00	03-NOV-00	NA	07-NOV-00
TRIP BLANK L65205-2	WATER	01-NOV-00	02-NOV-00	NA	06-NOV-00
TRIP BLANK L65252-7	WATER	02-NOV-00	03-NOV-00	NA	06-NOV-00
TRIP BLANK L65272-6	WATER	03-NOV-00	04-NOV-00	NA	07-NOV-00
TRIP BLANK L65476-6	WATER	07-NOV-00	08-NOV-00	NA	08-NOV-00
TRIP BLANK L65538-5	WATER	08-NOV-00	09-NOV-00	NA	14-NOV-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
MW-1 L65205-1	WATER	01-NOV-00	02-NOV-00	07-NOV-00	16-NOV-00
MW-12 L65538-4	WATER	08-NOV-00	09-NOV-00	13-NOV-00	15-NOV-00
MW-15S L65476-5	WATER	07-NOV-00	08-NOV-00	09-NOV-00	15-NOV-00
MW-16D L65476-4	WATER	07-NOV-00	08-NOV-00	09-NOV-00	15-NOV-00
MW-16R L65538-1	WATER	08-NOV-00	09-NOV-00	13-NOV-00	15-NOV-00
MW-17D L65538-3	WATER	08-NOV-00	09-NOV-00	13-NOV-00	04-DEC-00
MW-17S L65538-2	WATER	08-NOV-00	09-NOV-00	13-NOV-00	15-NOV-00
MW-19D L65476-1	WATER	07-NOV-00	08-NOV-00	09-NOV-00	15-NOV-00
MW-20D L65252-1	WATER	02-NOV-00	03-NOV-00	07-NOV-00	15-NOV-00
MW-21D L65272-2	WATER	03-NOV-00	04-NOV-00	08-NOV-00	14-NOV-00
MW-21R L65272-10	WATER	03-NOV-00	04-NOV-00	08-NOV-00	14-NOV-00
MW-22-R L65272-3	WATER	03-NOV-00	04-NOV-00	08-NOV-00	14-NOV-00
MW-22S L65272-4	WATER	03-NOV-00	04-NOV-00	08-NOV-00	14-NOV-00
MW-3 L65252-2	WATER	02-NOV-00	03-NOV-00	07-NOV-00	15-NOV-00
MW-6A L65252-3	WATER	02-NOV-00	03-NOV-00	07-NOV-00	15-NOV-00
MW-6AMS L65252-4	WATER	02-NOV-00	03-NOV-00	07-NOV-00	15-NOV-00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
MW-1 L65205-1	WATER	SW846 8270	SW846/3520 /8270	NONE	1
MW-12 L65538-4	WATER	SW846 8270	SW846/3520 /8270		1
MW-15S L65476-5	WATER	SW846 8270	SW846/3520 /8270		1
MW-16D L65476-4	WATER	SW846 8270	SW846/3520 /8270		1
MW-16R L65538-1	WATER	SW846 8270	SW846/3520 /8270		1
MW-17D L65538-3	WATER	SW846 8270	SW846/3520 /8270		1
MW-17S L65538-2	WATER	SW846 8270	SW846/3520 /8270		1
MW-19D L65476-1	WATER	SW846 8270	SW846/3520 /8270		1
MW-20D L65252-1	WATER	SW846 8270	SW846/3520 /8270		1
MW-21D L65272-2	WATER	SW846 8270	SW846/3520 /8270		1
MW-21R L65272-10	WATER	SW846 8270	SW846/3520 /8270		1
MW-22-R L65272-3	WATER	SW846 8270	SW846/3520 /8270		1
MW-22S L65272-4	WATER	SW846 8270	SW846/3520 /8270		1
MW-3 L65252-2	WATER	SW846 8270	SW846/3520 /8270		1
MW-6A L65252-3	WATER	SW846 8270	SW846/3520 /8270		1
MW-6AMS L65252-4	WATER	SW846 8270	SW846/3520 /8270		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INORGANIC SAMPLE ANALYSIS SUMMARY

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE REC'D	DATE ANALYZED
DMW-16R DL65538-6	DISSOLVED WATER	TAL METALS HG CN	11/9/00	ICP : 12/01/00 HG : 11/16/00 CN : 11/15/00
DMW-16RMS DL65538-6S	DISSOLVED WATER	TAL METALS HG	11/9/00	ICP : 12/01/00 HG : 11/16/00
DMW-16RMSD DL65538-6D	DISSOLVED WATER	TAL METALS HG	11/9/00	ICP : 12/01/00 HG : 11/16/00
MW-1 L65205-1	WATER	TAL METALS HG CN-	11/2/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/08/00
MW-12 L65538-4	WATER	TAL METALS HG CN-	11/9/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/15/00
MW-15S L65476-5	WATER	TAL METALS HG CN-	11/8/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/15/00
MW-16D L65476-4	WATER	TAL METALS HG CN-	11/8/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/15/00
MW-16R L65538-1	WATER	TAL METALS HG CN-	11/9/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/15/00
MW-17D L65538-3	WATER	TAL METALS HG CN-	11/9/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/15/00
MW-17S L65538-2	WATER	TAL METALS HG CN-	11/9/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/15/00
MW-19D L65476-1	WATER	TAL METALS HG CN-	11/8/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/15/00
MW-20D L65252-1	WATER	TAL METALS HG CN-	11/3/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/08/00
MW-21D L65272-2	WATER	TAL METALS HG CN-	11/4/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/10/00
MW-21R L65272-10	WATER	TAL METALS HG CN-	11/4/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/10/00
MW-22-R L65272-3	WATER	TAL METALS HG CN-	11/4/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/10/00
MW-22S L65272-4	WATER	TAL METALS HG CN-	11/4/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/10/00
MW-3 L65252-2	WATER	TAL METALS HG CN-	11/3/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/08/00
MW-DUP-1 L65252-6	WATER	TAL METALS HG CN-	11/3/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/08/00

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INORGANIC SAMPLE ANALYSIS SUMMARY

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE REC'D	DATE ANALYZED
MW-6A L65252-3	WATER	TAL METALS HG CN-	11/3/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/10/00
MW-6AMS L65252-4S	WATER	TAL METALS HG CN-	11/3/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/10/00
MW-6AMSD L65252-5D	WATER	TAL METALS HG CN-	11/3/00	ICP : 11/21/00 HG : 11/16/00 CN- : 11/10/00

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	TAL	
L65205	11/1/00	1995	MW-1	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² TAL - ms
	--	1995	TRIP BLANK 1	water	no	--	--	--	VOA - temperature, cal ³
	11/2/00	1995	MW-20D	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² TAL - ms
	11/2/00	1995	MW-3	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² TAL - ms
	11/2/00	1995	MW-6A	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² , is TAL - ms
	11/2/00	1995	MW-DUP-1	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² TAL - ms
	--	1995	TRIP BLANK 2	water	no	--	--	--	VOA - temperature, cal ³
	11/3/00	1995	MW-21R	water	no	no	yes	no	VOA - temperature, cal ³ BNA - ms ² TAL - ms
	11/3/00	1995	MW-21D	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² , surr ² TAL - ms
	11/3/00	1995	MW-22R	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² , surr ² TAL - ms
	11/3/00	1995	MW-22S	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² TAL - ms
	11/3/00	1995	MW-DUP-2	water	--	--	yes	--	VOA - temperature, cal ³
	--	1995	TRIP BLANK 3	water	no	--	--	--	VOA - temperature, cal ³

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	TAL	
	11/7/00	1995	MW-19D	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² , cal ³ TAL - ms
	11/7/00	1995	MW-16D	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² , cal ³ TAL - ms
	11/7/00	1995	MW-15S	water	no	no	--	no	VOA - temperature, cal ³ BNA - ms ² , cal ³ TAL - ms
	--	1995	TRIP BLANK 4	water	no	--	--	--	VOA - temperature, cal ³
	11/8/00	1995	MW-16R	water	no	no	--	no	VOA - temperature BNA - ms ² TAL - ms
	11/8/00	1995	MW-17S	water	no	no	--	no	VOA - temperature BNA - ms ² TAL - ms
	11/8/00	1995	MW-17D	water	no	no	--	no	VOA - temperature BNA - ms ² , cal ³ , surr ² TAL - ms
	11/8/00	1995	MW-12	water	no	no	--	no	VOA - temperature BNA - ms ² TAL - ms
	--	1995	TRIP BLANK 5	water	no	--	--	--	VOA - temperature

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
- 2 The deviation resulted in no qualification of data.
- 3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.