Attachment F

Data Validation Reports

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

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# C4H040243, 04080019 and G135-29

Volatile, Semi-volatile, PCB, Pesticide, Herbicides
Dioxins, Metals and Miscellaneous Analyses

Analyses performed by:

Severn Trent Laboratories
Pittsburgh, Pennsylvania

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# C4H040243, 04080019 and G135-29 for sampling of the GE Hudson Treatability Study. Included with this assessment are the data review checklists 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						
				TCLP VOC	TCLP SVOC	TCLP PEST/ HERB	PCB	DIOXIN	MET[1]	MISC[2]
PFP-17-FC	C4H040243-001	Solid	08/02/04	x	x	x			x	
PFP-17-FC DUP	C4H040243-002	Solid	08/02/04	x	x	x			x	
PFP-17-FC	AH08165	Solid	08/02/04				x			
PFP-17-FC DUP	AH08166	Solid	08/02/04				x			
S3-13	AH08167	Solid	08/02/04				x			
S3-14	AH08168	Solid	08/02/04				x			
S3-15	AH08169	Solid	08/02/04				x			
S3-16	AH08170	Solid	08/02/04				x			
S3-17	AH08171	Solid	08/02/04				x			
S2-13	AH08172	Solid	08/02/04				x			
S2-14	AH08173	Solid	08/02/04				x			
S2-15	AH08174	Solid	08/02/04				x			
PFP-17-Filtrate	AH08175	Water	08/03/04				x			x
PFP-17-Filtrate-DUP	AH08176	Water	08/03/04				x			x
PFP-17-FC	G135-29-1D	Solid	08/02/04					x		

1 Metals analyses include total and TCLP metals
2 Miscellaneous parameters include Total Organic Carbon, Total Suspended Solids and pH

Note: Metals and miscellaneous parameters were analyzed by STL of Pittsburg, PA, PAH and PCB parameters were analyzed by Northeast Analytical Laboratories of Schenectady, NY and Dioxins were analyzed by Paradigm Analytical Labs of Wilmington, NC.

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260.

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 is 14 days from sample collection.

All samples were analyzed past the technical holding times. All data were qualified as estimated based on the holding time violation.

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. Rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the method blank.

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 initial calibration %RSD and the response factors were within control limits.

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.

The continuing calibration %D was within acceptable limits for all compounds.

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.

No target compounds were identified in the samples.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method.

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

9. Laboratory Control Sample

The laboratory control sample recoveries were within control limits.

10. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-17-FC TCLP / PFP-17-FC DUP TCLP	All	ND	ND	NA

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

Duplicate results are acceptable.

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 listed in the analytical method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

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

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

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are initial calibration forms present for each instrument?	X		
Are the response factor RSDs within acceptable limits?	X		
Are the average RRFs ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are continuing calibration forms present for each day and 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 ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*			Internal Standards*			
		TOL	BFB	DBF	PBF	DFB	CBZ	DCB
PFP-17-FC	+3							
PFP-17-FC-DUP	+3							

Surrogates:
TOL Toluene-d8
BFB Bromofluorobenzene
DBF Dibromofluoromethane

Internal Standards:
PFB Pentafluorobenzene
DFB 1,4-Difluorobenzene
CBZ Chlorobenzene-d5
DCB 1,4-Dichlorobenzene-d4

Qualifiers:
D Diluted
↑ Recovery high
↓ Recovery low
↓↓ Recovery <25%

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

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270.

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 for soils are 14 days from sample collection to extraction and 40 days from extraction to analysis.

All samples were extracted past the holding time. Data were qualified as estimated based on the holding time violation.

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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the 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 initial calibration %RSD and the response factors were within control limits.

4.2 Continuing Calibration

The continuing calibration standards were within acceptable limits for all compounds.

.

5. Surrogates / System Monitoring Compounds

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

All surrogate recoveries were within control limits.

6. Internal Standard Performance

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

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

7. Compound Identification

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 (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method.

All MS/MSD recoveries were within control limits. The relative percent difference between recoveries was above control limit for 2,4,5-trichlorophenol and 2,4,6-trichlorophenol. Since the MS/MSD was performed on a non-site sample, no data were qualified based on the deviations.

9. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

10. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-17-FC TCLP / PFP-17-FC DUP TCLP	Pyridine	0.0025J	ND	NA

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

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 Checklist

Semi-volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?	X		
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 66			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
2 out of 33			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		
		X	

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

	YES	NO	NA
Quantitation and Detection Limits			
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		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?	X		
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
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 ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Semi-volatile Qualifier Summary

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		2FP	PHL	NBZ	FBP	TBP	TPH	2CP	DCB	DCB	NPT	ANT	PHN	CRY	PRY
PFP-17-FC	+16							--	--						
PFP-17-FC DUP	+16							--	--						

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
↓↓ Response <25%

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

PCDD/PCDF ANALYSES

Introduction

Analyses were performed according to the USEPA Method 1613.

The data review process is intended to evaluate the data on a technical basis. 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 qualifiers:

ND	The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
EMPC	The "estimated maximum possible concentration" is reported when GC/MS signals eluting within the established retention time window have a signal-to-noise ratio in excess of 2.5 but do not meet the ion abundance ratio criteria.

Quantitation qualifiers:

B	The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
S	The compound has exceeded the normal dynamic range.
PR	The reported concentration may be overestimated due to a poorly resolved GC peak.
U	The reported concentration may be underestimated due to the presence of a large closely eluting peak.
E	The reported concentration is based on an analyte to internal standard ratio which exceeds the range of the calibration curve. The value should be considered estimated only.

Validation qualifiers:

J	The compound was positively identified; however, the associated numerical value is an estimated concentration only.
R	The sample results are rejected.

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

Data Assessment

1. Holding Time

The method-specified holding times for PCDD/PCDF analysis of samples are 30 days from sample collection to extraction and 45 days from collection to analysis.

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

2. Blank Contamination

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

No compounds detected in the method blanks affected the sample data.

3. Mass Spectrometer Resolution Check

Resolution 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 % relative standard deviation (%RSD) was less than 15% for all non-labeled compounds (targets) and less than 20% for all labeled compounds (internal standards and recovery standards). All isotope abundance ratios were within the defined limits.

4.2 Continuing Calibration

All continuing calibration target standards were within the 20% difference (%D) of the initial calibration.

5. Recovery Standard Performance

All samples to be analyzed for PCDD/PCDF compounds are spiked with recovery standard prior to injection. The concentrations of all the labeled standards (internal standards) are determined by using the recovery standard.

All recovery standard isotopic ratios were acceptable.

6. Internal Standard Performance and Recovery

All samples to be analyzed for PCDD/PCDF compounds are spiked with internal standards prior to extraction, which eliminates the need to correct quantitative data for extraction efficiency.

Recovery for internal standards were within the acceptable control limits

7. Compound Identification

PCDD/PCDF compounds are identified by using the compound's ion abundance ratios, signal-to-noise values, and relative retention times.

An EMPC or "estimated maximum possible concentration" designation is given to compounds which have signals eluting within the established retention time window which would, if positively identified, above the detection limit. The signals do not, however, meet the ion abundance ratio criteria and cannot be identified as the compound of interest. The EMPC value is the estimated concentration of the interferant quantitated "as" the compound of interest. This value should be considered an elevated detection limit based on potential compound identification and quantitation interference.

All identified compounds met method criteria.

8. Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)

Although not required by the method, matrix spike and matrix spike duplicates can be analyzed to provide an additional assessment of the precision and accuracy of the analytical method.

No MS/MSD samples were submitted with this SDG. The laboratory control sample recoveries were within control limits.

9. Field Duplicates

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

10. System Performance and Overall Assessment

The Data flagged by the laboratory as exhibiting a quantitative interference “Q” have been replaced with a “J” qualifier and qualified as estimated.

The compound OCDD, associated with sample PFP-17-FC, exhibited a concentration greater then the linear range of the analytical curve; therefore the sample result was qualified as estimated.

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

Data Validation Checklist

PCDD/PCDF Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the samples numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Internal Standard Performance			
Was internal standard data submitted?	X		
Was one or more internal standard recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Was one or more ion abundance ratio or retention time outside control limits?		X	
Recovery Standard Performance			
Was recovery standard data submitted?	X		
Was one or more ion abundance ratio or retention time outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Matrix Spikes			
Is there matrix spike recovery data submitted?		X	
Were matrix spikes analyzed at the required frequency?			X
Were any spike recoveries outside control limits?			X
Blanks			
Is the method blank data submitted?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Is the chromatographic performance acceptable for each instrument?	X		
Do any method/reagent/instrument blanks have positive results?	X		
Are field/equipment blanks associated with every sample?		X	

	YES	NO	NA
Do any field/equipment blanks have positive results?			X
Mass Spectrometer Resolution			
Are the GC/MS resolution check data submitted?	X		
Was the resolution acceptable?	X		
Target Analytes			
Is a PCDD/PCDF analysis results sheet present for each of the following:			
Samples	X		
Matrix spikes			X
Blanks	X		
Are the selected ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes			X
Blanks	X		
Is the chromatographic performance acceptable with respect to:			
Baseline stability	X		
Resolution	X		
Peak shape	X		
Quantitation and Detection Limits			
Are the reporting limits adjusted to reflect sample dilutions and for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and selected ion chromatograms present for the initial and continuing calibration standards?		X	
Initial Calibration			
Was the initial calibration data submitted for each instrument used?	X		
Are the response factor RSDs within specified limits?	X		
Were the ion abundance ratios within specifications?	X		
Was the signal-to-noise ratio ≥ 10:1 for the ion current profiles?	X		
Continuing Calibration			
Was the continuing calibration data submitted for each instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of	X		

	YES	NO	NA
analysis per instrument?			
All %D within acceptable limits?	X		
Were the ion abundance ratios within specifications?	X		
Was the signal-to-noise ratio ≥ 10:1 for the ion current profiles?	X		
Field Duplicates			
Where field duplicates submitted with the samples?		X	

PESTICIDE/HERBICIDE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Methods 8081 and 8151.

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 Pesticide and Herbicide analyses for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted past the technical holding time. Data were qualified as estimated based on the holding time violation.

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. Rinse blanks measure contamination of samples during field operations.

No analytes were detected in the method blanks.

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. Alternatively, calibration curves may be constructed.

All initial calibration data were acceptable.

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.

No target analytes were identified in the samples.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries were within control limits.

8. Laboratory Control Sample

The laboratory control sample recoveries were within control limits.

9. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-17-FC TCLP / PFP-17-FC DUP TCLP	All	ND	ND	NA

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

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 Checklist

Pesticide/Herbicide Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?	X		
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 14			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 7			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/instrument blanks have positive results?		X	
Are field/rinse blanks associated with every sample?		X	

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
INDA	X		
INDB	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?			X
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	

	YES	NO	NA
Compound Quantitation and Reported Detection Limits			
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Pesticide/Herbicide Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
PFP-17-FC			
PFP-17-FC DUP			

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 ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082.

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 for soils is 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the technical 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. Rinse blanks measure contamination of samples during field operations.

Aroclors were detected in the method blanks. Since all samples were at a concentration greater than the blank action level, no data were qualified based on the blank content.

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. Alternatively, calibration curves may be constructed.

Multi-point calibration was performed for Aroclors 1221, 1242 and 1254 only. Single-point calibrations were performed for the remaining 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.

Surrogates were diluted in all samples. No data were qualified based on the diluted surrogates. All other 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 identified compounds met the specified criteria.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recovery for Aroclor 1242 was above the control limit in one set. Since Aroclor 1242 was non-detect in the associated sample, no data were qualified based on the deviation.

8. Matrix Spike Blank

The matrix spike blank recoveries were within control limits.

9. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-17-FC / PFP-17-FC-DUP	Aroclor 1221	120	120	0.0%
	Aroclor 1242	34	33	3.0%
PFP-17-Filtrate / PFP-17-Filtrate-DUP	Aroclor 1221	4.8	5.1	6.1%

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

The field duplicate results were 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 Checklist

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 5			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 2			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method//instrument blanks have positive results?	X		
Are field/rinse blanks associated with every sample?		X	

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
Aroclor 1016/1260	X		
Aroclors 1221, 1232, 1242, 1248, and 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	

	YES	NO	NA
Compound Quantitation and Reported Detection Limits			
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*			
		TCX-1	TCX-2	DCB-1	DCB-2
PFP-17-FC		D	--	D	--
PFP-17-FC MS		D	--	D	--
PFP-17-FC MSD		D	--	D	--
PFP-17-FC DUP		D	--	D	--
S3-13		D	--	D	--
S3-14		D	--	D	--
S3-15		D	--	D	--
S3-16		D	--	D	--
S3-17		D	--	D	--
S2-13		D	--	D	--
S2-14		D	--	D	--
S2-15		D	--	D	--
S2-15 MS		D	--	D	--
S2-15 MSD		D	--	D	--
PFP-17-Filtrate		D	--	D	--
PFP-17-Filtrate MS		D	--	D	--
PFP-17-Filtrate MSD		D	--	D	--
PFP-17-Filtrate-DUP		D	--	D	--

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.

METALS ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 6000/7000.

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 holding times for metals (except mercury) analyses are 180 days from date of collection. The holding time for Mercury is 28 days from sample collection to analysis.

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

2. Blank Contamination

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

TCLP Arsenic was detected in the method blank. Based on the blank content, data for TCLP arsenic were qualified as non-detect.

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 and all initial calibration verification standard recoveries were within the acceptable limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within the acceptable limits.

3.3 CRDL Standard

The initial CRDL standard recoveries were above acceptable limits for mercury, nickel and zinc. No data were qualified based on the deviations.

3.4 ICP Interference Control Sample

All ICS recoveries were within the acceptable 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 (MS)

The MS recoveries were below control limits for antimony and above control limits for manganese. Data for antimony and positive data for manganese were qualified as estimated based on the deviations. The MS recovery for TCLP silver was below the control limit. Data for TCLP silver were qualified as estimated based on the deviation.

4.2 Laboratory Duplicate

The laboratory duplicate result for thallium was above the control limit. Data for thallium were qualified as estimated based on the deviation.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-17-FC / PFP-17-FC DUP	aluminum	13800	14100	2.1%
	antimony	1.9	1.9	0.0%
	arsenic	3.2	3.3	3.0%
	barium	124	134	7.7%
	beryllium	0.60	0.59	3.3%
	cadmium	13.0	15.1	14.9%
	calcium	5050	5260	4.0%
	chromium	221	229	3.5%
	cobalt	8.5	8.8	3.4%
	copper	42.8	45.8	6.7%
	iron	18200	19100	4.8%
	lead	253	270	6.5%
	magnesium	4690	4760	30.2%
	manganese	237	245	3.3%
	nickel	17.6	18.5	4.9%
	potassium	1050	1140	8.2%

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-17-FC / PFP-17-FC DUP	selenium	1.6	1.6	0.0%
	silver	0.36	0.43	17.7%
	sodium	172	169	1.7%
	thallium	0.45	0.21	72.7%
	vanadium	39.6	42.1	6.1%
	zinc	239	244	2.0%
	mercury	1.5	1.6	6.5%
PFP-17-FC TCLP / PFP-17-FC DUP TCLP	barium	0.61B	0.64B	<CRDL
	cadmium	0.084B	0.087B	<CRDL
	chromium	0.017B	0.017B	<CRDL
	lead	0.31B	0.31B	<CRDL

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

Duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

7. Serial Dilution

The serial dilution results were above control limits for several analytes. Based on the deviations, data were qualified as estimated for arsenic, cadmium, thallium and zinc.

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.

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 specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Form I to IX			
Are all forms labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Are pH values listed?			X
pH for metals analyses <2 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Holding Times			
Were mercury analyses performed within 28 days?	X		

	YES	NO	NA
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results corrected for percent solids?	X		
Are all "less than IDL" values coded with "U"?	X		
Is a physical description of samples given on Form I's?		X	
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Is one calibration standard at the CRDL level for all AA (except Hg) analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a 2xCRDL standard (CRI) analyzed for each ICP run?	X		
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?		X	

	YES	NO	NA
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each matrix?	X		
each batch of digested samples?	X		
Is concentration of prep. blank less than the CRDL?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?		X	
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?		X	

	YES	NO	NA
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	X		
Aqueous			
Are any spike recoveries:			
less than 30%?			X
between 30-74%?			X
between 126-150%?			X
greater then 150%?			X
Soil/Sediment			
Are any spike recoveries:			
less than 10%?		X	
between 10-74%?	X		
between 126-200%?	X		
greater than 200%?		X	
Form VI (Lab Duplicates)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?		X	
If no, are all results outside the control limits flagged with an * on Form I's and VI?	X		
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?	X		

	YES	NO	NA
Field Duplicates			
Were field duplicates analyzed?		X	
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?			X
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 50%?			X
between 50% and 79%?			X
between 121% and 150%?			X
greater than 150%?			X
Solid LCS			
Is LCS "Found" value higher than the control limits?		X	
Is LCS "Found" lower than the control limits?		X	
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
Was field blank(s) used for Serial Dilution Analysis?		X	
Are any required % difference values:			
> 10%?	X		
≥100%?		X	

	YES	NO	NA
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?			X
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Were dilutions analyzed for samples with analytical spike recoveries less than 40%?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample?		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	X		
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		

	YES	NO	NA
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

ADDITIONAL PARAMETERS

Introduction

Analyses were performed according to the following methods:

TOC	EPA 415.1
TSS	EPA 160.1
pH	EPA 150.1

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:

ND The analyte was analyzed for but not detected. The associated value is the analyte reporting limit.

B The reported value was obtained from a reading less than the reporting limit (RL) but greater than or equal to the instrument detection limit (IDL).

J The associated numerical value is an estimated concentration only.

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.

* Duplicate analysis not within control limits.

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

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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the blanks.

3. Calibration

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

All calibration data were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

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

The MS/MSD recoveries were within control limits.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-17-Filtrate / PFP-17-Filtrate-DUP	TOC	5.51	7.14	25.8%
	TSS	5.31	7.07	28.4%

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

Duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

The 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 Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Percent solids calculation present for soils/sediments?	X		
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:		X	
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Blanks			
Present and complete?	X		
Are all blanks less than or equal to the RL?	X		
Matrix Spike			

	YES	NO	NA
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all results within the control limits?	X		
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all values within control limits?	X		
Field Duplicates			
Were field duplicates analyzed?	X		
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		

Corrected Sample Analysis Data Sheets

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC

TCLP GC/MS Volatiles

Lot-Sample #...: C4H040243-001	Work Order #...: GMF111CD	Matrix.....: SOLID
Date Sampled...: 08/02/04	Date Received..: 08/04/04	MS Run #.....: 4232041
Leach Date.....: 08/18/04	Prep Date.....: 08/19/04	Analysis Date..: 08/19/04
Leach Batch #..: P423121	Prep Batch #...: 4232054	Analysis Time..: 10:38
Dilution Factor: 1	Initial Wgt/Vol: 5 mL	Final Wgt/Vol..: 5 mL
% Moisture.....: 35	Analyst ID.....: 010099	Instrument ID..: HP3
	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND J	0.050	mg/L	0.0057
2-Butanone	ND J	0.050	mg/L	0.034
Carbon tetrachloride	ND J	0.050	mg/L	0.0067
Chlorobenzene	ND J	0.050	mg/L	0.0056
Chloroform	ND J	0.050	mg/L	0.0062
1,2-Dichloroethane	ND J	0.050	mg/L	0.0054
1,1-Dichloroethene	ND J	0.050	mg/L	0.0088
Tetrachloroethene	ND J	0.050	mg/L	0.016
Trichloroethene	ND J	0.050	mg/L	0.0058
Vinyl chloride	ND J	0.050	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(77 - 120)
Toluene-d8	103	(78 - 111)
4-Bromofluorobenzene	92	(80 - 114)
Dibromofluoromethane	104	(78 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC-DUP

TCLP GC/MS Volatiles

Lot-Sample #...:	C4H040243-002	Work Order #...:	GMF2F1CD	Matrix.....:	SOLID
Date Sampled...:	08/02/04	Date Received..:	08/04/04	MS Run #.....:	4232041
Leach Date.....:	08/18/04	Prep Date.....:	08/19/04	Analysis Date..:	08/19/04
Leach Batch #..:	P423121	Prep Batch #...:	4232054	Analysis Time..:	10:17
Dilution Factor:	1	Initial Wgt/Vol:	5 mL	Final Wgt/Vol..:	5 mL
% Moisture.....:	35	Analyst ID.....:	010099	Instrument ID..:	HP3
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND J	0.050	mg/L	0.0057
2-Butanone	ND J	0.050	mg/L	0.034
Carbon tetrachloride	ND J	0.050	mg/L	0.0067
Chlorobenzene	ND J	0.050	mg/L	0.0056
Chloroform	ND J	0.050	mg/L	0.0062
1,2-Dichloroethane	ND J	0.050	mg/L	0.0054
1,1-Dichloroethene	ND J	0.050	mg/L	0.0088
Tetrachloroethene	ND J	0.050	mg/L	0.016
Trichloroethene	ND J	0.050	mg/L	0.0058
Vinyl chloride	ND J	0.050	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(77 - 120)
Toluene-d8	107	(78 - 111)
4-Bromofluorobenzene	94	(80 - 114)
Dibromofluoromethane	106	(78 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC-DUP

TCLP GC/MS Semivolatiles

Lot-Sample #...:	C4H040243-002	Work Order #...:	GMF2F1CE	Matrix.....:	SOLID
Date Sampled...:	08/02/04	Date Received..:	08/04/04	MS Run #.....:	4245205
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424302	Prep Batch #...:	4245340	Analysis Time..:	23:11
Dilution Factor:	1	Initial Wgt/Vol:	200 mL	Final Wgt/Vol..:	1 mL
% Moisture.....:	35	Analyst ID.....:	001562	Instrument ID..:	71
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND J	0.050	mg/L	0.00012
2,4-Dinitrotoluene	ND J	0.050	mg/L	0.00092
Hexachlorobenzene	ND J	0.050	mg/L	0.0012
Hexachlorobutadiene	ND J	0.050	mg/L	0.00013
Hexachloroethane	ND J	0.050	mg/L	0.00016
Nitrobenzene	ND J	0.050	mg/L	0.00017
Pentachlorophenol	ND J	0.25	mg/L	0.00079
Pyridine	ND J	0.10	mg/L	0.0015
2,4,5-Trichloro-phenol	ND J	0.050	mg/L	0.0016
2,4,6-Trichloro-phenol	ND J	0.050	mg/L	0.0019
Cresols (total)	ND J	0.050	mg/L	0.0015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	77	(32 - 112)
2-Fluorobiphenyl	67	(30 - 110)
Terphenyl-d14	93	(10 - 144)
2-Fluorophenol	47	(13 - 110)
Phenol-d5	66	(10 - 113)
2,4,6-Tribromophenol	87	(21 - 122)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	PFP-17-FC
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08165
Sample wt(Dry)/vol:	6.8571 (g)	LAB FILE ID:	AH08165
% Moisture:	34.8	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	60
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	120	~~B~~
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	34	~~B~~
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
1336-36-3	Total PCB	154	

[1] Form based upon NYS-DEC Form 1-CLP-PEST FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	PFP-17-FC-DUP
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08166
Sample wt(Dry)/vol:	7.0145 (g)	LAB FILE ID:	AH08166
% Moisture:	35.7	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	60
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.98	U
11104-28-2	Aroclor 1221	120	~~B~~
11141-16-5	Aroclor 1232	0.98	U
53469-21-9	Aroclor 1242	33	~~B~~
12672-29-6	Aroclor 1248	0.98	U
11097-69-1	Aroclor 1254	0.98	U
11096-82-5	Aroclor 1260	0.98	U
1336-36-3	Total PCB	153	

[1] Form based upon NYS-DEC Form 1-CLP-PEST FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	S3-13
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08167
Sample wt(Dry)/vol:	6.0177 (g)	LAB FILE ID:	AH08167
% Moisture:	43.4	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	40
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS

NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.76	U
11104-28-2	Aroclor 1221	91	~~B~~
11141-16-5	Aroclor 1232	0.76	U
53469-21-9	Aroclor 1242	25	~~B~~
12672-29-6	Aroclor 1248	0.76	U
11097-69-1	Aroclor 1254	0.76	U
11096-82-5	Aroclor 1260	0.76	U
1336-36-3	Total PCB	116	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	S3-14
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08168
Sample wt(Dry)/vol:	6.5661 (g)	LAB FILE ID:	AH08168
% Moisture:	39.6	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	40
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.70	U
11104-28-2	Aroclor 1221	80	~~B~~
11141-16-5	Aroclor 1232	0.70	U
53469-21-9	Aroclor 1242	21	~~B~~
12672-29-6	Aroclor 1248	0.70	U
11097-69-1	Aroclor 1254	0.70	U
11096-82-5	Aroclor 1260	0.70	U
1336-36-3	Total PCB	101	

[1] Form based upon NYS-DEC Form 1-CLP-PEST FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No. :	04080019
ELAP ID No. :	11078	CLIENT ID :	S3-15
Matrix :	SEDIMENT	LAB SAMPLE ID :	AH08169
Sample wt(Dry)/vol:	6.2142 (g)	LAB FILE ID :	AH08169
% Moisture :	42.8	DATE RECEIVED :	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED :	8/5/2004
Conc. Extract Volume :	25000 (µL)	DATE ANALYZED :	8/14/2004
Injection Volume :	1.2 (µL)	DILUTION FACTOR :	50
Method :	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP :	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS

NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.93	U
11104-28-2	Aroclor 1221	97	B
11141-16-5	Aroclor 1232	0.93	U
53469-21-9	Aroclor 1242	25	B
12672-29-6	Aroclor 1248	0.93	U
11097-69-1	Aroclor 1254	0.93	U
11096-82-5	Aroclor 1260	0.93	U
1336-36-3	Total PCB	122	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	S3-16
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08170
Sample wt(Dry)/vol:	6.2161 (g)	LAB FILE ID:	AH08170
% Moisture:	41.9	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	50
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.93	U
11104-28-2	Aroclor 1221	99	B
11141-16-5	Aroclor 1232	0.93	U
53469-21-9	Aroclor 1242	27	B
12672-29-6	Aroclor 1248	0.93	U
11097-69-1	Aroclor 1254	0.93	U
11096-82-5	Aroclor 1260	0.93	U
1336-36-3	Total PCB	126	

[1] Form based upon NYS-DEC Form 1-CLP-PEST FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	S3-17
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08171
Sample wt(Dry)/vol:	6.2199 (g)	LAB FILE ID:	AH08171
% Moisture:	41.2	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	40
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS

NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.74	U
11104-28-2	Aroclor 1221	83	~~B~~
11141-16-5	Aroclor 1232	0.74	U
53469-21-9	Aroclor 1242	22	~~B~~
12672-29-6	Aroclor 1248	0.74	U
11097-69-1	Aroclor 1254	0.74	U
11096-82-5	Aroclor 1260	0.74	U
1336-36-3	Total PCB	105	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	S2-13
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08172
Sample wt(Dry)/vol:	6.3425 (g)	LAB FILE ID:	AH08172
% Moisture:	41.0	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	50
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS

NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.91	U
11104-28-2	Aroclor 1221	110	~~B~~
11141-16-5	Aroclor 1232	0.91	U
53469-21-9	Aroclor 1242	18	~~B~~
12672-29-6	Aroclor 1248	0.91	U
11097-69-1	Aroclor 1254	0.91	U
11096-82-5	Aroclor 1260	0.91	U
1336-36-3	Total PCB	128	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	S2-14
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08173
Sample wt(Dry)/vol:	5.9142 (g)	LAB FILE ID:	AH08173
% Moisture:	45.9	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	60
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS

NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	1.2	U
11104-28-2	Aroclor 1221	130	~~B~~
11141-16-5	Aroclor 1232	1.2	U
53469-21-9	Aroclor 1242	21	~~B~~
12672-29-6	Aroclor 1248	1.2	U
11097-69-1	Aroclor 1254	1.2	U
11096-82-5	Aroclor 1260	1.2	U
1336-36-3	Total PCB	151	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	S2-15
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08174
Sample wt(Dry)/vol:	5.7525 (g)	LAB FILE ID:	AH08174
% Moisture:	45.7	DATE RECEIVED:	8/4/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/5/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/14/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	70
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS

NEA File ID: S:\CERT04\04080019_8082S.XLS 1D-1-10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	1.4	U
11104-28-2	Aroclor 1221	160	~~B~~
11141-16-5	Aroclor 1232	1.4	U
53469-21-9	Aroclor 1242	24	~~B~~
12672-29-6	Aroclor 1248	1.4	U
11097-69-1	Aroclor 1254	1.4	U
11096-82-5	Aroclor 1260	1.4	U
1336-36-3	Total PCB	184	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	PFP-17-FILTRATE
Matrix:	WATER	LAB SAMPLE ID:	AH08175
Sample wt(Dry)/vol:	1.08 (L)	LAB FILE ID:	AH08175RR1
% Moisture:	0.0	DATE RECEIVED:	8/4/2004
Extraction :	CLLE	DATE EXTRACTED:	8/6/2004
Conc. Extract Volume:	5000 (µL)	DATE ANALYZED:	8/23/2004
Injection Volume:	0.4 (µL)	DILUTION FACTOR:	20
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_072904_GE.XLS

NEA File ID: S:\CERT04\04080019_8082WATER.XLS 1D-1-1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.21	U
11104-28-2	Aroclor 1221	4.8	~~B~~
11141-16-5	Aroclor 1232	0.21	U
53469-21-9	Aroclor 1242	0.21	U
12672-29-6	Aroclor 1248	0.21	U
11097-69-1	Aroclor 1254	0.21	U
11096-82-5	Aroclor 1260	0.21	U
1336-36-3	Total PCB	4.8	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080019
ELAP ID No.:	11078	CLIENT ID:	PFP-17-FILTRATE DUP
Matrix:	WATER	LAB SAMPLE ID:	AH08176
Sample wt(Dry)/vol:	1.06 (L)	LAB FILE ID:	AH08176RR1
% Moisture:	0.0	DATE RECEIVED:	8/4/2004
Extraction :	CLLE	DATE EXTRACTED:	8/6/2004
Conc. Extract Volume:	5000 (µL)	DATE ANALYZED:	8/23/2004
Injection Volume:	0.4 (µL)	DILUTION FACTOR:	20
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_072904_GE.XLS

NEA File ID: S:\CERT04\04080019_8082WATER.XLS 1D-1-2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.21	U
11104-28-2	Aroclor 1221	5.1	~~B~~
11141-16-5	Aroclor 1232	0.21	U
53469-21-9	Aroclor 1242	0.21	U
12672-29-6	Aroclor 1248	0.21	U
11097-69-1	Aroclor 1254	0.21	U
11096-82-5	Aroclor 1260	0.21	U
1336-36-3	Total PCB	5.1	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC

TCLP GC Semivolatiles

Lot-Sample #...:	C4H040243-001	Work Order #...:	GMF111CF	Matrix.....:	SOLID
Date Sampled...:	08/02/04	Date Received..:	08/04/04	MS Run #.....:	4244358
Leach Date.....:	08/27/04	Prep Date.....:	08/31/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424302	Prep Batch #...:	4244514	Analysis Time..:	13:42
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	35	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND U	0.0050	mg/L	0.00017
Endrin	ND U	0.00050	mg/L	0.000015
Heptachlor	ND U	0.00050	mg/L	0.000014
Heptachlor epoxide	ND U	0.00050	mg/L	0.000015
Lindane	ND U	0.00050	mg/L	0.000015
Methoxychlor	ND U	0.00050	mg/L	0.000031
Toxaphene	ND U	0.020	mg/L	0.000072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	108	(10 - 147)
Tetrachloro-m-xylene	89	(39 - 130)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC-DUP

TCLP GC Semivolatiles

Lot-Sample #...:	C4H040243-002	Work Order #...:	GMF2F1CF	Matrix.....:	SOLID
Date Sampled...:	08/02/04	Date Received..:	08/04/04	MS Run #.....:	4244358
Leach Date.....:	08/27/04	Prep Date.....:	08/31/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424302	Prep Batch #...:	4244514	Analysis Time..:	15:12
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	35	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00017
Endrin	ND	0.00050	mg/L	0.000015
Heptachlor	ND	0.00050	mg/L	0.000014
Heptachlor epoxide	ND	0.00050	mg/L	0.000015
Lindane	ND	0.00050	mg/L	0.000015
Methoxychlor	ND	0.00050	mg/L	0.000031
Toxaphene	ND	0.020	mg/L	0.000072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	103	(10 - 147)
Tetrachloro-m-xylene	94	(39 - 130)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC

TCLP GC Semivolatiles

Lot-Sample #...:	C4H040243-001	Work Order #...:	GMF111CG	Matrix.....:	SOLID
Date Sampled....:	08/02/04	Date Received..:	08/04/04	MS Run #.....:	4244359
Leach Date.....:	08/27/04	Prep Date.....:	08/31/04	Analysis Date..:	09/02/04
Leach Batch #..:	P424302	Prep Batch #...:	4244515	Analysis Time..:	09:00
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	35	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND J	0.040	mg/L	0.0014
2,4,5-TP (Silvex)	ND J	0.010	mg/L	0.00034

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	103	(42 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC-DUP

TCLP GC Semivolatiles

Lot-Sample #...:	C4H040243-002	Work Order #...:	GMF2F1CG	Matrix.....:	SOLID
Date Sampled...:	08/02/04	Date Received..:	08/04/04	MS Run #.....:	4244359
Leach Date.....:	08/27/04	Prep Date.....:	08/31/04	Analysis Date..:	09/02/04
Leach Batch #..:	P424302	Prep Batch #...:	4244515	Analysis Time..:	10:42
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	35	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND J	0.040	mg/L	0.0014
2,4,5-TP (Silvex)	ND J	0.010	mg/L	0.00034

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	101	(42 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Method 1613

PFP-17-FC

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0428	0.975			~~Q~~ J
1,2,3,7,8-PeCDD	ND	0.153	4.88			
1,2,3,4,7,8-HxCDD	4.34	0.186	4.88	37:27	1.39	J
1,2,3,6,7,8-HxCDD	17.5	0.0672	4.88	37:34	1.17	
1,2,3,7,8,9-HxCDD	8.29	0.198	4.88	37:48	1.18	
1,2,3,4,6,7,8-HpCDD	465	0.217	4.88	40:51	1.05	
OCDD	4520	0.522	9.75	45:22	0.91	E J
2,3,7,8-TCDF	7.52	0.144	0.975	31:26	0.75	
1,2,3,7,8-PeCDF	2.00	0.117	4.88	33:50	1.51	J ~~Q~~
2,3,4,7,8-PeCDF	8.89	0.147	4.88	34:27	1.53	~~Q~~
1,2,3,4,7,8-HxCDF	5.52	0.142	4.88	36:39	1.14	
1,2,3,6,7,8-HxCDF	3.63	0.146	4.88	36:46	1.20	J
2,3,4,6,7,8-HxCDF	4.02	0.0665	4.88	37:19	1.27	J
1,2,3,7,8,9-HxCDF	1.21	0.151	4.88	38:08	1.32	J ~~Q~~
1,2,3,4,6,7,8-HpCDF	86.1	0.226	4.88	39:33	1.05	
1,2,3,4,7,8,9-HpCDF	5.11	0.242	4.88	41:34	1.06	
OCDF	262	2.15	9.75	45:41	0.88	
Total TCDDs	10.1	0.0428	0.975			~~Q~~ J
Total PeCDDs	26.7	0.153	4.88			~~Q~~ J
Total HxCDDs	270	0.0672	4.88			~~Q~~ J
Total HpCDDs	975	0.217	4.88			
Total TCDFs	121	0.144	0.975			~~Q~~ J
Total PeCDFs	32.8	0.117	4.88			~~Q~~ J
Total HxCDFs	114	0.0665	4.88			~~Q~~ J
Total HpCDFs	278	0.226	4.88			
ITEF TEQ (ND=0)	20.1					
ITEF TEQ (ND=½)	21.8					

Client Information

Project Name: GEHD Treatability Study

Sample ID: PFP-17-FC

Laboratory Information

Project ID: G135-29
Sample ID: G135-29-1D
Collection Date/Time: 02-Aug-04 15:00
Receipt Date: 04-Aug-04
Extraction Date: 12-Aug-04
Analysis Date: 16-Aug-04

Sample Information

Matrix: Sediment
Weight / Volume: 16.23 grams
Solids / Lipids: 63.2 %
Original pH : NA
Batch ID: WG11016

Filename: a16aug04a-9
Retchk: a16aug04a-1
Begin ConCal: a16aug04a-1

Initial Cal: m1613-122203b

Method 1613

PFP-17-FC

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.93	96.7	31:56	0.77	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.93	96.3	34:38	1.64	~~Q~~ J
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.06	103	37:27	1.16	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.89	94.5	37:33	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.40	120	40:50	1.03	
$^{13}C_{12}$-OCDD	4.0	4.09	102	45:21	0.94	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	2.14	107	31:25	0.86	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.61	80.4	33:49	1.63	~~Q~~ J
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.74	87.0	34:26	1.63	~~Q~~ J
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	2.16	108	36:38	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.91	95.3	36:45	0.50	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	2.12	106	37:19	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.07	53.4	38:06	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	2.11	106	39:32	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	2.18	109	41:33	0.46	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.398	99.5	31:57		~~Q~~ J
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			31:30	0.77	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:19	1.16	

Client Information

Project Name: GEHD Treatability Study

Sample ID: PFP-17-FC

Laboratory Information

Project ID: G135-29
Sample ID: G135-29-1D
Collection Date/Time: 02-Aug-04 15:00
Receipt Date: 04-Aug-04
Extraction Date: 12-Aug-04
Analysis Date: 16-Aug-04

Sample Information

Matrix: Sediment
Weight / Volume: 16.23 grams
Solids / Lipids: 63.2 %
Original pH : NA
Batch ID: WG11016

Filename: a16aug04a-9
Retchk: a16aug04a-1
Begin ConCal: a16aug04a-1

Initial Cal: m1613-122203b

Analyzed by: JWP
Date: 08-23-04

Reviewed by: [illegible]
Date: 8/23/04

Method 1613
PFP-17-FC
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	6.66	0.144	0.975	16.52	0.75	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.51	0.77	

Client Information			**Sample Information**		
Project Name:	GEHD Treatability Study		Report Basis:	Dry	
			Matrix:	Sediment	
Sample ID:	PFP-17-FC		Weight / Volume:	16.2	g
			Solids / Lipids:	63.2	
			Original pH :	NA	
Laboratory Information			Batch ID:	WG11016	
Project ID:	G135-29		Instrument:	hrms3	
Sample ID:	G135-29-1D		Filename:	c17aug04-8	
Collection Date/Time:	08/02/04	15:00	Retchk:	c17aug04-2	
Receipt Date:	08/04/04		Begin ConCal:	c17aug04-1	
Extraction Date:	08/12/04				
Analysis Date/Time:	08/17/04	17:53	Initial Cal:	mCF-c060304	

Analyzed by: HMP
Date: 18Aug04

Reviewed by: CEY
Date: 8/18/04

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L SDG No.: C4H040243 Method Type:

Sample ID: GMF11 Client ID: PFP-17-FC

Matrix: SOIL Date Received: 8/4/2004 Level: LOW

% Solids: 65.4 Sample Wt/Vol: 1.0 Final Vol: 100.0

Prep Batch ID: 4224055 Prep Date: 8/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	13800	mg/Kg			MS	0.38	1.00	8/26/2004	16:40:51
Antimony	7440-36-0	1.9	mg/Kg		~~N*~~ J	MS	0.009	1.00	8/26/2004	16:40:51
Arsenic	7440-38-2	3.2	mg/Kg		~~E~~ J	MS	0.040	1.00	8/26/2004	16:40:51
Barium	7440-39-3	124	mg/Kg			MS	0.017	1.00	8/26/2004	16:40:51
Beryllium	7440-41-7	0.60	mg/Kg			MS	0.008	1.00	8/26/2004	16:40:51
Cadmium	7440-43-9	13.0	mg/Kg		~~E~~ J	MS	0.010	1.00	8/26/2004	16:40:51
Calcium	7440-70-2	5050	mg/Kg			MS	1.2	1.00	8/26/2004	16:40:51
Chromium	7440-47-3	221	mg/Kg			MS	0.086	1.00	8/26/2004	16:40:51
Cobalt	7440-48-4	8.5	mg/Kg			MS	0.004	1.00	8/26/2004	16:40:51
Copper	7440-50-8	42.8	mg/Kg			MS	0.076	1.00	8/26/2004	16:40:51
Iron	7439-89-6	18200	mg/Kg			MS	0.44	1.00	8/26/2004	16:40:51
Lead	7439-92-1	253	mg/Kg			MS	0.007	1.00	8/26/2004	16:40:51
Magnesium	7439-95-4	4690	mg/Kg			MS	0.20	1.00	8/26/2004	16:40:51
Manganese	7439-96-5	237	mg/Kg		~~N~~ J	MS	0.006	1.00	8/26/2004	16:40:51
Nickel	7440-02-0	17.6	mg/Kg		~~B~~	MS	0.009	1.00	8/26/2004	16:40:51
Potassium	7440-09-7	1050	mg/Kg			MS	0.64	1.00	8/26/2004	16:40:51
Selenium	7782-49-2	1.6	mg/Kg			MS	0.072	1.00	8/26/2004	16:40:51
Silver	7440-22-4	0.36	mg/Kg			MS	0.008	1.00	8/26/2004	16:40:51
Sodium	7440-23-5	172	mg/Kg			MS	1.4	1.00	8/26/2004	16:40:51
Thallium	7440-28-0	0.45	mg/Kg		~~E*~~ J	MS	0.007	1.00	8/26/2004	16:40:51
Vanadium	7440-62-2	39.6	mg/Kg			MS	0.075	1.00	8/26/2004	16:40:51
Zinc	7440-66-6	239	mg/Kg		~~E~~ ~~B~~	MS	0.052	1.00	8/26/2004	16:40:51

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L SDG No.: C4H040243 Method Type:

Sample ID: GMF2F Client ID: PFP-17-FC-DUP

Matrix: SOIL Date Received: 8/4/2004 Level: LOW

% Solids: 65.1 Sample Wt/Vol: 1.0 Final Vol: 100.0

Prep Batch ID: 4224055 Prep Date: 8/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	14100	mg/Kg			MS	0.38	1.00	8/26/2004	16:57:53
Antimony	7440-36-0	1.9	mg/Kg		~~N*~~ J	MS	0.009	1.00	8/26/2004	16:57:53
Arsenic	7440-38-2	3.3	mg/Kg		~~E~~ J	MS	0.040	1.00	8/26/2004	16:57:53
Barium	7440-39-3	134	mg/Kg			MS	0.017	1.00	8/26/2004	16:57:53
Beryllium	7440-41-7	0.59	mg/Kg			MS	0.008	1.00	8/26/2004	16:57:53
Cadmium	7440-43-9	15.1	mg/Kg		~~E~~ J	MS	0.010	1.00	8/26/2004	16:57:53
Calcium	7440-70-2	5260	mg/Kg			MS	1.2	1.00	8/26/2004	16:57:53
Chromium	7440-47-3	229	mg/Kg			MS	0.086	1.00	8/26/2004	16:57:53
Cobalt	7440-48-4	8.8	mg/Kg			MS	0.004	1.00	8/26/2004	16:57:53
Copper	7440-50-8	45.8	mg/Kg			MS	0.077	1.00	8/26/2004	16:57:53
Iron	7439-89-6	19100	mg/Kg			MS	0.45	1.00	8/26/2004	16:57:53
Lead	7439-92-1	270	mg/Kg			MS	0.007	1.00	8/26/2004	16:57:53
Magnesium	7439-95-4	4760	mg/Kg			MS	0.20	1.00	8/26/2004	16:57:53
Manganese	7439-96-5	245	mg/Kg		~~N~~ J	MS	0.006	1.00	8/26/2004	16:57:53
Nickel	7440-02-0	18.5	mg/Kg		~~B~~	MS	0.009	1.00	8/26/2004	16:57:53
Potassium	7440-09-7	1140	mg/Kg			MS	0.65	1.00	8/26/2004	16:57:53
Selenium	7782-49-2	1.6	mg/Kg			MS	0.072	1.00	8/26/2004	16:57:53
Silver	7440-22-4	0.43	mg/Kg			MS	0.008	1.00	8/26/2004	16:57:53
Sodium	7440-23-5	169	mg/Kg			MS	1.4	1.00	8/26/2004	16:57:53
Thallium	7440-28-0	0.21	mg/Kg		~~E*~~ J	MS	0.007	1.00	8/26/2004	16:57:53
Vanadium	7440-62-2	42.1	mg/Kg			MS	0.075	1.00	8/26/2004	16:57:53
Zinc	7440-66-6	244	mg/Kg		~~E~~ J	MS	0.052	1.00	8/26/2004	16:57:53

Comments:

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GMF11 **Client ID:** PFP-17-FC

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/21/2004 **Prep Batch:** 4234024

Weight: .60 **Volume:** 100 **Percent Moisture:** 34.56

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.018	0.051	1.5		1	CVAA	8/21/2004	10:00

Comments: Lot #: C4H040243 Sample #: 1

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form I Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GMF2F **Client ID:** PFP-17-FC-DUP

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/21/2004 **Prep Batch:** 4234024

Weight: .60 **Volume:** 100 **Percent Moisture:** 34.925

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.018	0.051	1.6		1	CVAA	8/21/2004	10:04

Comments: Lot #: C4H040243 Sample #: 2

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC

TCLP Metals

Lot-Sample #...: C4H040243-001 Matrix.....: SOLID
Date Sampled...: 08/02/04 Date Received..: 08/04/04
Leach Date.....: 08/27/04 Leach Batch #..: P424302

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4243141						
Arsenic	~~0.17 B~~ ND J	0.50	mg/L	SW846 6010B	08/30-08/31/04	GMF111A4
		Dilution Factor: 1		Analysis Time..: 15:11	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.019	
Barium	0.61 B	10.0	mg/L	SW846 6010B	08/30-08/31/04	GMF111A5
		Dilution Factor: 1		Analysis Time..: 15:11	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.00036	
Cadmium	0.084 B J	0.10	mg/L	SW846 6010B	08/30-08/31/04	GMF111A6
		Dilution Factor: 1		Analysis Time..: 15:11	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.00086	
Chromium	0.017 B	0.50	mg/L	SW846 6010B	08/30-08/31/04	GMF111A7
		Dilution Factor: 1		Analysis Time..: 15:11	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.0014	
Lead	0.31 B	0.50	mg/L	SW846 6010B	08/30-08/31/04	GMF111A8
		Dilution Factor: 1		Analysis Time..: 15:11	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.013	
Selenium	ND	0.25	mg/L	SW846 6010B	08/30-08/31/04	GMF111A9
		Dilution Factor: 1		Analysis Time..: 15:11	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.027	
Silver	ND J	0.50	mg/L	SW846 6010B	08/30-08/31/04	GMF111CA
		Dilution Factor: 1		Analysis Time..: 15:11	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.0026	
Prep Batch #...: 4245054						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/01/04	GMF111CC
		Dilution Factor: 1		Analysis Time..: 10:45	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4245037	MDL.....: 0.000071	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-17-FC-DUP

TCLP Metals

Lot-Sample #...: C4H040243-002
Date Sampled...: 08/02/04 Date Received..: 08/04/04
Leach Date.....: 08/27/04 Leach Batch #..: P424302
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4243141						
Arsenic	~~0.21 B~~ ND J	0.50	mg/L	SW846 6010B	08/30-08/31/04	GMF2F1AF
		Dilution Factor: 1		Analysis Time..: 15:24	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.019	
Barium	0.64 B	10.0	mg/L	SW846 6010B	08/30-08/31/04	GMF2F1AG
		Dilution Factor: 1		Analysis Time..: 15:24	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.00036	
Cadmium	0.087 B J	0.10	mg/L	SW846 6010B	08/30-08/31/04	GMF2F1AH
		Dilution Factor: 1		Analysis Time..: 15:24	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.00086	
Chromium	0.017 B	0.50	mg/L	SW846 6010B	08/30-08/31/04	GMF2F1AJ
		Dilution Factor: 1		Analysis Time..: 15:24	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.0014	
Lead	0.31 B	0.50	mg/L	SW846 6010B	08/30-08/31/04	GMF2F1AK
		Dilution Factor: 1		Analysis Time..: 15:24	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.013	
Selenium	ND	0.25	mg/L	SW846 6010B	08/30-08/31/04	GMF2F1AL
		Dilution Factor: 1		Analysis Time..: 15:24	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.027	
Silver	ND J	0.50	mg/L	SW846 6010B	08/30-08/31/04	GMF2F1CA
		Dilution Factor: 1		Analysis Time..: 15:24	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4243083	MDL.....: 0.0026	
Prep Batch #...: 4245054						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/01/04	GMF2F1CC
		Dilution Factor: 1		Analysis Time..: 10:54	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4245037	MDL.....: 0.000071	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

1
DATA SHEET
TOTAL ORGANIC CARBON

LAB NAME: NORTHEAST ANALYTICAL, INC.

LAB CODE: NYS ELAP #11078

SDG No.: AH08175

MATRIX: WATER

INSTRUMENT ID#: HORIBA PIR 2000

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

NEA SAMPLE #	CLIENT SAMPLE #	DATE ANALYZED	DATE RECEIVED	CONC.	C	Q
AH08175	PFP-17-FILTRATE	8/16/2004	08/04/2004	5.51		
AH08176	PFP-17-FILTRATE DUP	08/16/2004	08/04/2004	7.14		

S:\METALQC\TOCForms\TOC 2004\DATA08175.DOC

NORTHEAST ANALYTICAL
ENVIRONMENTAL LAB SERVICES
2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
08/06/2004

BBL ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13039
CONTACT: DON SAUDA

MATRIX :	WATER	**PROJECT:**	GE HUDSON RIVER TREATABILITY STUDY
DATE RECEIVED:	08/04/2004 **TIME:** 10:00	**LOCATION:**	HUDSON RIVER
SAMPLED BY:	P. FILIPPETTI	**LAB ELAP #:**	11078
CUSTOMER PO:	N/A		

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	TIME SAMPLED	RESULTS	PQL	UNIT	DATE ANALYZED
Total Suspended Solids								
AH08175	PFP-17-FILTRATE	EPA 160.2	08/03/2004	N/A	5.31	2.04	mg/L	08/06/2004
AH08176	PFP-17-FILTRATE DUP	EPA 160.2	08/03/2004	N/A	7.07	2.02	mg/L	08/06/2004

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

NORTHEAST ANALYTICAL
ENVIRONMENTAL LAB SERVICES
2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
08/04/2004

BBL ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13039
CONTACT: DON SAUDA

MATRIX :	WATER	**DATE SAMPLED:**	08/03/2004
DATE RECEIVED:	08/04/2004 **TIME:** 10:00	**PROJECT:**	GE HUDSON RIVER TREATABILITY STUDY
SAMPLED BY:	P. FILIPPETTI	**LOCATION:**	HUDSON RIVER
CUSTOMER PO #:	N/A	**LAB ELAP #:**	11078

NEA ID	CUSTOMER ID	METHOD	RESULTS	DATE ANALYZED	TIME ANALYZED
pH in Water at 20°C					
AH08175	PFP-17-FILTRATE	EPA 1979 Method 150.1	7.01	08/04/2004	12:47
AH08176	PFP-17-FILTRATE DUP	EPA 1979 Method 150.1	7.02	08/04/2004	12:49

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

Laboratory Narrative

CASE NARRATIVE

BLASLAND, BOUCK & LEE
GE Treatability Study
STL Lot # C4H040243

Sample Receiving:
STL Pittsburgh, PA received samples on August 4, 2004. The cooler was received within the proper temperature range.

The TCLP extraction for samples PFP-17-FC and PFP-17-FC-DUP were performed past the 14 day holding time.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

TCLP GC/MS Volatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

TCLP GC/MS Semivolatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

TCLP Pesticides:
There were no problems associated with the analysis.

TCLP Herbicides:
There were no problems associated with the analysis.

Metals:
The serial dilution percent difference was outside control limits for arsenic, cadmium, thallium and zinc. All associated results are flagged with an "E" qualifier.

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "J" qualifier.

The method blank had chromium detected above the reporting limit. All the associated samples had chromium concentrations greater than 20X what was detected in the blank. All data is reportable.

CASE NARRATIVE

BLASLAND, BOUCK & LEE
GE Treatability Study
STL Lot # C4H040243

Metals (cont):
For the matrix spike, mercury, aluminum, chromium, iron, and lead recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

The matrix spike recovered outside of the control limits for antimony and manganese. All associated results are flagged with an "N" qualifier.

The relative percent difference between sample PFP-17-FC and the duplicate digestion of this sample was outside of the control limits for antimony and thallium. All associated results are flagged with an "*" qualifier.

TCLP Metals:
The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier.

The matrix spike recovered outside of the control limits for silver.

General Chemistry:
There were no problems associated with the analysis.

Sample Delivery Group Case Narrative

This sample delivery group consists of water samples received on August 4, 2004 for analysis and includes assigned Sample Delivery Group Number: 04080019. The samples are from Project Name: G.E. Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH08175	PFP-17-FILTRATE
AH08176	PFP-17-FILTRATE DUP

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by GEHR Method 8082. The Continuous Liquid Liquid Extraction Method (GEHR- Method 3520) was employed for the water samples. The following technical and administrative items were noted for the analysis:

(1.) Concentration results for this SDG are reported to the Method Detection Limit as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan. Concentration results which are greater than the MDL but less than the Practical Quantitation Limit (PQL) are flagged (J) for this methodology.

(2.) Single Column Gas Chromatograph analysis was performed for all samples in this SDG as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan.

(3.) The TCMX and DCBP surrogate compounds were diluted out for several samples due to the high concentration of PCB contained in the samples. Please see Form 2F-1 for details.

(4.) All samples in this delivery group were re-analyzed by GC due to Continuing Calibration Check Standard excursion for the initial analysis.

(5.) The percent recovery for the matrix spike sample (NEA ID: AH08175M) was above lab-established limits. Please see Form 3F-1 for details.

(6.) The associated method blank sample (NEA ID: AH08175B) contained Aroclor 1221 at a concentration greater than the Method Detection Limit. All associated positive sample concentration results were flagged (B) to denote the observed contamination.

Form – 1 Qualifier Summary PCB Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Total Organic Carbon Analysis

Analysis for Total Organic Carbon was performed by EPA Method 415.1 for the water samples. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

August 24, 2004

Sample Delivery Group Case Narrative

This sample delivery group consists of sediment samples received on August 4, 2004 for analysis and includes assigned Sample Delivery Group Number: 04080019. The samples are from Project Name: G.E. Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH08165	PFP-17-FC
AH08166	PFP-17-FC-DUP
AH08167	S3-13
AH08168	S3-14
AH08169	S3-15
AH08170	S3-16
AH08171	S3-17
AH08172	S2-13
AH08173	S2-14
AH08174	S2-15

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by GEHR Method 8082. The Accelerated Solvent Extraction Method (GEHR- Method 3545) was employed for the sediment samples. The following technical and administrative items were noted for the analysis:

(1.) Concentration results for this SDG are reported to the Method Detection Limit as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan. Concentration results which are greater than the MDL but less than the Practical Quantitation Limit (PQL) are flagged (J) for this methodology.

(2.) Single Column Gas Chromatograph analysis was performed for all samples in this SDG as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan.

(3.) The TCMX and DCBP surrogate compounds were diluted out for several samples due to the high concentration of PCB contained in the samples. Please see Form 2F-1 for details.

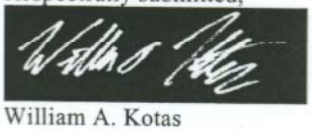
(4.) All samples in this delivery group were re-extracted due to sample extract vial mislabeling for the initial extraction batch. Results for the re-extracted samples are included in this sample delivery group.

(5.) The associated method blank sample contained concentrations for Aroclor 1221 and Aroclor 1242. (Please see Form 1 for details). All associated sample concentration results were flagged (B) to denote the observed contamination.

Form – 1 Qualifier Summary PCB Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Respectfully submitted,



William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2003\082404C.doc

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# C4H180155, 04080116 and G135-33

Volatile, Semi-volatile, PCB, Pesticide,
Herbicide, Metals and Miscellaneous Analyses

Analyses performed by:

Severn Trent Laboratories
Pittsburgh, Pennsylvania

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# C4H180155, 04080116 and G135-33 for sampling of the GE Hudson Treatability Study. Included with this assessment are the data review checklists 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						
				TCLP VOC	TCLP SVOC	TCLP PEST/ HERB	PCB	Dioxin	MET[1]	MISC
PFP-45	C4H180155-001 AH08892 G135-33-1C	Solid	08/17/04	x	x	x	x	x	x	
PFP-45	AH08883	Water	08/17/04				x			x[2]
PFP-45 (T)	AH08885	Water	08/17/04							x[3]
PFP-45 (D)	AH08886	Water	08/17/04							x[3]
PFP-45-DUP	C4H180155-002 AH08893 G135-33-2C	Solid	08/17/04	x	x	x	x	x	x	x[2]
PFP-45-DUP	AH08884	Water	08/17/04				x			
PFP-45-DUP (T)	AH08890	Water	08/17/04							x[3]
PFP-45-DUP (D)	AH08891	Water	08/17/04							x[3]
PFP-41	C4H180155-003 AH08894 G135-33-3C	Solid	08/17/04	x	x	x	x	x	x	x[2]
PFP-41	AH08887	Water	08/17/04				x			
PFP-41 (T)	AH08888	Water	08/17/04							x[3]
PFP-41 (D)	AH08889	Water	08/17/04							x[3]

1 Metals analyses include total and TCLP metals.
2 Miscellaneous analyses include Total Suspended Solids (TSS).
3 Miscellaneous parameters include Total Organic Carbon (TOC).

Note: PCB, TOC and TSS analyses were performed by Northeast Analytical Laboratories of Schenectady, NY and Dioxin analyses were performed by Paradigm Analytical Laboratories of Wilmington, North Carolina.

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260.

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 TCLP volatile analyses is 14 days from sample collection to TCLP extraction and 14 days from TCLP extraction to analysis.

All samples were analyzed past the technical holding times. All data were qualified as estimated based on the holding time violation.

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. Rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the method blank.

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 15% for all compounds with the exception of 2-butanone. Data were qualified as estimated for 2-butanone based on the deviation.

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 continuing calibration %D was within acceptable limits for all compounds.

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.

No target compounds were identified in the samples.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method.

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

9. Laboratory Control Sample

The laboratory control sample recoveries were within control limits.

10. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-45 TCLP / PFP-45-DUP TCLP	ND	--	--	NA

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

Duplicate results are acceptable.

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 listed in the analytical method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

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

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

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are initial calibration forms present for each instrument?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are continuing calibration forms present for each day and 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 ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*			Internal Standards*			
		TOL	BFB	DBF	PBF	DFB	CBZ	DCB
PFP-45	+2							
PFP-45-DUP	+2							
PFP-41	+2							

Surrogates:
TOL Toluene-d8
BFB Bromofluorobenzene
DBF Dibromofluoromethane

Internal Standards:
PFB Pentafluorobenzene
DFB 1,4-Difluorobenzene
CBZ Chlorobenzene-d5
DCB 1,4-Dichlorobenzene-d4

Qualifiers:
D Diluted
↑ Recovery high
↓ Recovery low
↓↓ Recovery <25%

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

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270.

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 TCLP semivolatile analyses is 14 days from sample collection to TCLP extraction, 14 days from TCLP extraction to preparation and 40 days from TCLP extraction to analysis.

All samples were extracted and analyzed within the 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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the 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 15% for all target compounds with the exception of hexachlorobutadiene and 2,4,5-trichlorophenol. Sample results associated with these compounds were qualified as estimated based on the deviations.

4.2 Continuing Calibration

The response for all target compounds in the continuing calibration standards were within 20% difference (%D) of the initial calibration.

5. Surrogates / System Monitoring Compounds

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

All surrogate recoveries were within control limits.

6. Internal Standard Performance

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

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

7. Compound Identification

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

No target compounds were identified in the samples.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method.

All MS/MSD recoveries were within control limits. The relative percent difference between recoveries were above control limits for 2,4,5-trichlorophenol and 2,4,6-trichlorophenol. Since the MS/MSD was performed on a non-site sample, no data were qualified based on the deviations.

9. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

10. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-45 TCLP / PFP-45-DUP TCLP	All	ND	ND	NA

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

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 Checklist

Semi-volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 66			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
2 out of 33			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		
		X	

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

	YES	NO	NA
Quantitation and Detection Limits			
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		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
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 ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Semi-volatile Qualifier Summary

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		2FP	PHL	NBZ	FBP	TBP	TPH	2CP	DCB	DCB	NPT	ANT	PHN	CRY	PRY
PFP-45								--	--						
PFP-45-DUP								--	--						
PFP-41								--	--						

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
↓↓ Response <25%

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

PESTICIDE/HERBICIDE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Methods 8081 and 8151.

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 TCLP pesticide and herbicide analyses are 14 days from collection to TCLP extraction, 14 days form TCLP extraction to preparation and 40 days form TCLP extraction to analysis.

All samples were extracted and analyzed within the holding times.

2. Blank Contamination

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

No analytes were detected in the method blanks.

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. Alternatively, calibration curves may be constructed.

All initial calibration data were acceptable.

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.

No target analytes were identified in the samples.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries were within control limits.

8. Laboratory Control Sample

The laboratory control sample recoveries were within control limits.

9. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-45 TCLP / PFP-45-DUP TCLP	All	ND	ND	NA

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

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 Checklist

Pesticide/Herbicide Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 14			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 7			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/instrument blanks have positive results?		X	
Are field/rinse blanks associated with every sample?		X	

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
INDA	X		
INDB	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?			X
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	

	YES	NO	NA
Compound Quantitation and Reported Detection Limits			
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Pesticide/Herbicide Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
PFP-45			
PFP-45-DUP			
PFP-41			

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.

PCDD/PCDF ANALYSES

Introduction

Analyses were performed according to the USEPA Method 1613.

The data review process is intended to evaluate the data on a technical basis. 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 qualifiers:

ND	The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
EMPC	The "estimated maximum possible concentration" is reported when GC/MS signals eluting within the established retention time window have a signal-to-noise ratio in excess of 2.5 but do not meet the ion abundance ratio criteria.

Quantitation qualifiers:

B	The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
S	The compound has exceeded the normal dynamic range.
PR	The reported concentration may be overestimated due to a poorly resolved GC peak.
U	The reported concentration may be underestimated due to the presence of a large closely eluting peak.
E	The reported concentration is based on an analyte to internal standard ratio which exceeds the range of the calibration curve. The value should be considered estimated only.

Validation qualifiers:

J	The compound was positively identified; however, the associated numerical value is an estimated concentration only.
R	The sample results are rejected.

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

Data Assessment

1. Holding Time

The method-specified holding times for PCDD/PCDF analysis of samples are 30 days from sample collection to extraction and 45 days from collection to analysis.

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

2. Blank Contamination

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

No Dioxins were detected in the blanks.

3. Mass Spectrometer Resolution Check

Resolution 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 % relative standard deviation (%RSD) was less than 15% for all non-labeled compounds (targets) and less than 20% for all labeled compounds (internal standards and recovery standards). All isotope abundance ratios were within the defined limits.

4.2 Continuing Calibration

All continuing calibration target standards were within the 20% difference (%D) of the initial calibration.

5. Recovery Standard Performance

All samples to be analyzed for PCDD/PCDF compounds are spiked with recovery standard prior to injection. The concentrations of all the labeled standards (internal standards) are determined by using the recovery standard.

All recovery standard isotopic ratios were acceptable.

6. Internal Standard Performance and Recovery

All samples to be analyzed for PCDD/PCDF compounds are spiked with internal standards prior to extraction, which eliminates the need to correct quantitative data for extraction efficiency.

Recovery for internal standards were within the acceptable control limits

7. Compound Identification

PCDD/PCDF compounds are identified by using the compound's ion abundance ratios, signal-to-noise values, and relative retention times.

An EMPC or "estimated maximum possible concentration" designation is given to compounds which have signals eluting within the established retention time window which would, if positively identified, above the detection limit. The signals do not, however, meet the ion abundance ratio criteria and cannot be identified as the compound of interest. The EMPC value is the estimated concentration of the interferant quantitated "as" the compound of interest. This value should be considered an elevated detection limit based on potential compound identification and quantitation interference.

All identified compounds met method criteria.

8. Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)

Although not required by the method, matrix spike and matrix spike duplicates can be analyzed to provide an additional assessment of the precision and accuracy of the analytical method.

No MS/MSD samples were submitted with this SDG. The laboratory control sample recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-45 / PFP-45-DUP	2,3,7,8-TCDD	ND	5.90	AC
	1,2,3,7,8-PeCDD	15.2	14.5	4.7%
	1,2,3,4,7,8-HxCDD	25.8	29.3	12.7%
	1,2,3,6,7,8-HxCDD	135	139	2.9%
	1,2,3,7,8,9-HxCDD	61.6	65.7	6.4%

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	1,2,3,4,6,7,8-HpCDD	4820	5100	5.6%
	OCDD	44100	47300	7.0%
	2,3,7,8-TCDF	42.6	41.2	3.3%
	1,2,3,7,8-PeCDF	12.4	11.9	4.1%
	2,3,4,7,8-PeCDF	89.0	84.2	5.5%
	1,2,3,4,7,8-HxCDF	48.4	47.6	1.6%
	1,2,3,6,7,8-HxCDF	34.4	31.9	7.5%
	2,3,4,6,7,8-HxCDF	31.0	29.9	3.6%
	1,2,3,7,8,9-HxCDF	11.9	11.3	5.2%
	1,2,3,4,6,7,8-HpCDF	652	620	5.0%
	1,2,3,4,7,8,9-HpCDF	47.7	45.7	4.3%
	OCDF	1540	1810	16.1%
	Total TCDDs	110	133	18.9%
	Total PeCDDs	314	310	1.3%
	Total HxCDDs	2490	963	88.4%
	Total HpCDDs	10500	11100	5.6%
	Total TCDFs	1160	1170	0.8%
	Total PeCDFs	535	565	5.4%
	Total HxCDFs	639	591	7.8%
	Total HpCDFs	2220	2160	2.7%

ND not detected.
AC the RPD results were acceptable.

The Duplicate results are acceptable.

10. System Performance and Overall Assessment

The Data flagged by the laboratory as exhibiting a quantitative interference “Q” have been replaced with a “J” qualifier and qualified as estimated.

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

Data Validation Checklist

PCDD/PCDF Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the samples numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Internal Standard Performance			
Was internal standard data submitted?	X		
Was one or more internal standard recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Was one or more ion abundance ratio or retention time outside control limits?		X	
Recovery Standard Performance			
Was recovery standard data submitted?	X		
Was one or more ion abundance ratio or retention time outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Matrix Spikes			
Is there matrix spike recovery data submitted?		X	
Were matrix spikes analyzed at the required frequency?			X
Were any spike recoveries outside control limits?			X
Blanks			
Is the method blank data submitted?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Is the chromatographic performance acceptable for each instrument?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are field/equipment blanks associated with every sample?		X	
Do any field/equipment blanks have positive results?			X

	YES	NO	NA
Mass Spectrometer Resolution			
Are the GC/MS resolution check data submitted?	X		
Was the resolution acceptable?	X		
Target Analytes			
Is a PCDD/PCDF analysis results sheet present for each of the following:			
Samples	X		
Matrix spikes			X
Blanks	X		
Are the selected ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes			X
Blanks	X		
Is the chromatographic performance acceptable with respect to:			
Baseline stability	X		
Resolution	X		
Peak shape	X		
Quantitation and Detection Limits			
Are the reporting limits adjusted to reflect sample dilutions and for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and selected ion chromatograms present for the initial and continuing calibration standards?		X	
Initial Calibration			
Was the initial calibration data submitted for each instrument used?	X		
Are the response factor RSDs within specified limits?	X		
Were the ion abundance ratios within specifications?	X		
Was the signal-to-noise ratio ≥ 10:1 for the ion current profiles?	X		
Continuing Calibration			
Was the continuing calibration data submitted for each instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	X		

	YES	NO	NA
All %D within acceptable limits?	X		
Were the ion abundance ratios within specifications?	X		
Was the signal-to-noise ratio ≥ 10:1 for the ion current profiles?	X		
Field Duplicates			
Where field duplicates submitted with the samples?	X		

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082.

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 technical holding time for soils is 14 days from sample collection to extraction and 40 days to analysis. The technical holding time for waters is 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the technical 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. Rinse blanks measure contamination of samples during field operations.

Aroclor 1221 was detected in the method blank. Since all samples were greater than the blank action level for Aroclor 1221, no data were qualified based on the blank content.

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. Alternatively, calibration curves may be constructed.

Multi-point calibration was performed for Aroclors 1221, 1242 and 1254 only. Single-point calibrations were performed for the remaining 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.

Surrogates were diluted in all samples. No data were qualified based on the dilutions.

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 identified compounds met the specified criteria.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries were acceptable.

8. Matrix Spike Blank

The matrix spike blank recoveries were within control limits.

9. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-45 / PFP-45-DUP (water)	Aroclor 1221	14	42	100.0%
PFP-45 / PFP-45-DUP (sediment)	Aroclor 1221	290	280	3.5%
	Aroclor 1242	48	47	2.1%

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

The field duplicate results were unacceptable for Aroclor 1221. Sample results associated with Aroclor 1221 were qualified as estimated in water samples PFP-45 and PFP-45-DUP based on this deviation.

10. System Performance and Overall Assessment

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

Data Validation Checklist

PCB Data Validation Checklist

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

	YES	NO	NA
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
Aroclor 1016/1260	X		
Aroclors 1221, 1232, 1242, 1248, and 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	

Compound Quantitation and Reported Detection Limits

	YES	NO	NA
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*			
		TCX-1	TCX-2	DCB-1	DCB-2
PFP-45 (water)		D	--	D	--
PFP-45 (water) MS		D	--	D	--
PFP-45 (water) MSD		D	--	D	--
PFP-45-DUP (water)		D	--	D	--
PFP-41 (water)		D	--	D	--
PFP-45 (sediment)		D	--	D	--
PFP-45 (sediment) MS		D	--	D	--
PFP-45 (sediment) MSD		D	--	D	--
PFP-45-DUP (sediment)		D	--	D	--
PFP-41 (sediment)		D	--	D	--
PFP-41 (sediment) MS		D	--	D	--
PFP-41 (sediment) MSD		D	--	D	--

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.

METALS ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 6000/7000.

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

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

2. Blank Contamination

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

TCLP Arsenic was detected in the method blank. Based on the blank content, data for TCLP arsenic were qualified as non-detect.

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 and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

The CRDL and CRA standard recoveries were above acceptable limits for several analytes. No data were qualified based on the deviations.

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 (MS)

The MS recoveries were less than control limits for antimony and greater than control limits for manganese. Sample results for antimony and detected sample results for manganese were qualified as estimated based on the deviations. The MS recovery for TCLP silver was less than the control limit. Data for TCLP silver were qualified as estimated based on the deviation.

4.2 Laboratory Duplicate

The analysis between the original laboratory sample and the laboratory duplicate of thallium exhibited percent difference (%D) greater than the control limit. Detected sample results for thallium were qualified as estimated based on the deviation. All other analytes exhibited acceptable %Ds.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-45 / PFP-45-DUP	aluminum	18200	25100	31.8%
	antimony	2.2	3.0	30.7%
	arsenic	4.5	6.7	39.2%
	barium	188	259	31.7%
	beryllium	0.73	0.96	27.2%
	cadmium	29.4	39.7	29.8%
	calcium	3730	5080	30.6%
	chromium	622	882	34.5%
	cobalt	10.5	14.8	33.9%
	copper	88.7	123	32.4%
	iron	21500	29700	32.0%
	lead	619	861	32.7%
	magnesium	4040	5480	30.2%
	manganese	216	285	27.5%
	nickel	26.1	36.2	32.4%
PFP-17-FC / PFP-17-FC DUP	potassium	1920	2800	37.2%
	selenium	2.2	3.2	37.0%

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	silver	0.82	0.94	13.6%
	sodium	230	330	35.7%
	thallium	0.61	0.38	46.4%
	vanadium	64.5	96.3	39.8%
	zinc	395	588	39.2%
	mercury	2.2	2.3	4.4%
PFP-45 TCLP / PFP-45-DUP TCLP	barium	0.72 B	0.96 B	<CRDL
	cadmium	0.18	0.16	11.7%
	chromium	0.041B	0.038 B	<CRDL
	lead	1.2	1.2	0.0%

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

Duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

7. Serial Dilution

Several analytes associated with the serial dilution analysis exhibited %Ds greater than control limits. Sample results for cadmium, vanadium and zinc were qualified as estimated.

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.

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 specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Form I to IX			
Are all forms labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Are pH values listed?			X
pH for metals analyses <2 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Holding Times			
Were mercury analyses performed within 28 days?	X		

	YES	NO	NA
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results corrected for percent solids?	X		
Are all "less than IDL" values coded with "U"?	X		
Is a physical description of samples given on Form I's?		X	
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Is one calibration standard at the CRDL level for all AA (except Hg) analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a 2xCRDL standard (CRI) analyzed for each ICP run?	X		
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?		X	

	YES	NO	NA
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each matrix?	X		
each batch of digested samples?	X		
Is concentration of prep. blank less than the CRDL?		X	
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?		X	

	YES	NO	NA
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	X		
Aqueous			
Are any spike recoveries:			
less than 30%?			X
between 30-74%?			X
between 126-150%?			X
greater then 150%?			X
Soil/Sediment			
Are any spike recoveries:			
less than 10%?		X	
between 10-74%?	X		
between 126-200%?	X		
greater than 200%?		X	
Form VI (Lab Duplicates)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?		X	
If no, are all results outside the control limits flagged with an * on Form I's and VI?	X		
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?	X		

	YES	NO	NA
Field Duplicates			
Were field duplicates analyzed?	X		
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?		X	
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 50%?			X
between 50% and 79%?			X
between 121% and 150%?			X
greater than 150%?			X
Solid LCS			
Is LCS "Found" value higher than the control limits?		X	
Is LCS "Found" lower than the control limits?		X	
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
Was field blank(s) used for Serial Dilution Analysis?		X	
Are any required % difference values:			
> 10%?	X		
≥100%?		X	

	YES	NO	NA
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?			X
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Were dilutions analyzed for samples with analytical spike recoveries less than 40%?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample?		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	X		
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		

	YES	NO	NA
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?	X		
< 10%?		X	

ADDITIONAL PARAMETERS

Introduction

Analyses were performed according to the following methods:

TOC	EPA 415.1
TSS	EPA 160.1

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:

ND The analyte was analyzed for but not detected. The associated value is the analyte reporting limit.

B The reported value was obtained from a reading less than the reporting limit (RL) but greater than or equal to the instrument detection limit (IDL).

J The associated numerical value is an estimated concentration only.

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.

* Duplicate analysis not within control limits.

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

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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the blanks.

3. Calibration

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

All calibration data were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

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

The MS/MSD recoveries were within control limits. The relative percent difference between recoveries was greater than the control limit for TOC. Data for TOC was qualified as estimated in sample PFP-45 (D) based on the deviation.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-45 (T) / PFP-45 (T)-DUP	TOC	4.63	4.21	9.5%
PFP-45 (D) / PFP-45 (D)-DUP	TOC	4.38	4.57	4.3%

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-45 / PFP-45-DUP	TSS	13.5	12.7	6.1%

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

Duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

The 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 Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Percent solids calculation present for soils/sediments?	X		
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?	X		
Is correlation coefficient less than .995?		X	
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Blanks			
Present and complete?	X		
Are all blanks less than or equal to the RL?	X		
Matrix Spike			

	YES	NO	NA
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all results within the control limits?	X		
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all values within control limits?		X	
Field Duplicates			
Were field duplicates analyzed?	X		
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		

Corrected Sample Analysis Data Sheets

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45

TCLP GC/MS Volatiles

Lot-Sample #...:	C4H180155-001	Work Order #...:	GNDWM1CD	Matrix.....:	SOLID
Date Sampled...:	08/17/04	Date Received..:	08/18/04	MS Run #.....:	4247201
Leach Date.....:	09/02/04	Prep Date.....:	09/03/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424614	Prep Batch #...:	4247012	Analysis Time..:	12:00
Dilution Factor:	1	Initial Wgt/Vol:	5 mL	Final Wgt/Vol..:	5 mL
% Moisture.....:	41	Analyst ID.....:	402306	Instrument ID..:	HP5
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND J	0.050	mg/L	0.0057
2-Butanone	ND J	0.050	mg/L	0.034
Carbon tetrachloride	ND J	0.050	mg/L	0.0067
Chlorobenzene	ND J	0.050	mg/L	0.0056
Chloroform	ND J	0.050	mg/L	0.0062
1,2-Dichloroethane	ND J	0.050	mg/L	0.0054
1,1-Dichloroethene	ND J	0.050	mg/L	0.0088
Tetrachloroethene	ND J	0.050	mg/L	0.016
Trichloroethene	ND J	0.050	mg/L	0.0058
Vinyl chloride	ND J	0.050	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(77 - 120)
Toluene-d8	98	(78 - 111)
4-Bromofluorobenzene	93	(80 - 114)
Dibromofluoromethane	94	(78 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45-DUP

TCLP GC/MS Volatiles

Lot-Sample #...: C4H180155-002	Work Order #...: GNDW81CD	Matrix.....: SOLID
Date Sampled...: 08/17/04	Date Received..: 08/18/04	MS Run #.....: 4247201
Leach Date.....: 09/02/04	Prep Date.....: 09/03/04	Analysis Date..: 09/03/04
Leach Batch #..: P424614	Prep Batch #...: 4247012	Analysis Time..: 07:22
Dilution Factor: 1	Initial Wgt/Vol: 5 mL	Final Wgt/Vol..: 5 mL
% Moisture.....: 55	Analyst ID.....: 402306	Instrument ID..: HP5
	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND U	0.050	mg/L	0.0057
2-Butanone	ND U	0.050	mg/L	0.034
Carbon tetrachloride	ND U	0.050	mg/L	0.0067
Chlorobenzene	ND U	0.050	mg/L	0.0056
Chloroform	ND U	0.050	mg/L	0.0062
1,2-Dichloroethane	ND U	0.050	mg/L	0.0054
1,1-Dichloroethene	ND U	0.050	mg/L	0.0088
Tetrachloroethene	ND U	0.050	mg/L	0.016
Trichloroethene	ND U	0.050	mg/L	0.0058
Vinyl chloride	ND U	0.050	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(77 - 120)
Toluene-d8	106	(78 - 111)
4-Bromofluorobenzene	98	(80 - 114)
Dibromofluoromethane	89	(78 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-41

TCLP GC/MS Volatiles

Lot-Sample #...: C4H180155-003	Work Order #...: GNDXA1CD	Matrix.....: SOLID
Date Sampled...: 08/17/04	Date Received..: 08/18/04	MS Run #.....: 4247201
Leach Date.....: 09/02/04	Prep Date.....: 09/03/04	Analysis Date..: 09/03/04
Leach Batch #..: P424614	Prep Batch #...: 4247012	Analysis Time..: 06:58
Dilution Factor: 1	Initial Wgt/Vol: 5 mL	Final Wgt/Vol..: 5 mL
% Moisture.....: 41	Analyst ID.....: 402306	Instrument ID..: HP5
	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND U	0.050	mg/L	0.0057
2-Butanone	ND U	0.050	mg/L	0.034
Carbon tetrachloride	ND U	0.050	mg/L	0.0067
Chlorobenzene	ND U	0.050	mg/L	0.0056
Chloroform	ND U	0.050	mg/L	0.0062
1,2-Dichloroethane	ND U	0.050	mg/L	0.0054
1,1-Dichloroethene	ND U	0.050	mg/L	0.0088
Tetrachloroethene	ND U	0.050	mg/L	0.016
Trichloroethene	ND U	0.050	mg/L	0.0058
Vinyl chloride	ND U	0.050	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(77 - 120)
Toluene-d8	104	(78 - 111)
4-Bromofluorobenzene	93	(80 - 114)
Dibromofluoromethane	94	(78 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45

TCLP GC/MS Semivolatiles

Lot-Sample #...: C4H180155-001	Work Order #...: GNDWM1CE	Matrix.....: SOLID
Date Sampled...: 08/17/04	Date Received..: 08/18/04	MS Run #.....: 4245205
Leach Date.....: 08/27/04	Prep Date.....: 09/01/04	Analysis Date..: 09/03/04
Leach Batch #..: P424305	Prep Batch #...: 4245340	Analysis Time..: 20:17
Dilution Factor: 1	Initial Wgt/Vol: 200 mL	Final Wgt/Vol..: 1 mL
% Moisture.....: 41	Analyst ID.....: 001562	Instrument ID..: 71
	Method.....: SW846 8270C	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND	0.050	mg/L	0.00012
2,4-Dinitrotoluene	ND	0.050	mg/L	0.00092
Hexachlorobenzene	ND	0.050	mg/L	0.0012
Hexachlorobutadiene	ND	0.050	mg/L	0.00013
Hexachloroethane	ND	0.050	mg/L	0.00016
Nitrobenzene	ND	0.050	mg/L	0.00017
Pentachlorophenol	ND	0.25	mg/L	0.00079
Pyridine	ND	0.10	mg/L	0.0015
2,4,5-Trichloro-phenol	ND	0.050	mg/L	0.0016
2,4,6-Trichloro-phenol	ND	0.050	mg/L	0.0019
Cresols (total)	ND	0.050	mg/L	0.0015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	86	(32 - 112)
2-Fluorobiphenyl	80	(30 - 110)
Terphenyl-d14	96	(10 - 144)
2-Fluorophenol	73	(13 - 110)
Phenol-d5	84	(10 - 113)
2,4,6-Tribromophenol	98	(21 - 122)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45-DUP

TCLP GC/MS Semivolatiles

Lot-Sample #...:	C4H180155-002	Work Order #...:	GNDW81CE	Matrix.....:	SOLID
Date Sampled...:	08/17/04	Date Received..:	08/18/04	MS Run #.....:	4245205
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424305	Prep Batch #...:	4245340	Analysis Time..:	21:44
Dilution Factor:	1	Initial Wgt/Vol:	200 mL	Final Wgt/Vol..:	1 mL
% Moisture.....:	55	Analyst ID.....:	001562	Instrument ID..:	71
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND	0.050	mg/L	0.00012
2,4-Dinitrotoluene	ND	0.050	mg/L	0.00092
Hexachlorobenzene	ND	0.050	mg/L	0.0012
Hexachlorobutadiene	ND	0.050	mg/L	0.00013
Hexachloroethane	ND	0.050	mg/L	0.00016
Nitrobenzene	ND	0.050	mg/L	0.00017
Pentachlorophenol	ND	0.25	mg/L	0.00079
Pyridine	ND	0.10	mg/L	0.0015
2,4,5-Trichloro-phenol	ND	0.050	mg/L	0.0016
2,4,6-Trichloro-phenol	ND	0.050	mg/L	0.0019
Cresols (total)	ND	0.050	mg/L	0.0015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	75	(32 - 112)
2-Fluorobiphenyl	64	(30 - 110)
Terphenyl-d14	91	(10 - 144)
2-Fluorophenol	68	(13 - 110)
Phenol-d5	75	(10 - 113)
2,4,6-Tribromophenol	92	(21 - 122)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-41

TCLP GC/MS Semivolatiles

Lot-Sample #...: C4H180155-003	Work Order #...: GNDXA1CE	Matrix.....: SOLID
Date Sampled...: 08/17/04	Date Received..: 08/18/04	MS Run #.....: 4245205
Leach Date.....: 08/27/04	Prep Date.....: 09/01/04	Analysis Date..: 09/03/04
Leach Batch #..: P424305	Prep Batch #...: 4245340	Analysis Time..: 22:13
Dilution Factor: 1	Initial Wgt/Vol: 200 mL	Final Wgt/Vol..: 1 mL
% Moisture.....: 41	Analyst ID.....: 001562	Instrument ID..: 71
	Method.....: SW846 8270C	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND	0.050	mg/L	0.00012
2,4-Dinitrotoluene	ND	0.050	mg/L	0.00092
Hexachlorobenzene	ND	0.050	mg/L	0.0012
Hexachlorobutadiene	ND J	0.050	mg/L	0.00013
Hexachloroethane	ND	0.050	mg/L	0.00016
Nitrobenzene	ND	0.050	mg/L	0.00017
Pentachlorophenol	ND	0.25	mg/L	0.00079
Pyridine	ND	0.10	mg/L	0.0015
2,4,5-Trichloro-phenol	ND J	0.050	mg/L	0.0016
2,4,6-Trichloro-phenol	ND	0.050	mg/L	0.0019
Cresols (total)	ND	0.050	mg/L	0.0015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	92	(32 - 112)
2-Fluorobiphenyl	78	(30 - 110)
Terphenyl-d14	96	(10 - 144)
2-Fluorophenol	81	(13 - 110)
Phenol-d5	84	(10 - 113)
2,4,6-Tribromophenol	96	(21 - 122)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45

TCLP GC Semivolatiles

Lot-Sample #...:	C4H180155-001	Work Order #...:	GNDWM1CF	Matrix.....:	SOLID
Date Sampled...:	08/17/04	Date Received..:	08/18/04	MS Run #.....:	4245367
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/04/04
Leach Batch #..:	P424305	Prep Batch #...:	4245572	Analysis Time..:	13:42
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	41	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00017
Endrin	ND	0.00050	mg/L	0.000015
Heptachlor	ND	0.00050	mg/L	0.000014
Heptachlor epoxide	ND	0.00050	mg/L	0.000015
Lindane	ND	0.00050	mg/L	0.000015
Methoxychlor	ND	0.00050	mg/L	0.000031
Toxaphene	ND	0.020	mg/L	0.000072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	113	(10 - 147)
Tetrachloro-m-xylene	109	(39 - 130)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45-DUP

TCLP GC Semivolatiles

Lot-Sample #...:	C4H180155-002	Work Order #...:	GNDW81CF	Matrix.....:	SOLID
Date Sampled...:	08/17/04	Date Received..:	08/18/04	MS Run #.....:	4245367
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/04/04
Leach Batch #..:	P424305	Prep Batch #...:	4245572	Analysis Time..:	15:12
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	55	Analyst ID.....:	010139	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00017
Endrin	ND	0.00050	mg/L	0.000015
Heptachlor	ND	0.00050	mg/L	0.000014
Heptachlor epoxide	ND	0.00050	mg/L	0.000015
Lindane	ND	0.00050	mg/L	0.000015
Methoxychlor	ND	0.00050	mg/L	0.000031
Toxaphene	ND	0.020	mg/L	0.000072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	106	(10 - 147)
Tetrachloro-m-xylene	111	(39 - 130)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-41

TCLP GC Semivolatiles

Lot-Sample #...: C4H180155-003	Work Order #...: GNDXA1CF	Matrix.....: SOLID
Date Sampled...: 08/17/04	Date Received..: 08/18/04	MS Run #.....: 4245367
Leach Date.....: 08/27/04	Prep Date.....: 09/01/04	Analysis Date..: 09/04/04
Leach Batch #..: P424305	Prep Batch #...: 4245572	Analysis Time..: 15:42
Dilution Factor: 1	Initial Wgt/Vol: 100 mL	Final Wgt/Vol..: 10 mL
% Moisture.....: 41	Analyst ID.....: 402331	Instrument ID..: G/H
	Method.....: SW846 8081A	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00017
Endrin	ND	0.00050	mg/L	0.000015
Heptachlor	ND	0.00050	mg/L	0.000014
Heptachlor epoxide	ND	0.00050	mg/L	0.000015
Lindane	ND	0.00050	mg/L	0.000015
Methoxychlor	ND	0.00050	mg/L	0.000031
Toxaphene	ND	0.020	mg/L	0.000072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	109	(10 - 147)
Tetrachloro-m-xylene	107	(39 - 130)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45

TCLP GC Semivolatiles

Lot-Sample #...:	C4H180155-001	Work Order #...:	GNDWM1CG	Matrix.....:	SOLID
Date Sampled...:	08/17/04	Date Received..:	08/18/04	MS Run #.....:	4245368
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424305	Prep Batch #...:	4245575	Analysis Time..:	05:56
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	41	Analyst ID.....:	001797	Instrument ID..:	A/B
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	0.040	mg/L	0.0014
2,4,5-TP (Silvex)	ND	0.010	mg/L	0.00034

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	106	(42 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45-DUP

TCLP GC Semivolatiles

Lot-Sample #...:	C4H180155-002	Work Order #...:	GNDW81CG	Matrix.....:	SOLID
Date Sampled...:	08/17/04	Date Received..:	08/18/04	MS Run #.....:	4245368
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424305	Prep Batch #...:	4245575	Analysis Time..:	07:39
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	55	Analyst ID.....:	001797	Instrument ID..:	A/B
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	0.040	mg/L	0.0014
2,4,5-TP (Silvex)	ND	0.010	mg/L	0.00034

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	103	(42 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-41

TCLP GC Semivolatiles

Lot-Sample #...:	C4H180155-003	Work Order #...:	GNDXA1CG	Matrix.....:	SOLID
Date Sampled...:	08/17/04	Date Received..:	08/18/04	MS Run #.....:	4245368
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424305	Prep Batch #...:	4245575	Analysis Time..:	08:13
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	41	Analyst ID.....:	001797	Instrument ID..:	A/B
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	0.040	mg/L	0.0014
2,4,5-TP (Silvex)	ND	0.010	mg/L	0.00034

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	103	(42 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L SDG No.: C4H180155 Method Type:

Sample ID: GNDWM Client ID: PFP-45

Matrix: SOIL Date Received: 8/18/2004 Level: LOW

% Solids: 59.3 Sample Wt/Vol: 1.0 Final Vol: 100.0

Prep Batch ID: 4243028 Prep Date: 8/30/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	18200	mg/Kg			MS	0.42	1.00	9/16/2004	13:51:31
Antimony	7440-36-0	2.2	mg/Kg		N J	MS	0.010	1.00	9/16/2004	13:51:31
Arsenic	7440-38-2	4.5	mg/Kg		E	MS	0.044	1.00	9/16/2004	13:51:31
Barium	7440-39-3	188	mg/Kg			MS	0.019	1.00	9/16/2004	13:51:31
Beryllium	7440-41-7	0.73	mg/Kg			MS	0.009	1.00	9/16/2004	13:51:31
Cadmium	7440-43-9	29.4	mg/Kg		*	MS	0.011	1.00	9/16/2004	13:51:31
Calcium	7440-70-2	3730	mg/Kg		E J	MS	1.4	1.00	9/16/2004	13:51:31
Chromium	7440-47-3	622	mg/Kg			MS	0.094	1.00	9/16/2004	13:51:31
Cobalt	7440-48-4	10.5	mg/Kg			MS	0.005	1.00	9/16/2004	13:51:31
Copper	7440-50-8	88.7	mg/Kg			MS	0.084	1.00	9/16/2004	13:51:31
Iron	7439-89-6	21500	mg/Kg			MS	0.49	1.00	9/16/2004	13:51:31
Lead	7439-92-1	619	mg/Kg			MS	0.008	1.00	9/16/2004	13:51:31
Magnesium	7439-95-4	4040	mg/Kg			MS	0.22	1.00	9/16/2004	13:51:31
Manganese	7439-96-5	216	mg/Kg		N J	MS	0.006	1.00	9/16/2004	13:51:31
Nickel	7440-02-0	26.1	mg/Kg			MS	0.010	1.00	9/16/2004	13:51:31
Potassium	7440-09-7	1920	mg/Kg			MS	0.71	1.00	9/16/2004	13:51:31
Selenium	7782-49-2	2.2	mg/Kg			MS	0.079	1.00	9/16/2004	13:51:31
Silver	7440-22-4	0.82	mg/Kg			MS	0.009	1.00	9/16/2004	13:51:31
Sodium	7440-23-5	230	mg/Kg			MS	1.5	1.00	9/16/2004	13:51:31
Thallium	7440-28-0	0.61	mg/Kg		* J	MS	0.008	1.00	9/16/2004	13:51:31
Vanadium	7440-62-2	64.3	mg/Kg		E J	MS	0.083	1.00	9/16/2004	13:51:31
Zinc	7440-66-6	395	mg/Kg		E J	MS	0.057	1.00	9/16/2004	13:51:31

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L SDG No.: C4H180155 Method Type:

Sample ID: GNDW8 Client ID: PFP-45-DUP

Matrix: SOIL Date Received: 8/18/2004 Level: LOW

% Solids: 45.1 Sample Wt/Vol: 1.0 Final Vol: 100.0

Prep Batch ID: 4243028 Prep Date: 8/30/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	25100	mg/Kg			MS	0.55	1.00	9/16/2004	14:08:32
Antimony	7440-36-0	3.0	mg/Kg		~~N~~ J	MS	0.013	1.00	9/16/2004	14:08:32
Arsenic	7440-38-2	6.7	mg/Kg		~~E~~	MS	0.058	1.00	9/16/2004	14:08:32
Barium	7440-39-3	259	mg/Kg			MS	0.024	1.00	9/16/2004	14:08:32
Beryllium	7440-41-7	0.96	mg/Kg			MS	0.012	1.00	9/16/2004	14:08:32
Cadmium	7440-43-9	39.7	mg/Kg		~~*~~	MS	0.015	1.00	9/16/2004	14:08:32
Calcium	7440-70-2	5080	mg/Kg		~~E~~ J	MS	1.8	1.00	9/16/2004	14:08:32
Chromium	7440-47-3	882	mg/Kg			MS	0.12	1.00	9/16/2004	14:08:32
Cobalt	7440-48-4	14.8	mg/Kg			MS	0.006	1.00	9/16/2004	14:08:32
Copper	7440-50-8	123	mg/Kg			MS	0.11	1.00	9/16/2004	14:08:32
Iron	7439-89-6	29700	mg/Kg			MS	0.64	1.00	9/16/2004	14:08:32
Lead	7439-92-1	861	mg/Kg			MS	0.010	1.00	9/16/2004	14:08:32
Magnesium	7439-95-4	5480	mg/Kg			MS	0.29	1.00	9/16/2004	14:08:32
Manganese	7439-96-5	285	mg/Kg		~~N~~ J	MS	0.008	1.00	9/16/2004	14:08:32
Nickel	7440-02-0	36.2	mg/Kg			MS	0.013	1.00	9/16/2004	14:08:32
Potassium	7440-09-7	2800	mg/Kg			MS	0.93	1.00	9/16/2004	14:08:32
Selenium	7782-49-2	3.2	mg/Kg			MS	0.10	1.00	9/16/2004	14:08:32
Silver	7440-22-4	0.94	mg/Kg			MS	0.011	1.00	9/16/2004	14:08:32
Sodium	7440-23-5	330	mg/Kg			MS	2.0	1.00	9/16/2004	14:08:32
Thallium	7440-28-0	0.38	mg/Kg		~~*~~ J	MS	0.011	1.00	9/16/2004	14:08:32
Vanadium	7440-62-2	96.3	mg/Kg		~~E~~ J	MS	0.11	1.00	9/16/2004	14:08:32
Zinc	7440-66-6	588	mg/Kg		~~E~~ J	MS	0.075	1.00	9/16/2004	14:08:32

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4H180155 **Method Type:**

Sample ID: GNDXA **Client ID:** PFP-41A

Matrix: SOIL **Date Received:** 8/18/2004 **Level:** LOW

% Solids: 58.5 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4243028 **Prep Date:** 8/30/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	16600	mg/Kg			MS	0.43	1.00	9/16/2004	14:12:47
Antimony	7440-36-0	2.8	mg/Kg		~~N~~ J	MS	0.010	1.00	9/16/2004	14:12:47
Arsenic	7440-38-2	4.4	mg/Kg		~~E~~	MS	0.044	1.00	9/16/2004	14:12:47
Barium	7440-39-3	148	mg/Kg			MS	0.019	1.00	9/16/2004	14:12:47
Beryllium	7440-41-7	0.65	mg/Kg			MS	0.009	1.00	9/16/2004	14:12:47
Cadmium	7440-43-9	38.2	mg/Kg		~~*~~	MS	0.011	1.00	9/16/2004	14:12:47
Calcium	7440-70-2	5620	mg/Kg		~~E~~ J	MS	1.4	1.00	9/16/2004	14:12:47
Chromium	7440-47-3	614	mg/Kg			MS	0.096	1.00	9/16/2004	14:12:47
Cobalt	7440-48-4	8.0	mg/Kg			MS	0.005	1.00	9/16/2004	14:12:47
Copper	7440-50-8	84.4	mg/Kg			MS	0.085	1.00	9/16/2004	14:12:47
Iron	7439-89-6	19300	mg/Kg			MS	0.50	1.00	9/16/2004	14:12:47
Lead	7439-92-1	717	mg/Kg			MS	0.008	1.00	9/16/2004	14:12:47
Magnesium	7439-95-4	3560	mg/Kg			MS	0.22	1.00	9/16/2004	14:12:47
Manganese	7439-96-5	181	mg/Kg		~~N~~ J	MS	0.006	1.00	9/16/2004	14:12:47
Nickel	7440-02-0	21.3	mg/Kg			MS	0.010	1.00	9/16/2004	14:12:47
Potassium	7440-09-7	1840	mg/Kg			MS	0.72	1.00	9/16/2004	14:12:47
Selenium	7782-49-2	2.6	mg/Kg			MS	0.080	1.00	9/16/2004	14:12:47
Silver	7440-22-4	1.1	mg/Kg			MS	0.009	1.00	9/16/2004	14:12:47
Sodium	7440-23-5	225	mg/Kg			MS	1.5	1.00	9/16/2004	14:12:47
Thallium	7440-28-0	0.22	mg/Kg		~~*~~ J	MS	0.008	1.00	9/16/2004	14:12:47
Vanadium	7440-62-2	65.4	mg/Kg		~~E~~ J	MS	0.084	1.00	9/16/2004	14:12:47
Zinc	7440-66-6	543	mg/Kg		~~E~~ J	MS	0.058	1.00	9/16/2004	14:12:47

Comments:

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GNDWM **Client ID:** PFP-45

Matrix: Soil **Units:** mg/L **Prep Date:** 9/13/2004 **Prep Batch:** 4254041

Weight: .60 **Volume:** 100 **Percent Moisture:** 40.649

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.059	0.17	2.2		5	CVAA	9/10/2004	16:51

Comments: Lot #: C4H180155 Sample #: 1

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GNDW8 **Client ID:** PFP-45-DUP

Matrix: Soil **Units:** mg/L **Prep Date:** 9/13/2004 **Prep Batch:** 4254041

Weight: .60 **Volume:** 100 **Percent Moisture:** 54.89

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.059	0.17	2.3		5	CVAA	9/10/2004	16:56

Comments: Lot #: C4H180155 Sample #: 2

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GNDXA **Client ID:** PFP-41

Matrix: Soil **Units:** mg/L **Prep Date:** 9/13/2004 **Prep Batch:** 4254041

Weight: .60 **Volume:** 100 **Percent Moisture:** 41.455

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.059	0.17	2.6		5	CVAA	9/10/2004	16:58

Comments: Lot #: C4H180155 Sample #: 3

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45

TCLP Metals

Lot-Sample #...: C4H180155-001
Date Sampled...: 08/17/04
Leach Date.....: 08/27/04
Date Received..: 08/18/04
Leach Batch #..: P424305
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4244042						
Arsenic	ND ~~0.16 B,J~~	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDWM1A4
		Dilution Factor: 1		Analysis Time..: 16:09	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.019	
Barium	0.72 B,J	10.0	mg/L	SW846 6010B	08/31-09/02/04	GNDWM1A5
		Dilution Factor: 1		Analysis Time..: 16:09	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.00036	
Cadmium	0.18	0.10	mg/L	SW846 6010B	08/31-09/02/04	GNDWM1A6
		Dilution Factor: 1		Analysis Time..: 16:09	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.00086	
Chromium	0.041 B,J	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDWM1A7
		Dilution Factor: 1		Analysis Time..: 16:09	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.0014	
Lead	1.2	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDWM1A8
		Dilution Factor: 1		Analysis Time..: 16:09	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.013	
Selenium	ND	0.25	mg/L	SW846 6010B	08/31-09/02/04	GNDWM1A9
		Dilution Factor: 1		Analysis Time..: 16:09	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.027	
Silver	ND J	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDWM1CA
		Dilution Factor: 1		Analysis Time..: 16:09	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.0026	
Prep Batch #...: 4257034						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/13/04	GNDWM1CC
		Dilution Factor: 1		Analysis Time..: 09:54	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4257016	MDL.....: 0.000071	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-45-DUP

TCLP Metals

Lot-Sample #...: C4H180155-002
Date Sampled...: 08/17/04
Leach Date.....: 08/27/04
Date Received..: 08/18/04
Leach Batch #..: P424305
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4244042						
Arsenic	ND ~~0.14 B,J~~	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDW81AF
		Dilution Factor: 1		Analysis Time..: 16:06	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.019	
Barium	0.96 B,~~J~~	10.0	mg/L	SW846 6010B	08/31-09/02/04	GNDW81AG
		Dilution Factor: 1		Analysis Time..: 16:06	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.00036	
Cadmium	0.16	0.10	mg/L	SW846 6010B	08/31-09/02/04	GNDW81AH
		Dilution Factor: 1		Analysis Time..: 16:06	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.00086	
Chromium	0.038 B,~~J~~	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDW81AJ
		Dilution Factor: 1		Analysis Time..: 16:06	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.0014	
Lead	1.2	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDW81AK
		Dilution Factor: 1		Analysis Time..: 16:06	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.013	
Selenium	ND	0.25	mg/L	SW846 6010B	08/31-09/02/04	GNDW81AL
		Dilution Factor: 1		Analysis Time..: 16:06	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.027	
Silver	ND J	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDW81CA
		Dilution Factor: 1		Analysis Time..: 16:06	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.0026	
Prep Batch #...: 4257034						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/13/04	GNDW81CC
		Dilution Factor: 1		Analysis Time..: 09:58	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4257016	MDL.....: 0.000071	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-41

TCLP Metals

Lot-Sample #...: C4H180155-003
Date Sampled...: 08/17/04
Leach Date.....: 08/27/04

Date Received..: 08/18/04
Leach Batch #..: P424305

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4244042						
Arsenic	ND 0.11 B,J	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDXA1AF
		Dilution Factor: 1		Analysis Time..: 16:29	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.019	
Barium	0.56 B,J	10.0	mg/L	SW846 6010B	08/31-09/02/04	GNDXA1AG
		Dilution Factor: 1		Analysis Time..: 16:29	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.00036	
Cadmium	0.21	0.10	mg/L	SW846 6010B	08/31-09/02/04	GNDXA1AH
		Dilution Factor: 1		Analysis Time..: 16:29	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.00086	
Chromium	0.039 B,J	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDXA1AJ
		Dilution Factor: 1		Analysis Time..: 16:29	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.0014	
Lead	1.1	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDXA1AK
		Dilution Factor: 1		Analysis Time..: 16:29	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.013	
Selenium	ND	0.25	mg/L	SW846 6010B	08/31-09/02/04	GNDXA1AL
		Dilution Factor: 1		Analysis Time..: 16:29	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.027	
Silver	ND	0.50	mg/L	SW846 6010B	08/31-09/02/04	GNDXA1CA
		Dilution Factor: 1		Analysis Time..: 16:29	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244034	MDL.....: 0.0026	
Prep Batch #...: 4257034						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/13/04	GNDXA1CC
		Dilution Factor: 1		Analysis Time..: 10:00	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4257016	MDL.....: 0.000071	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080116
ELAP ID No.:	11078	CLIENT ID:	PFP-45
Matrix:	WATER	LAB SAMPLE ID:	AH08883
Sample wt(Dry)/vol:	1.08 (L)	LAB FILE ID:	AH08883
% Moisture:	0.0	DATE RECEIVED:	8/18/2004
Extraction :	CLLE	DATE EXTRACTED:	8/24/2004
Conc. Extract Volume:	5000 (µL)	DATE ANALYZED:	9/4/2004
Injection Volume:	0.4 (µL)	DILUTION FACTOR:	50
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_090404_GE.XLS

NEA File ID: S:\CERT04\04080116_8082WATER.XLS 1D-1-1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.52	U
11104-28-2	Aroclor 1221	14	~~B~~ J
11141-16-5	Aroclor 1232	0.52	U
53469-21-9	Aroclor 1242	0.52	U
12672-29-6	Aroclor 1248	0.52	U
11097-69-1	Aroclor 1254	0.52	U
11096-82-5	Aroclor 1260	0.52	U
1336-36-3	Total PCB	14	J

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080116
ELAP ID No.:	11078	CLIENT ID:	PFP-45-DUP
Matrix:	WATER	LAB SAMPLE ID:	AH08884
Sample wt(Dry)/vol:	1.08 (L)	LAB FILE ID:	AH08884
% Moisture:	0.0	DATE RECEIVED:	8/18/2004
Extraction :	CLLE	DATE EXTRACTED:	8/24/2004
Conc. Extract Volume:	5000 (µL)	DATE ANALYZED:	9/4/2004
Injection Volume:	0.4 (µL)	DILUTION FACTOR:	100
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_090404_GE.XLS

NEA File ID: S:\CERT04\04080116_8082WATER.XLS 1D-1-2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	42	~~B~~ J
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
1336-36-3	Total PCB	42	J

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080116
ELAP ID No.:	11078	CLIENT ID:	PFP-41
Matrix:	WATER	LAB SAMPLE ID:	AH08887
Sample wt(Dry)/vol:	1.06 (L)	LAB FILE ID:	AH08887
% Moisture:	0.0	DATE RECEIVED:	8/18/2004
Extraction :	CLLE	DATE EXTRACTED:	8/24/2004
Conc. Extract Volume:	5000 (µL)	DATE ANALYZED:	9/4/2004
Injection Volume:	0.4 (µL)	DILUTION FACTOR:	20
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_090404_GE.XLS

NEA File ID: S:\CERT04\04080116_8082WATER.XLS 1D-1-3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.21	U
11104-28-2	Aroclor 1221	4.7	~~B~~ J
11141-16-5	Aroclor 1232	0.21	U
53469-21-9	Aroclor 1242	0.21	U
12672-29-6	Aroclor 1248	0.21	U
11097-69-1	Aroclor 1254	0.21	U
11096-82-5	Aroclor 1260	0.21	U
1336-36-3	Total PCB	4.7	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080116
ELAP ID No.:	11078	CLIENT ID:	PFP-45
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08892
Sample wt(Dry)/vol:	5.63286 (g)	LAB FILE ID:	AH08892
% Moisture:	44.7	DATE RECEIVED:	8/18/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/18/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/29/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	100
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_082404G.XLS

NEA File ID: S:\CERT04\04080116_8082SEDIMENT.XLS 1D-

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	2.0	U
11104-28-2	Aroclor 1221	290	
11141-16-5	Aroclor 1232	2.0	U
53469-21-9	Aroclor 1242	48	
12672-29-6	Aroclor 1248	2.0	U
11097-69-1	Aroclor 1254	2.0	U
11096-82-5	Aroclor 1260	2.0	U
1336-36-3	Total PCB	338	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080116
ELAP ID No.:	11078	CLIENT ID:	PFP-45-DUP
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08893
Sample wt(Dry)/vol:	6.0882 (g)	LAB FILE ID:	AH08893
% Moisture:	40.0	DATE RECEIVED:	8/18/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/18/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/29/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	100
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_082404G.XLS

NEA File ID: S:\CERT04\04080116_8082SEDIMENT.XLS 1D-

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	1.9	U
11104-28-2	Aroclor 1221	280	
11141-16-5	Aroclor 1232	1.9	U
53469-21-9	Aroclor 1242	47	
12672-29-6	Aroclor 1248	1.9	U
11097-69-1	Aroclor 1254	1.9	U
11096-82-5	Aroclor 1260	1.9	U
1336-36-3	Total PCB	327	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080116
ELAP ID No.:	11078	CLIENT ID:	PFP-41
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08894
Sample wt(Dry)/vol:	4.8222 (g)	LAB FILE ID:	AH08894
% Moisture:	54.4	DATE RECEIVED:	8/18/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/18/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/29/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	100
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_082404G.XLS

NEA File ID: S:\CERT04\04080116_8082SEDIMENT.XLS 1D-

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	2.4	U
11104-28-2	Aroclor 1221	380	
11141-16-5	Aroclor 1232	2.4	U
53469-21-9	Aroclor 1242	71	
12672-29-6	Aroclor 1248	2.4	U
11097-69-1	Aroclor 1254	2.4	U
11096-82-5	Aroclor 1260	2.4	U
1336-36-3	Total PCB	451	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

Method 1613

PFP-45

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0428	0.976			~~Q~~ J
1,2,3,7,8-PeCDD	15.2	0.153	4.88	34:46	1.40	
1,2,3,4,7,8-HxCDD	25.8	0.187	4.88	37:26	1.19	
1,2,3,6,7,8-HxCDD	135	0.0673	4.88	37:32	1.18	
1,2,3,7,8,9-HxCDD	61.6	0.199	4.88	37:47	1.15	
2,3,7,8-TCDF	45.6	0.144	0.976	31:25	0.77	~~Q~~ J
1,2,3,7,8-PeCDF	12.4	0.117	4.88	33:55	1.62	~~Q~~ J
2,3,4,7,8-PeCDF	89.0	0.147	4.88	34:34	1.59	~~Q~~ J
1,2,3,4,7,8-HxCDF	48.4	0.142	4.88	36:42	1.21	
1,2,3,6,7,8-HxCDF	34.4	0.146	4.88	36:48	1.23	
2,3,4,6,7,8-HxCDF	31.0	0.0666	4.88	37:18	1.21	
1,2,3,7,8,9-HxCDF	11.9	0.151	4.88	38:09	1.22	
1,2,3,4,6,7,8-HpCDF	652	0.226	4.88	39:42	1.04	
1,2,3,4,7,8,9-HpCDF	47.7	0.242	4.88	41:44	1.04	
Total TCDDs	110	0.0428	0.976			~~Q~~ J
Total PeCDDs	314	0.153	4.88			~~Q~~ J
Total HxCDDs	2490	0.0673	4.88			~~Q~~ J
Total TCDFs	1160	0.144	0.976			~~Q~~ J
Total PeCDFs	535	0.117	4.88			~~Q~~ J
Total HxCDFs	639	0.0666	4.88			~~Q~~ J
Total HpCDFs	2220	0.226	4.88			
ITEF TEQ (ND=0)	99.1					*
ITEF TEQ (ND=½)	99.6					*

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-45

Laboratory Information

Project ID: G135-33

Sample ID: G135-33-1C

Collection Date/Time: 17-Aug-04 09:00

Receipt Date: 18-Aug-04

Extraction Date: 22-Aug-04

Analysis Date: 24-Aug-04

Sample Information

Matrix: Sediment

Weight / Volume: 17.83 grams

Solids / Lipids: 57.5 %

Original pH : NA

Batch ID: WG11028

Filename: a24aug04a-5

Retchk: a24aug04a-1

Begin ConCal: a24aug04a-1

Initial Cal: m1613-122203b

Method 1613

PFP-45

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.53	76.6	31:54	0.82	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.45	72.6	34:45	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	1.82	90.8	37:25	1.24	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.60	80.2	37:31	1.23	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.65	82.7	31:25	0.81	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.38	68.9	33:54	1.61	~~Q~~ J
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.04	51.8	34:33	1.61	~~Q~~ J
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.63	81.5	36:41	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.31	65.3	36:47	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.55	77.7	37:18	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.42	71.0	38:07	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.47	73.4	39:42	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.41	70.5	41:43	0.46	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.317	79.2	31:55		~~Q~~ J
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			31:30	0.79	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:18	1.20	

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-45

Laboratory Information

Project ID: G135-33
Sample ID: G135-33-1C
Collection Date/Time: 17-Aug-04 09:00
Receipt Date: 18-Aug-04
Extraction Date: 22-Aug-04
Analysis Date: 24-Aug-04

Analyzed by: [illegible]
Date: 08-26-04

Sample Information

Matrix: Sediment
Weight / Volume: 17.83 grams
Solids / Lipids: 57.5 %
Original pH : NA
Batch ID: WG11028

Filename: a24aug04a-5
Retchk: a24aug04a-1
Begin ConCal: a24aug04a-1

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 8/24/04

Method 1613

PFP-45

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	4820	0.217	97.6	40:51	1.06	
OCDD	44100	0.523	195	45:22	0.88	
OCDF	1540	2.15	195	45:41	0.85	
Total HpCDDs	10500	0.217	97.6			
ITEF TEQ (ND=0)	93.8					*
ITEF TEQ (ND=½)	93.8					*

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-45

Laboratory Information

Project ID: G135-33

Sample ID: G135-33-1D D20

Collection Date/Time: 17-Aug-04 09:00

Receipt Date: 18-Aug-04

Extraction Date: 22-Aug-04

Analysis Date: 25-Aug-04

Sample Information

Matrix: Sediment

Weight / Volume: 17.83 grams

Solids / Lipids: 57.5 %

Original pH : NA

Batch ID: WG11028

Filename: a24aug04a_3-4

Retchk: a24aug04a_2-14

Begin ConCal: a24aug04a_2-14

Initial Cal: m1613-122203b

Method 1613

PFP-45

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	1.86	92.8	40:50	1.08	
$^{13}C_{12}$-OCDD	4.0	3.73	93.4	45:21	0.96	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:09	1.20	

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-45

Laboratory Information

Project ID: G135-33

Sample ID: G135-33-1D D20

Collection Date/Time: 17-Aug-04 09:00

Receipt Date: 18-Aug-04

Extraction Date: 22-Aug-04

Analysis Date: 25-Aug-04

Analyzed by: JLP

Date: 08-26-04

Sample Information

Matrix: Sediment

Weight / Volume: 17.83 grams

Solids / Lipids: 57.5 %

Original pH : NA

Batch ID: WG11028

Filename: a24aug04a_3-4

Retchk: a24aug04a_2-14

Begin ConCal: a24aug04a_2-14

Initial Cal: m1613-122203b

Reviewed by: CRY

Date: 8/26/04

Method 1613
PFP-45
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	42.6	0.144	0.976	16.53	0.77	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.52	0.79	

Client Information			**Sample Information**	
Project Name:	GEHR Treatability Study		Report Basis:	Dry
			Matrix:	Sediment
Sample ID:	PFP-45		Weight / Volume:	17.8 g
			Solids / Lipids:	57.5
			Original pH :	NA
Laboratory Information			Batch ID:	WG11028
Project ID:	G135-33		Instrument:	hrms3
Sample ID:	G135-33-1C		Filename:	c26aug04b-6
Collection Date/Time:	08/17/04	9:00	Retchk:	c26aug04b-2
Receipt Date:	08/18/04		Begin ConCal:	c26aug04b-1
Extraction Date:	08/22/04			
Analysis Date/Time:	08/26/04	18:34	Initial Cal:	mCF-c060304

Analyzed by: HMP
Date: 27Aug04

Reviewed by: [illegible]
Date: 8/27/04

Method 1613

PFP-45-DUP

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	5.90	0.0436	0.995	31:53	0.69	~~Q~~ J
1,2,3,7,8-PeCDD	14.5	0.156	4.97	34:45	1.55	
1,2,3,4,7,8-HxCDD	29.3	0.190	4.97	37:23	1.18	
1,2,3,6,7,8-HxCDD	139	0.0685	4.97	37:29	1.19	
1,2,3,7,8,9-HxCDD	65.7	0.202	4.97	37:44	1.14	
2,3,7,8-TCDF	45.5	0.147	0.995	31:23	0.79	~~Q~~ J
1,2,3,7,8-PeCDF	11.9	0.120	4.97	33:53	1.59	~~Q~~ J
2,3,4,7,8-PeCDF	84.2	0.150	4.97	34:32	1.62	~~Q~~ J
1,2,3,4,7,8-HxCDF	47.6	0.145	4.97	36:39	1.24	
1,2,3,6,7,8-HxCDF	31.9	0.149	4.97	36:46	1.20	
2,3,4,6,7,8-HxCDF	29.9	0.0679	4.97	37:15	1.20	
1,2,3,7,8,9-HxCDF	11.3	0.154	4.97	38:06	1.17	
1,2,3,4,6,7,8-HpCDF	620	0.230	4.97	39:40	1.05	
1,2,3,4,7,8,9-HpCDF	45.7	0.247	4.97	41:41	1.01	
Total TCDDs	133	0.0436	0.995			~~Q~~ J
Total PeCDDs	310	0.156	4.97			~~Q~~ J
Total HxCDDs	963	0.0685	4.97			~~Q~~ J
Total TCDFs	1170	0.147	0.995			~~Q~~ J
Total PeCDFs	565	0.120	4.97			~~Q~~ J
Total HxCDFs	591	0.0679	4.97			~~Q~~ J
Total HpCDFs	2160	0.230	4.97			~~Q~~ J
ITEF TEQ (ND=0)	103					*
ITEF TEQ (ND=½)	103					*

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-45-DUP

Laboratory Information

Project ID: G135-33
Sample ID: G135-33-2C
Collection Date: 17-Aug-04
Receipt Date: 18-Aug-04
Extraction Date: 22-Aug-04
Analysis Date: 24-Aug-04

Sample Information

Matrix: Sediment
Weight / Volume: 17.13 grams
Solids / Lipids: 58.7 %
Original pH : NA
Batch ID: WG11028

Filename: a24aug04a-6
Retchk: a24aug04a-1
Begin ConCal: a24aug04a-1

Initial Cal: m1613-122203b

Method 1613

PFP-45-DUP

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.59	79.4	31:52	0.80	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.60	80.2	34:43	1.60	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	1.90	94.9	37:22	1.25	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.70	85.0	37:28	1.25	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.82	90.8	31:23	0.81	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.47	73.3	33:52	1.62	~~Q~~ J
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.11	55.6	34:32	1.63	~~Q~~ J
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.65	82.7	36:38	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.37	68.7	36:45	0.50	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.65	82.3	37:15	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.66	82.9	38:04	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.65	82.5	39:39	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.63	81.7	41:40	0.46	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.322	80.5	31:53		~~Q~~ J
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			31:28	0.81	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:15	1.24	

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-45-DUP

Laboratory Information

Project ID: G135-33
Sample ID: G135-33-2C
Collection Date: 17-Aug-04
Receipt Date: 18-Aug-04
Extraction Date: 22-Aug-04
Analysis Date: 24-Aug-04

Analyzed by: JMP
Date: 08·26·04

Sample Information

Matrix: Sediment
Weight / Volume: 17.13 grams
Solids / Lipids: 58.7 %
Original pH : NA
Batch ID: WG11028

Filename: a24aug04a-6
Retchk: a24aug04a-1
Begin ConCal: a24aug04a-1

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 8/24/04

Method 1613

PFP-45-DUP

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	5100	0.221	99.5	40:51	1.07	
OCDD	47300	0.533	199	45:20	0.88	
OCDF	1810	2.19	199	45:40	0.85	
Total HpCDDs	11100	0.221	99.5			
ITEF TEQ (ND=0)	100					*
ITEF TEQ (ND=½)	100					*

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-45-DUP

Laboratory Information

Project ID: G135-33

Sample ID: G135-33-2D D20

Collection Date: 17-Aug-04

Receipt Date: 18-Aug-04

Extraction Date: 22-Aug-04

Analysis Date: 25-Aug-04

Sample Information

Matrix: Sediment

Weight / Volume: 17.13 grams

Solids / Lipids: 58.7 %

Original pH : NA

Batch ID: WG11028

Filename: a24aug04a_3-5

Retchk: a24aug04a_2-14

Begin ConCal: a24aug04a_2-14

Initial Cal: m1613-122203b

Method 1613

PFP-45-DUP

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	1.90	94.8	40:50	1.06	
$^{13}C_{12}$-OCDD	4.0	3.75	93.7	45:20	0.98	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:08	1.20	

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-45-DUP

Laboratory Information

Project ID: G135-33

Sample ID: G135-33-2D D20

Collection Date: 17-Aug-04

Receipt Date: 18-Aug-04

Extraction Date: 22-Aug-04

Analysis Date: 25-Aug-04

Analyzed by: JWP

Date: 08-26-04

Sample Information

Matrix: Sediment

Weight / Volume: 17.13 grams

Solids / Lipids: 58.7 %

Original pH : NA

Batch ID: WG11028

Filename: a24aug04a_3-5

Retchk: a24aug04a_2-14

Begin ConCal: a24aug04a_2-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]

Date: 8/26/04

Method 1613
PFP-45-DUP
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	41.2	0.147	0.995	16.51	0.77	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.50	0.80	

Client Information		**Sample Information**	
Project Name:	GEHR Treatability Study	Report Basis:	Dry
		Matrix:	Sediment
Sample ID:	PFP-45-DUP	Weight / Volume:	17.1 g
		Solids / Lipids:	58.7
		Original pH :	NA
Laboratory Information		Batch ID:	WG11028
Project ID:	G135-33	Instrument:	hrms3
Sample ID:	G135-33-2C	Filename:	c26aug04b-7
Collection Date/Time:	08/17/04	Retchk:	c26aug04b-2
Receipt Date:	08/18/04	Begin ConCal:	c26aug04b-1
Extraction Date:	08/22/04		
Analysis Date/Time:	08/26/04 18:57	Initial Cal:	mCF-c060304

Analyzed by: HMP
Date: 27Aug04

Reviewed by: [illegible]
Date: 8/27/04

Method 1613

PFP-41

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0438	1.00			~~Q~~ J
1,2,3,7,8-PeCDD	13.2	0.157	5.00	34:47	1.44	
1,2,3,4,7,8-HxCDD	19.6	0.191	5.00	37:23	1.08	
1,2,3,6,7,8-HxCDD	96.8	0.0689	5.00	37:29	1.17	
1,2,3,7,8,9-HxCDD	44.9	0.203	5.00	37:44	1.14	
2,3,7,8-TCDF	58.0	0.148	1.00	31:25	0.79	~~Q~~ J
1,2,3,7,8-PeCDF	16.6	0.120	5.00	33:55	1.58	~~Q~~ J
2,3,4,7,8-PeCDF	115	0.151	5.00	34:34	1.56	
1,2,3,4,7,8-HxCDF	55.9	0.146	5.00	36:40	1.21	
1,2,3,6,7,8-HxCDF	28.4	0.150	5.00	36:46	1.26	
2,3,4,6,7,8-HxCDF	31.3	0.0682	5.00	37:16	1.23	
1,2,3,7,8,9-HxCDF	14.7	0.155	5.00	38:06	1.14	
1,2,3,4,6,7,8-HpCDF	555	0.232	5.00	39:41	1.05	
1,2,3,4,7,8,9-HpCDF	45.8	0.248	5.00	41:43	1.08	
Total TCDDs	86.6	0.0438	1.00			~~Q~~ J
Total PeCDDs	101	0.157	5.00			~~Q~~ J
Total HxCDDs	537	0.0689	5.00			~~Q~~ J
Total TCDFs	1160	0.148	1.00			~~Q~~ J
Total PeCDFs	692	0.120	5.00			~~Q~~ J
Total HxCDFs	508	0.0682	5.00			~~Q~~ J
Total HpCDFs	1990	0.232	5.00			~~Q~~ J
ITEF TEQ (ND=0)	106					*
ITEF TEQ (ND=½)	106					*

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-41

Laboratory Information

Project ID: G135-33

Sample ID: G135-33-3C

Collection Date/Time: 17-Aug-04 09:30

Receipt Date: 18-Aug-04

Extraction Date: 22-Aug-04

Analysis Date: 24-Aug-04

Sample Information

Matrix: Sediment

Weight / Volume: 19.64 grams

Solids / Lipids: 50.9 %

Original pH : NA

Batch ID: WG11028

Filename: a24aug04a-7

Retchk: a24aug04a-1

Begin ConCal: a24aug04a-1

Initial Cal: m1613-122203b

Method 1613

PFP-41

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.75	87.5	31:54	0.80	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.73	86.3	34:46	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.10	105	37:23	1.24	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.88	93.8	37:29	1.24	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.96	98.2	31:25	0.81	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.55	77.3	33:54	1.61	~~Q~~ J
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.38	69.0	34:34	1.60	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.86	93.2	36:39	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.50	75.2	36:46	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.78	89.2	37:15	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.84	92.0	38:05	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.75	87.5	39:40	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.77	88.7	41:42	0.47	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.380	95.0	31:54		~~Q~~ J
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			31:30	0.80	~~Q~~ J
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:15	1.23	

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-41

Laboratory Information

Project ID: G135-33
Sample ID: G135-33-3C
Collection Date/Time: 17-Aug-04 09:30
Receipt Date: 18-Aug-04
Extraction Date: 22-Aug-04
Analysis Date: 24-Aug-04

Analyzed by: JWP
Date: 08-26-04

Sample Information

Matrix: Sediment
Weight / Volume: 19.64 grams
Solids / Lipids: 50.9 %
Original pH : NA
Batch ID: WG11028

Filename: a24aug04a-7
Retchk: a24aug04a-1
Begin ConCal: a24aug04a-1

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 8/26/04

Method 1613

PFP-41

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	3220	0.222	100	40:51	1.06	
OCDD	41300	0.535	200	45:21	0.88	
OCDF	1570	2.20	200	45:40	0.84	
Total HpCDDs	7350	0.222	100			
ITEF TEQ (ND=0)	75.1					*
ITEF TEQ (ND=½)	75.1					*

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-41

Laboratory Information

Project ID: G135-33

Sample ID: G135-33-3D D20

Collection Date/Time: 17-Aug-04 09:30

Receipt Date: 18-Aug-04

Extraction Date: 22-Aug-04

Analysis Date: 25-Aug-04

Sample Information

Matrix: Sediment

Weight / Volume: 19.64 grams

Solids / Lipids: 50.9 %

Original pH : NA

Batch ID: WG11028

Filename: a24aug04a_3-6

Retchk: a24aug04a_2-14

Begin ConCal: a24aug04a_2-14

Initial Cal: m1613-122203b

Method 1613

PFP-41

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	1.91	95.4	40:50	1.05	
$^{13}C_{12}$-OCDD	4.0	3.70	92.5	45:20	0.96	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:08	1.20	

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-41

Laboratory Information

Project ID: G135-33

Sample ID: G135-33-3D D20

Collection Date/Time: 17-Aug-04 09:30

Receipt Date: 18-Aug-04

Extraction Date: 22-Aug-04

Analysis Date: 25-Aug-04

Analyzed by: JW

Date: 08·26·04

Sample Information

Matrix: Sediment

Weight / Volume: 19.64 grams

Solids / Lipids: 50.9 %

Original pH : NA

Batch ID: WG11028

Filename: a24aug04a_3-6

Retchk: a24aug04a_2-14

Begin ConCal: a24aug04a_2-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]

Date: 8/26/04

Method 1613
PFP-41
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	46.5	0.148	1.000	16.52	0.69	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.51	1.05 *	

Client Information		**Sample Information**	
Project Name:	GEHR Treatability Study	Report Basis:	Dry
		Matrix:	Sediment
Sample ID:	PFP-41	Weight / Volume:	19.6 g
		Solids / Lipids:	50.9
		Original pH :	NA
Laboratory Information		Batch ID:	WG11028
Project ID:	G135-33	Instrument:	hrms3
Sample ID:	G135-33-3C	Filename:	c25aug04-17
Collection Date/Time:	08/17/04 9:30	Retchk:	c25aug04-13
Receipt Date:	08/18/04	Begin ConCal:	c25aug04-12
Extraction Date:	08/22/04		
Analysis Date/Time:	08/25/04 16:11	Initial Cal:	mCF-c060304

Analyzed by: HMP
Date: 26Aug04

Reviewed by: [illegible]
Date: 8/26/04

NORTHEAST ANALYTICAL
ENVIRONMENTAL LAB SERVICES
2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
09/05/2004

BBL ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13039
CONTACT: DON SAUDA

MATRIX : WATER
DATE RECEIVED: 08/18/2004 **TIME:** 9:50
SAMPLED BY: P. FILIPPETTI
CUSTOMER PO: N/A

PROJECT: GE HUDSON RIVER TREATABILITY STUDY
LOCATION: HUDSON RIVER
LAB ELAP #: 11078

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	TIME SAMPLED	RESULTS	PQL	UNITS	DATE ANALYZED
Total Organic Carbon								
AH08885	PFP-45(T)	EPA 415.1	08/17/2004	9:00	4.63	0.966	mg/L	08/31/2004
AH08886	PFP-45(D)	EPA 415.1	08/17/2004	9:00	4.38 J	0.966	mg/L	08/31/2004
AH08888	PFP-41(T)	EPA 415.1	08/17/2004	9:30	5.19	0.966	mg/L	08/31/2004
AH08889	PFP-41(D)	EPA 415.1	08/17/2004	9:30	3.73	0.966	mg/L	08/31/2004
AH08890	PFP-45(T)-DUP	EPA 415.1	08/17/2004	N/A	4.21	0.966	mg/L	08/31/2004
AH08891	PFP-45(D)-DUP	EPA 415.1	08/17/2004	N/A	4.57	0.966	mg/L	08/31/2004

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
08/20/2004

BBL ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13039
CONTACT: DON SAUDA

MATRIX :	WATER	**PROJECT:**	GE HUDSON RIVER TREATABILITY STUDY
DATE RECEIVED:	08/18/2004 **TIME:** 9:50	**LOCATION:**	HUDSON RIVER
SAMPLED BY:	P. FILIPPETTI	**LAB ELAP #:**	11078
CUSTOMER PO:	N/A		

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	TIME SAMPLED	RESULTS	PQL	UNIT	DATE ANALYZED
Total Suspended Solids								
AH08883	PFP-45	EPA 160.2	08/17/2004	9:00	13.5	1.92	mg/L	08/20/2004
AH08884	PFP-45-DUP	EPA 160.2	08/17/2004	N/A	12.7	1.92	mg/L	08/20/2004
AH08887	PFP-41	EPA 160.2	08/17/2004	9:30	10.0	1.92	mg/L	08/20/2004

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

Laboratory Narrative

CASE NARRATIVE

BLASLAND, BOUCK & LEE
GE Treatability Study
STL Lot # C4H180155

Sample Receiving:
STL Pittsburgh, PA received samples on August 18, 2004. The cooler was received within the proper temperature range.

Samples PFP-45 and PFP-41 were both marked for QC on the chain-of-custody. Only sample PFP-45 was received with additional volume for QC and was logged in for project specific QC.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

TCLP GC/MS Volatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use and average response factor curve if no visible improvement is accomplished using a quadratic curve. The curve plot is provided for any compound that required a "best-fit" evaluation.

TCLP GC/MS Semivolatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use and average response factor curve if no visible improvement is accomplished using a quadratic curve. The curve plot is provided for any compound that required a "best-fit" evaluation.

TCLP Pesticides:
There were no problems associated with the analysis.

TCLP Herbicides:
There were no problems associated with the analysis.

Metals:
Several samples were over the calibration range for mercury and were analyzed at a dilution.

The serial dilution percent difference was outside control limits for arsenic, calcium, vanadium and zinc.

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "J" qualifier.

Metals cont.:
For the matrix spike and matrix spike duplicate, mercury, aluminum, chromium, iron, lead and zinc recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

The matrix spike was below control limits for antimony and above control limits for manganese.

The duplicate digestion RPD was outside control limits for cadmium and thallium.

TCLP Metals:
The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike was below control limits for silver.

General Chemistry:
There were no problems associated with the analysis.

Sample Delivery Group Case Narrative

This sample delivery group consists of aqueous samples received on August 18, 2004 for analysis and includes assigned Sample Delivery Group Number: 04080116. The samples are from Project Name: G.E. Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH08883	PFP-45
AH08884	PFP-45-DUP
AH08885	PFP-45(T)
AH08886	PFP-45(D)
AH08887	PFP-41
AH08888	PFP-41(T)
AH08889	PFP-41(D)
AH08890	PFP-45(T)-DUP
AH08891	PFP-45(D)-DUP

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by GEHR Method 8082. The Continuous Liquid Liquid Extraction Method (EPA- Method 3520) was employed for the aqueous samples. The following technical and administrative items were noted for the analysis:

(1.) Concentration results for this SDG are reported to the Method Detection Limit as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan. Concentration results which are greater than the MDL but less than the Practical Quantitation Limit (PQL) are flagged (J) for this methodology.

(2.) Single Column Gas Chromatograph analysis was performed for all samples in this SDG as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan.

(3.) The TCMX and DCBP surrogate compounds were diluted out for several samples due to the high concentration of PCB contained in the samples. Please see Form 2F-1 for details.

(4.) The Matrix Spike/Matrix Spike Duplicate concentrations were diluted out for samples (NEA ID: AH08883M and AH08883K) due to the high concentration of PCB contained in the original sample.

(5.) The associated method blank sample (NEA ID: AH08883B) exhibited an Aroclor 1221 pattern at a concentration greater than the Practical Quantitation Limit. All associated positive sample concentration results were flagged (B) to denote the observed contamination.

Form –1 Qualifier Summary PCB Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Total Suspended Solids Analysis

Analysis for Total Suspended Solids was performed by EPA Methods 160.2 for the aqueous samples. The following technical and administrative items were noted for the analysis:

(1.) The initial Lab Control Spike Sample (NEA ID: AH08836LCS) was below lab-established limits due to sample preparation error. The secondary LCS sample (NEA ID: AH08840LCS) was within limits. analysis.

Total Organic Carbon Analysis

Analysis for Total Organic Carbon was performed by EPA Method 415.1 for the aqueous samples. The following technical and administrative items were noted for the analysis:

(1.) The Duplicate Relative Percent Difference exceeded lab-established limits for sample (NEA ID:AH08886-D) due to sample matrix variability.

Form – 1 Qualifier Summary TOC Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Respectfully submitted,

William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2004\091604C.doc

September 16, 2004

Sample Delivery Group Case Narrative

This sample delivery group consists of sediment samples received on August 18, 2004 for analysis and includes assigned Sample Delivery Group Number: 04080116. The samples are from Project Name: G.E. Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH08892	PFP-45
AH08893	PFP-45-DUP
AH08894	PFP-41

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by GEHR Method 8082. The Accelerated Solvent Extraction Method (GEHR- Method 3545) was employed for the sediment samples. The following technical and administrative items were noted for the analysis:

(1.) Concentration results for this SDG are reported to the Method Detection Limit as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan. Concentration results which are greater than the MDL but less than the Practical Quantitation Limit (PQL) are flagged (J) for this methodology.

(2.) Single Column Gas Chromatograph analysis was performed for all samples in this SDG as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan.

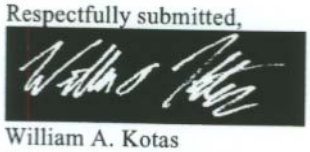
(3.) The TCMX and DCBP surrogate compounds were diluted out for several samples due to the high concentration of PCB contained in the samples. Please see Form 2F-1 for details.

(4.) The Matrix Spike Duplicate percent recovery was outside lab-established limits for sample (NEA ID: AH08892K) due to the high concentration of PCB contained in the sample relative to the PCB amount spiked into the sample. Please see Form 3F-1 for details.

Form – 1 Qualifier Summary PCB Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Respectfully submitted,



William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2004\091604D.doc

PARADIGM ANALYTICAL LABORATORIES, INC.

Case Narrative
Paradigm Project **G135-33**

For Method: 1613

- All of the samples submitted with this project required additional 2,3,7,8-TCDF confirmational analyses. These analyses have been performed and the data included with this data package.
- Dilution of the sample extracts was required in order to improve the chromatography and the quality of the data for many of the homologues. The data has been qualified with a "D*" where the "*" indicates the dilution level. Reported concentrations are adjusted.
- Data meet QA/QC requirements.

Craig R. Tronzo 8/27/04
Craig R. Tronzo Date
Data Reviewer

Secondary Review
W. Mike Larkins 27 Aug 2004 Or
W. Mike Larkins Date
Technical Director

Greg Dickinson Date
QA Officer

N.C. Certification #481 S.C. Certification #99029

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# C4I290224

METALS ANALYSES

Analyses performed by:

Severn Trent Laboratories
Pittsburgh, Pennsylvania

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# C4I290224 for sampling of the GE Hudson Treatability Study. Included with this assessment are the data review checklist 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				
				TCLP VOC	TCLP SVOC	TCLP PEST/ HERB	MET[1]	MISC
DRET2-01T-S1	C4I290224-001	Water	09/28/04				x	
DRET2-01D-S1	C4I290224-002	Water	09/28/04				x	
DRET2-02T-S1	C4I290224-003	Water	09/28/04				x	
DRET2-02D-S1	C4I290224-004	Water	09/28/04				x	
DRET2-03T-S1	C4I290224-005	Water	09/28/04				x	
DRET2-03D-S1	C4I290224-006	Water	09/28/04				x	
DRET2-01T-S2	C4I290224-007	Water	09/28/04				x	
DRET2-01D-S2	C4I290224-008	Water	09/28/04				x	
DRET2-02T-S2	C4I290224-009	Water	09/28/04				x	
DRET2-02D-S2	C4I290224-010	Water	09/28/04				x	
DRET2-03T-S2	C4I290224-011	Water	09/28/04				x	
DRET2-03D-S2	C4I290224-012	Water	09/28/04				x	

1 "T" in the sample ID indicates total metal analysis and "D" indicates dissolved metal analysis

METALS ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 6000/7000.

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 times for metals (except mercury) analyses is 180 days from date of collection. The holding time for mercury is 28 days from sample collection to analysis.

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

2. Blank Contamination

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

Several analytes were detected in the method blanks. Sample results less than the blank action level were qualified as non-detect for cobalt associated with samples DRET2-03D-S1, DRET2-01D-S2, DRET2-02D-2S and DRET2-03D-S2 and chromium associated with sample DRET2-03D-S1.

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 and all initial calibration verification standard recoveries were within acceptable limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within acceptable limits.

3.3 CRDL Standard

The CRDL and CRA standard recoveries were within the acceptable limits.

3.4 ICP Interference Control Sample

All ICS recoveries were within acceptable 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 (MS)

The MS recoveries were within control limits.

4.2 Laboratory Duplicate

The analysis between the original laboratory sample and the laboratory duplicate of mercury exhibited percent difference (%D) greater than the control limit. Detected sample results for mercury were qualified as estimated based on the deviation. All other analytes exhibited acceptable %Ds.

5. Field Duplicate

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

6. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

7. Serial Dilution

Several analytes associated with the serial dilution analysis exhibited %Ds greater than control limits. Sample results for cadmium, vanadium and zinc were qualified as estimated.

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.

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 specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Form I to IX			
Are all forms labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Are pH values listed?			X
pH for metals analyses <2 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Holding Times			
Were mercury analyses performed within 28 days?	X		
Were other metal analysis performed within 6 months?	X		

	YES	NO	NA
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results corrected for percent solids?	X		
Are all "less than IDL" values coded with "U"?	X		
Is a physical description of samples given on Form I's?		X	
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Is one calibration standard at the CRDL level for all AA (except Hg) analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a 2xCRDL standard (CRI) analyzed for each ICP run?	X		
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?		X	
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		

	YES	NO	NA
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each matrix?	X		
each batch of digested samples?	X		
Is concentration of prep. blank less than the CRDL?		X	
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?	X		
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?			X
Aqueous			
Are any spike recoveries:			
less than 30%?		X	

	YES	NO	NA
between 30-74%?		X	
between 126-150%?		X	
greater then 150%?		X	
Soil/Sediment			
Are any spike recoveries:			
less than 10%?			X
between 10-74%?			X
between 126-200%?			X
greater than 200%?			X
Form VI (Lab Duplicates)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference ≤ ±CRDL)?		X	
If no, are all results outside the control limits flagged with an * on Form I's and VI?	X		
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?	X		
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?			X
Field Duplicates			
Were field duplicates analyzed?		X	
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?			X

	YES	NO	NA
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?			X
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 50%?		X	
between 50% and 79%?		X	
between 121% and 150%?		X	
greater than 150%?		X	
Solid LCS			
Is LCS "Found" value higher than the control limits?			X
Is LCS "Found" lower than the control limits?			X
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
Was field blank(s) used for Serial Dilution Analysis?		X	
Are any required % difference values:			
> 10%?		X	
≥100%?		X	
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?			X
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X

	YES	NO	NA
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Were dilutions analyzed for samples with analytical spike recoveries less than 40%?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample?	X		
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?		X	
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	X		
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X

	YES	NO	NA
If yes for any of the above, was the sample diluted to obtain the result on Form I?	_____	_____	X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?	_____	_____	X
< 10%?	_____	_____	X

Corrected Sample Analysis Data Sheets

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-001
Date Sampled...: 09/28/04 Date Received..: 09/29/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	0.20 J	0.20	ug/L	MCAWW 245.1	10/01/04	GRD421A2
		Dilution Factor: 1		Analysis Time..: 10:10	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4278146						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AA
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	9720	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AC
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	3.8	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AD
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	174	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AE
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.56 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AF
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	11500	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AG
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	1.4	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AH
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	6.1	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AJ
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	52.1	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AK
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	33.8	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AL
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	12800	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AM
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3010	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AN
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	3550	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AP
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	389	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AQ
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8270	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AR
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	16.2	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD421AT
		Dilution Factor: 1		Analysis Time..: 13:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	56.0	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AU
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.52 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AV
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.14 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AW
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	0.83 B	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421AX
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	20.0	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD421A0
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	245	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD421A1
		Dilution Factor: 1		Analysis Time..: 13:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-002
Date Sampled...: 09/28/04 Date Received..: 09/29/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	ND	0.20	ug/L	MCAWW 245.1	10/01/04	GRD5A1A2
		Dilution Factor: 1		Analysis Time..: 10:26	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4276038						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AA
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	**800**	**30.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5A1AC**
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	**0.79 B**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5A1AD**
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	**31.8**	**10.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5A1AE**
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AF
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	**10200**	**100**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5A1AG**
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AH
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	**0.51 J**	**0.50**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5A1AJ**
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	5.5 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AK
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	4.3 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AL
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	901	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AM
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	888	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AN
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1670	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AP
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	76.6 J	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AQ
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8310	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AR
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	2.5	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD5A1AT
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	4.3	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AU
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AV
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AW
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	0.49 B	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1AX
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	2.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5A1A0
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	34.0 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD5A1A1
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-003
Date Sampled...: 09/28/04 Date Received..: 09/29/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	**0.29** J	**0.20**	**ug/L**	**MCAWW 245.1**	**10/01/04**	**GRD5F1AD**
		Dilution Factor: 1		Analysis Time..: 10:11	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4278146						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AE
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	**10400**	**30.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5F1AF**
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	**4.5**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5F1AG**
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	**176**	**10.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5F1AH**
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	**0.52 B**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5F1AJ**
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	**11000**	**100**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5F1AK**
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	**1.5**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5F1AL**
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	**6.8**	**0.50**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5F1AM**
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	57.8	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AN
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	34.8	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AP
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	14400	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AQ
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3080	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AR
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	3640	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AT
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	420	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AU
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7910	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AV
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	18.1	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD5F1AW
		Dilution Factor: 1		Analysis Time..: 13:43	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	58.8	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AX
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.42 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1A0
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.12 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1A1
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	0.75 B	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1A2
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	22.0	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5F1AA
		Dilution Factor: 1		Analysis Time..: 20:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	257	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD5F1AC
		Dilution Factor: 1		Analysis Time..: 13:43	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-004
Date Sampled...: 09/28/04 Date Received..: 09/29/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	ND	0.20	ug/L	MCAWW 245.1	10/01/04	GRD5K1AD
		Dilution Factor: 1		Analysis Time..: 10:28	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4276038						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AF
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	**612**	**30.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5K1AG**
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	**1.1**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5K1AH**
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	**25.7**	**10.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5K1AJ**
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AK
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	**9600**	**100**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5K1AL**
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AM
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	**0.44 B,J**	**0.50**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5K1AN**
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	4.1 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AP
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	3.5 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AQ
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	746	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AR
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	814	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AT
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1570	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AU
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	75.0 J	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AV
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7870	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1AW
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	2.0	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD5K1AX
		Dilution Factor: 1		Analysis Time..: 12:52	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	3.6	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1A0
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1A1
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5K1A2
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	**0.42 B**	**2.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5K1A3**
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	**2.0**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5K1AA**
		Dilution Factor: 1		Analysis Time..: 19:27	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	**28.3 J**	**5.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/27/04**	**GRD5K1AC**
		Dilution Factor: 1		Analysis Time..: 12:52	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-005
Date Sampled...: 09/28/04 Date Received..: 09/29/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	0.22 J	0.20	ug/L	MCAWW 245.1	10/01/04	GRD5Q1AD
		Dilution Factor: 1		Analysis Time..: 10:13	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4278146						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AE
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	9440	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AF
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	3.7	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AG
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	168	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AH
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.49 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AJ
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	10600	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AK
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	1.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AL
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	5.9	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AM
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-005

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	56.8	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AN
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	30.2	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AP
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	12400	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AQ
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2950	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AR
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	3340	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AT
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	370	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AU
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7650	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AV
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	18.8	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD5Q1AW
		Dilution Factor: 1		Analysis Time..: 13:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	50.5	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AX
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1A0
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S1

TOTAL Metals

Lot-Sample #...: C4I290224-005

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.10 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1A1
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	0.70 B	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1A2
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	20.4	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5Q1AA
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	224	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD5Q1AC
		Dilution Factor: 1		Analysis Time..: 13:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-006
Date Sampled...: 09/28/04 **Date Received..:** 09/29/04 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	ND	0.20	ug/L	MCAWW 245.1	10/01/04	GRD5T1AD
		Dilution Factor: 1		Analysis Time..: 10:30	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4276038						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AF
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	**81.3**	**30.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5T1AG**
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	**0.70 B**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5T1AH**
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	**15.5**	**10.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5T1AJ**
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AK
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	**9530**	**100**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5T1AL**
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AM
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	~~**0.19 B,J**~~ ND	**0.50**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5T1AN**
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	ND ~~1.9 B,J~~	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AP
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	2.2 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AQ
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	162	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AR
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	593	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AT
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1470	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AU
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	75.6 J	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AV
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7750	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AW
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.6	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD5T1AX
		Dilution Factor: 1		Analysis Time..: 12:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	1.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1A0
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1A1
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S1

DISSOLVED Metals

Lot-Sample #...: C4I290224-006

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1A2
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	**0.42 B**	**2.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD5T1A3**
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD5T1AA
		Dilution Factor: 1		Analysis Time..: 19:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	**19.6 J**	**5.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/27/04**	**GRD5T1AC**
		Dilution Factor: 1		Analysis Time..: 12:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-007
Date Sampled...: 09/28/04 Date Received..: 09/29/04
Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	2.8 J	0.20	ug/L	MCAWW 245.1	10/01/04	GRD511AD
		Dilution Factor: 1		Analysis Time..: 10:18	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4278146						
Silver	0.40 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AE
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	11500	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AF
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	2.8	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AG
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	146	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AH
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.44 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AJ
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	10600	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AK
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	21.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AL
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	4.4	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AM
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	324	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AN
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	51.1	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AP
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	10100	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AQ
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2270	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AR
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	3410	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AT
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	147	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AU
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8050	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AV
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	12.6	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD511AW
		Dilution Factor: 1		Analysis Time..: 13:52	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	368	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AX
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.48 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511A0
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.098 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511A1
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	7.0	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511A2
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	39.6	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD511AA
		Dilution Factor: 1		Analysis Time..: 20:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	311	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD511AC
		Dilution Factor: 1		Analysis Time..: 13:52	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S2

DISSOLVED Metals

Lot-Sample #...: C4I290224-008 Matrix.....: WATER
Date Sampled...: 09/28/04 Date Received..: 09/29/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	ND	0.20	ug/L	MCAWW 245.1	10/01/04	GRD561AD
		Dilution Factor: 1		Analysis Time..: 10:34	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4276038						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AF
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	**142**	**30.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD561AG**
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	**1.1**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD561AH**
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	**33.0**	**10.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD561AJ**
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AK
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	**9180**	**100**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD561AL**
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	**0.32 B**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD561AM**
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	~~**0.11 B,J**~~ ND	**0.50**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD561AN**
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S2

DISSOLVED Metals

Lot-Sample #...: C4I290224-008 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	7.1 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AP
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	2.2 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AQ
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	271	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AR
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	631	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AT
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1530	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AU
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	25.8 J	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AV
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8030	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AW
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	0.80 B	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD561AX
		Dilution Factor: 1		Analysis Time..: 13:01	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	16.8	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561A0
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561A1
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S2

DISSOLVED Metals

Lot-Sample #...: C4I290224-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561A2
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	5.6	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561A3
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	4.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD561AA
		Dilution Factor: 1		Analysis Time..: 19:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	10.3 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD561AC
		Dilution Factor: 1		Analysis Time..: 13:01	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-009
Date Sampled...: 09/28/04 Date Received..: 09/29/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	3.6 J	0.20	ug/L	MCAWW 245.1	10/01/04	GRD6A1AD
		Dilution Factor: 1		Analysis Time..: 10:23	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4278146						
Silver	0.53 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AE
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	14100	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AF
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	3.7	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AG
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	181	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AH
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.48 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AJ
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	11100	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AK
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	29.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AL
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	5.7	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AM
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-009 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	425	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AN
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	64.2	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AP
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	13100	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AQ
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2450	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AR
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	3940	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AT
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	189	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AU
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8390	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AV
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	15.9	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD6A1AW
		Dilution Factor: 1		Analysis Time..: 13:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	496	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AX
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.52 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1A0
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-009

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.12 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1A1
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	9.0	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1A2
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	52.5	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6A1AA
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	389	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD6A1AC
		Dilution Factor: 1		Analysis Time..: 13:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S2

DISSOLVED Metals

Lot-Sample #...: C4I290224-010
Date Sampled...: 09/28/04 Date Received..: 09/29/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	ND	0.20	ug/L	MCAWW 245.1	10/01/04	GRD6M1AD
		Dilution Factor: 1		Analysis Time..: 10:36	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4276038						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AF
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	**162**	**30.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD6M1AG**
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	**1.2**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD6M1AH**
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	**34.0**	**10.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD6M1AJ**
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AK
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	**8310**	**100**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD6M1AL**
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	**0.24 B**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD6M1AM**
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	~~**0.11 B,J**~~ ND	**0.50**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD6M1AN**
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S2

DISSOLVED Metals

Lot-Sample #...: C4I290224-010

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	8.8 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AP
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	3.4 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AQ
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	384	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AR
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	628	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AT
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1410	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AU
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	36.5 J	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AV
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7570	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AW
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	0.96 B	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD6M1AX
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	17.4	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1A0
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1A1
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S2

DISSOLVED Metals

Lot-Sample #...: C4I290224-010

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1A2
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	6.8	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1A3
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	2.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6M1AA
		Dilution Factor: 1		Analysis Time..: 19:40	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	15.5 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD6M1AC
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-011
Date Sampled...: 09/28/04 Date Received..: 09/29/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	2.7 J	0.20	ug/L	MCAWW 245.1	10/01/04	GRD6Q1AD
		Dilution Factor: 1		Analysis Time..: 10:25	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4278146						
Silver	0.37 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AE
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	11000	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AF
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	3.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AG
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	143	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AH
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.37 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AJ
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	10900	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AK
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	21.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AL
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	4.3	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AM
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-011

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	320	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AN
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	49.3	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AP
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	9780	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AQ
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2110	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AR
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	3360	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AT
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	144	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AU
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8100	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AV
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	12.9	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD6Q1AW
		Dilution Factor: 1		Analysis Time..: 14:01	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	367	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AX
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.44 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1A0
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S2

TOTAL Metals

Lot-Sample #...: C4I290224-011

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.085 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1A1
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	7.0	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1A2
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	41.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD6Q1AA
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	298	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD6Q1AC
		Dilution Factor: 1		Analysis Time..: 14:01	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S2

DISSOLVED Metals

Lot-Sample #...: C4I290224-012 Matrix.....: WATER
Date Sampled...: 09/28/04 Date Received..: 09/29/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4275012						
Mercury	ND	0.20	ug/L	MCAWW 245.1	10/01/04	GRD601AD
		Dilution Factor: 1		Analysis Time..: 10:38	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4275004	MDL.....: 0.047	
Prep Batch #...: 4276038						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AF
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	**129**	**30.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD601AG**
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	**1.1**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD601AH**
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	**30.7**	**10.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD601AJ**
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AK
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	**8560**	**100**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD601AL**
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	**0.15 B**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD601AM**
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	~~**0.094 B,J**~~ ND	**0.50**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRD601AN**
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S2

DISSOLVED Metals

Lot-Sample #...: C4I290224-012

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	6.7 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AP
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	2.1 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AQ
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	249	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AR
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	596	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AT
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1440	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AU
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	32.4 J	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AV
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7530	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AW
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	0.73 B	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD601AX
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	15.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601A0
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601A1
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S2

DISSOLVED Metals

Matrix.....: WATER

Lot-Sample #...: C4I290224-012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601A2
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	5.2	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601A3
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	2.7	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRD601AA
		Dilution Factor: 1		Analysis Time..: 19:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	9.5 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRD601AC
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Laboratory Narrative

CASE NARRATIVE

BLASLAND, BOUCK & LEE

STL Lot # C4I290224

Sample Receiving:
STL Pittsburgh, PA received samples on September 29, 2004. The cooler was received within the proper temperature range.

The dissolved metals samples were filtered and preserved upon receipt at the laboratory.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

Metals:
The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The RPD for mercury between the sample and it's duplicate was outside QC limits.

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# C4I300242

METALS ANALYSES

Analyses performed by:

Severn Trent Laboratories
Pittsburgh, Pennsylvania

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# C4I300242 for sampling of the GE Hudson Treatability Study. 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				
				TCLP VOC	TCLP SVOC	TCLP PEST/ HERB	MET[1]	MISC
DRET2-01T-S3	C4I300242-001	Water	09/29/04				x	
DRET2-01D-S3	C4I300242-002	Water	09/29/04				x	
DRET2-02T-S3	C4I300242-003	Water	09/29/04				x	
DRET2-02D-S3	C4I300242-004	Water	09/29/04				x	
DRET2-03T-S3	C4I300242-005	Water	09/29/04				x	
DRET2-03D-S3	C4I300242-006	Water	09/29/04				x	
DRET2-01T-S4B	C4I300242-007	Water	09/29/04				x	
DRET2-01D-S4B	C4I300242-008	Water	09/29/04				x	
DRET2-02T-S4B	C4I300242-009	Water	09/29/04				x	
DRET2-02D-S4B	C4I300242-010	Water	09/29/04				x	
DRET2-03T-S4B	C4I300242-011	Water	09/29/04				x	
DRET2-03D-S4B	C4I300242-012	Water	09/29/04				x	

1 "T" in the sample ID indicates total metal analysis and "D" indicates dissolved metal analsysis.

METALS ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 6000/7000.

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 times for metals (except mercury) analyses is 180 days from date of collection. The holding time for mercury is 28 days from sample collection to analysis.

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

2. Blank Contamination

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

Several analytes were detected in the method blanks. Sample results less than the blank action level were qualified as non-detect for cobalt associated with samples DRET2-03D-S1, DRET2-01D-S2, DRET2-02D-2S and DRET2-03D-S2 and chromium associated with sample DRET2-03D-S1.

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 and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within the acceptable limits.

3.3 CRDL Standard

The CRDL and CRA standard recoveries were within the acceptable limits.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable with the exception of chromium which was above the control limit.

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 (MS)

The MS recoveries were within control limits.

4.2 Laboratory Duplicate

The laboratory duplicate result for mercury was above the control limit. Positive data for mercury were qualified as estimated based on the deviation.

5. Field Duplicate

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

6. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

7. Serial Dilution

The serial dilution results associated with the analytes copper and zinc exhibited %Ds greater than the control limits. Based on the deviations, data were qualified as estimated for total copper and total zinc.

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.

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 specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Form I to IX			
Are all forms labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Are pH values listed?			X
pH for metals analyses <2 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Holding Times			
Were mercury analyses performed within 28 days?	X		

	YES	NO	NA
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results corrected for percent solids?	X		
Are all "less than IDL" values coded with "U"?	X		
Is a physical description of samples given on Form I's?		X	
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Is one calibration standard at the CRDL level for all AA (except Hg) analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a 2xCRDL standard (CRI) analyzed for each ICP run?	X		
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?		X	
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		

	YES	NO	NA
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each matrix?	X		
each batch of digested samples?	X		
Is concentration of prep. blank less than the CRDL?		X	
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?		X	
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?	X		
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?			X

	YES	NO	NA
Aqueous			
Are any spike recoveries:			
less than 30%?		X	
between 30-74%?		X	
between 126-150%?		X	
greater then 150%?		X	
Soil/Sediment			
Are any spike recoveries:			
less than 10%?			X
between 10-74%?			X
between 126-200%?			X
greater than 200%?			X
Form VI (Lab Duplicates)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?	X		
If no, are all results outside the control limits flagged with an * on Form I's and VI?			X
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?		X	
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?		X	
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?			X
Field Duplicates			
Were field duplicates analyzed?		X	

	YES	NO	NA
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?			X
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 50%?		X	
between 50% and 79%?		X	
between 121% and 150%?		X	
greater than 150%?		X	
Solid LCS			
Is LCS "Found" value higher than the control limits?			X
Is LCS "Found" lower than the control limits?			X
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
Was field blank(s) used for Serial Dilution Analysis?		X	
Are any required % difference values:			
> 10%?	X		
≥100%?		X	
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?	X		
Furnace Atomic Absorption (AA) QC Analysis			

	YES	NO	NA
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Were dilutions analyzed for samples with analytical spike recoveries less than 40%?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample?	X		
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?		X	
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	X		
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument			X

	YES	NO	NA
whose IDL exceeds CRDL, greater than 5xIDL.			
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?			X
< 10%?			X

Corrected Sample Analysis Data Sheets

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-001
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4278138						
Silver	0.70 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AA
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	24000	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AC
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.3	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AD
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	261	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AE
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	1.0	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AF
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	13600	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AG
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	26.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AH
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	9.9	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AJ
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	365 ~~J~~	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AK
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	70.7 ~~E~~ 5	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AL
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	23800	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AM
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3140	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AN
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	6090	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AP
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	342	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AQ
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8940	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AR
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	24.6	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHCR1AT
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	469	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AU
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	1.1 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AV
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	0.22 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AW
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	7.4	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1AX
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	61.3	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCR1A0
		Dilution Factor: 1		Analysis Time..: 21:54	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	468 ~~E~~ J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHCR1A1
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4287017						
Mercury	2.9	0.20	ug/L	MCAWW 245.1	10/13/04	GRHCR1A2
		Dilution Factor: 1		Analysis Time..: 10:11	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-002
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4276039						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AA
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	765	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AC
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	1.8	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AD
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	30.2	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AE
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AF
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	8370	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AG
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.77 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AH
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.40 B	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AJ
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	16.6 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AK
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	9.0	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AL
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	873	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AM
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	734	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AN
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1580	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AP
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	48.7	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AQ
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8290	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AR
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.4	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHCX1AT
		Dilution Factor: 1		Analysis Time..: 14:18	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	22.0	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AU
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AV
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AW
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	5.4	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1AX
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	3.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHCX1A0
		Dilution Factor: 1		Analysis Time..: 21:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	28.9	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHCX1A1
		Dilution Factor: 1		Analysis Time..: 14:18	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	ND	0.20	ug/L	MCAWW 245.1	10/13/04	GRHCX1A2
		Dilution Factor: 1		Analysis Time..: 10:23	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-003
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4278138						
Silver	0.65 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AE
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	22100	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AF
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.4	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AG
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	239	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AH
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.92 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AJ
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	12700	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AK
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	23.7	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AL
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	9.3	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AM
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	342 ~~J~~	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AN
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	66.2 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AP
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	22200	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AQ
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2880	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AR
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5660	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AT
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	318	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AU
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8190	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AV
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	22.3	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHC71AW
		Dilution Factor: 1		Analysis Time..: 15:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	434	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AX
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.77 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71A0
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	0.18 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71A1
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	6.7	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71A2
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	57.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHC71AA
		Dilution Factor: 1		Analysis Time..: 22:02	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	436 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHC71AC
		Dilution Factor: 1		Analysis Time..: 15:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	2.9	0.20	ug/L	MCAWW 245.1	10/13/04	GRHC71AD
		Dilution Factor: 1		Analysis Time..: 10:12	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-004
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4276039						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AF
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	2020	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AG
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	2.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AH
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	42.7	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AJ
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.075 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AK
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	8370	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AL
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	2.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AM
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.93	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AN
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	37.6 ~~J~~	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AP
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	11.4	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AQ
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	2150	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AR
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	862	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AT
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1750	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AU
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	58.7	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AV
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8060	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AW
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	2.7	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDC1AX
		Dilution Factor: 1		Analysis Time..: 14:34	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	47.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1A0
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1A1
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1A2
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	5.3	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1A3
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	3.9	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDC1AA
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	55.7	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDC1AC
		Dilution Factor: 1		Analysis Time..: 14:34	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	0.30	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDC1AD
		Dilution Factor: 1		Analysis Time..: 10:24	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-005
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4278138						
Silver	0.72 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AE
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	24900	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AF
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.8	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AG
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	270	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AH
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.99 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AJ
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	14300	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AK
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	27.0	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AL
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	10.3	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AM
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	378 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AN
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-005

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	73.5 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AP
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	24600	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AQ
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3170	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AR
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	6300	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AT
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	352	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AU
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8890	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AV
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	24.9	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDF1AW
		Dilution Factor: 1		Analysis Time..: 15:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	493	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AX
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	1.0 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1A0
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	0.19 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1A1
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S3

TOTAL Metals

Lot-Sample #...: C4I300242-005

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	7.5	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1A2
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	62.6	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDF1AA
		Dilution Factor: 1		Analysis Time..: 22:07	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	485 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDF1AC
		Dilution Factor: 1		Analysis Time..: 15:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	3.0	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDF1AD
		Dilution Factor: 1		Analysis Time..: 10:13	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-006
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4276039						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AF
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	987	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AG
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	1.7	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AH
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	30.5	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AJ
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AK
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	7780	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AL
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	1.0	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AM
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.49 B	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AN
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	20.9 ~~J~~	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AP
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-006

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	5.4	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AQ
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	1080	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AR
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	733	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AT
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1550	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AU
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	48.9	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AV
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7920	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AW
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.7	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDG1AX
		Dilution Factor: 1		Analysis Time..: 14:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	25.3	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1A0
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1A1
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1A2
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S3

DISSOLVED Metals

Lot-Sample #...: C4I300242-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	5.1	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1A3
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	2.5	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDG1AA
		Dilution Factor: 1		Analysis Time..: 21:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	26.5	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDG1AC
		Dilution Factor: 1		Analysis Time..: 14:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	0.12 B	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDG1AD
		Dilution Factor: 1		Analysis Time..: 10:29	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-007
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4278138						
Silver	1.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AE
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	19000	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AF
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.3	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AG
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	184	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AH
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.70 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AJ
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	13800	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AK
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	51.9	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AL
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	7.1	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AM
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	600 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AN
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	83.5 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AP
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	17800	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AQ
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2730	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AR
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	4660	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AT
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	232	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AU
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8400	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AV
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	19.3	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDH1AW
		Dilution Factor: 1		Analysis Time..: 15:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	797	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AX
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	1.1 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1A0
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	0.16 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1A1
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	14.8	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1A2
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	65.8	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDH1AA
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	619 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDH1AC
		Dilution Factor: 1		Analysis Time..: 15:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4287017						
Mercury	6.4	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDH1AD
		Dilution Factor: 1		Analysis Time..: 10:15	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-008
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4276039						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AF
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	153	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AG
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.97 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AH
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	23.2	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AJ
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AK
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	9130	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AL
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.35 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AM
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.088 B	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AN
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	8.5 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AP
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-008 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.4	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AQ
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	281	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AR
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	623	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AT
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1270	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AU
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	16.3	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AV
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7770	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AW
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.1	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDJ1AX
		Dilution Factor: 1		Analysis Time..: 14:43	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	16.2	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1A0
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1A1
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1A2
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-01D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	11.4	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1A3
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	0.82 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDJ1AA
		Dilution Factor: 1		Analysis Time..: 21:19	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	10.7	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDJ1AC
		Dilution Factor: 1		Analysis Time..: 14:43	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	ND	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDJ1AD
		Dilution Factor: 1		Analysis Time..: 10:31	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-009
Date Sampled...: 09/29/04 Date Received..: 09/30/04
Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4278138						
Silver	1.1	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AE
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	19000	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AF
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.5	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AG
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	187	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AH
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.61 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AJ
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	15000	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AK
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	53.3	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AL
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	7.3	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AM
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	614 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AN
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-009 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	86.4 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AP
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	18100	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AQ
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2740	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AR
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	4800	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AT
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	241	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AU
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8760	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AV
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	20.1	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDK1AW
		Dilution Factor: 1		Analysis Time..: 15:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	813	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AX
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	1.1 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1A0
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	0.16 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1A1
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-009

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	15.1	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1A2
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	67.3	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDK1AA
		Dilution Factor: 1		Analysis Time..: 22:15	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	641 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDK1AC
		Dilution Factor: 1		Analysis Time..: 15:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	6.4	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDK1AD
		Dilution Factor: 1		Analysis Time..: 10:19	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-010
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4276039						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AF
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	142	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AG
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	1.5	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AH
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	23.1	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AJ
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AK
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	9330	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AL
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.38 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AM
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.097 B	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AN
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	8.4 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AP
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-010 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.6	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AQ
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	295	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AR
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	630	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AT
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1290	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AU
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	12.7	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AV
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7910	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1AW
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	0.60 B	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDL1AX
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	16.4	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1A0
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1A1
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDL1A2
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-02D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-010

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	**11.6**	**2.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRHDL1A3**
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	**0.79 B**	**1.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/24/04**	**GRHDL1AA**
		Dilution Factor: 1		Analysis Time..: 21:24	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	**11.3**	**5.0**	**ug/L**	**MCAWW 200.8**	**10/04-10/27/04**	**GRHDL1AC**
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	ND	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDL1AD
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-011
Date Sampled...: 09/29/04 Date Received..: 09/30/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4278138						
Silver	1.3	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AE
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	21100	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AF
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.9	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AG
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	202	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AH
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.78 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AJ
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	15300	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AK
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	61.9	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AL
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	8.1	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AM
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	686 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AN
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-011 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	94.2 J	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AP
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	20300	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AQ
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2830	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AR
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5080	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AT
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	267	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AU
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8840	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AV
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	21.9	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDP1AW
		Dilution Factor: 1		Analysis Time..: 15:43	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	932	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1AX
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	1.0 B	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1A0
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	0.16 B	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1A1
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03T-S4B

TOTAL Metals

Lot-Sample #...: C4I300242-011

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	16.4	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDP1A2
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Zinc	712 J	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDP1AC
		Dilution Factor: 1		Analysis Time..: 15:43	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4287017						
Mercury	7.3	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDP1AD
		Dilution Factor: 1		Analysis Time..: 10:21	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-012 Matrix.....: WATER
Date Sampled...: 09/29/04 Date Received..: 09/30/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4276039						
Silver	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AF
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	777	30.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AG
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	1.5	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AH
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	29.9	10.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AJ
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AK
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	9380	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AL
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	1.9	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AM
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.34 B	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AN
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	29.5 ~~J~~	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AP
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-012 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	6.6	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AQ
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	831	50.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AR
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	766	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AT
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1350	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AU
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	22.5	0.50	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AV
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	7850	100	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AW
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.4	1.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDT1AX
		Dilution Factor: 1		Analysis Time..: 14:52	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	41.5	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1A0
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1A1
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1A2
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

Blasland, Bouck & Lee, Inc. (BBL)

Client Sample ID: DRET2-03D-S4B

DISSOLVED Metals

Lot-Sample #...: C4I300242-012

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	13.3	2.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1A3
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	1.6	1.0	ug/L	MCAWW 200.8	10/04-10/24/04	GRHDT1AA
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	31.9	5.0	ug/L	MCAWW 200.8	10/04-10/27/04	GRHDT1AC
		Dilution Factor: 1		Analysis Time..: 14:52	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4287017

Mercury	0.27	0.20	ug/L	MCAWW 245.1	10/13/04	GRHDT1AD
		Dilution Factor: 1		Analysis Time..: 10:37	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4287027	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Laboratory Narrative

CASE NARRATIVE

BLASLAND, BOUCK & LEE

STL Lot # C4I300242

Sample Receiving:
STL Pittsburgh, PA received samples on September 30, 2004. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

Metals:
The serial dilution of sample DRET2-01T-S3 was outside of the percent difference control limits for copper and zinc. The results were flagged with an "E" qualifier.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# C4H100107, 04080067 and G135-30

Volatile, Semi-volatile, PCB, Pesticide,
Dioxins, Metals and Miscellaneous Analyses

Analyses performed by:

Severn Trent Laboratories
Pittsburgh, Pennsylvania

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# C4H100107, 04080067 and G135-30 for sampling of the GE Hudson Treatability Study. Included with this assessment are the data review checklists 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						
				TCLP VOC	TCLP SVOC	DIOXIN	PCB	TCLP PEST/ HERB	MET[1]	MISC
PFP-28-CAKE	C4H100107-001 AH08559 G135-30-1C	Solid	08/09/04	x	x	x	x	x	x	
PFP-28-CAKE-DUP	C4H100107-002 AH08560 G135-30-2D	Solid	08/09/04	x	x	x	x	x	x	
PFP-28-Filtrate (U)	AH08553	Water	08/09/04							x[2]
PFP-25-Filtrate (F)	AH08554	Water	08/09/04							x[2]
PFP-28-Flitrate-DUPA	AH08555	Water	08/09/04							x[2]
PFP-28-Filtrate-DUPB	AH08556	Water	08/09/04							x[2]
PFP-28-Filtrate	AH08557	Water	08/09/04				x			x[3]
PFP-25-Filtrate-DUP	AH08558	Water	08/09/04				x			x[3]

1 Metals analyses include total and TCLP metals.
2 Miscellaneous parameters include Total Organic Carbon (TOC).
3 Miscellaneous parameters include Total Suspended Solids (TSS).

Note: PCB, TOC and TSS analyses were performed by Northeast Analytical Laboratories of Schenectady, NY and Dioxin analyses were performed by Paradigm Laboratories of Wilmington, NC.

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260.

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 TCLP volatile analyses is 14 days from sample collection to TCLP extraction and 14 days from TCLP extraction to analysis.

All samples were extracted and analyzed within the 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. Rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the method blank.

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 15% for all compounds with the exception of 2-butanone. Data for 2-butanone were qualified as estimated based on the deviation.

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 continuing calibration %D was within acceptable limits for all compounds.

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.

No target compounds were identified in the samples.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method.

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

9. Laboratory Control Sample

The laboratory control sample recoveries were within control limits.

10. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-28-Cake TCLP / PFP-28-Cake-DUP TCLP	ALL	ND	ND	NA

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

Duplicate results are acceptable.

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 listed in the analytical method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

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

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

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are continuing calibration forms present for each day and instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	X		
Are all %D within acceptable limits?	X		
Are the average RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*			Internal Standards*			
		TOL	BFB	DBF	PBF	DFB	CBZ	DCB
PFP-28-Cake								
PFP-28-Cake-DUP								

Surrogates:
TOL Toluene-d8
BFB Bromofluorobenzene
DBF Dibromofluoromethane

Internal Standards:
PFB Pentafluorobenzene
DFB 1,4-Difluorobenzene
CBZ Chlorobenzene-d5
DCB 1,4-Dichlorobenzene-d4

Qualifiers:
D Diluted
↑ Recovery high
↓ Recovery low
↓↓ Recovery <25%

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

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270.

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 holding times for TCLP semivolatile analyses is 14 days from collection to TCLP extraction, 14 days from TCLP extraction to preparation and 40 days from TCLP extraction to analysis.

All samples were extracted beyond the holding time. Data were qualified as estimated based on the holding time violation.

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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the 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 within the 15% control limit for all target compounds with the exception of 2,4,5-trichlorophenol. Sample results were qualified as estimated for 2,4,5-trichlorophenol based on the deviation.

4.2 Continuing Calibration

The response for all target compounds in the continuing calibration standards were within 20% difference (%D) of the initial calibration.

5. Surrogates / System Monitoring Compounds

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

All surrogate recoveries were within control limits.

6. Internal Standard Performance

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

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

7. Compound Identification

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

No target compounds were identified in the samples.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method.

All MS/MSD recoveries were within control limits. The compounds 2,4,5-trichlorophenol and 2,4,6-trichlorophenol exhibited a relative percent difference between recoveries greater than the control limits. The MS/MSD was performed on a non-site sample; therefore, no sample results were qualified based on the deviations.

9. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

10. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-28-Cake TCLP / PFP-28-Cake-DUP TCLP	All	ND	ND	NA

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

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 Checklist

Semi-volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?	X		
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 66			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
2 out of 33			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		
Do any method blanks have positive results?		X	

4617

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
Are field/rinse blanks associated with every sample?		X	
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for DFTPP?	X		
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	X		
Has a DFTPP been analyzed for each twelve hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?			X
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	

	YES	NO	NA
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
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 ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Semi-volatile Qualifier Summary

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		2FP	PHL	NBZ	FBP	TBP	TPH	2CP	DCB	DCB	NPT	ANT	PHN	CRY	PRY
PFP-28-Cake	+4							--	--						
PFP-28-Cake-DUP	+4							--	--						

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
↓↓ Response <25%

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

PCDD/PCDF ANALYSES

Introduction

Analyses were performed according to the USEPA Method 1613.

The data review process is intended to evaluate the data on a technical basis. 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 qualifiers:

ND	The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
EMPC	The "estimated maximum possible concentration" is reported when GC/MS signals eluting within the established retention time window have a signal-to-noise ratio in excess of 2.5 but do not meet the ion abundance ratio criteria.

Quantitation qualifiers:

B	The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
S	The compound has exceeded the normal dynamic range.
PR	The reported concentration may be overestimated due to a poorly resolved GC peak.
U	The reported concentration may be underestimated due to the presence of a large closely eluting peak.
E	The reported concentration is based on an analyte to internal standard ratio which exceeds the range of the calibration curve. The value should be considered estimated only.

Validation qualifiers:

J	The compound was positively identified; however, the associated numerical value is an estimated concentration only.
R	The sample results are rejected.

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

Data Assessment

1. Holding Time

The method-specified holding times for PCDD/PCDF analysis of samples are 30 days from sample collection to extraction and 45 days from collection to analysis.

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

2. Blank Contamination

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

The compound 2,3,4,6,7,8-HxCDF was detected in the method blank. Data for 2,3,4,6,7,8-HxCDF was qualified as non-detect in sample PFP-28-Cake based on the method blank content.

3. Mass Spectrometer Resolution Check

Resolution 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 percent relative standard deviation (%RSD) was less than 15% for all non-labeled compounds (targets) and less than 20% for all labeled compounds (internal standards and recovery standards). All isotope abundance ratios were within the defined limits.

4.2 Continuing Calibration

All continuing calibration target standards were within the 20% percent difference (%D) of the initial calibration.

5. Recovery Standard Performance

All samples to be analyzed for PCDD/PCDF compounds are spiked with recovery standard prior to injection. The concentrations of all the labeled standards (internal standards) are determined by using the recovery standard.

All recovery standard isotopic ratios were acceptable.

6. Internal Standard Performance and Recovery

All samples to be analyzed for PCDD/PCDF compounds are spiked with internal standards prior to extraction, which eliminates the need to correct quantitative data for extraction efficiency.

Recovery for internal standards were within the acceptable control limits

7. Compound Identification

PCDD/PCDF compounds are identified by using the compound’s ion abundance ratios, signal-to-noise values, and relative retention times.

An EMPC or "estimated maximum possible concentration" designation is given to compounds which have signals eluting within the established retention time window which would, if positively identified, above the detection limit. The signals do not, however, meet the ion abundance ratio criteria and cannot be identified as the compound of interest. The EMPC value is the estimated concentration of the interferant quantitated "as" the compound of interest. This value should be considered an elevated detection limit based on potential compound identification and quantitation interference.

All identified compounds met method criteria.

8. Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)

Although not required by the method, matrix spike and matrix spike duplicates can be analyzed to provide an additional assessment of the precision and accuracy of the analytical method.

No MS/MSD samples were submitted with this SDG. The laboratory control sample recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-28-Cake / PFP-28-Cake-DUP	1,2,3,7,8-PeCDD	0.956	ND	NA
	1,2,3,4,7,8-HxCDD	2.09	ND	NA
	1,2,3,6,7,8-HxCDD	4.27	11.8	93.7%
	1,2,3,7,8,9-HxCDD	13.8	6.9	66.6%
	1,2,3,4,6,7,8-HpCDD	181	390	73.2%
	OCDD	2560	7080	93.7%
	2,3,7,8-TCDF	0.451	27.0	193.7%
	1,2,3,7,8-PeCDF	0.154	2.42	176.0%
	2,3,4,7,8-PeCDF	0.209	9.45	191.3%
	1,2,3,4,7,8-HxCDF	0.333	6.01	179.0%
	1,2,3,6,7,8-HxCDF	0.338	4.19	170.1%
	2,3,4,6,7,8-HxCDF	ND	4.12	NA
	1,2,3,7,8,9-HxCDF	ND	ND	NA
	1,2,3,4,6,7,8-HpCDF	3.26	105	187.9%
	1,2,3,4,7,8,9-HpCDF	0.242	6.96	186.5%
	OCDF	3.82	293	194.8%
	Total TCDDs	46.1	2.55	179.0%
	Total PeCdds	85.1	32.8	88.7%
	Total HxCDDs	468	169	93.8%
	Total HpCDDs	727	1070	38.1%
	Total TCDFs	2.34	108	191.5%
	Total PeCDFs	2.32	64.5	186.1%
	Total HxCDFs	4.33	112	185.1%
	Total HpCDFs	6.46	356	192.8%

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

Duplicate results are unacceptable. Data were qualified as estimated for all compounds with an RPD value greater than 100%

10. System Performance and Overall Assessment

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

Data Validation Checklist

PCDD/PCDF Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the samples numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Internal Standard Performance			
Was internal standard data submitted?	X		
Was one or more internal standard recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Was one or more ion abundance ratio or retention time outside control limits?		X	
Recovery Standard Performance			
Was recovery standard data submitted?	X		
Was one or more ion abundance ratio or retention time outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Matrix Spikes			
Is there matrix spike recovery data submitted?		X	
Were matrix spikes analyzed at the required frequency?			X
Were any spike recoveries outside control limits?			X
Blanks			
Is the method blank data submitted?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Is the chromatographic performance acceptable for each instrument?	X		
Do any method/reagent/instrument blanks have positive results?	X		
Are field/equipment blanks associated with every sample?		X	

	YES	NO	NA
Do any field/equipment blanks have positive results?			X
Mass Spectrometer Resolution			
Are the GC/MS resolution check data submitted?	X		
Was the resolution acceptable?	X		
Target Analytes			
Is a PCDD/PCDF analysis results sheet present for each of the following:			
Samples	X		
Matrix spikes			X
Blanks	X		
Are the selected ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes			X
Blanks	X		
Is the chromatographic performance acceptable with respect to:			
Baseline stability	X		
Resolution	X		
Peak shape	X		
Quantitation and Detection Limits			
Are the reporting limits adjusted to reflect sample dilutions and for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and selected ion chromatograms present for the initial and continuing calibration standards?		X	
Initial Calibration			
Was the initial calibration data submitted for each instrument used?	X		
Are the response factor RSDs within specified limits?	X		
Were the ion abundance ratios within specifications?	X		
Was the signal-to-noise ratio ≥ 10:1 for the ion current profiles?	X		
Continuing Calibration			
Was the continuing calibration data submitted for each instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of	X		

	YES	NO	NA
analysis per instrument?			
All %D within acceptable limits?	X		
Were the ion abundance ratios within specifications?	X		
Was the signal-to-noise ratio ≥ 10:1 for the ion current profiles?	X		
Field Duplicates			
Where field duplicates submitted with the samples?	X		

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082.

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 for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the technical 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. Rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blanks.

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. Alternatively, calibration curves may be constructed.

Multi-point calibration was performed for Aroclors 1221, 1242 and 1254 only. Single-point calibrations were performed for the remaining 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 identified compounds met the specified criteria.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries were acceptable.

8. Matrix Spike Blank

The matrix spike blank recoveries were within control limits.

9. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-28-Filtrate / PFP-28-Filtrate-DUP	Aroclor 1221	0.52	0.43	18.9%
PFP-28-Cake / PFP-28-Cake-DUP	Aroclor 1221	15	14	6.9%
	Aroclor 1242	12	12	0.0%

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

The field duplicate results were 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 Checklist

PCB Data Validation Checklist

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

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
Aroclor 1016/1260	X		
Aroclors 1221, 1232, 1242, 1248, and 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			

	YES	NO	NA
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*			
		TCX-1	TCX-2	DCB-1	DCB-2
PFP-28-Filtrate			--		--
PFP-28-Filtrate MS			--		--
PFP-28-Filtrate MSD			--		--
PFP-28-Filtrate-DUP			--		--
PFP-28-Cake			--		--
PFP-28-Cake MS			--		--
PFP-28-Cake MSD			--		--
PFP-28-Cake-DUP			--		--

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.

PESTICIDE/HERBICIDE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Methods 8081 and 8151.

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 TCLP pesticide and herbicide semivolatile analyses is 14 days from collection to TCLP extraction, 14 days from TCLP extraction to preparation and 40 days from TCLP extraction to analysis.

The samples were extracted past the holding time. Data were qualified as estimated based on the holding time violation.

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. Rinse blanks measure contamination of samples during field operations.

No analytes were detected in the associated blanks.

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. Alternatively, calibration curves may be constructed.

All initial calibration data were acceptable.

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.

No target analytes were identified in the samples.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries were within control limits.

8. Laboratory Control Sample

The laboratory control sample recoveries were within control limits.

9. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-28-Cake TCLP / PFP-28-Cake-DUP TCLP	Pesticide	ND	ND	NA
	Herbicide	ND	ND	NA

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

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 Checklist

Pesticide/Herbicide Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?	X		
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 14			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 7			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/instrument blanks have positive results?		X	
Are field/rinse blanks associated with every sample?		X	

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
INDA	X		
INDB	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?			X
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	

	YES	NO	NA
Compound Quantitation and Reported Detection Limits			
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
PFP-28-Cake	+4		
PFP-28-Cake-DUP	+4		

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.

METALS ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 6000/7000.

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 times for metals (except mercury) analyses is 180 days from date of collection. The holding time for mercury is 28 days from sample collection to analysis.

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

2. Blank Contamination

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

TCLP Arsenic was detected in the method blank. Associated sample results less than the blank action level were qualified as non-detect for TCLP arsenic.

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 and all initial calibration verification standard recoveries were within acceptable limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within acceptable limits.

3.3 CRDL Standard

The CRDL and CRA standard recoveries were within acceptable limits.

3.4 ICP Interference Control Sample

All ICS recoveries were within acceptable 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 (MS)

The MS recoveries were less than the control limits for antimony and greater than the control limits for barium, chromium, potassium and vanadium. Sample results for antimony and positive data for barium, chromium, potassium and vanadium were qualified as estimated based on the deviations.

4.2 Laboratory Duplicate

The analysis between the original laboratory sample and the laboratory duplicate of thallium exhibited percent difference (%D) greater than the control limit. Detected sample results for thallium were qualified as estimated based on the deviation. All other analytes exhibited acceptable %Ds.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-28-Cake / PFP-28-Cake-DUP	aluminum	18400	17900	2.7%
	antimony	0.25	0.31	21.4%
	arsenic	6.3	6.0	4.8%
	barium	298	263	12.2%
	beryllium	1.0	0.95	5.1%
	cadmium	2.7	3.0	10.5%
	calcium	3380	3280	3.0%
	chromium	113	110	2.6%
	cobalt	12.8	12.2	4.8%
	copper	49.0	46.5	5.2%
	iron	27200	26100	4.1%
	lead	95.4	92.0	3.6%
	magnesium	5090	4940	2.9%
	manganese	489	471	3.7%
	nickel	30.4	29.1	4.3%

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-28-Cake / PFP-28-Cake-DUP	potassium	3760	3310	12.7%
	selenium	1.7	1.6	6.0%
	silver	0.27	0.27	0.0%
	sodium	191	187	2.1%
	thallium	0.54	0.25	73.4%
	vanadium	42.3	40.2	5.0%
	zinc	212	199	6.3%
	mercury	0.52	0.45	14.4%
PFP-28-Cake TCLP / PFP-28-Cake-DUP TCLP	barium	0.58B	0.61B	<CRDL
	cadmium	0.013B	0.015B	<CRDL
	chromium	0.0067B	0.0076B	<CRDL
	lead	0.046B	0.047B	<CRDL

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

Duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

7. Serial Dilution

Several analytes associated with the serial dilution analysis exhibited %Ds greater than control limits. Sample results for antimony, iron and zinc were qualified as estimated.

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.

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 specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Form I to IX			
Are all forms labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Are pH values listed?			X
pH for metals analyses <2 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Holding Times			
Were mercury analyses performed within 28 days?	X		

	YES	NO	NA
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results corrected for percent solids?	X		
Are all "less than IDL" values coded with "U"?	X		
Is a physical description of samples given on Form I's?		X	
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Is one calibration standard at the CRDL level for all AA (except Hg) analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a 2xCRDL standard (CRI) analyzed for each ICP run?	X		
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?	X		

	YES	NO	NA
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each matrix?	X		
each batch of digested samples?	X		
Is concentration of prep. blank less than the CRDL?		X	
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?		X	

	YES	NO	NA
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	X		
Aqueous			
Are any spike recoveries:			
less than 30%?			X
between 30-74%?			X
between 126-150%?			X
greater then 150%?			X
Soil/Sediment			
Are any spike recoveries:			
less than 10%?		X	
between 10-74%?	X		
between 126-200%?	X		
greater than 200%?	X		
Form VI (Lab Duplicates)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?		X	
If no, are all results outside the control limits flagged with an * on Form I's and VI?	X		
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?	X		
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?		X	

	YES	NO	NA
Field Duplicates			
Were field duplicates analyzed?	X		
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?		X	
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 50%?			X
between 50% and 79%?			X
between 121% and 150%?			X
greater than 150%?			X
Solid LCS			
Is LCS "Found" value higher than the control limits?		X	
Is LCS "Found" lower than the control limits?		X	
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
Was field blank(s) used for Serial Dilution Analysis?		X	
Are any required % difference values:			
> 10%?	X		
≥100%?		X	

	YES	NO	NA
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?			X
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Were dilutions analyzed for samples with analytical spike recoveries less than 40%?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample?		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	X		
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		

	YES	NO	NA
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

ADDITIONAL PARAMETERS

Introduction

Analyses were performed according to the following methods:

TOC	EPA 415.1
TSS	EPA 160.2

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:

ND The analyte was analyzed for but not detected. The associated value is the analyte reporting limit.

B The reported value was obtained from a reading less than the reporting limit (RL) but greater than or equal to the instrument detection limit (IDL).

J The associated numerical value is an estimated concentration only.

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.

* Duplicate analysis not within control limits.

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

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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the associated blanks.

3. Calibration

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

All calibration data were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

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

The MS/MSD recoveries were within control limits.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PFP-28-Filtrate (U) / PFP-28-Filtrate A	TOC	3.70	3.59	3.0%
PFP-28-Filtrate (F) / PFP-28-Filtrate B	TOC	3.63	3.65	0.5%
PFP-28-Filtrate / PFP-28-Filtrate-DUP	TSS	ND	ND	NA

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

Duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

The 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 Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Percent solids calculation present for soils/sediments?			X
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:		X	
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?	X		
Initial and Continuing Calibration Blanks			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		

	YES	NO	NA
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the RL?	X		
Preparation Blank			
Was one prep. blank analyzed for:			
each batch of digested samples?	X		
each matrix type?	X		
Are all preparation blanks less than the RL?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all results within the control limits?		X	
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all values within control limits?	X		
Field Duplicates			
Were field duplicates analyzed?	X		
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		

Corrected Sample Analysis Data Sheets

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE

TCLP GC/MS Volatiles

Lot-Sample #...: C4H100107-001	Work Order #...: GMRXW1CD	Matrix.....: SOLID
Date Sampled...: 08/09/04	Date Received..: 08/10/04	MS Run #.....: 4239063
Leach Date.....: 08/23/04	Prep Date.....: 08/26/04	Analysis Date..: 08/26/04
Leach Batch #..: P423611	Prep Batch #...: 4239086	Analysis Time..: 08:23
Dilution Factor: 1	Initial Wgt/Vol: 5 mL	Final Wgt/Vol..: 5 mL
% Moisture.....: 37	Analyst ID.....: 016328	Instrument ID..: HP6
	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.050	mg/L	0.0057
2-Butanone	ND	0.050	mg/L	0.034
Carbon tetrachloride	ND	0.050	mg/L	0.0067
Chlorobenzene	ND	0.050	mg/L	0.0056
Chloroform	ND	0.050	mg/L	0.0062
1,2-Dichloroethane	ND	0.050	mg/L	0.0054
1,1-Dichloroethene	ND	0.050	mg/L	0.0088
Tetrachloroethene	ND	0.050	mg/L	0.016
Trichloroethene	ND	0.050	mg/L	0.0058
Vinyl chloride	ND	0.050	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(77 - 120)
Toluene-d8	95	(78 - 111)
4-Bromofluorobenzene	91	(80 - 114)
Dibromofluoromethane	87	(78 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE-DUP

TCLP GC/MS Volatiles

Lot-Sample #...: C4H100107-002	Work Order #...: GMR0E1CD	Matrix.....: SOLID
Date Sampled...: 08/09/04	Date Received..: 08/10/04	MS Run #.....: 4239063
Leach Date.....: 08/23/04	Prep Date.....: 08/26/04	Analysis Date..: 08/26/04
Leach Batch #..: P423611	Prep Batch #...: 4239086	Analysis Time..: 10:06
Dilution Factor: 1	Initial Wgt/Vol: 5 mL	Final Wgt/Vol..: 5 mL
% Moisture.....: 36	Analyst ID.....: 016328	Instrument ID..: HP6
	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.050	mg/L	0.0057
2-Butanone	ND	0.050	mg/L	0.034
Carbon tetrachloride	ND	0.050	mg/L	0.0067
Chlorobenzene	ND	0.050	mg/L	0.0056
Chloroform	ND	0.050	mg/L	0.0062
1,2-Dichloroethane	ND	0.050	mg/L	0.0054
1,1-Dichloroethene	ND	0.050	mg/L	0.0088
Tetrachloroethene	ND	0.050	mg/L	0.016
Trichloroethene	ND	0.050	mg/L	0.0058
Vinyl chloride	ND	0.050	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(77 - 120)
Toluene-d8	90	(78 - 111)
4-Bromofluorobenzene	86	(80 - 114)
Dibromofluoromethane	84	(78 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE

TCLP GC/MS Semivolatiles

Lot-Sample #...: C4H100107-001	Work Order #...: GMRXW1CE	Matrix.....: SOLID
Date Sampled...: 08/09/04	Date Received..: 08/10/04	MS Run #.....: 4245205
Leach Date.....: 08/27/04	Prep Date.....: 09/01/04	Analysis Date..: 09/03/04
Leach Batch #..: P424303	Prep Batch #...: 4245340	Analysis Time..: 16:26
Dilution Factor: 1	Initial Wgt/Vol: 200 mL	Final Wgt/Vol..: 1 mL
% Moisture.....: 37	Analyst ID.....: 001562	Instrument ID..: 71
	Method.....: SW846 8270C	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND U	0.050	mg/L	0.00012
2,4-Dinitrotoluene	ND U	0.050	mg/L	0.00092
Hexachlorobenzene	ND U	0.050	mg/L	0.0012
Hexachlorobutadiene	ND U	0.050	mg/L	0.00013
Hexachloroethane	ND U	0.050	mg/L	0.00016
Nitrobenzene	ND U	0.050	mg/L	0.00017
Pentachlorophenol	ND U	0.25	mg/L	0.00079
Pyridine	ND U	0.10	mg/L	0.0015
2,4,5-Trichloro-phenol	ND U	0.050	mg/L	0.0016
2,4,6-Trichloro-phenol	ND U	0.050	mg/L	0.0019
Cresols (total)	ND U	0.050	mg/L	0.0015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	91	(32 - 112)
2-Fluorobiphenyl	83	(30 - 110)
Terphenyl-d14	101	(10 - 144)
2-Fluorophenol	53	(13 - 110)
Phenol-d5	68	(10 - 113)
2,4,6-Tribromophenol	78	(21 - 122)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE-DUP

TCLP GC/MS Semivolatiles

Lot-Sample #...:	C4H100107-002	Work Order #...:	GMR0E1CE	Matrix.....:	SOLID
Date Sampled...:	08/09/04	Date Received..:	08/10/04	MS Run #.....:	4245205
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424303	Prep Batch #...:	4245340	Analysis Time..:	17:53
Dilution Factor:	1	Initial Wgt/Vol:	200 mL	Final Wgt/Vol..:	1 mL
% Moisture.....:	36	Analyst ID.....:	001562	Instrument ID..:	71
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND J	0.050	mg/L	0.00012
2,4-Dinitrotoluene	ND J	0.050	mg/L	0.00092
Hexachlorobenzene	ND J	0.050	mg/L	0.0012
Hexachlorobutadiene	ND J	0.050	mg/L	0.00013
Hexachloroethane	ND J	0.050	mg/L	0.00016
Nitrobenzene	ND J	0.050	mg/L	0.00017
Pentachlorophenol	ND J	0.25	mg/L	0.00079
Pyridine	ND J	0.10	mg/L	0.0015
2,4,5-Trichlorophenol	ND J	0.050	mg/L	0.0016
2,4,6-Trichlorophenol	ND J	0.050	mg/L	0.0019
Cresols (total)	ND J	0.050	mg/L	0.0015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	74	(32 - 112)
2-Fluorobiphenyl	65	(30 - 110)
Terphenyl-d14	90	(10 - 144)
2-Fluorophenol	42	(13 - 110)
Phenol-d5	64	(10 - 113)
2,4,6-Tribromophenol	81	(21 - 122)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Method 1613

PFP-28-Cake

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0392	0.895			
1,2,3,7,8-PeCDD	0.956	0.141	4.47	34:32	1.49	J
1,2,3,4,7,8-HxCDD	2.09	0.171	4.47	37:13	1.29	J
1,2,3,6,7,8-HxCDD	4.27	0.0616	4.47	37:19	1.18	J
1,2,3,7,8,9-HxCDD	13.8	0.182	4.47	37:34	1.09	
1,2,3,4,6,7,8-HpCDD	181	0.199	4.47	40:46	1.04	
OCDD	2560	0.479	8.95	45:15	0.89	
2,3,7,8-TCDF	0.431 J	0.132	0.895	31:14	0.80	J
1,2,3,7,8-PeCDF	0.154 J	0.108	4.47	33:43	1.42	J
2,3,4,7,8-PeCDF	0.209 J	0.135	4.47	34:20	1.50	J
1,2,3,4,7,8-HxCDF	0.333 J	0.130	4.47	36:29	1.13	J
1,2,3,6,7,8-HxCDF	0.338 J	0.134	4.47	36:36	1.08	J
2,3,4,6,7,8-HxCDF	~~0.336~~ ND	0.0610	4.47	37:06	1.19	J
1,2,3,7,8,9-HxCDF	ND	0.138	4.47			
1,2,3,4,6,7,8-HpCDF	3.26 J	0.207	4.47	39:27	1.05	J
1,2,3,4,7,8,9-HpCDF	0.242 J	0.222	4.47	41:29	0.93	J
OCDF	3.82 J	1.97	8.95	45:34	0.88	J
Total TCDDs	46.1 J	0.0392	0.895			Q
Total PeCDDs	85.1	0.141	4.47			
Total HxCDDs	468	0.0616	4.47			
Total HpCDDs	727	0.199	4.47			
Total TCDFs	2.34 J	0.132	0.895			Q DPE
Total PeCDFs	2.32 J	0.108	4.47			J
Total HxCDFs	4.33 J	0.0610	4.47			J
Total HpCDFs	6.46 J	0.207	4.47			
ITEF TEQ (ND=0)	7.16					
ITEF TEQ (ND=½)	7.83 J					

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-28-Cake

Laboratory Information

Project ID: G135-30
Sample ID: G135-30-1C
Collection Date/Time: 09-Aug-04 13:45
Receipt Date: 10-Aug-04
Extraction Date: 12-Aug-04
Analysis Date: 16-Aug-04

Sample Information

Report Basis: Dry Weight
Matrix: Solid
Weight / Volume: 18.40 grams
Solids / Lipids: 60.7 %
Original pH : NA
Batch ID: WG11016

Filename: a16aug04a-5
Retchk: a16aug04a-1
Begin ConCal: a16aug04a-1

Initial Cal: m1613-122203b

Method 1613

PFP-28-Cake

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.77	88.4	31:45	0.76	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.87	93.4	34:32	1.63	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	1.70	85.1	37:12	1.14	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.69	84.6	37:18	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.08	104	40:46	1.03	
$^{13}C_{12}$-OCDD	4.0	3.97	99.3	45:14	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.99	99.5	31:14	0.86	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.97	98.7	33:43	1.64	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.82	91.2	34:20	1.65	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.90	95.0	36:28	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.74	87.2	36:35	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.90	95.0	37:05	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.91	95.5	37:54	0.48	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.90	95.0	39:27	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.98	99.0	41:28	0.46	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.377	94.2	31:45		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			31:22	0.77	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:05	1.15	

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-28-Cake

Laboratory Information

Project ID: G135-30
Sample ID: G135-30-1C
Collection Date/Time: 09-Aug-04 13:45
Receipt Date: 10-Aug-04
Extraction Date: 12-Aug-04
Analysis Date: 16-Aug-04

Analyzed by: JW
Date: 08-24-04

Sample Information

Report Basis: Dry Weight
Matrix: Solid
Weight / Volume: 18.40 grams
Solids / Lipids: 60.7 %
Original pH : NA
Batch ID: WG11016

Filename: a16aug04a-5
Retchk: a16aug04a-1
Begin ConCal: a16aug04a-1

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 8/24/04

Method 1613
PFP-28-Cake
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.451	0.132	0.895	16.47	0.83	J

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.47	0.78	

Client Information			**Sample Information**	
Project Name:	GEHR Treatability Study		Report Basis:	Dry
			Matrix:	Solid
Sample ID:	PFP-28-Cake		Weight / Volume:	18.4 g
			Solids / Lipids:	60.7
			Original pH :	NA
Laboratory Information			Batch ID:	WG11016
Project ID:	G135-30		Instrument:	hrms3
Sample ID:	G135-30-1C		Filename:	c17aug04-9
Collection Date/Time:	08/09/04	13:45	Retchk:	c17aug04-2
Receipt Date:	08/10/04		Begin ConCal:	c17aug04-1
Extraction Date:	08/12/04			
Analysis Date/Time:	08/17/04	18:15	Initial Cal:	mCF-c060304

Analyzed by: HMP
Date: 18Aug04

Reviewed by: [illegible]
Date: 8/18/04

Method 1613

PFP-28-Cake-Dup

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.690	15.7			
1,2,3,7,8-PeCDD	ND	2.47	78.7			
1,2,3,4,7,8-HxCDD	ND	3.01	78.7			
1,2,3,6,7,8-HxCDD	11.8	1.08	78.7	37:20	1.11	J
1,2,3,7,8,9-HxCDD	6.90	3.20	78.7	37:35	1.22	J
1,2,3,4,6,7,8-HpCDD	390	3.50	78.7	40:48	1.05	
OCDD	7080	8.43	157	45:17	0.88	
2,3,7,8-TCDF	7.59 J	2.32	15.7	31:15	0.75	J
1,2,3,7,8-PeCDF	2.42 J	1.89	78.7	33:44	1.58	J
2,3,4,7,8-PeCDF	9.45 J	2.37	78.7	34:22	1.61	J
1,2,3,4,7,8-HxCDF	6.01 J	2.30	78.7	36:30	1.30	J
1,2,3,6,7,8-HxCDF	4.19 J	2.36	78.7	36:37	1.41	J
2,3,4,6,7,8-HxCDF	4.12	1.07	78.7	37:06	1.14	J
1,2,3,7,8,9-HxCDF	ND	2.44	78.7			
1,2,3,4,6,7,8-HpCDF	105	3.65	78.7	39:28	1.05	
1,2,3,4,7,8,9-HpCDF	6.96 J	3.91	78.7	41:30	1.08	J
OCDF	293 J	34.7	157	45:36	0.83	
Total TCDDs	2.55 J	0.690	15.7			J
Total PeCDDs	32.8	2.47	78.7			J Q
Total HxCDDs	169	1.08	78.7			
Total HpCDDs	1070	3.50	78.7			
Total TCDFs	108 J	2.32	15.7			Q
Total PeCDFs	64.5 J	1.89	78.7			J Q
Total HxCDFs	112 J	1.07	78.7			
Total HpCDFs	356 J	3.65	78.7			
ITEF TEQ (ND=0)	21.3					
ITEF TEQ (ND=½)	56.7 J					

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-28-Cake-Dup

Laboratory Information

Project ID: G135-30
Sample ID: G135-30-2D
Collection Date: 09-Aug-04
Receipt Date: 10-Aug-04
Extraction Date: 17-Aug-04
Analysis Date: 18-Aug-04

Sample Information

Report Basis: Dry Weight
Matrix: Solid
Weight / Volume: 01.03 grams
Solids / Lipids: 61.7 %
Original pH : NA
Batch ID: WG11022

Filename: a17aug04b_4-9
Retchk: a17aug04b_3-14
Begin ConCal: a17aug04b_3-14

Initial Cal: m1613-122203b

Method 1613

PFP-28-Cake-Dup

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.83	91.3	31:46	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.73	86.6	34:33	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	1.80	89.8	37:14	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.64	82.0	37:19	1.20	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	1.71	85.3	40:47	1.06	
$^{13}C_{12}$-OCDD	4.0	2.47	61.7	45:16	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.80	90.2	31:15	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.78	88.8	33:44	1.67	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.66	82.8	34:21	1.65	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.73	86.4	36:30	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.61	80.5	36:36	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.73	86.3	37:06	0.50	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.70	84.9	37:55	0.50	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.59	79.3	39:28	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.53	76.7	41:30	0.48	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.366	91.5	31:46		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			31:23	0.78	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:06	1.20	

Client Information

Project Name: GEHR Treatability Study

Sample ID: PFP-28-Cake-Dup

Laboratory Information

Project ID: G135-30
Sample ID: G135-30-2D
Collection Date: 09-Aug-04
Receipt Date: 10-Aug-04
Extraction Date: 17-Aug-04
Analysis Date: 18-Aug-04

Analyzed by: JWP
Date: 08-24-04

Sample Information

Report Basis: Dry Weight
Matrix: Solid
Weight / Volume: 01.03 grams
Solids / Lipids: 61.7 %
Original pH : NA
Batch ID: WG11022

Filename: a17aug04b_4-9
Retchk: a17aug04b_3-14
Begin ConCal: a17aug04b_3-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 8/24/04

Method 1613
PFP-28-Cake-Dup
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	27.0	2.33	15.7	16.49	0.81	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.47	0.78	

Client Information		**Sample Information**		
Project Name:	GEHR Treatability Study	Report Basis:	Dry	
		Matrix:	Solid	
Sample ID:	PFP-28-Cake-Dup	Weight / Volume:	1.03	g
		Solids / Lipids:	61.7	
		Original pH :	NA	
Laboratory Information		Batch ID:	WG11022	
Project ID:	G135-30	Instrument:	hrms3	
Sample ID:	G135-30-2D	Filename:	c25aug04-4	
Collection Date/Time:	08/09/04	Retchk:	c25aug04-2	
Receipt Date:	08/10/04	Begin ConCal:	c25aug04-1	
Extraction Date:	08/17/04			
Analysis Date/Time:	08/25/04 11:33	Initial Cal:	mCF-c060304	

Analyzed by: HMP
Date: 26Aug04

Reviewed by: [illegible]
Date: 8/26/04

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE

TCLP GC Semivolatiles

Lot-Sample #...: C4H100107-001	Work Order #...: GMRXW1CF	Matrix.....: SOLID
Date Sampled...: 08/09/04	Date Received..: 08/10/04	MS Run #.....: 4245367
Leach Date.....: 08/27/04	Prep Date.....: 09/01/04	Analysis Date..: 09/04/04
Leach Batch #..: P424303	Prep Batch #...: 4245572	Analysis Time..: 09:42
Dilution Factor: 1	Initial Wgt/Vol: 100 mL	Final Wgt/Vol..: 10 mL
% Moisture.....: 37	Method.....: SW846 8081A	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00017
Endrin	ND	0.00050	mg/L	0.000015
Heptachlor	ND	0.00050	mg/L	0.000014
Heptachlor epoxide	ND	0.00050	mg/L	0.000015
Lindane	ND	0.00050	mg/L	0.000015
Methoxychlor	ND	0.00050	mg/L	0.000031
Toxaphene	ND	0.020	mg/L	0.000072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	113	(10 - 147)
Tetrachloro-m-xylene	103	(39 - 130)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE-DUP

TCLP GC Semivolatiles

Lot-Sample #...:	C4H100107-002	Work Order #...:	GMR0E1CF	Matrix.....:	SOLID
Date Sampled...:	08/09/04	Date Received..:	08/10/04	MS Run #.....:	4245367
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/04/04
Leach Batch #..:	P424303	Prep Batch #...:	4245572	Analysis Time..:	11:12
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	36	Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND U	0.0050	mg/L	0.00017
Endrin	ND U	0.00050	mg/L	0.000015
Heptachlor	ND U	0.00050	mg/L	0.000014
Heptachlor epoxide	ND U	0.00050	mg/L	0.000015
Lindane	ND U	0.00050	mg/L	0.000015
Methoxychlor	ND U	0.00050	mg/L	0.000031
Toxaphene	ND U	0.020	mg/L	0.000072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	99	(10 - 147)
Tetrachloro-m-xylene	97	(39 - 130)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE

TCLP GC Semivolatiles

Lot-Sample #...:	C4H100107-001	Work Order #...:	GMRXW1CG	Matrix.....:	SOLID
Date Sampled...:	08/09/04	Date Received..:	08/10/04	MS Run #.....:	4245368
Leach Date.....:	08/27/04	Prep Date.....:	09/01/04	Analysis Date..:	09/03/04
Leach Batch #..:	P424303	Prep Batch #...:	4245575	Analysis Time..:	01:25
Dilution Factor:	1	Initial Wgt/Vol:	100 mL	Final Wgt/Vol..:	10 mL
% Moisture.....:	37	Analyst ID.....:	001797	Instrument ID..:	A/B
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND J	0.040	mg/L	0.0014
2,4,5-TP (Silvex)	ND J	0.010	mg/L	0.00034

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	110	(42 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE-DUP

TCLP GC Semivolatiles

Lot-Sample #...: C4H100107-002	Work Order #...: GMR0E1CG	Matrix.....: SOLID
Date Sampled...: 08/09/04	Date Received..: 08/10/04	MS Run #.....: 4245368
Leach Date.....: 08/27/04	Prep Date.....: 09/01/04	Analysis Date..: 09/03/04
Leach Batch #..: P424303	Prep Batch #...: 4245575	Analysis Time..: 03:07
Dilution Factor: 1	Initial Wgt/Vol: 100 mL	Final Wgt/Vol..: 10 mL
% Moisture.....: 36	Analyst ID.....: 001797	Instrument ID..: A/B
	Method.....: SW846 8151A	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND J	0.040	mg/L	0.0014
2,4,5-TP (Silvex)	ND J	0.010	mg/L	0.00034

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	101	(42 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4H100107 **Method Type:**

Sample ID: GMRXW **Client ID:** PFP-28-CAKE

Matrix: SOIL **Date Received:** 8/10/2004 **Level:** LOW

% Solids: 62.7 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4245044 **Prep Date:** 9/1/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	18400	mg/Kg			MS	0.40	1.00	9/9/2004	16:52:17
Antimony	7440-36-0	0.25	mg/Kg	~~J~~	~~N~~	MS	0.010	1.00	9/9/2004	16:52:17
Arsenic	7440-38-2	6.3	mg/Kg		~~E~~	MS	0.041	1.00	9/9/2004	16:52:17
Barium	7440-39-3	298	mg/Kg		~~N~~ J	MS	0.018	1.00	9/9/2004	16:52:17
Beryllium	7440-41-7	1.0	mg/Kg			MS	0.009	1.00	9/9/2004	16:52:17
Cadmium	7440-43-9	2.7	mg/Kg			MS	0.011	1.00	9/9/2004	16:52:17
Calcium	7440-70-2	3380	mg/Kg			MS	1.3	1.00	9/9/2004	16:52:17
Chromium	7440-47-3	113	mg/Kg		~~N~~ J	MS	0.089	1.00	9/9/2004	16:52:17
Cobalt	7440-48-4	12.8	mg/Kg			MS	0.005	1.00	9/9/2004	16:52:17
Copper	7440-50-8	49.0	mg/Kg			MS	0.080	1.00	9/9/2004	16:52:17
Iron	7439-89-6	27200	mg/Kg		~~E~~ J	MS	0.46	1.00	9/9/2004	16:52:17
Lead	7439-92-1	95.4	mg/Kg			MS	0.007	1.00	9/9/2004	16:52:17
Magnesium	7439-95-4	5090	mg/Kg			MS	0.21	1.00	9/9/2004	16:52:17
Manganese	7439-96-5	489	mg/Kg			MS	0.006	1.00	9/9/2004	16:52:17
Nickel	7440-02-0	30.4	mg/Kg			MS	0.010	1.00	9/9/2004	16:52:17
Potassium	7440-09-7	3760	mg/Kg		~~N~~ J	MS	0.67	1.00	9/9/2004	16:52:17
Selenium	7782-49-2	1.7	mg/Kg			MS	0.075	1.00	9/9/2004	16:52:17
Silver	7440-22-4	0.27	mg/Kg			MS	0.008	1.00	9/9/2004	16:52:17
Sodium	7440-23-5	191	mg/Kg			MS	1.4	1.00	9/9/2004	16:52:17
Thallium	7440-28-0	0.54	mg/Kg		~~E*~~ J	MS	0.008	1.00	9/9/2004	16:52:17
Vanadium	7440-62-2	42.3	mg/Kg		~~N~~ J	MS	0.078	1.00	9/9/2004	16:52:17
Zinc	7440-66-6	212	mg/Kg		~~E~~ J	MS	0.054	1.00	9/9/2004	16:52:17

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4H100107 **Method Type:**

Sample ID: GMR0E **Client ID:** PFP-28-CAKE-DUP

Matrix: SOIL **Date Received:** 8/10/2004 **Level:** LOW

% Solids: 64.1 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4245044 **Prep Date:** 9/1/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	17900	mg/Kg			MS	0.39	1.00	9/9/2004	17:09:18
Antimony	7440-36-0	0.31	mg/Kg	~~J~~	~~N~~	MS	0.009	1.00	9/9/2004	17:09:18
Arsenic	7440-38-2	6.0	mg/Kg		~~E~~	MS	0.041	1.00	9/9/2004	17:09:18
Barium	7440-39-3	263	mg/Kg		~~N~~ J	MS	0.017	1.00	9/9/2004	17:09:18
Beryllium	7440-41-7	0.95	mg/Kg			MS	0.008	1.00	9/9/2004	17:09:18
Cadmium	7440-43-9	3.0	mg/Kg			MS	0.010	1.00	9/9/2004	17:09:18
Calcium	7440-70-2	3280	mg/Kg			MS	1.3	1.00	9/9/2004	17:09:18
Chromium	7440-47-3	110	mg/Kg		~~N~~ J	MS	0.087	1.00	9/9/2004	17:09:18
Cobalt	7440-48-4	12.2	mg/Kg			MS	0.005	1.00	9/9/2004	17:09:18
Copper	7440-50-8	46.5	mg/Kg			MS	0.078	1.00	9/9/2004	17:09:18
Iron	7439-89-6	26100	mg/Kg		~~E~~ J	MS	0.45	1.00	9/9/2004	17:09:18
Lead	7439-92-1	92.0	mg/Kg			MS	0.007	1.00	9/9/2004	17:09:18
Magnesium	7439-95-4	4940	mg/Kg			MS	0.20	1.00	9/9/2004	17:09:18
Manganese	7439-96-5	471	mg/Kg			MS	0.006	1.00	9/9/2004	17:09:18
Nickel	7440-02-0	29.1	mg/Kg			MS	0.009	1.00	9/9/2004	17:09:18
Potassium	7440-09-7	3310	mg/Kg		~~N~~ J	MS	0.66	1.00	9/9/2004	17:09:18
Selenium	7782-49-2	1.6	mg/Kg			MS	0.073	1.00	9/9/2004	17:09:18
Silver	7440-22-4	0.27	mg/Kg			MS	0.008	1.00	9/9/2004	17:09:18
Sodium	7440-23-5	187	mg/Kg			MS	1.4	1.00	9/9/2004	17:09:18
Thallium	7440-28-0	0.25	mg/Kg		~~E*~~ J	MS	0.007	1.00	9/9/2004	17:09:18
Vanadium	7440-62-2	40.2	mg/Kg		~~N~~ J	MS	0.076	1.00	9/9/2004	17:09:18
Zinc	7440-66-6	199	mg/Kg		~~E~~ J	MS	0.053	1.00	9/9/2004	17:09:18

Comments:

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GMRXW **Client ID:** PFP-28-CAKE

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/3/2004 **Prep Batch:** 4247016

Weight: .6 **Volume:** 100 **Percent Moisture:** 37.274

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.019	0.053	0.52		1	CVAA	9/3/2004	8:53

Comments: Lot #: C4H100107 Sample #: 1

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GMR0E **Client ID:** PFP-28-CAKE-DUP

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/3/2004 **Prep Batch:** 4247016

Weight: .6 **Volume:** 100 **Percent Moisture:** 35.857

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.018	0.052	0.45		1	CVAA	9/3/2004	8:58

Comments: Lot #: C4H100107 Sample #: 2

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE

TCLP Metals

Lot-Sample #...: C4H100107-001
Date Sampled...: 08/09/04 Date Received..: 08/10/04
Leach Date.....: 08/27/04 Leach Batch #..: P424303
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4244036						
Arsenic	~~0.16 B~~ ND	0.50	mg/L	SW846 6010B	08/31-09/02/04	GMRXW1A4
		Dilution Factor: 1		Analysis Time..: 17:18	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.019	
Barium	0.58 B	10.0	mg/L	SW846 6010B	08/31-09/02/04	GMRXW1A5
		Dilution Factor: 1		Analysis Time..: 17:18	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.00036	
Cadmium	0.013 B	0.10	mg/L	SW846 6010B	08/31-09/02/04	GMRXW1A6
		Dilution Factor: 1		Analysis Time..: 17:18	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.00086	
Chromium	0.0067 B	0.50	mg/L	SW846 6010B	08/31-09/02/04	GMRXW1A7
		Dilution Factor: 1		Analysis Time..: 17:18	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.0014	
Lead	0.046 B	0.50	mg/L	SW846 6010B	08/31-09/02/04	GMRXW1A8
		Dilution Factor: 1		Analysis Time..: 17:18	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.013	
Selenium	ND	0.25	mg/L	SW846 6010B	08/31-09/02/04	GMRXW1A9
		Dilution Factor: 1		Analysis Time..: 17:18	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.027	
Silver	ND	0.50	mg/L	SW846 6010B	08/31-09/02/04	GMRXW1CA
		Dilution Factor: 1		Analysis Time..: 17:18	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.0026	
Prep Batch #...: 4246094						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/02/04	GMRXW1CC
		Dilution Factor: 1		Analysis Time..: 13:42	Analyst ID.....: 400491	
		Instrument ID..: PS200HG		MS Run #.....: 4246056	MDL.....: 0.000071	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: PFP-28-CAKE-DUP

TCLP Metals

Lot-Sample #...: C4H100107-002
Date Sampled...: 08/09/04
Leach Date.....: 08/27/04

Date Received..: 08/10/04
Leach Batch #..: P424303

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4244036						
Arsenic	ND ~~0.17 B~~	0.50	mg/L	SW846 6010B	08/31-09/02/04	GMR0E1AF
		Dilution Factor: 1		Analysis Time..: 17:15	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.019	
Barium	0.61 B	10.0	mg/L	SW846 6010B	08/31-09/02/04	GMR0E1AG
		Dilution Factor: 1		Analysis Time..: 17:15	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.00036	
Cadmium	0.015 B	0.10	mg/L	SW846 6010B	08/31-09/02/04	GMR0E1AH
		Dilution Factor: 1		Analysis Time..: 17:15	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.00086	
Chromium	0.0076 B	0.50	mg/L	SW846 6010B	08/31-09/02/04	GMR0E1AJ
		Dilution Factor: 1		Analysis Time..: 17:15	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.0014	
Lead	0.047 B	0.50	mg/L	SW846 6010B	08/31-09/02/04	GMR0E1AK
		Dilution Factor: 1		Analysis Time..: 17:15	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.013	
Selenium	ND	0.25	mg/L	SW846 6010B	08/31-09/02/04	GMR0E1AL
		Dilution Factor: 1		Analysis Time..: 17:15	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.027	
Silver	ND	0.50	mg/L	SW846 6010B	08/31-09/02/04	GMR0E1CA
		Dilution Factor: 1		Analysis Time..: 17:15	Analyst ID.....: 400883	
		Instrument ID..: JA61EICP		MS Run #.....: 4244030	MDL.....: 0.0026	
Prep Batch #...: 4246094						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/02/04	GMR0E1CC
		Dilution Factor: 1		Analysis Time..: 13:51	Analyst ID.....: 400491	
		Instrument ID..: PS200HG		MS Run #.....: 4246056	MDL.....: 0.000071	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.

ELAP ID No.:	11078	SDG No.:	04080067
Matrix:	WATER	CLIENT ID:	PFP-28-FILTRATE
Sample wt(Dry)/vol:	1.08 (L)	LAB SAMPLE ID:	AH08557
% Moisture:	0.0	LAB FILE ID:	AH08557
Extraction :	CLLE	DATE RECEIVED:	8/10/2004
Conc. Extract Volume:	5000 (µL)	DATE EXTRACTED:	8/13/2004
Injection Volume:	0.4 (µL)	DATE ANALYZED:	8/22/2004
Method:	GEHR METHOD 8082 (PCB)	DILUTION FACTOR:	3
		SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_072904_GE.XLS

NEA File ID: S:\CERT04\04080067_8082WATER.XLS 1D-1-1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.031	U
11104-28-2	Aroclor 1221	0.52	
11141-16-5	Aroclor 1232	0.031	U
53469-21-9	Aroclor 1242	0.031	U
12672-29-6	Aroclor 1248	0.031	U
11097-69-1	Aroclor 1254	0.031	U
11096-82-5	Aroclor 1260	0.031	U
1336-36-3	Total PCB	0.52	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.

ELAP ID No.:	11078	SDG No.:	04080067
Matrix:	WATER	CLIENT ID:	PFP-28-FILTRATE-DUP
Sample wt(Dry)/vol:	1.08 (L)	LAB SAMPLE ID:	AH08558
% Moisture:	0.0	LAB FILE ID:	AH08558
Extraction :	CLLE	DATE RECEIVED:	8/10/2004
Conc. Extract Volume:	5000 (µL)	DATE EXTRACTED:	8/13/2004
Injection Volume:	0.4 (µL)	DATE ANALYZED:	8/22/2004
Method:	GEHR METHOD 8082 (PCB)	DILUTION FACTOR:	2
		SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_072904_GE.XLS

NEA File ID: S:\CERT04\04080067_8082WATER.XLS 1D-1-2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.021	U
11104-28-2	Aroclor 1221	0.43	
11141-16-5	Aroclor 1232	0.021	U
53469-21-9	Aroclor 1242	0.021	U
12672-29-6	Aroclor 1248	0.021	U
11097-69-1	Aroclor 1254	0.021	U
11096-82-5	Aroclor 1260	0.021	U
1336-36-3	Total PCB	0.43	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080067
ELAP ID No.:	11078	CLIENT ID:	PFP-28-CAKE
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08559
Sample wt(Dry)/vol:	6.55215 (g)	LAB FILE ID:	AH08559
% Moisture:	37.8	DATE RECEIVED:	8/10/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/11/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/17/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	10
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS

NEA File ID: S:\CERT04\04080067_8082_SOIL 1D-1-1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.18	U
11104-28-2	Aroclor 1221	15	
11141-16-5	Aroclor 1232	0.18	U
53469-21-9	Aroclor 1242	12	
12672-29-6	Aroclor 1248	0.18	U
11097-69-1	Aroclor 1254	0.18	U
11096-82-5	Aroclor 1260	0.18	U
1336-36-3	Total PCB	27	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04080067
ELAP ID No.:	11078	CLIENT ID:	PFP-28-CAKE-DUP
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH08560
Sample wt(Dry)/vol:	6.62701 (g)	LAB FILE ID:	AH08560
% Moisture:	38.1	DATE RECEIVED:	8/10/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	8/11/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	8/18/2004
Injection Volume:	1.2 (µL)	DILUTION FACTOR:	10
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_07_081304G.XLS

NEA File ID: S:\CERT04\04080067_8082_SOIL 1D-1-2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.17	U
11104-28-2	Aroclor 1221	14	
11141-16-5	Aroclor 1232	0.17	U
53469-21-9	Aroclor 1242	12	
12672-29-6	Aroclor 1248	0.17	U
11097-69-1	Aroclor 1254	0.17	U
11096-82-5	Aroclor 1260	0.17	U
1336-36-3	Total PCB	26	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

NORTHEAST ANALYTICAL
ENVIRONMENTAL LAB SERVICES
2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
08/29/2004

BBL ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13039
CONTACT: DON SAUDA

MATRIX: WATER
DATE RECEIVED: 08/10/2004 **TIME:** 9:30
SAMPLED BY: P. FILIPPETTI
CUSTOMER PO: N/A

PROJECT: GE HUDSON RIVER TREATABILITY STUDY
LOCATION: HUDSON RIVER
LAB ELAP #: 11078

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	TIME SAMPLED	RESULTS	PQL	UNITS	DATE ANALYZED
Total Organic Carbon								
AH08553	PFP-28-FILTRATE (U)	EPA 415.1	08/09/2004	11:45	3.70	0.966	mg/L	08/23/2004
AH08554	PFP-28-FILTRATE (F)	EPA 415.1	08/09/2004	13:15	3.63	0.966	mg/L	08/23/2004
AH08555	PFP-28-FILTRATE-DUPA	EPA 415.1	08/09/2004	N/A	3.59	0.966	mg/L	08/23/2004
AH08556	PFP-28-FILTRATE-DUPB	EPA 415.1	08/09/2004	N/A	3.65	0.966	mg/L	08/23/2004

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

NORTHEAST ANALYTICAL
ENVIRONMENTAL LAB SERVICES
2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
08/16/2004

BBL ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13039
CONTACT: DON SAUDA

MATRIX : WATER
DATE RECEIVED: 08/10/2004 **TIME:** 9:30
SAMPLED BY: P. FILIPPETTI
CUSTOMER PO: N/A

PROJECT: GE HUDSON RIVER TREATABILITY STUDY
LOCATION: HUDSON RIVER
LAB ELAP #: 11078

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	TIME SAMPLED	RESULTS	PQL	UNIT	DATE ANALYZED
Total Suspended Solids								
AH08557	PFP-28-FILTRATE	EPA 160.2	08/09/2004	11:30	ND	2.00	mg/L	08/14/2004
AH08558	PFP-28-FILTRATE-DUP	EPA 160.2	08/09/2004	N/A	ND	2.00	mg/L	08/14/2004

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

Laboratory Narrative

CASE NARRATIVE

BLASLAND, BOUCK & LEE
GE Treatability Study
STL Lot # C4H100107

Sample Receiving:
STL Pittsburgh, PA received samples on August 10, 2004. The cooler was received within the proper temperature range.

All of sample PFP-28-CAKE was used before all the metals analyses were completed. Per Phil Filippetti, use sample PFP-28-CAKE-DUP for the metals analysis for PFP-28-CAKE.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

TCLP GC/MS Volatiles:
On-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

TCLP GC/MS Semivolatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

TCLP Pesticides:
There were no problems associated with the analysis.

TCLP Herbicides:
There were no problems associated with the analysis.

Metals:
The matrix spike was outside control limits for barium, chromium, potassium, antimony and vanadium.

For the matrix spike and matrix spike duplicate, aluminum, iron, lead and manganese recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

The serial dilution percent difference was outside control limits for arsenic, iron, thallium and zinc.

CASE NARRATIVE

BLASLAND, BOUCK & LEE
GE Treatability Study
STL Lot # C4H100107

Metals:
The sample duplicate RPD was outside control limits for thallium.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

TCLP Metals:
The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

General Chemistry:
There were no problems associated with the analysis.

August 31, 2004

Sample Delivery Group Case Narrative

This sample delivery group consists of water samples received on August 10, 2004 for analysis and includes assigned Sample Delivery Group Number: 04080067. The samples are from Project Name: G.E. Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH08553	PFP-28-FILTRATE (U)
AH08554	PFP-28-FILTRATE (F)
AH08555	PFP-28-FILTRATE-DUPA
AH08556	PFP-28-FILTRATE-DUPB
AH08557	PFP-28-FILTRATE
AH08558	PFP-28-FILTRATE-DUP

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by GEHR Method 8082. The Continuous Liquid Liquid Extraction Method (GEHR- Method 3520) was employed for the water samples. The following technical and administrative items were noted for the analysis:

(1.) Concentration results for this SDG are reported to the Method Detection Limit as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan. Concentration results which are greater than the MDL but less than the Practical Quantitation Limit (PQL) are flagged (J) for this methodology.

(2.) Single Column Gas Chromatograph analysis was performed for all samples in this SDG as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan.

(3.) The TCMX and DCBP surrogate compounds were diluted out for several samples due to the high concentration of PCB contained in the samples. Please see Form 2F-1 for details.

Form –1 Qualifier Summary PCB Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Total Organic Carbon Analysis

Analysis for Total Organic Carbon was performed by EPA Method 415.1 for the water samples. Samples designated for filtered analysis were filtered prior to shipping at the Waste Stream Technologies facility as per notification by the client. The following technical and administrative items were noted for the analysis:

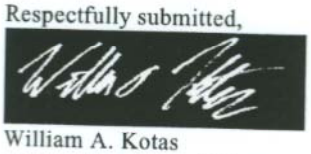
(1.) All quality assurance parameters were met for the analysis.

Total Suspended Solids Analysis

Analysis for TSS was performed by EPA Method 160.2 for t he water samples. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,



William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2003\083104H.doc

August 31, 2004

Sample Delivery Group Case Narrative

This sample delivery group consists of sediment samples received on August 10, 2004 for analysis and includes assigned Sample Delivery Group Number: 04080067. The samples are from Project Name: G.E. Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH08559	PFP-28-CAKE
AH08560	PFP-28-CAKE-DUP

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by GEHR Method 8082. The Accelerated Solvent Extraction Method Method (GEHR- Method 3545) was employed for the sediment samples. The following technical and administrative items were noted for the analysis:

(1.) Concentration results for this SDG are reported to the Method Detection Limit as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan. Concentration results which are greater than the MDL but less than the Practical Quantitation Limit (PQL) are flagged (J) for this methodology.

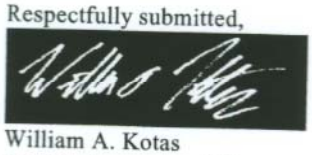
(2.) Single Column Gas Chromatograph analysis was performed for all samples in this SDG as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan.

(3.) The TCMX and DCBP surrogate compounds were diluted out for several samples due to the high concentration of PCB contained in the samples. Please see Form 2F-1 for details.

Form – 1 Qualifier Summary PCB Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Respectfully submitted,



William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2003\083104J.doc

Case Narrative
Paradigm Project **G135-30**

For Method: 1613

- Both samples submitted with this project required additional 2,3,7,8-TCDF confirmational analyses. These analyses have been performed and the data included with this data package.
- Data meet QA/QC requirements.

Craig R. Tronzo 8/24/04
Craig R. Tronzo Date
Data Reviewer

Secondary Review
W. Mike Larkins 26 Aug 2004 Date Or
W. Mike Larkins
Technical Director

Greg Dickinson Date
QA Officer

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# C4E220207, 04050087 and G135-25

Semi-volatile, PCB, Pesticide,
Dioxins, Metals and Miscellaneous Analyses

Analyses performed by:

Severn Trent Laboratories
Pittsburgh, Pennsylvania

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# C4E220207, 04050087 and G135-25 for sampling of the GE Hudson Treatability Study. 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				
				PAH SVOC	Dioxin	PCB	MET	MISC[1]
S2	GGWMX AH04811, 19 G135-25-1B	Soil	05/19/04	x	x	x	x	x
S3	GGWM8 AH04812, 20 G135-25-2B	Soil	05/19/04	x	x	x	x	x
S4	GGWND AH04813, 21 G135-25-3B	Soil	05/19/04	x	x	x	x	x
SX1	GGWNH AH04814, 22 G135-25-4B	Soil	05/19/04	x	x	x	x	x
SX2	GGWNJ AH04815, 23 G135-25-5B	Soil	05/19/04	x	x	x	x	x
SX3	GGWNK AH08416, 24 G135-25-6B	Soil	05/19/04	x	x	x	x	x
SX4	GGWNL AH04817, 25 G135-25-7B	Soil	05/19/04	x	x	x	x	x
SDUP1	GGWNM AH04818, 26 G135-25-8B	Soil	05/19/04	x	x	x	x	x
W1A	GGWNN G135-25-9C	Water	05/19/04		x		x	
W1B	GGWNP G135-25-10C	Water	05/19/04		x		x	

1 Miscellaneous parameters include ammonia nitrogen, total kjeldahl nitrogen and total phosphorus

Note: Metals and miscellaneous parameters were analyzed by STL of Pittsburg, PA, PAH and PCB parameters were analyzed by Northeast Analytical Laboratories of Schenectady, NY and Dioxins were analyzed by Paradigm Analytical Labs of Wilmington, NC.

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270.

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 for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the technical 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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the 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 within the 15% control limit for all target compounds.

4.2 Continuing Calibration

The response for all target compounds in the continuing calibration standards were within 20% difference (%D) of the initial calibration with the exception of benzo(g,h,i)perylene. Data for the listed compounds were qualified as estimated in samples SX1, SX2, SX3, SX4, SDUP-1 and S2.

.

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 below the control limit in samples S3 and S4. No data were 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 response for one internal standard was above the control limit in sample S4, one response was above and two responses were below the control limit in sample S3 and one response was above and one was below the control limit in sample S2. Positive data for compounds associated with internal standards that were above control limits and all compounds associated with internal standards that were below control limits were qualified as estimated. 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 (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method.

No MS/MSD analyses were performed on the samples in this data set.

9. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

10. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SX4 / SDUP-1	naphthalene	40.1J	ND	NA
SX4 / SDUP-1	acenaphthene	56.5J	ND	NA
	fluorene	81.5J	ND	NA
	phenanthrene	569	186J	101.4%
	anthracene	124J	ND	NA
	fluoranthene	460	161J	96.2%
	pyrene	572	283J	67.6
	benzo(a)anthracene	139J	56.7J	84.1%
	chyrsene	119J	44.6J	90.9%
	benzo(b)fluoranthene	209J	72.3J	97.1%
	benzo(k)fluoranthene	77.4J	ND	NA
	benzo(a)pyrene	178J	61.4J	97.4%

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

The field duplicate results were unacceptable for phenanthrene. Data for phenanthrene were qualified as estimated in samples SX4 and SDUP-1 based on the deviation.

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 Checklist

Semi-volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 32			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 16			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		

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

	YES	NO	NA
Quantitation and Detection Limits			
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		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?	X		
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
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 ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?		X	
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Semi-volatile Qualifier Summary

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		2FP	PHL	NBZ	FBP	TBP	TPH	2CP	DCB	DCB	NPT	ANT	PHN	CRY	PRY
S2		--	--			--		--	--			↑			↓
S3		--	--		↓	--		--	--			↑		↓	↓
S4		--	--		↓	--		--	--			↑			
SX1		--	--			--		--	--						
SX2		--	--			--		--	--						
SX3		--	--			--		--	--						
SX4		--	--			--		--	--						
SDUP-1		--	--			--		--	--						

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
↓↓ Response <25%

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

PCDD/PCDF ANALYSES

Introduction

Analyses were performed according to the USEPA Method 1613.

The data review process is intended to evaluate the data on a technical basis. 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 qualifiers:

ND	The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
EMPC	The "estimated maximum possible concentration" is reported when GC/MS signals eluting within the established retention time window have a signal-to-noise ratio in excess of 2.5 but do not meet the ion abundance ratio criteria.

Quantitation qualifiers:

B	The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
S	The compound has exceeded the normal dynamic range.
PR	The reported concentration may be overestimated due to a poorly resolved GC peak.
U	The reported concentration may be underestimated due to the presence of a large closely eluting peak.
E	The reported concentration is based on an analyte to internal standard ratio which exceeds the range of the calibration curve. The value should be considered estimated only.

Validation qualifiers:

J	The compound was positively identified; however, the associated numerical value is an estimated concentration only.
R	The sample results are rejected.

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

Data Assessment

1. Holding Time

The method-specified holding times for PCDD/PCDF analysis of samples are 30 days from sample collection to extraction and 45 days from collection to analysis.

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

2. Blank Contamination

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

Total HxCDD was detected in the method blank. Data for Total HxCDD were qualified as non-detect in sample SX4 based on the blank content.

3. Mass Spectrometer Resolution Check

Resolution 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 % relative standard deviation (%RSD) was less than 15% for all non-labeled compounds (targets) and less than 20% for all labeled compounds (internal standards and recovery standards). All isotope abundance ratios were within the defined limits.

4.2 Continuing Calibration

All continuing calibration target standards were within the 20% difference (%D) of the initial calibration.

5. Recovery Standard Performance

All samples to be analyzed for PCDD/PCDF compounds are spiked with recovery standard prior to injection. The concentrations of all the labeled standards (internal standards) are determined by using the recovery standard.

All recovery standard isotopic ratios were acceptable.

6. Internal Standard Performance and Recovery

All samples to be analyzed for PCDD/PCDF compounds are spiked with internal standards prior to extraction, which eliminates the need to correct quantitative data for extraction efficiency.

Recovery for internal standards were within the acceptable control limits

7. Compound Identification

PCDD/PCDF compounds are identified by using the compound's ion abundance ratios, signal-to-noise values, and relative retention times.

An EMPC or "estimated maximum possible concentration" designation is given to compounds which have signals eluting within the established retention time window which would, if positively identified, above the detection limit. The signals do not, however, meet the ion abundance ratio criteria and cannot be identified as the compound of interest. The EMPC value is the estimated concentration of the interferant quantitated "as" the compound of interest. This value should be considered an elevated detection limit based on potential compound identification and quantitation interference.

All identified compounds met method criteria.

8. Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)

Although not required by the method, matrix spike and matrix spike duplicates can be analyzed to provide an additional assessment of the precision and accuracy of the analytical method.

No MS/MSD samples were submitted with this SDG. The laboratory control sample recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
S2 / SDUP1	1,2,3,7,8-PeCDD	0.432	0.814	61.3%
	1,2,3,4,7,8-HxCDD	0.631	1.10	54.1%
	1,2,3,6,7,8-HxCDD	3.24	5.99	59.5%
	1,2,3,7,8,9-HxCDD	1.45	2.68	59.5%
	1,2,3,4,6,7,8-HpCDD	79.5	168	71.5%
	OCDD	1010	2410	81.8%
	2,3,7,8-TCDF	1.81	3.69	68.4%
	1,2,3,7,8-PeCDF	0.430	0.889	69.5%
	2,3,4,7,8-PeCDF	3.21	6.93	73.3%
	1,2,3,4,7,8-HxCDF	1.54	2.92	61.8%
	1,2,3,6,7,8-HxCDF	1.03	2.00	64.0%
	2,3,4,6,7,8-HxCDF	1.02	1.91	60.7%
	1,2,3,7,8,9-HxCDF	0.453	0.777	52.6%
	1,2,3,4,6,7,8-HpCDF	18.5	37.2	67.1%
	1,2,3,4,7,8,9-HpCDF	1.40	2.76	65.3%
	OCDF	55.7	152	92.7%
	Total TCDDs	2.64	5.98	77.4%
	Total PeCdds	9.62	21.1	74.7%
	Total HxCDDs	36.8	66.8	57.9%
	Total HpCDDs	177	377	72.2%
	Total TCDFs	51.0	108	71.6%
	Total PeCDFs	23.4	50.3	72.9%
	Total HxCDFs	25.7	49.5	63.2%
	Total HpCDFs	63.7	141	75.5%
	ITEF TEQ (ND=0)	5.02	10.7	72.3%
	ITEF TEQ (ND-1/2)	5.52	11.2	67.9%
W1A / W1B	OCDD	0.0152	0.0126	18.7%
	ITEF TEQ (ND=0)	0.000	0.000	0.0%
	ITEF TEQ (ND-1/2)	0.0501	0.0501	0.0%

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

Duplicate results are acceptable.

10. System Performance and Overall Assessment

The Data flagged by the laboratory as exhibiting a quantitative interference “Q” have been replaced with a “J” qualifier and qualified as estimated.

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

Data Validation Checklist

PCDD/PCDF Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the samples numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Internal Standard Performance			
Was internal standard data submitted?	X		
Was one or more internal standard recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Was one or more ion abundance ratio or retention time outside control limits?		X	
Recovery Standard Performance			
Was recovery standard data submitted?	X		
Was one or more ion abundance ratio or retention time outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Matrix Spikes			
Is there matrix spike recovery data submitted?		X	
Were matrix spikes analyzed at the required frequency?			X
Were any spike recoveries outside control limits?			X
Blanks			
Is the method blank data submitted?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Is the chromatographic performance acceptable for each instrument?	X		
Do any method/reagent/instrument blanks have positive results?	X		
Are field/equipment blanks associated with every sample?		X	

	YES	NO	NA
Do any field/equipment blanks have positive results?			X
Mass Spectrometer Resolution			
Are the GC/MS resolution check data submitted?	X		
Was the resolution acceptable?	X		
Target Analytes			
Is a PCDD/PCDF analysis results sheet present for each of the following:			
Samples	X		
Matrix spikes			X
Blanks	X		
Are the selected ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes			X
Blanks	X		
Is the chromatographic performance acceptable with respect to:			
Baseline stability	X		
Resolution	X		
Peak shape	X		
Quantitation and Detection Limits			
Are the reporting limits adjusted to reflect sample dilutions and for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and selected ion chromatograms present for the initial and continuing calibration standards?		X	
Initial Calibration			
Was the initial calibration data submitted for each instrument used?	X		
Are the response factor RSDs within specified limits?	X		
Were the ion abundance ratios within specifications?	X		
Was the signal-to-noise ratio ≥ 10:1 for the ion current profiles?	X		
Continuing Calibration			
Was the continuing calibration data submitted for each instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of	X		

	YES	NO	NA
analysis per instrument?			
All %D within acceptable limits?	X		
Were the ion abundance ratios within specifications?	X		
Was the signal-to-noise ratio ≥ 10:1 for the ion current profiles?	X		
Field Duplicates			
Where field duplicates submitted with the samples?	X		

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082.

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 for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the technical 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. 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. Alternatively, calibration curves may be constructed.

Multi-point calibration was performed for Aroclors 1221, 1242 and 1254 only. Single-point calibrations were performed for the remaining 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.

Recovery for one surrogate was above control limits in sample S2 and recovery for one surrogate was above and one surrogate was below control limits in sample S4. No data were qualified based on the deviations. All other 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 identified compounds met the specified criteria.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries were acceptable.

8. Matrix Spike Blank

The matrix spike blank recoveries were within control limits.

9. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SX2 / SDUP-1	Aroclor 1221	4.7	5.0	6.2%
	Aroclor 1242	1.9	1.9	0.0%

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

The field duplicate results were 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 Checklist

PCB Data Validation Checklist

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

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
Aroclor 1016/1260	X		
Aroclors 1221, 1232, 1242, 1248, and 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			

	YES	NO	NA
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*			
		TCX-1	TCX-2	DCB-1	DCB-2
S2		↑			
S3					
S4		↑		↓	
SX1					
SX2					
SX3					
SX4					
SDUP1					

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.

METALS ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 6000/7000.

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 times for metals (except mercury) analyses is 180 days from date of collection. The holding time for mercury is 28 days from sample collection to analysis.

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

2. Blank Contamination

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

Analytes were detected in the blanks, since all samples were at a concentration greater than the blank action level no data were qualified based on blank content.

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 and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

The CRDL standard recoveries were within acceptable 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 (MS)

The MS recoveries were below control limits for antimony and selenium. Data for antimony and selenium were qualified as estimated in soil samples, based on the deviations.

4.2 Laboratory Duplicate

The laboratory duplicate result for zinc was above the control limit. Data for zinc were qualified as estimated in water samples, based on the deviation.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SX4 / SDUP-1	aluminum	4280	4000	6.7%
	antimony	0.14J	0.92	147.1%
	arsenic	4.6	51.3	167.0%
	barium	51.4	63.1	20.4%
	beryllium	0.27	0.29	3.7%
	cadmium	0.22	0.28	24.0%
	calcium	1090	1210	10.4%
	chromium	9.7	12.6	26.0%
	cobalt	4.9	6.2	23.4%
	copper	11.6	20.0	53.1%
	iron	15200	33400	78.4%
	lead	13.6	24.6	57.5%
	magnesium	2170	1670	26.0%
	manganese	192	247	25.0%
	nickel	10.0	20.5	68.6%
	potassium	816	913	11.2%
	selenium	0.37J	1.2	105.7%

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SX4 / SDUP-1	silver	0.055J	0.078J	34.5%
	sodium	46.2	77.4	50.4%
	thallium	0.056J	0.12J	72.7%
	vanadium	9.2	9.4	2.1%
	zinc	51.0	66.0	25.6%
	mercury	0.11	0.12	8.6%
W1A / W1B	aluminum	85.7	64.5	28.2%
	antimony	0.40J	1.8J	127.2%
	arsenic	0.35J	ND (0.26)	AC
	barium	10.2	9.4J	8.1%
	calcium	10500	9650	8.4%
	chromium	4.0	2.5	46.1%
	cobalt	0.081J	0.057J	34.7%
	copper	2.8	3.7	27.6%
	iron	213	193	9.8%
	lead	0.41J	0.61J	39.2%
	magnesium	1640	1440	12.9%
	manganese	26.0	23.7	9.2%
	nickel	1.2	19.9	177.%2
	potassium	657	590	10.7%
	sodium	8540	7670	10.7%
	thallium	0.055J	ND (0.048)	AC
	vanadium	ND (0.49)	0.88J	AC
	zinc	20.1	12.5	46.6%

ND not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.
AC RPD are acceptable

Duplicate results are unacceptable for antimony, arsenic and selenium in one set and antimony and nickel in the second set. Data for antimony arsenic and selenium were qualified as estimated in soil samples and data for antimony and nickel were qualified as estimated in water samples.

6. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

7. Serial Dilution

Several analytes associated with the serial dilution analysis exhibited %Ds greater than control limits. Soil sample results for analytes antimony, lead, sodium, vanadium and zinc and iron and zinc in water associates sample results were qualified as estimated.
.

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.

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 specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Form I to IX			
Are all forms labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Are pH values listed?			X
pH for metals analyses <2 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Holding Times			
Were mercury analyses performed within 28 days?	X		

	YES	NO	NA
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results corrected for percent solids?	X		
Are all "less than IDL" values coded with "U"?	X		
Is a physical description of samples given on Form I's?		X	
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Is one calibration standard at the CRDL level for all AA (except Hg) analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a 2xCRDL standard (CRI) analyzed for each ICP run?	X		
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?	X		

	YES	NO	NA
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each matrix?	X		
each batch of digested samples?	X		
Is concentration of prep. blank less than the CRDL?		X	
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?		X	

	YES	NO	NA
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	X		
Aqueous			
Are any spike recoveries:			
less than 30%?		X	
between 30-74%?		X	
between 126-150%?		X	
greater then 150%?		X	
Soil/Sediment			
Are any spike recoveries:			
less than 10%?		X	
between 10-74%?	X		
between 126-200%?		X	
greater than 200%?	X		
Form VI (Lab Duplicates)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?		X	
If no, are all results outside the control limits flagged with an * on Form I's and VI?	X		
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?	X		
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?		X	
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?		X	

	YES	NO	NA
Field Duplicates			
Were field duplicates analyzed?	X		
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?	X		
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?		X	
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?	X		
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?		X	
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 50%?		X	
between 50% and 79%?		X	
between 121% and 150%?		X	
greater than 150%?		X	
Solid LCS			
Is LCS "Found" value higher than the control limits?		X	
Is LCS "Found" lower than the control limits?		X	
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
Was field blank(s) used for Serial Dilution Analysis?		X	
Are any required % difference values:			
> 10%?	X		
		X	

	YES	NO	NA
≥100%?			
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?			X
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Were dilutions analyzed for samples with analytical spike recoveries less than 40%?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample?		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	X		
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		

	YES	NO	NA
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?			
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

ADDITIONAL PARAMETERS

Introduction

Analyses were performed according to the following methods:

TOC	Lloyd Kahn
Ammonia Nitrogen	350.1
Total Kjeldahl Nitrogen (TKN)	351.3
Total Phosphorus	365.2
Bulk Density	ASTM D4531-86

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:

ND The analyte was analyzed for but not detected. The associated value is the analyte reporting limit.

B The reported value was obtained from a reading less than the reporting limit (RL) but greater than or equal to the instrument detection limit (IDL).

J The associated numerical value is an estimated concentration only.

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.

* Duplicate analysis not within control limits.

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

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. Rinse blanks measure contamination of samples during field operations.

TKN was detected in the method blank. Since all samples were greater than the blank action level for TKN, no data were qualified based on the blank content.

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.

All calibration data were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

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

The MSD recovery for TKN was below control limits. Data for TKN were qualified as estimated in sample S3 based on the deviation.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SX1-SDUP-1	TOC	19000	16000	17.1%
SX2 / SDUP-1	Ammonia Nitrogen	29.0	12.8	77.5%

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SX2 / SDUP-1	Total Kjeldahl Nitrogen	726 J	1080 J	39.2%
SX3 / SDUP-1	Bulk Density	0.74	0.73	1.3%
	Total Phosphorus	629	400	44.5%

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

Duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

The 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 Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Percent solids calculation present for soils/sediments?	X		
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:		X	
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?	X		
Initial and Continuing Calibration Blanks			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		

	YES	NO	NA
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the RL?	X		
Preparation Blank			
Was one prep. blank analyzed for:			
each batch of digested samples?	X		
each matrix type?	X		
Are all preparation blanks less than the RL?		X	
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?		X	
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all results within the control limits?		X	
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all values within control limits?	X		
Field Duplicates			
Were field duplicates analyzed?	X		
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		

Corrected Sample Analysis Data Sheets

FORM 1 BLASLAND BOUCK & LEE19-MAY-20
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S2

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04050087BBL-TM

Matrix: (soil/water) SEDIMENT Lab Sample ID: AH04819

Sample wt/vol: 30.2(g/mL) G Lab File ID: M2052423

Level: (low/med) LOW Date Received: 05/19/04

% Moisture: 45 Decanted: (Y/N)N Date Extracted: 05/20/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	601	U
208-96-8	Acenaphthylene	601	U
83-32-9	Acenaphthene	601	U
86-73-7	Fluorene	601	U
85-01-8	Phenanthrene	601	U
120-12-7	Anthracene	601	U
206-44-0	Fluoranthene	601	U
129-00-0	Pyrene	601	U
56-55-3	Benzo(a)Anthracene	245	J
218-01-9	Chrysene	601	U
205-99-2	Benzo(b)fluoranthene	601	U
207-08-9	Benzo(k)fluoranthene	601	U
50-32-8	Benzo(a)pyrene	601	U
193-39-5	Indeno(1,2,3-cd)pyrene	601	U
53-70-3	Dibenzo(a,h)anthracene	601	U UJ
191-24-2	Benzo(g,h,i)perylene	601	U UJ
		601	U UJ

FORM I SV

FORM 1 BLASLAND BOUCK & LEE19-MAY-20
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S3

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04050087BBL-TM

Matrix: (soil/water) SEDIMENT Lab Sample ID: AH04820

Sample wt/vol: 30.6(g/mL) G Lab File ID: M2052412

Level: (low/med) LOW Date Received: 05/19/04

% Moisture: 42 Decanted: (Y/N)N Date Extracted: 05/20/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/24/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	35.2	J
208-96-8	Acenaphthylene	566	U
83-32-9	Acenaphthene	566	U
86-73-7	Fluorene	566	U
85-01-8	Phenanthrene	293	J
120-12-7	Anthracene	58.3	J
206-44-0	Fluoranthene	311	J
129-00-0	Pyrene	482	J
56-55-3	Benzo(a)Anthracene	144	J
218-01-9	Chrysene	146	J
205-99-2	Benzo(b)fluoranthene	223	J
207-08-9	Benzo(k)fluoranthene	87.7	J
50-32-8	Benzo(a)pyrene	161	J
193-39-5	Indeno(1,2,3-cd)pyrene	566	U UJ
53-70-3	Dibenzo(a,h)anthracene	566	U UJ
191-24-2	Benzo(g,h,i)perylene	61.8	J

FORM I SV

FORM 1 BLASLAND BOUCK & L19-MAY-20
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S4

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04050087BBL-TM

Matrix: (soil/water) SEDIMENT Lab Sample ID: AH04821

Sample wt/vol: 30.8(g/mL) G Lab File ID: M2052413

Level: (low/med) LOW Date Received: 05/19/04

% Moisture: 42 Decanted: (Y/N)N Date Extracted: 05/20/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/24/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	560	U
208-96-8	Acenaphthylene	560	U
83-32-9	Acenaphthene	560	U
86-73-7	Fluorene	560	U
85-01-8	Phenanthrene	105	J
120-12-7	Anthracene	25.8	J
206-44-0	Fluoranthene	99.7	J
129-00-0	Pyrene	494	J
56-55-3	Benzo(a)Anthracene	129	J
218-01-9	Chrysene	132	J
205-99-2	Benzo(b)fluoranthene	204	J
207-08-9	Benzo(k)fluoranthene	104	J
50-32-8	Benzo(a)pyrene	178	J
193-39-5	Indeno(1,2,3-cd)pyrene	560	U
53-70-3	Dibenzo(a,h)anthracene	560	U
191-24-2	Benzo(g,h,i)perylene	560	U

FORM I SV

FORM 1 BLASLAND BOUCK & L19-MAY-20
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SX1

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04050087BBL-TM

Matrix: (soil/water) SEDIMENT Lab Sample ID: AH04822

Sample wt/vol: 30.2(g/mL) G Lab File ID: M2052418

Level: (low/med) LOW Date Received: 05/19/04

% Moisture: 41 Decanted: (Y/N)N Date Extracted: 05/20/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	558	U
208-96-8	Acenaphthylene	558	U
83-32-9	Acenaphthene	558	U
86-73-7	Fluorene	558	U
85-01-8	Phenanthrene	558	U
120-12-7	Anthracene	558	U
206-44-0	Fluoranthene	558	U
129-00-0	Pyrene	558	U
56-55-3	Benzo(a)Anthracene	225	J
218-01-9	Chrysene	558	U
205-99-2	Benzo(b)fluoranthene	558	U
207-08-9	Benzo(k)fluoranthene	558	U
50-32-8	Benzo(a)pyrene	558	U
193-39-5	Indeno(1,2,3-cd)pyrene	558	U
53-70-3	Dibenzo(a,h)anthracene	558	U
191-24-2	Benzo(g,h,i)perylene	558	U J

FORM I SV

FORM 1 BLASLAND BOUCK & L19-MAY-20
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SX2

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04050087BBL-TM

Matrix: (soil/water) SEDIMENT Lab Sample ID: AH04823

Sample wt/vol: 30.6(g/mL) G Lab File ID: M2052419

Level: (low/med) LOW Date Received: 05/19/04

% Moisture: 25 Decanted: (Y/N)N Date Extracted: 05/20/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	436	U
208-96-8	Acenaphthylene	436	U
83-32-9	Acenaphthene	436	U
86-73-7	Fluorene	436	U
85-01-8	Phenanthrene	436	U
120-12-7	Anthracene	436	U
206-44-0	Fluoranthene	436	U
129-00-0	Pyrene	162	J
56-55-3	Benzo(a)Anthracene	436	U
218-01-9	Chrysene	436	U
205-99-2	Benzo(b)fluoranthene	436	U
207-08-9	Benzo(k)fluoranthene	436	U
50-32-8	Benzo(a)pyrene	436	U
193-39-5	Indeno(1,2,3-cd)pyrene	436	U
53-70-3	Dibenzo(a,h)anthracene	436	U
191-24-2	Benzo(g,h,i)perylene	436	U J

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SX3

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04050087BBL-TM

Matrix: (soil/water) SEDIMENT Lab Sample ID: AH04824

Sample wt/vol: 30.2(g/mL) G Lab File ID: M2052420

Level: (low/med) LOW Date Received: 05/19/04

% Moisture: 45 Decanted: (Y/N)N Date Extracted: 05/20/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	603	U
208-96-8	Acenaphthylene	603	U
83-32-9	Acenaphthene	603	U
86-73-7	Fluorene	603	U
85-01-8	Phenanthrene	603	U
120-12-7	Anthracene	603	U
206-44-0	Fluoranthene	603	U
129-00-0	Pyrene	241	J
56-55-3	Benzo(a)Anthracene	603	U
218-01-9	Chrysene	603	U
205-99-2	Benzo(b)fluoranthene	603	U
207-08-9	Benzo(k)fluoranthene	603	U
50-32-8	Benzo(a)pyrene	603	U
193-39-5	Indeno(1,2,3-cd)pyrene	603	U
53-70-3	Dibenzo(a,h)anthracene	603	U
191-24-2	Benzo(g,h,i)perylene	603	U J

FORM 1 BLASLAND BOUCK & L19-MAY-20
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SX4

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04050087BBL-TM

Matrix: (soil/water) SEDIMENT Lab Sample ID: AH04825

Sample wt/vol: 30.7(g/mL) G Lab File ID: M2052421

Level: (low/med) LOW Date Received: 05/19/04

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 05/20/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	40.1	J
208-96-8	Acenaphthylene	403	U
83-32-9	Acenaphthene	56.5	J
86-73-7	Fluorene	81.5	J
85-01-8	Phenanthrene	569	J
120-12-7	Anthracene	124	J
206-44-0	Fluoranthene	460	
129-00-0	Pyrene	572	
56-55-3	Benzo(a)Anthracene	139	J
218-01-9	Chrysene	119	J
205-99-2	Benzo(b)fluoranthene	209	J
207-08-9	Benzo(k)fluoranthene	77.4	J
50-32-8	Benzo(a)pyrene	178	J
193-39-5	Indeno(1,2,3-cd)pyrene	403	U
53-70-3	Dibenzo(a,h)anthracene	403	U
191-24-2	Benzo(g,h,i)perylene	403	U J

FORM I SV

FORM 1 BLASLAND BOUCK & L19-MAY-20
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDUP1

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04050087BBL-TM

Matrix: (soil/water) SEDIMENT Lab Sample ID: AH04826

Sample wt/vol: 30.7(g/mL) G Lab File ID: M2052422

Level: (low/med) LOW Date Received: 05/19/04

% Moisture: 20 Decanted: (Y/N)N Date Extracted: 05/20/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	408	U
208-96-8	Acenaphthylene	408	U
83-32-9	Acenaphthene	408	U
86-73-7	Fluorene	408	U
85-01-8	Phenanthrene	186	J
120-12-7	Anthracene	408	U
206-44-0	Fluoranthene	161	J
129-00-0	Pyrene	283	J
56-55-3	Benzo(a)Anthracene	56.7	J
218-01-9	Chrysene	44.6	J
205-99-2	Benzo(b)fluoranthene	72.3	J
207-08-9	Benzo(k)fluoranthene	408	U
50-32-8	Benzo(a)pyrene	61.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	408	U
53-70-3	Dibenzo(a,h)anthracene	408	U
191-24-2	Benzo(g,h,i)perylene	408	U J

FORM I SV

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04050087
ELAP ID No.:	11078	CLIENT ID:	S2
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH04811
Sample wt(Dry)/vol:	5.5978 (g)	LAB FILE ID:	AH04811
% Moisture:	45.7	DATE RECEIVED:	5/20/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	5/20/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	5/25/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	50
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_052204G.XLS NEA File ID: S:\CERT04\04050087.XLS 1D-1-1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	120	
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	18	
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
1336-36-3	Total PCB	138	

[1] Form based upon NYS-DEC Form 1-CLP-PEST FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04050087
ELAP ID No.:	11078	CLIENT ID:	S3
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH04812
Sample wt(Dry)/vol:	6.3065 (g)	LAB FILE ID:	AH04812
% Moisture:	42.6	DATE RECEIVED:	5/20/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	5/20/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	5/25/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	40
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_052204G.XLS

NEA File ID: S:\CERT04\04050087.XLS 1D-1-2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.73	U
11104-28-2	Aroclor 1221	79	
11141-16-5	Aroclor 1232	0.73	U
53469-21-9	Aroclor 1242	22	
12672-29-6	Aroclor 1248	0.73	U
11097-69-1	Aroclor 1254	0.73	U
11096-82-5	Aroclor 1260	0.73	U
1336-36-3	Total PCB	101	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04050087
ELAP ID No.:	11078	CLIENT ID:	S4
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH04813
Sample wt(Dry)/vol:	6.1986 (g)	LAB FILE ID:	AH04813
% Moisture:	41.1	DATE RECEIVED:	5/20/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	5/20/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	5/25/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	70
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_052204G.XLS

NEA File ID: S:\CERT04\04050087.XLS 1D-1-3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	1.3	U
11104-28-2	Aroclor 1221	140	
11141-16-5	Aroclor 1232	1.3	U
53469-21-9	Aroclor 1242	22	
12672-29-6	Aroclor 1248	1.3	U
11097-69-1	Aroclor 1254	1.3	U
11096-82-5	Aroclor 1260	1.3	U
1336-36-3	Total PCB	162	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04050087
ELAP ID No.:	11078	CLIENT ID:	SX1
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH04814
Sample wt(Dry)/vol:	6.3455 (g)	LAB FILE ID:	AH04814
% Moisture:	41.5	DATE RECEIVED:	5/20/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	5/20/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	5/25/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	3
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_052204G.XLS

NEA File ID: S:\CERT04\04050087.XLS 1D-1-4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.054	U
11104-28-2	Aroclor 1221	5.5	
11141-16-5	Aroclor 1232	0.054	U
53469-21-9	Aroclor 1242	3.4	
12672-29-6	Aroclor 1248	0.054	U
11097-69-1	Aroclor 1254	0.054	U
11096-82-5	Aroclor 1260	0.054	U
1336-36-3	Total PCB	8.9	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No. :	04050087
ELAP ID No. :	11078	CLIENT ID :	SX2
Matrix :	SEDIMENT	LAB SAMPLE ID :	AH04815
Sample wt(Dry)/vol:	7.6926 (g)	LAB FILE ID :	AH04815
% Moisture :	28.7	DATE RECEIVED :	5/20/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED :	5/20/2004
Conc. Extract Volume :	25000 (µL)	DATE ANALYZED :	5/25/2004
Injection Volume :	1 (µL)	DILUTION FACTOR :	3
Method :	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP :	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_052204G.XLS

NEA File ID: S:\CERT04\04050087.XLS 1D-1-5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.045	U
11104-28-2	Aroclor 1221	4.7	
11141-16-5	Aroclor 1232	0.045	U
53469-21-9	Aroclor 1242	1.9	
12672-29-6	Aroclor 1248	0.045	U
11097-69-1	Aroclor 1254	0.045	U
11096-82-5	Aroclor 1260	0.045	U
1336-36-3	Total PCB	6.6	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04050087
ELAP ID No.:	11078	CLIENT ID:	SX3
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH04816
Sample wt(Dry)/vol:	5.8518 (g)	LAB FILE ID:	AH04816
% Moisture:	44.7	DATE RECEIVED:	5/20/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	5/20/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	5/25/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	10
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_052204G.XLS NEA File ID: S:\CERT04\04050087.XLS 1D-1-6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.20	U
11104-28-2	Aroclor 1221	19	
11141-16-5	Aroclor 1232	0.20	U
53469-21-9	Aroclor 1242	7.8	
12672-29-6	Aroclor 1248	0.20	U
11097-69-1	Aroclor 1254	0.20	U
11096-82-5	Aroclor 1260	0.20	U
1336-36-3	Total PCB	26.8	

[1] Form based upon NYS-DEC Form 1-CLP-PEST FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04050087
ELAP ID No.:	11078	CLIENT ID:	SX4
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH04817
Sample wt(Dry)/vol:	8.287 (g)	LAB FILE ID:	AH04817
% Moisture:	20.6	DATE RECEIVED:	5/20/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	5/20/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	5/25/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	5
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_052204G.XLS

NEA File ID: S:\CERT04\04050087.XLS 1D-1-7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.069	U
11104-28-2	Aroclor 1221	5.5	
11141-16-5	Aroclor 1232	0.069	U
53469-21-9	Aroclor 1242	6.9	
12672-29-6	Aroclor 1248	0.069	U
11097-69-1	Aroclor 1254	0.069	U
11096-82-5	Aroclor 1260	0.069	U
1336-36-3	Total PCB	12.4	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04050087
ELAP ID No.:	11078	CLIENT ID:	S Dup 1
Matrix:	SEDIMENT	LAB SAMPLE ID:	AH04818
Sample wt(Dry)/vol:	8.1618 (g)	LAB FILE ID:	AH04818
% Moisture:	24.7	DATE RECEIVED:	5/20/2004
Extraction :	GEHR METHOD 3545 (ASE)	DATE EXTRACTED:	5/20/2004
Conc. Extract Volume:	25000 (µL)	DATE ANALYZED:	5/25/2004
Injection Volume:	1 (µL)	DILUTION FACTOR:	4
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\SOIL_GC_18F_052204G.XLS

NEA File ID: S:\CERT04\04050087.XLS 1D-1-8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/kg)	Q
12674-11-2	Aroclor 1016	0.056	U
11104-28-2	Aroclor 1221	5.0	
11141-16-5	Aroclor 1232	0.056	U
53469-21-9	Aroclor 1242	1.9	
12672-29-6	Aroclor 1248	0.056	U
11097-69-1	Aroclor 1254	0.056	U
11096-82-5	Aroclor 1260	0.056	U
1336-36-3	Total PCB	6.9	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWM8 **Client ID:** S3

Matrix: SOIL **Date Received:** 5/20/2004 **Level:** LOW

% Solids: 56.0 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4163057 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	9360	mg/Kg			MS	0.45	1.00	6/15/2004	15:50:58
Antimony	7440-36-0	1.4	mg/Kg		~~NE~~ J	MS	0.011	1.00	6/15/2004	15:50:58
Arsenic	7440-38-2	2.0	mg/Kg		J	MS	0.046	1.00	6/15/2004	15:50:58
Barium	7440-39-3	74.9	mg/Kg			MS	0.020	1.00	6/15/2004	15:50:58
Beryllium	7440-41-7	0.38	mg/Kg			MS	0.010	1.00	6/15/2004	15:50:58
Cadmium	7440-43-9	7.0	mg/Kg			MS	0.012	1.00	6/15/2004	15:50:58
Calcium	7440-70-2	4340	mg/Kg			MS	1.4	1.00	6/15/2004	15:50:58
Chromium	7440-47-3	121	mg/Kg			MS	0.10	1.00	6/15/2004	15:50:58
Cobalt	7440-48-4	6.2	mg/Kg			MS	0.005	1.00	6/15/2004	15:50:58
Copper	7440-50-8	26.5	mg/Kg			MS	0.089	1.00	6/15/2004	15:50:58
Iron	7439-89-6	13400	mg/Kg			MS	0.52	1.00	6/15/2004	15:50:58
Lead	7439-92-1	144	mg/Kg		~~E~~ J	MS	0.042	5.00	6/15/2004	15:55:13
Magnesium	7439-95-4	3610	mg/Kg			MS	0.23	1.00	6/15/2004	15:50:58
Manganese	7439-96-5	159	mg/Kg			MS	0.006	1.00	6/15/2004	15:50:58
Nickel	7440-02-0	12.4	mg/Kg			MS	0.011	1.00	6/15/2004	15:50:58
Potassium	7440-09-7	762	mg/Kg			MS	0.75	1.00	6/15/2004	15:50:58
Selenium	7782-49-2	0.72	mg/Kg	~~J~~	~~N~~ J	MS	0.084	1.00	6/15/2004	15:50:58
Silver	7440-22-4	0.21	mg/Kg			MS	0.009	1.00	6/15/2004	15:50:58
Sodium	7440-23-5	140	mg/Kg		~~E~~ J	MS	1.6	1.00	6/15/2004	15:50:58
Thallium	7440-28-0	0.075	mg/Kg	~~J~~		MS	0.043	5.00	6/15/2004	15:55:13
Vanadium	7440-62-2	26.6	mg/Kg		~~E~~ J	MS	0.088	1.00	6/15/2004	15:50:58
Zinc	7440-66-6	147	mg/Kg		~~E~~ J	MS	0.061	1.00	6/15/2004	15:50:58

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWMX **Client ID:** S2

Matrix: SOIL **Date Received:** 5/20/2004 **Level:** LOW

% Solids: 55.8 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4163057 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	8380	mg/Kg			MS	0.45	1.00	6/15/2004	15:08:24
Antimony	7440-36-0	2.4	mg/Kg		~~NE~~ J	MS	0.011	1.00	6/15/2004	15:08:24
Arsenic	7440-38-2	2.1	mg/Kg		J	MS	0.047	1.00	6/15/2004	15:08:24
Barium	7440-39-3	81.0	mg/Kg			MS	0.020	1.00	6/15/2004	15:08:24
Beryllium	7440-41-7	0.42	mg/Kg			MS	0.010	1.00	6/15/2004	15:08:24
Cadmium	7440-43-9	12.3	mg/Kg			MS	0.012	1.00	6/15/2004	15:08:24
Calcium	7440-70-2	2220	mg/Kg			MS	1.5	1.00	6/15/2004	15:08:24
Chromium	7440-47-3	235	mg/Kg			MS	0.10	1.00	6/15/2004	15:08:24
Cobalt	7440-48-4	5.8	mg/Kg			MS	0.005	1.00	6/15/2004	15:08:24
Copper	7440-50-8	37.8	mg/Kg			MS	0.090	1.00	6/15/2004	15:08:24
Iron	7439-89-6	11900	mg/Kg			MS	0.52	1.00	6/15/2004	15:08:24
Lead	7439-92-1	219	mg/Kg		~~E~~ J	MS	0.008	1.00	6/15/2004	15:08:24
Magnesium	7439-95-4	2230	mg/Kg			MS	0.23	1.00	6/15/2004	15:08:24
Manganese	7439-96-5	107	mg/Kg			MS	0.006	1.00	6/15/2004	15:08:24
Nickel	7440-02-0	12.8	mg/Kg			MS	0.011	1.00	6/15/2004	15:08:24
Potassium	7440-09-7	835	mg/Kg			MS	0.75	1.00	6/15/2004	15:08:24
Selenium	7782-49-2	0.74	mg/Kg	~~J~~	~~N~~ J	MS	0.084	1.00	6/15/2004	15:08:24
Silver	7440-22-4	0.26	mg/Kg			MS	0.009	1.00	6/15/2004	15:08:24
Sodium	7440-23-5	148	mg/Kg		~~E~~ J	MS	1.6	1.00	6/15/2004	15:08:24
Thallium	7440-28-0	0.097	mg/Kg	~~J~~		MS	0.009	1.00	6/15/2004	15:08:24
Vanadium	7440-62-2	33.9	mg/Kg		~~E~~ J	MS	0.088	1.00	6/15/2004	15:08:24
Zinc	7440-66-6	194	mg/Kg		~~E~~ J	MS	0.061	1.00	6/15/2004	15:08:24

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWND **Client ID:** S4D

Matrix: SOIL **Date Received:** 5/20/2004 **Level:** LOW

% Solids: 56.1 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4163057 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	7760	mg/Kg			MS	0.45	1.00	6/15/2004	15:59:29
Antimony	7440-36-0	1.4	mg/Kg		~~NE~~ J	MS	0.011	1.00	6/15/2004	15:59:29
Arsenic	7440-38-2	1.8	mg/Kg	J		MS	0.046	1.00	6/15/2004	15:59:29
Barium	7440-39-3	64.6	mg/Kg			MS	0.020	1.00	6/15/2004	15:59:29
Beryllium	7440-41-7	0.36	mg/Kg			MS	0.010	1.00	6/15/2004	15:59:29
Cadmium	7440-43-9	6.3	mg/Kg			MS	0.012	1.00	6/15/2004	15:59:29
Calcium	7440-70-2	2560	mg/Kg			MS	1.4	1.00	6/15/2004	15:59:29
Chromium	7440-47-3	195	mg/Kg			MS	0.10	1.00	6/15/2004	15:59:29
Cobalt	7440-48-4	5.9	mg/Kg			MS	0.005	1.00	6/15/2004	15:59:29
Copper	7440-50-8	38.0	mg/Kg			MS	0.089	1.00	6/15/2004	15:59:29
Iron	7439-89-6	10500	mg/Kg			MS	0.52	1.00	6/15/2004	15:59:29
Lead	7439-92-1	192	mg/Kg		E J	MS	0.042	5.00	6/15/2004	16:03:45
Magnesium	7439-95-4	2100	mg/Kg			MS	0.23	1.00	6/15/2004	15:59:29
Manganese	7439-96-5	105	mg/Kg			MS	0.006	1.00	6/15/2004	15:59:29
Nickel	7440-02-0	12.4	mg/Kg			MS	0.011	1.00	6/15/2004	15:59:29
Potassium	7440-09-7	788	mg/Kg			MS	0.75	1.00	6/15/2004	15:59:29
Selenium	7782-49-2	0.66	mg/Kg	J	N J	MS	0.084	1.00	6/15/2004	15:59:29
Silver	7440-22-4	0.25	mg/Kg			MS	0.009	1.00	6/15/2004	15:59:29
Sodium	7440-23-5	167	mg/Kg		E J	MS	1.6	1.00	6/15/2004	15:59:29
Thallium	7440-28-0	0.074	mg/Kg	J		MS	0.043	5.00	6/15/2004	16:03:45
Vanadium	7440-62-2	30.7	mg/Kg		E J	MS	0.087	1.00	6/15/2004	15:59:29
Zinc	7440-66-6	173	mg/Kg		E J	MS	0.061	1.00	6/15/2004	15:59:29

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWNH **Client ID:** SX1

Matrix: SOIL **Date Received:** 5/20/2004 **Level:** LOW

% Solids: 54.8 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4163057 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	10100	mg/Kg			MS	0.46	1.00	6/15/2004	16:08:01
Antimony	7440-36-0	0.56	mg/Kg		~~NE~~ J	MS	0.011	1.00	6/15/2004	16:08:01
Arsenic	7440-38-2	2.3	mg/Kg	J		MS	0.047	1.00	6/15/2004	16:08:01
Barium	7440-39-3	55.9	mg/Kg			MS	0.020	1.00	6/15/2004	16:08:01
Beryllium	7440-41-7	0.45	mg/Kg			MS	0.010	1.00	6/15/2004	16:08:01
Cadmium	7440-43-9	2.5	mg/Kg			MS	0.012	1.00	6/15/2004	16:08:01
Calcium	7440-70-2	3030	mg/Kg			MS	1.5	1.00	6/15/2004	16:08:01
Chromium	7440-47-3	53.7	mg/Kg			MS	0.10	1.00	6/15/2004	16:08:01
Cobalt	7440-48-4	8.8	mg/Kg			MS	0.005	1.00	6/15/2004	16:08:01
Copper	7440-50-8	18.4	mg/Kg			MS	0.091	1.00	6/15/2004	16:08:01
Iron	7439-89-6	18400	mg/Kg			MS	0.53	1.00	6/15/2004	16:08:01
Lead	7439-92-1	53.8	mg/Kg		~~E~~ J	MS	0.043	5.00	6/15/2004	16:12:17
Magnesium	7439-95-4	4080	mg/Kg			MS	0.24	1.00	6/15/2004	16:08:01
Manganese	7439-96-5	248	mg/Kg			MS	0.007	1.00	6/15/2004	16:08:01
Nickel	7440-02-0	17.2	mg/Kg			MS	0.011	1.00	6/15/2004	16:08:01
Potassium	7440-09-7	992	mg/Kg			MS	0.77	1.00	6/15/2004	16:08:01
Selenium	7782-49-2	0.66	mg/Kg	~~J~~	~~N~~ J	MS	0.086	1.00	6/15/2004	16:08:01
Silver	7440-22-4	0.18	mg/Kg	~~J~~		MS	0.009	1.00	6/15/2004	16:08:01
Sodium	7440-23-5	102	mg/Kg		~~E~~ J	MS	1.6	1.00	6/15/2004	16:08:01
Thallium	7440-28-0	0.065	mg/Kg	~~J~~		MS	0.044	5.00	6/15/2004	16:12:17
Vanadium	7440-62-2	18.0	mg/Kg		~~E~~ J	MS	0.089	1.00	6/15/2004	16:08:01
Zinc	7440-66-6	119	mg/Kg		~~E~~ J	MS	0.062	1.00	6/15/2004	16:08:01

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWNJ **Client ID:** SX2

Matrix: SOIL **Date Received:** 5/20/2004 **Level:** LOW

% Solids: 72.9 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4163057 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	5090	mg/Kg			MS	0.34	1.00	6/15/2004	16:16:34
Antimony	7440-36-0	0.18	mg/Kg	~~J~~	~~NE~~ J	MS	0.008	1.00	6/15/2004	16:16:34
Arsenic	7440-38-2	1.3	mg/Kg	J		MS	0.036	1.00	6/15/2004	16:16:34
Barium	7440-39-3	38.5	mg/Kg			MS	0.015	1.00	6/15/2004	16:16:34
Beryllium	7440-41-7	0.33	mg/Kg			MS	0.007	1.00	6/15/2004	16:16:34
Cadmium	7440-43-9	0.43	mg/Kg			MS	0.009	1.00	6/15/2004	16:16:34
Calcium	7440-70-2	1970	mg/Kg			MS	1.1	1.00	6/15/2004	16:16:34
Chromium	7440-47-3	28.6	mg/Kg			MS	0.077	1.00	6/15/2004	16:16:34
Cobalt	7440-48-4	4.3	mg/Kg			MS	0.004	1.00	6/15/2004	16:16:34
Copper	7440-50-8	144	mg/Kg			MS	0.069	1.00	6/15/2004	16:16:34
Iron	7439-89-6	9020	mg/Kg			MS	0.40	1.00	6/15/2004	16:16:34
Lead	7439-92-1	19.8	mg/Kg		~~E~~ J	MS	0.032	5.00	6/15/2004	16:20:51
Magnesium	7439-95-4	1750	mg/Kg			MS	0.18	1.00	6/15/2004	16:16:34
Manganese	7439-96-5	77.7	mg/Kg			MS	0.005	1.00	6/15/2004	16:16:34
Nickel	7440-02-0	7.0	mg/Kg			MS	0.008	1.00	6/15/2004	16:16:34
Potassium	7440-09-7	653	mg/Kg			MS	0.58	1.00	6/15/2004	16:16:34
Selenium	7782-49-2	0.44	mg/Kg	~~J~~	~~N~~ J	MS	0.064	1.00	6/15/2004	16:16:34
Silver	7440-22-4	0.091	mg/Kg	~~J~~		MS	0.007	1.00	6/15/2004	16:16:34
Sodium	7440-23-5	117	mg/Kg		~~E~~ J	MS	1.2	1.00	6/15/2004	16:16:34
Thallium	7440-28-0	0.69 ~~0.033~~	mg/Kg	U		MS	0.033	5.00	6/15/2004	16:20:51
Vanadium	7440-62-2	13.0	mg/Kg		~~E~~ J	MS	0.067	1.00	6/15/2004	16:16:34
Zinc	7440-66-6	54.4	mg/Kg		~~E~~ J	MS	0.047	1.00	6/15/2004	16:16:34

Comments:

Laboratory reported NDs to the MDL PJF 6/10/05

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWNK **Client ID:** SX3

Matrix: SOIL **Date Received:** 5/20/2004 **Level:** LOW

% Solids: 56.9 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4163057 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	11100	mg/Kg			MS	0.44	1.00	6/15/2004	16:33:38
Antimony	7440-36-0	0.94	mg/Kg		~~NE~~ J	MS	0.011	1.00	6/15/2004	16:33:38
Arsenic	7440-38-2	2.7	mg/Kg	J		MS	0.046	1.00	6/15/2004	16:33:38
Barium	7440-39-3	69.2	mg/Kg			MS	0.019	1.00	6/15/2004	16:33:38
Beryllium	7440-41-7	0.47	mg/Kg			MS	0.009	1.00	6/15/2004	16:33:38
Cadmium	7440-43-9	4.0	mg/Kg			MS	0.012	1.00	6/15/2004	16:33:38
Calcium	7440-70-2	3690	mg/Kg			MS	1.4	1.00	6/15/2004	16:33:38
Chromium	7440-47-3	124	mg/Kg			MS	0.098	1.00	6/15/2004	16:33:38
Cobalt	7440-48-4	8.3	mg/Kg			MS	0.005	1.00	6/15/2004	16:33:38
Copper	7440-50-8	29.8	mg/Kg			MS	0.088	1.00	6/15/2004	16:33:38
Iron	7439-89-6	19200	mg/Kg			MS	0.51	1.00	6/15/2004	16:33:38
Lead	7439-92-1	105	mg/Kg		~~E~~ J	MS	0.008	1.00	6/15/2004	16:33:38
Magnesium	7439-95-4	4720	mg/Kg			MS	0.23	1.00	6/15/2004	16:33:38
Manganese	7439-96-5	273	mg/Kg			MS	0.006	1.00	6/15/2004	16:33:38
Nickel	7440-02-0	17.8	mg/Kg			MS	0.011	1.00	6/15/2004	16:33:38
Potassium	7440-09-7	944	mg/Kg			MS	0.74	1.00	6/15/2004	16:33:38
Selenium	7782-49-2	0.65	mg/Kg	~~J~~	~~N~~ J	MS	0.083	1.00	6/15/2004	16:33:38
Silver	7440-22-4	0.24	mg/Kg			MS	0.009	1.00	6/15/2004	16:33:38
Sodium	7440-23-5	106	mg/Kg		~~E~~ J	MS	1.6	1.00	6/15/2004	16:33:38
Thallium	7440-28-0	0.091	mg/Kg	~~J~~		MS	0.008	1.00	6/15/2004	16:33:38
Vanadium	7440-62-2	24.5	mg/Kg		~~E~~ J	MS	0.086	1.00	6/15/2004	16:33:38
Zinc	7440-66-6	178	mg/Kg		~~E~~ J	MS	0.060	1.00	6/15/2004	16:33:38

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWNL **Client ID:** SX4L

Matrix: SOIL **Date Received:** 5/20/2004 **Level:** LOW

% Solids: 90.2 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4163057 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	4280	mg/Kg			MS	0.28	1.00	6/15/2004	16:42:09
Antimony	7440-36-0	0.14	mg/Kg	~~J~~	~~NE~~ J	MS	0.007	1.00	6/15/2004	16:42:09
Arsenic	7440-38-2	4.6	mg/Kg	J		MS	0.029	1.00	6/15/2004	16:42:09
Barium	7440-39-3	51.4	mg/Kg			MS	0.012	1.00	6/15/2004	16:42:09
Beryllium	7440-41-7	0.27	mg/Kg			MS	0.006	1.00	6/15/2004	16:42:09
Cadmium	7440-43-9	0.22	mg/Kg			MS	0.008	1.00	6/15/2004	16:42:09
Calcium	7440-70-2	1090	mg/Kg			MS	0.90	1.00	6/15/2004	16:42:09
Chromium	7440-47-3	9.7	mg/Kg			MS	0.062	1.00	6/15/2004	16:42:09
Cobalt	7440-48-4	4.9	mg/Kg			MS	0.003	1.00	6/15/2004	16:42:09
Copper	7440-50-8	11.6	mg/Kg			MS	0.055	1.00	6/15/2004	16:42:09
Iron	7439-89-6	15200	mg/Kg			MS	0.32	1.00	6/15/2004	16:42:09
Lead	7439-92-1	13.6	mg/Kg		~~E~~ J	MS	0.005	1.00	6/15/2004	16:42:09
Magnesium	7439-95-4	2170	mg/Kg			MS	0.14	1.00	6/15/2004	16:42:09
Manganese	7439-96-5	192	mg/Kg			MS	0.004	1.00	6/15/2004	16:42:09
Nickel	7440-02-0	10.0	mg/Kg			MS	0.007	1.00	6/15/2004	16:42:09
Potassium	7440-09-7	816	mg/Kg			MS	0.47	1.00	6/15/2004	16:42:09
Selenium	7782-49-2	0.37	mg/Kg	~~J~~	~~N~~ J	MS	0.052	1.00	6/15/2004	16:42:09
Silver	7440-22-4	0.055	mg/Kg	~~J~~		MS	0.006	1.00	6/15/2004	16:42:09
Sodium	7440-23-5	46.2	mg/Kg		~~E~~ J	MS	0.99	1.00	6/15/2004	16:42:09
Thallium	7440-28-0	0.056	mg/Kg	~~J~~		MS	0.005	1.00	6/15/2004	16:42:09
Vanadium	7440-62-2	9.2	mg/Kg		~~E~~ J	MS	0.054	1.00	6/15/2004	16:42:09
Zinc	7440-66-6	51.0	mg/Kg		~~E~~ J	MS	0.038	1.00	6/15/2004	16:42:09

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWNM **Client ID:** SDUP1

Matrix: SOIL **Date Received:** 5/20/2004 **Level:** LOW

% Solids: 84.5 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Prep Batch ID: 4163057 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	4000	mg/Kg			MS	0.30	1.00	6/15/2004	16:50:41
Antimony	7440-36-0	0.92	mg/Kg		~~NE~~ J	MS	0.007	1.00	6/15/2004	16:50:41
Arsenic	7440-38-2	51.3	mg/Kg	J		MS	0.031	1.00	6/15/2004	16:50:41
Barium	7440-39-3	63.1	mg/Kg			MS	0.013	1.00	6/15/2004	16:50:41
Beryllium	7440-41-7	0.26	mg/Kg			MS	0.006	1.00	6/15/2004	16:50:41
Cadmium	7440-43-9	0.28	mg/Kg			MS	0.008	1.00	6/15/2004	16:50:41
Calcium	7440-70-2	1210	mg/Kg			MS	0.96	1.00	6/15/2004	16:50:41
Chromium	7440-47-3	12.6	mg/Kg			MS	0.066	1.00	6/15/2004	16:50:41
Cobalt	7440-48-4	6.2	mg/Kg			MS	0.003	1.00	6/15/2004	16:50:41
Copper	7440-50-8	20.0	mg/Kg			MS	0.059	1.00	6/15/2004	16:50:41
Iron	7439-89-6	33400	mg/Kg			MS	1.7	5.00	6/15/2004	16:54:57
Lead	7439-92-1	24.6	mg/Kg		~~E~~ J	MS	0.006	1.00	6/15/2004	16:50:41
Magnesium	7439-95-4	1670	mg/Kg			MS	0.15	1.00	6/15/2004	16:50:41
Manganese	7439-96-5	247	mg/Kg			MS	0.004	1.00	6/15/2004	16:50:41
Nickel	7440-02-0	20.5	mg/Kg			MS	0.007	1.00	6/15/2004	16:50:41
Potassium	7440-09-7	913	mg/Kg			MS	0.50	1.00	6/15/2004	16:50:41
Selenium	7782-49-2	1.2	mg/Kg		~~N~~ J	MS	0.056	1.00	6/15/2004	16:50:41
Silver	7440-22-4	0.078	mg/Kg	~~J~~		MS	0.006	1.00	6/15/2004	16:50:41
Sodium	7440-23-5	77.4	mg/Kg		~~E~~ J	MS	1.1	1.00	6/15/2004	16:50:41
Thallium	7440-28-0	0.12	mg/Kg	~~J~~		MS	0.006	1.00	6/15/2004	16:50:41
Vanadium	7440-62-2	9.4	mg/Kg		~~E~~ J	MS	0.058	1.00	6/15/2004	16:50:41
Zinc	7440-66-6	66.0	mg/Kg		~~E~~ J	MS	0.040	1.00	6/15/2004	16:50:41

Comments:

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWNN **Client ID:** W1A

Matrix: WATER **Date Received:** 5/20/2004 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: 4163058 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	85.7	ug/L			MS	2.5	1.00	6/15/2004	14:25:47
Antimony	7440-36-0	0.40	ug/L	~~J~~		MS	0.060	1.00	6/15/2004	18:41:45
Arsenic	7440-38-2	0.35	ug/L	~~J~~		MS	0.26	1.00	6/15/2004	14:25:47
Barium	7440-39-3	10.2	ug/L			MS	0.11	1.00	6/15/2004	14:25:47
Beryllium	7440-41-7	1.00 ~~0.054~~	ug/L	U		MS	0.054	1.00	6/15/2004	14:25:47
Cadmium	7440-43-9	1.00 ~~0.068~~	ug/L	U		MS	0.068	1.00	6/15/2004	14:25:47
Calcium	7440-70-2	10500	ug/L			MS	8.1	1.00	6/15/2004	14:25:47
Chromium	7440-47-3	4.0	ug/L			MS	0.56	1.00	6/15/2004	14:25:47
Cobalt	7440-48-4	0.081	ug/L	~~J~~		MS	0.029	1.00	6/15/2004	14:25:47
Copper	7440-50-8	2.8	ug/L			MS	0.50	1.00	6/15/2004	14:25:47
Iron	7439-89-6	213	ug/L		~~E~~ J	MS	2.9	1.00	6/15/2004	14:25:47
Lead	7439-92-1	0.41	ug/L	~~J~~		MS	0.047	1.00	6/15/2004	14:25:47
Magnesium	7439-95-4	1640	ug/L			MS	1.3	1.00	6/15/2004	14:25:47
Manganese	7439-96-5	26.0	ug/L			MS	0.036	1.00	6/15/2004	14:25:47
Nickel	7440-02-0	1.2	ug/L	J		MS	0.060	1.00	6/15/2004	14:25:47
Potassium	7440-09-7	657	ug/L			MS	4.2	1.00	6/15/2004	14:25:47
Selenium	7782-49-2	5.00 ~~0.47~~	ug/L	U		MS	0.47	1.00	6/15/2004	14:25:47
Silver	7440-22-4	1.00 ~~0.051~~	ug/L	U		MS	0.051	1.00	6/15/2004	14:25:47
Sodium	7440-23-5	2.00 ~~8540~~	ug/L			MS	8.9	1.00	6/15/2004	14:25:47
Thallium	7440-28-0	0.055	ug/L	~~J~~		MS	0.048	1.00	6/15/2004	14:25:47
Vanadium	7440-62-2	2.00 ~~0.49~~	ug/L	U		MS	0.49	1.00	6/15/2004	14:25:47
Zinc	7440-66-6	20.1	ug/L		~~E*~~ J	MS	0.34	1.00	6/15/2004	14:25:47

Comments:

Laboratory ~~was~~ reported Non detects to the mdl. PJF 6/10/05

STL Pittsburgh

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: BB&L **SDG No.:** C4E220207 **Method Type:**

Sample ID: GGWNP **Client ID:** W1B

Matrix: WATER **Date Received:** 5/20/2004 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: 4163058 **Prep Date:** 6/11/2004

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical Date	Analytical Time
Aluminum	7429-90-5	64.5	ug/L			MS	2.5	1.00	6/15/2004	14:51:22
Antimony	7440-36-0	1.8	ug/L	~~J~~		MS	0.060	1.00	6/15/2004	14:51:22
Arsenic	7440-38-2	1.00 ~~0.26~~	ug/L	U		MS	0.26	1.00	6/15/2004	14:51:22
Barium	7440-39-3	9.4	ug/L	J		MS	0.11	1.00	6/15/2004	14:51:22
Beryllium	7440-41-7	1.00 ~~0.054~~	ug/L	U		MS	0.054	1.00	6/15/2004	14:51:22
Cadmium	7440-43-9	1.00 ~~0.068~~	ug/L	U		MS	0.068	1.00	6/15/2004	14:51:22
Calcium	7440-70-2	9650	ug/L			MS	8.1	1.00	6/15/2004	14:51:22
Chromium	7440-47-3	2.5	ug/L			MS	0.56	1.00	6/15/2004	14:51:22
Cobalt	7440-48-4	0.057	ug/L	J		MS	0.029	1.00	6/15/2004	14:51:22
Copper	7440-50-8	3.7	ug/L			MS	0.50	1.00	6/15/2004	14:51:22
Iron	7439-89-6	193	ug/L		~~E~~ J	MS	2.9	1.00	6/15/2004	14:51:22
Lead	7439-92-1	0.61	ug/L	~~J~~		MS	0.047	1.00	6/15/2004	14:51:22
Magnesium	7439-95-4	1440	ug/L			MS	1.3	1.00	6/15/2004	14:51:22
Manganese	7439-96-5	23.7	ug/L			MS	0.036	1.00	6/15/2004	14:51:22
Nickel	7440-02-0	19.9	ug/L	J		MS	0.060	1.00	6/15/2004	14:51:22
Potassium	7440-09-7	590	ug/L			MS	4.2	1.00	6/15/2004	14:51:22
Selenium	7782-49-2	5.00 ~~0.47~~	ug/L	U		MS	0.47	1.00	6/15/2004	14:51:22
Silver	7440-22-4	1.00 ~~0.051~~	ug/L	U		MS	0.051	1.00	6/15/2004	14:51:22
Sodium	7440-23-5	7670	ug/L			MS	8.9	1.00	6/15/2004	14:51:22
Thallium	7440-28-0	1.00 ~~0.048~~	ug/L	U		MS	0.048	1.00	6/15/2004	14:51:22
Vanadium	7440-62-2	0.88	ug/L	~~J~~		MS	0.49	1.00	6/15/2004	14:51:22
Zinc	7440-66-6	12.5	ug/L		~~E*~~ J	MS	0.34	1.00	6/15/2004	14:51:22

Comments:

Laboratory reported Nondetects to the mdl PJF 6/10/05

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWM8 **Client ID:** S3

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/11/2004 **Prep Batch:** 4163068

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 44.01

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.021	0.060	0.79		1	CVAA	6/11/2004	10:12

Comments: Lot #: C4E220207 Sample #: 2

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWMX **Client ID:** S2

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/11/2004 **Prep Batch:** 4163068

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 44.22

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.021	0.060	1.6		1	CVAA	6/11/2004	10:08

Comments: Lot #: C4E220207 Sample #: 1

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form I Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWND **Client ID:** S4

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/11/2004 **Prep Batch:** 4163068

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 43.863

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.021	0.059	0.90		1	CVAA	6/11/2004	10:14

Comments: Lot #: C4E220207 Sample #: 3

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form I Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWNH **Client ID:** SX1

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/11/2004 **Prep Batch:** 4163068

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 45.226

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.021	0.061	0.78		1	CVAA	6/11/2004	10:15

Comments: Lot #: C4E220207 Sample #: 4

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form I Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWNJ **Client ID:** SX2

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/11/2004 **Prep Batch:** 4163068

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 27.098

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.016	0.046	0.15		1	CVAA	6/11/2004	10:17

Comments: Lot #: C4E220207 Sample #: 5

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWNK **Client ID:** SX3

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/11/2004 **Prep Batch:** 4163068

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 43.103

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.021	0.059	0.60		1	CVAA	6/11/2004	10:18

Comments: Lot #: C4E220207 Sample #: 6

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWNL **Client ID:** SX4

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/11/2004 **Prep Batch:** 4163068

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 9.827

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.013	0.037	0.11		1	CVAA	6/11/2004	10:23

Comments: Lot #: C4E220207 Sample #: 7

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWNM **Client ID:** SDUP1

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/11/2004 **Prep Batch:** 4163068

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 15.507

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.014	0.039	0.12		1	CVAA	6/11/2004	10:24

Comments: Lot #: C4E220207 Sample #: 8

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form I Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWNN **Client ID:** W1A

Matrix: Water **Units:** ug/L **Prep Date:** 6/9/2004 **Prep Batch:** 4161075

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.071	0.20	0.071	U	1	CVAA	6/9/2004	11:52

Comments: Lot #: C4E220207 Sample #: 9

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GGWNP **Client ID:** W1B

Matrix: Water **Units:** ug/L **Prep Date:** 6/9/2004 **Prep Batch:** 4161075

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.071	0.20	0.071	U	1	CVAA	6/9/2004	12:01

Comments: Lot #: C4E220207 Sample #: 10

5.04.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

BBL GE Treatability Study

Ammonia Nitrogen

Lab Name: STL PITTSBURGH
Client Name: BLASLAND BOUCK & LEE INC
Matrix: SOLID

Method: MCAWW 350.1
Lot Number: C4E220207

distillation,midi

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
S2	C4E220207 001	GGWMX1A	96.7	mg/kg	9.0	1	6/14/2004 - 6/16/2004 00:00	4166212
S3	C4E220207 002	GGWM81A	213	mg/kg	17.9	2	6/14/2004 - 6/16/2004 00:00	4166212
S4	C4E220207 003	GGWND1A	75.2	mg/kg	8.9	1	6/14/2004 - 6/16/2004 00:00	4166212
SX1	C4E220207 004	GGWNH1A	82.5	mg/kg	9.1	1	6/14/2004 - 6/16/2004 00:00	4166212
SX2	C4E220207 005	GGWNJ1A	29.0	mg/kg	6.9	1	6/14/2004 - 6/16/2004 00:00	4166212
SX3	C4E220207 006	GGWNK1A	111	mg/kg	8.8	1	6/14/2004 - 6/16/2004 00:00	4166212
SX4	C4E220207 007	GGWNL1A	13.3	mg/kg	5.5	1	6/14/2004 - 6/16/2004 00:00	4166212
SDUP1	C4E220207 008	GGWNM1A	12.8	mg/kg	5.9	1	6/14/2004 - 6/16/2004 00:00	4166212

BBL GE Treatability Study

Total Kjeldahl Nitrogen

Lab Name: STL PITTSBURGH
Client Name: BLASLAND BOUCK & LEE INC
Matrix: SOLID

Method: MCAWW 351.3
Lot Number: C4E220207

Digestion and distillation procedure

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
SDUP1	C4E220207 008	GGWNM1A	1080 J	mg/kg	178	1	6/15/2004 - 6/16/2004 00:00	4168452
SX4	C4E220207 007	GGWNL1A	1080 J	mg/kg	166	1	6/15/2004 - 6/16/2004 00:00	4168452
SX3	C4E220207 006	GGWNK1A	1340 J	mg/kg	264	1	6/15/2004 - 6/16/2004 00:00	4168452
SX2	C4E220207 005	GGWNJ1A	726 J	mg/kg	206	1	6/15/2004 - 6/16/2004 00:00	4168452
SX1	C4E220207 004	GGWNH1A	966 J	mg/kg	274	1	6/15/2004 - 6/16/2004 00:00	4168452
S4	C4E220207 003	GGWND1A	1830 J	mg/kg	267	1	6/15/2004 - 6/16/2004 00:00	4168452
S3	C4E220207 002	GGWM81A	1680 J	mg/kg	268	1	6/15/2004 - 6/16/2004 00:00	4168452
S2	C4E220207 001	GGWMX1A	1480 J	mg/kg	269	1	6/15/2004 - 6/16/2004 00:00	4168452

I Method blank contamination. The associated method blank contains the target analyte at a reportable level

BBL GE Treatability Study

Percent Solids

Lab Name: STL PITTSBURGH
Client Name: BLASLAND BOUCK & LEE INC
Matrix: SOLID

Method: MCAWW 160.3 MOD
Lot Number: C4E220207

Total Residue as Percent Solids

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
S2	C4E220207 001	GGWMX1A	55.8	%	1.0	1	5/27/2004 - 5/28/2004 05:32	4148059
S3	C4E220207 002	GGWM81A	56.0	%	1.0	1	5/27/2004 - 5/28/2004 05:32	4148059
S4	C4E220207 003	GGWND1A	56.1	%	1.0	1	5/27/2004 - 5/28/2004 05:32	4148059
SX1	C4E220207 004	GGWNH1A	54.8	%	1.0	1	5/27/2004 - 5/28/2004 05:32	4148059
SX2	C4E220207 005	GGWNJ1AJ	72.9	%	1.0	1	5/27/2004 - 5/28/2004 05:32	4148059
SX3	C4E220207 006	GGWNK1A	56.9	%	1.0	1	5/27/2004 - 5/28/2004 05:32	4148059
SX4	C4E220207 007	GGWNL1A	90.2	%	1.0	1	5/27/2004 - 5/28/2004 05:32	4148059
SDUP1	C4E220207 008	GGWNM1A	84.5	%	1.0	1	5/27/2004 - 5/28/2004 05:32	4148059

BBL GE Treatability Study

Total phosphorus

Lab Name: STL PITTSBURGH
Client Name: BLASLAND BOUCK & LEE INC
Matrix: SOLID

Method: MCAWW 365.2
Lot Number: C4E220207

Total Phosphorus

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
SDUP1	C4E220207 008	GGWNM1A	400	mg/kg	59.2	5	6/14/2004 - 6/14/2004 00:00	4166381
SX4	C4E220207 007	GGWNL1A	304	mg/kg	55.5	5	6/14/2004 - 6/14/2004 00:00	4166381
SX1	C4E220207 004	GGWNH1A	732	mg/kg	91.3	5	6/14/2004 - 6/14/2004 00:00	4166381
SX2	C4E220207 005	GGWNJ1A	353	mg/kg	68.6	5	6/14/2004 - 6/14/2004 00:00	4166381
SX3	C4E220207 006	GGWNK1A	629	mg/kg	87.9	5	6/14/2004 - 6/14/2004 00:00	4166381
S4	C4E220207 003	GGWND1A	671	mg/kg	89.1	5	6/14/2004 - 6/14/2004 00:00	4166381
S2	C4E220207 001	GGWMX1A	690	mg/kg	89.6	5	6/14/2004 - 6/14/2004 00:00	4166381
S3	C4E220207 002	GGWM81A	828	mg/kg	89.3	5	6/14/2004 - 6/14/2004 00:00	4166381

Form 1
TOTAL ORGANIC CARBON

Lab Name: Northeast Analytical, Inc.

Lab Code: NYS ELAP #11078

SDG Number: 04050087

Instrument ID: DC-190/Boat Module

Matrix: SEDIMENT

Units: mg/kg

S:\Data04\[TOC04050087.xls]A

NEA Sample ID	Client Sample ID	Date Received	Date Analyzed	Concentration	Units	Concentration Qualifier	Qualifier
AH04827	S2	5/19/2004	5/21/2004	30000	mg/kg		
AH04828	S3	5/19/2004	5/21/2004	33000	mg/kg		
AH04829	S4	5/19/2004	5/21/2004	34000	mg/kg		
AH04830	SX1	5/19/2004	5/21/2004	19000	mg/kg		
AH04831	SX2	5/19/2004	5/21/2004	9500	mg/kg		
AH04832	SX3	5/19/2004	5/21/2004	29000	mg/kg		
AH04833	SX4	5/19/2004	5/21/2004	15000	mg/kg		
AH04834	S Dup 1	5/19/2004	5/21/2004	16000	mg/kg		

NORTHEAST ANALYTICAL
ENVIRONMENTAL LAB SERVICES
2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
05/27/2004

BLASLAND, BOUCK & LEE
ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13214-0066
CONTACT: DON SAUDA

MATRIX : SEDIMENT
PROJECT: GE HUDSON RIVER TREATABILITY STUDY
DATE RECEIVED: 05/19/2004 **TIME:** 17:00
LOCATION: HUDSON FALLS, NY
SAMPLED BY: A. BAIRD
LAB ELAP #: 11078
CUSTOMER PO: N/A

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	TIME SAMPLED	RESULTS	PQL	UNITS	DATE ANALYZED
Bulk Density								
AH04835	S2	ASTM D4531-86 MOD	05/19/2004	9:45	0.75	0.0005	g/cm3	05/21/2004
AH04836	S3	ASTM D4531-86 MOD	05/19/2004	9:45	0.79	0.0005	g/cm3	05/21/2004
AH04837	S4	ASTM D4531-86 MOD	05/19/2004	9:45	0.78	0.0005	g/cm3	05/21/2004
AH04838	SX1	ASTM D4531-86 MOD	05/19/2004	9:45	0.72	0.0005	g/cm3	05/21/2004
AH04839	SX2	ASTM D4531-86 MOD	05/19/2004	9:45	1.1	0.0005	g/cm3	05/21/2004
AH04840	SX3	ASTM D4531-86 MOD	05/19/2004	9:45	0.74	0.0005	g/cm3	05/21/2004
AH04841	SX4	ASTM D4531-86 MOD	05/19/2004	9:45	1.2	0.0005	g/cm3	05/21/2004
AH04842	S Dup 1	ASTM D4531-86 MOD	05/19/2004	N/A	0.73	0.0005	g/cm3	05/21/2004

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

Method 1613

S2

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0425	0.968			
1,2,3,7,8-PeCDD	0.432	0.152	4.84	34:07	1.44	J
1,2,3,4,7,8-HxCDD	0.631	0.185	4.84	36:42	1.08	J
1,2,3,6,7,8-HxCDD	3.24	0.0667	4.84	36:47	1.21	J
1,2,3,7,8,9-HxCDD	1.45	0.197	4.84	37:02	1.13	J
1,2,3,4,6,7,8-HpCDD	79.5	0.215	4.84	40:06	1.04	
OCDD	1010	0.519	9.68	44:22	0.88	
2,3,7,8-TCDF	1.81	0.143	0.968	30:35	0.79	
1,2,3,7,8-PeCDF	0.430	0.117	4.84	33:19	1.40	J
2,3,4,7,8-PeCDF	3.21	0.146	4.84	33:56	1.54	J
1,2,3,4,7,8-HxCDF	1.54	0.141	4.84	35:59	1.21	J
1,2,3,6,7,8-HxCDF	1.03	0.145	4.84	36:05	1.21	J
2,3,4,6,7,8-HxCDF	1.02	0.0661	4.84	36:34	1.21	J
1,2,3,7,8,9-HxCDF	0.453	0.150	4.84	37:22	1.12	J
1,2,3,4,6,7,8-HpCDF	18.5	0.224	4.84	38:51	1.02	
1,2,3,4,7,8,9-HpCDF	1.40	0.240	4.84	40:46	0.93	J
OCDF	55.7	2.14	9.68	44:40	0.88	
Total TCDDs	2.64	0.0425	0.968			
Total PeCDDs	9.62	0.152	4.84			~~Q~~ J
Total HxCDDs	36.8	0.0667	4.84			~~Q~~ J
Total HpCDDs	177	0.215	4.84			
Total TCDFs	51.0	0.143	0.968			
Total PeCDFs	23.4	0.117	4.84			~~Q~~ J
Total HxCDFs	25.7	0.0661	4.84			
Total HpCDFs	63.7	0.224	4.84			
ITEF TEQ (ND=0)	5.02					
ITEF TEQ (ND=½)	5.52					

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: S2

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-1B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 20.54 grams
Solids / Lipids: 50.3 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-4
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Method 1613

S2

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	2.13	106	31:16	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	2.08	104	34:06	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.30	115	36:41	1.28	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.98	98.8	36:47	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.25	113	40:05	1.04	
$^{13}C_{12}$-OCDD	4.0	4.14	104	44:21	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.96	98.0	30:35	0.85	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.96	98.2	33:18	1.70	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.85	92.4	33:55	1.65	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	2.10	105	35:59	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.93	96.6	36:05	0.50	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.98	99.1	36:34	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	2.13	106	37:21	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.91	95.3	38:50	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.95	97.7	40:46	0.47	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.437	109	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.18	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: S2

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-1B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 20.54 grams
Solids / Lipids: 50.3 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-4
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Analyzed by: JWP
Date: 06-03-04

Reviewed by: [illegible]
Date: 6/3/04

Method 1613
S2
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	1.53	0.120	0.968	16.68	0.80	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.67	0.79	

Client Information			**Sample Information**	
Project Name:	GE Hudson River Treatability Study		Report Basis:	Dry
			Matrix:	Soil
Sample ID:	S2		Weight / Volume:	20.5 g
			Solids / Lipids:	50.3
			Original pH :	NA
Laboratory Information			Batch ID:	WG10343
Project ID:	G135-25		Instrument:	hrms3
Sample ID:	G135-25-1B		Filename:	c01jun04b-18
Collection Date/Time:	05/19/04	11:00	Retchk:	c01jun04b-2
Receipt Date:	05/20/04		Begin ConCal:	c01jun04b-1
Extraction Date:	05/24/04			
Analysis Date/Time:	06/01/04	22:48	Initial Cal:	mCF-c100603

Analyzed by: HMP
Date: 02Jun04

Reviewed by: CEY
Date: 6/8/04

Method 1613

S3

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0434	0.990			
1,2,3,7,8-PeCDD	0.356	0.156	4.95	34:07	1.46	J
1,2,3,4,7,8-HxCDD	ND	0.189	4.95			
1,2,3,6,7,8-HxCDD	2.50	0.0682	4.95	36:47	1.17	J
1,2,3,7,8,9-HxCDD	1.20	0.201	4.95	37:02	1.12	J
1,2,3,4,6,7,8-HpCDD	62.1	0.220	4.95	40:06	1.05	
OCDD	827	0.530	9.90	44:22	0.89	
2,3,7,8-TCDF	1.51	0.146	0.990	30:36	0.78	
1,2,3,7,8-PeCDF	0.317	0.119	4.95	33:19	1.50	J
2,3,4,7,8-PeCDF	1.95	0.149	4.95	33:56	1.54	J
1,2,3,4,7,8-HxCDF	1.12	0.144	4.95	35:59	1.13	J
1,2,3,6,7,8-HxCDF	0.907	0.148	4.95	36:05	1.15	J
2,3,4,6,7,8-HxCDF	0.751	0.0676	4.95	36:34	1.08	J
1,2,3,7,8,9-HxCDF	0.291	0.153	4.95	37:22	1.24	J
1,2,3,4,6,7,8-HpCDF	15.5	0.229	4.95	38:51	1.03	
1,2,3,4,7,8,9-HpCDF	1.10	0.246	4.95	40:46	1.01	J
OCDF	39.0	2.18	9.90	44:40	0.86	
Total TCDDs	2.13	0.0434	0.990			
Total PeCDDs	4.87	0.156	4.95			J
Total HxCDDs	28.7	0.0682	4.95			
Total HpCDDs	138	0.220	4.95			~~Q~~ J
Total TCDFs	38.3	0.146	0.990			
Total PeCDFs	15.5	0.119	4.95			
Total HxCDFs	18.4	0.0676	4.95			
Total HpCDFs	46.7	0.229	4.95			
ITEF TEQ (ND=0)	3.65					
ITEF TEQ (ND=½)	4.40					

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: S3

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-2B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 17.95 grams
Solids / Lipids: 56.3 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-5
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Method 1613

S3

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.98	98.8	31:16	0.80	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.91	95.5	34:06	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.06	103	36:41	1.16	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.81	90.6	36:46	1.13	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.12	106	40:05	1.03	
$^{13}C_{12}$-OCDD	4.0	3.89	97.3	44:20	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.85	92.3	30:35	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.83	91.7	33:18	1.66	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.68	84.1	33:55	1.67	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.93	96.6	35:59	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.77	88.4	36:05	0.50	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.89	94.6	36:34	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.98	99.1	37:20	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.79	89.7	38:50	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.84	91.9	40:45	0.47	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.401	100	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.16	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: S3

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-2B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Analyzed by: JMP
Date: 06-09-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 17.95 grams
Solids / Lipids: 56.3 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-5
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 6/3/04

Method 1613
S3
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	1.33	0.123	0.990	16.66	0.79	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.65	0.79	

Client Information			**Sample Information**		
Project Name:	GE Hudson River Treatability Study		Report Basis:	Dry	
			Matrix:	Soil	
Sample ID:	S3		Weight / Volume:	18.0	g
			Solids / Lipids:	56.3	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG10343	
Project ID:	G135-25		Instrument:	hrms3	
Sample ID:	G135-25-2B		Filename:	c01jun04b-19	
Collection Date/Time:	05/19/04	11:00	Retchk:	c01jun04b-2	
Receipt Date:	05/20/04		Begin ConCal:	c01jun04b-1	
Extraction Date:	05/24/04				
Analysis Date/Time:	06/01/04	23:09	Initial Cal:	mCF-c100603	

Analyzed by: HMP
Date: 02Jun04

Reviewed by: [illegible]
Date: 6/2/04

Method 1613

S4

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	0.490	0.0430	0.980	31:17	0.67	J
1,2,3,7,8-PeCDD	0.808	0.154	4.90	34:07	1.46	J
1,2,3,4,7,8-HxCDD	ND	0.187	4.90			
1,2,3,6,7,8-HxCDD	1.09	0.0675	4.90	36:43	1.17	J
1,2,3,7,8,9-HxCDD	0.559	0.199	4.90	36:58	1.17	J
1,2,3,4,6,7,8-HpCDD	127	0.218	4.90	40:06	1.02	
OCDD	1640	0.525	9.80	44:22	0.88	
2,3,7,8-TCDF	3.70	0.145	0.980	30:37	0.79	
1,2,3,7,8-PeCDF	0.968	0.118	4.90	33:20	1.68	J
2,3,4,7,8-PeCDF	7.61	0.148	4.90	33:57	1.56	
1,2,3,4,7,8-HxCDF	2.83	0.143	4.90	36:00	1.22	J
1,2,3,6,7,8-HxCDF	1.83	0.147	4.90	36:06	1.31	J
2,3,4,6,7,8-HxCDF	1.86	0.0669	4.90	36:35	1.30	J
1,2,3,7,8,9-HxCDF	0.843	0.152	4.90	37:23	1.13	J ~~Q~~
1,2,3,4,6,7,8-HpCDF	29.8	0.227	4.90	38:51	1.03	
1,2,3,4,7,8,9-HpCDF	2.55	0.243	4.90	40:47	1.19	J
OCDF	125	2.16	9.80	44:40	0.87	
Total TCDDs	5.68	0.0430	0.980			~~Q~~ J
Total PeCDDs	19.7	0.154	4.90			~~Q~~ J
Total HxCDDs	62.6	0.0675	4.90			~~Q~~ J
Total HpCDDs	295	0.218	4.90			
Total TCDFs	107	0.145	0.980			~~Q~~ J
Total PeCDFs	50.2	0.118	4.90			~~Q~~ J
Total HxCDFs	45.2	0.0669	4.90			~~Q~~ J
Total HpCDFs	111	0.227	4.90			
ITEF TEQ (ND=0)	9.38					
ITEF TEQ (ND=½)	9.63					

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: S4

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-3B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 18.96 grams
Solids / Lipids: 53.8 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-6
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Method 1613

S4

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.96	97.9	31:16	0.80	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.88	94.0	34:07	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.15	107	36:42	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.78	89.0	36:42	1.21	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.05	102	40:05	1.04	
$^{13}C_{12}$-OCDD	4.0	3.72	92.9	44:21	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.87	93.3	30:35	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.74	87.2	33:19	1.69	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.68	84.2	33:56	1.63	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.89	94.7	35:59	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.73	86.5	36:05	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.84	92.1	36:35	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.93	96.6	37:21	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.74	87.0	38:50	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.80	89.9	40:46	0.47	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.399	99.7	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.80	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:35	1.20	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: S4

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-3B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Analyzed by: JLD
Date: 06-03-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 18.96 grams
Solids / Lipids: 53.8 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-6
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 6/3/04

Method 1613
S4
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	3.41	0.122	0.980	16.67	0.81	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.66	0.79	

Client Information			**Sample Information**		
Project Name:	GE Hudson River Treatability Study		Report Basis:	Dry	
Sample ID:	S4		Matrix:	Soil	
			Weight / Volume:	19.0	g
			Solids / Lipids:	53.8	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG10343	
Project ID:	G135-25		Instrument:	hrms3	
Sample ID:	G135-25-3B		Filename:	c01jun04b-20	
Collection Date/Time:	05/19/04	11:00	Retchk:	c01jun04b-2	
Receipt Date:	05/20/04		Begin ConCal:	c01jun04b-1	
Extraction Date:	05/24/04				
Analysis Date/Time:	06/01/04	23:31	Initial Cal:	mCF-c100603	

Analyzed by: HMP
Date: 02Jun04

Reviewed by: [illegible]
Date: 6/8/04

Method 1613

SX1

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0426	0.972			
1,2,3,7,8-PeCDD	ND	0.153	4.86			
1,2,3,4,7,8-HxCDD	0.288	0.186	4.86	36:42	1.15	J
1,2,3,6,7,8-HxCDD	0.921	0.0670	4.86	36:47	1.15	J
1,2,3,7,8,9-HxCDD	0.496	0.198	4.86	37:02	1.20	J
1,2,3,4,6,7,8-HpCDD	24.1	0.216	4.86	40:06	1.03	
OCDD	357	0.520	9.72	44:22	0.87	
2,3,7,8-TCDF	1.05	0.144	0.972	30:36	0.85	
1,2,3,7,8-PeCDF	0.202	0.117	4.86	33:19	1.35	J
2,3,4,7,8-PeCDF	0.669	0.146	4.86	33:56	1.60	J
1,2,3,4,7,8-HxCDF	0.470	0.142	4.86	36:00	1.17	J
1,2,3,6,7,8-HxCDF	0.575	0.146	4.86	36:06	1.24	J
2,3,4,6,7,8-HxCDF	0.344	0.0663	4.86	36:35	1.22	J
1,2,3,7,8,9-HxCDF	0.173	0.150	4.86	37:22	1.14	J
1,2,3,4,6,7,8-HpCDF	7.22	0.225	4.86	38:51	1.04	
1,2,3,4,7,8,9-HpCDF	0.389	0.241	4.86	40:46	1.11	J
OCDF	13.8	2.14	9.72	44:40	0.85	
Total TCDDs	ND	0.0426	0.972			
Total PeCDDs	1.99	0.153	4.86			J
Total HxCDDs	13.2	0.0670	4.86			
Total HpCDDs	56.9	0.216	4.86			
Total TCDFs	20.4	0.144	0.972			~~J~~
Total PeCDFs	6.29	0.117	4.86			
Total HxCDFs	7.97	0.0663	4.86			
Total HpCDFs	19.2	0.225	4.86			
ITEF TEQ (ND=0)	1.46					
ITEF TEQ (ND=½)	3.21					

Client Information

Project Name:	GE Hudson River Treatability Study
Sample ID:	SX1

Laboratory Information

Project ID:	G135-25	
Sample ID:	G135-25-4B	
Collection Date/Time:	19-May-04	11:00
Receipt Date:	20-May-04	
Extraction Date:	24-May-04	
Analysis Date:	02-Jun-04	

Sample Information

Report Basis:	Dry Weight	
Matrix:	Soil	
Weight / Volume:	18.17	grams
Solids / Lipids:	56.6	%
Original pH :	NA	
Batch ID:	WG10343	
Filename:	a31may04a_5-7	
Retchk:	a31may04a_4-14	
Begin ConCal:	a31may04a_4-14	
Initial Cal:	m1613-122203b	

Method 1613

SX1

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	2.11	106	31:16	0.80	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	2.01	100	34:06	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.12	106	36:41	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.92	95.9	36:47	1.19	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.17	108	40:05	1.04	
$^{13}C_{12}$-OCDD	4.0	3.93	98.3	44:21	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.91	95.4	30:35	0.84	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.95	97.3	33:18	1.63	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.75	87.6	33:55	1.70	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.97	98.7	35:59	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.83	91.7	36:05	0.50	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.91	95.3	36:34	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	2.04	102	37:20	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.85	92.4	38:50	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.91	95.5	40:45	0.47	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.425	106	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.80	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.18	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: SX1

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-4B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Analyzed by: Jwp
Date: 06-03-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 18.17 grams
Solids / Lipids: 56.6 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-7
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 6/3/04

Method 1613
SX1
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.900	0.121	0.972	16.67	0.84	J

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.65	0.79	

Client Information			**Sample Information**		
Project Name:	GE Hudson River Treatability Study		Report Basis:	Dry	
Sample ID:	SX1		Matrix:	Soil	
			Weight / Volume:	18.2	g
			Solids / Lipids:	56.6	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG10343	
Project ID:	G135-25		Instrument:	hrms3	
Sample ID:	G135-25-4B		Filename:	c01jun04b-21	
Collection Date/Time:	05/19/04	11:00	Retchk:	c01jun04b-2	
Receipt Date:	05/20/04		Begin ConCal:	c01jun04b-1	
Extraction Date:	05/24/04				
Analysis Date/Time:	06/01/04	23:53	Initial Cal:	mCF-c100603	

Analyzed by: HMP
Date: 02Jun04

Reviewed by: [illegible]
Date: 6/2/03

Method 1613

SX2

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0428	0.976			
1,2,3,7,8-PeCDD	0.154	0.153	4.88	34:07	1.69	J
1,2,3,4,7,8-HxCDD	ND	0.186	4.88			
1,2,3,6,7,8-HxCDD	0.818	0.0672	4.88	36:47	1.15	J
1,2,3,7,8,9-HxCDD	0.420	0.199	4.88	37:02	1.06	J
1,2,3,4,6,7,8-HpCDD	14.2	0.217	4.88	40:06	1.04	
OCDD	174	0.523	9.76	44:22	0.88	
2,3,7,8-TCDF	0.785	0.144	0.976	30:36	0.83	J
1,2,3,7,8-PeCDF	0.203	0.117	4.88	33:19	1.75	J
2,3,4,7,8-PeCDF	0.882	0.147	4.88	33:56	1.66	J
1,2,3,4,7,8-HxCDF	0.494	0.142	4.88	35:59	1.16	J
1,2,3,6,7,8-HxCDF	0.301	0.146	4.88	36:05	1.25	J
2,3,4,6,7,8-HxCDF	0.304	0.0666	4.88	36:34	1.19	J
1,2,3,7,8,9-HxCDF	ND	0.151	4.88			
1,2,3,4,6,7,8-HpCDF	4.05	0.226	4.88	38:51	1.04	J
1,2,3,4,7,8,9-HpCDF	0.353	0.242	4.88	40:46	1.04	J
OCDF	10.6	2.15	9.76	44:40	0.87	
Total TCDDs	0.716	0.0428	0.976			J
Total PeCDDs	3.63	0.153	4.88			J
Total HxCDDs	10.4	0.0672	4.88			
Total HpCDDs	34.1	0.217	4.88			
Total TCDFs	15.6	0.144	0.976			
Total PeCDFs	7.67	0.117	4.88			
Total HxCDFs	7.46	0.0666	4.88			
Total HpCDFs	13.3	0.226	4.88			
ITEF TEQ (ND=0)	1.21					
ITEF TEQ (ND=½)	2.21					

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: SX2

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-5B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 13.50 grams
Solids / Lipids: 75.9 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-8
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Method 1613

SX2

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.97	98.7	31:16	0.80	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.94	96.8	34:06	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.13	106	36:41	1.22	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.87	93.5	36:46	1.19	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.11	106	40:05	1.04	
$^{13}C_{12}$-OCDD	4.0	3.85	96.1	44:20	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.89	94.7	30:35	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.89	94.3	33:18	1.66	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.76	87.9	33:55	1.64	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.92	96.2	35:59	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.79	89.3	36:05	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.86	92.9	36:34	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.97	98.4	37:20	0.50	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.80	89.8	38:50	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.87	93.4	40:45	0.46	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.396	99.0	31:16		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.80	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.18	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: SX2

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-5B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Analyzed by: JW
Date: 06-03-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 13.50 grams
Solids / Lipids: 75.9 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-8
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 6/3/04

Method 1613
SX2
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.691	0.121	0.976	16.66	0.80	J

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.65	0.79	

Client Information			**Sample Information**		
Project Name:	GE Hudson River Treatability Study		Report Basis:	Dry	
			Matrix:	Soil	
Sample ID:	SX2		Weight / Volume:	13.5	g
			Solids / Lipids:	75.9	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG10343	
Project ID:	G135-25		Instrument:	hrms3	
Sample ID:	G135-25-5B		Filename:	c01jun04b-22	
Collection Date/Time:	05/19/04	11:00	Retchk:	c01jun04b-2	
Receipt Date:	05/20/04		Begin ConCal:	c01jun04b-1	
Extraction Date:	05/24/04				
Analysis Date/Time:	06/02/04	0:14	Initial Cal:	mCF-c100603	

Analyzed by: HMP
Date: 02Jun04

Reviewed by: [illegible]
Date: 6/2/04

Method 1613

SX3

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0408	0.931			
1,2,3,7,8-PeCDD	0.359	0.146	4.66	34:07	1.49	J
1,2,3,4,7,8-HxCDD	0.613	0.178	4.66	36:41	1.11	J
1,2,3,6,7,8-HxCDD	2.86	0.0642	4.66	36:47	1.14	J
1,2,3,7,8,9-HxCDD	1.44	0.189	4.66	37:02	1.10	J
1,2,3,4,6,7,8-HpCDD	63.7	0.207	4.66	40:06	1.04	
OCDD	812	0.499	9.31	44:22	0.87	
2,3,7,8-TCDF	1.55	0.138	0.931	30:36	0.79	
1,2,3,7,8-PeCDF	0.428	0.112	4.66	33:19	1.38	J
2,3,4,7,8-PeCDF	1.53	0.140	4.66	33:56	1.49	J
1,2,3,4,7,8-HxCDF	1.30	0.136	4.66	35:59	1.19	J
1,2,3,6,7,8-HxCDF	3.13	0.139	4.66	36:05	1.20	J
2,3,4,6,7,8-HxCDF	1.23	0.0635	4.66	36:34	1.21	J
1,2,3,7,8,9-HxCDF	0.365	0.144	4.66	37:22	1.13	J
1,2,3,4,6,7,8-HpCDF	51.1	0.216	4.66	38:51	1.04	
1,2,3,4,7,8,9-HpCDF	1.21	0.231	4.66	40:46	0.95	J
OCDF	46.9	2.05	9.31	44:40	0.85	
Total TCDDs	0.199	0.0408	0.931			J
Total PeCDDs	6.93	0.146	4.66			
Total HxCDDs	38.1	0.0642	4.66			
Total HpCDDs	149	0.207	4.66			~~J~~
Total TCDFs	34.0	0.138	0.931			
Total PeCDFs	18.9	0.112	4.66			
Total HxCDFs	36.8	0.0635	4.66			
Total HpCDFs	103	0.216	4.66			
ITEF TEQ (ND=0)	4.23					
ITEF TEQ (ND=½)	4.73					

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: SX3

Laboratory Information

Project ID: G135-25

Sample ID: G135-25-6B

Collection Date/Time: 19-May-04 11:00

Receipt Date: 20-May-04

Extraction Date: 24-May-04

Analysis Date: 02-Jun-04

Sample Information

Report Basis: Dry Weight

Matrix: Soil

Weight / Volume: 19.72 grams

Solids / Lipids: 54.5 %

Original pH : NA

Batch ID: WG10343

Filename: a31may04a_5-9

Retchk: a31may04a_4-14

Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Method 1613

SX3

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.90	94.9	31:16	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.81	90.5	34:06	1.62	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.02	101	36:41	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.79	89.5	36:47	1.15	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.02	101	40:05	1.05	
$^{13}C_{12}$-OCDD	4.0	3.48	86.9	44:21	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.85	92.3	30:35	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.75	87.3	33:18	1.67	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.62	80.8	33:55	1.65	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.94	97.0	35:59	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.71	85.6	36:05	0.50	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.82	91.0	36:34	0.50	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	1.91	95.6	37:21	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.72	85.8	38:50	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.72	86.1	40:46	0.47	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.383	95.7	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.80	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.16	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: SX3

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-6B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 02-Jun-04

Analyzed by: [illegible]
Date: 06-03-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 19.72 grams
Solids / Lipids: 54.5 %
Original pH : NA
Batch ID: WG10343

Filename: a31may04a_5-9
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 6/3/04

Method 1613

SX4

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0397	0.906			
1,2,3,7,8-PeCDD	ND	0.142	4.53			
1,2,3,4,7,8-HxCDD	ND	0.173	4.53			
1,2,3,6,7,8-HxCDD	0.123	0.0624	4.53	36:47	1.18	J
1,2,3,7,8,9-HxCDD	ND	0.184	4.53			
1,2,3,4,6,7,8-HpCDD	1.41	0.201	4.53	40:05	1.00	J
OCDD	11.2	0.485	9.06	44:21	0.87	
2,3,7,8-TCDF	0.281	0.134	0.906	30:35	0.75	J
1,2,3,7,8-PeCDF	ND	0.109	4.53			
2,3,4,7,8-PeCDF	0.225	0.136	4.53	33:55	1.65	J
1,2,3,4,7,8-HxCDF	ND	0.132	4.53			
1,2,3,6,7,8-HxCDF	ND	0.136	4.53			
2,3,4,6,7,8-HxCDF	0.0887	0.0618	4.53	36:34	1.13	J
1,2,3,7,8,9-HxCDF	ND	0.140	4.53			
1,2,3,4,6,7,8-HpCDF	0.335	0.210	4.53	38:50	1.03	J
1,2,3,4,7,8,9-HpCDF	ND	0.225	4.53			
OCDF	ND	2.00	9.06			
Total TCDDs	ND	0.0397	0.906			
Total PeCDDs	ND	0.142	4.53			
Total HxCDDs	~~0.585~~ ND	0.0624	4.53			J
Total HpCDDs	2.87	0.201	4.53			J
Total TCDFs	1.79	0.134	0.906			
Total PeCDFs	0.538	0.109	4.53			J
Total HxCDFs	0.706	0.0618	4.53			J
Total HpCDFs	0.335	0.210	4.53			J
ITEF TEQ (ND=0)	0.190					
ITEF TEQ (ND=½)	3.35					

Client Information

Project Name:	GE Hudson River Treatability Study
Sample ID:	SX4

Laboratory Information

Project ID:	G135-25	
Sample ID:	G135-25-7B	
Collection Date/Time:	19-May-04	11:00
Receipt Date:	20-May-04	
Extraction Date:	24-May-04	
Analysis Date:	27-May-04	

Sample Information

Report Basis:	Dry Weight	
Matrix:	Soil	
Weight / Volume:	15.04	grams
Solids / Lipids:	73.4	%
Original pH :	NA	
Batch ID:	WG10343	
Filename:	a25may04a_4-4	
Retchk:	a25may04a_3-14	
Begin ConCal:	a25may04a_3-14	
Initial Cal:	m1613-122203b	

Method 1613

SX4

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	2.09	104	31:15	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.92	96.0	34:06	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.24	112	36:41	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	1.90	95.0	36:46	1.20	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	1.93	96.6	40:04	1.02	
$^{13}C_{12}$-OCDD	4.0	2.65	66.2	44:20	0.88	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	1.95	97.4	30:34	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.86	92.9	33:18	1.61	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.67	83.5	33:55	1.64	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	2.03	101	35:58	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.83	91.4	36:05	0.50	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.91	95.4	36:34	0.50	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	2.01	101	37:20	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.72	86.2	38:50	0.44	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.63	81.5	40:45	0.44	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.424	106	31:16		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:44	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.20	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: SX4

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-7B
Collection Date/Time: 19-May-04 11:00
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 27-May-04

Analyzed by: JWD
Date: 06-03-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 15.04 grams
Solids / Lipids: 73.4 %
Original pH : NA
Batch ID: WG10343

Filename: a25may04a_4-4
Retchk: a25may04a_3-14
Begin ConCal: a25may04a_3-14

Initial Cal: m1613-122203b

Reviewed by: CD
Date: 6/8/04

Method 1613
SX4
Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	ND	0.134	0.906			

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.60	0.78	

Client Information			**Sample Information**		
Project Name:	GE Hudson River Treatability Study		Report Basis:	Dry	
Sample ID:	SX4		Matrix:	Soil	
			Weight / Volume:	15.0	g
			Solids / Lipids:	73.4	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG10343	
Project ID:	G135-25		Instrument:	hrms3	
Sample ID:	G135-25-7B		Filename:	c03jun04b-4	
Collection Date/Time:	05/19/04	11:00	Retchk:	c03jun04b-2	
Receipt Date:	05/20/04		Begin ConCal:	c03jun04b-1	
Extraction Date:	05/24/04				
Analysis Date/Time:	06/03/04	17:37	Initial Cal:	mCF-c060304	

Analyzed by: HMP
Date: 04Jun04

Reviewed by: [illegible]
Date: 4/4/04

Method 1613

SDUP1

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0432	0.986			
1,2,3,7,8-PeCDD	0.814	0.155	4.93	34:07	1.67	J
1,2,3,4,7,8-HxCDD	1.10	0.188	4.93	36:41	1.19	J
1,2,3,6,7,8-HxCDD	5.99	0.0679	4.93	36:47	1.19	
1,2,3,7,8,9-HxCDD	2.68	0.201	4.93	37:02	1.20	J
1,2,3,4,6,7,8-HpCDD	168	0.219	4.93	40:05	1.02	
OCDD	2410	0.528	9.86	44:21	0.89	
2,3,7,8-TCDF	3.69	0.146	0.986	30:36	0.83	
1,2,3,7,8-PeCDF	0.889	0.119	4.93	33:19	1.73	J
2,3,4,7,8-PeCDF	6.93	0.149	4.93	33:56	1.62	
1,2,3,4,7,8-HxCDF	2.92	0.144	4.93	35:59	1.12	J
1,2,3,6,7,8-HxCDF	2.00	0.148	4.93	36:05	1.19	J
2,3,4,6,7,8-HxCDF	1.91	0.0673	4.93	36:34	1.23	J
1,2,3,7,8,9-HxCDF	0.777	0.153	4.93	37:22	1.09	J
1,2,3,4,6,7,8-HpCDF	37.2	0.228	4.93	38:50	1.00	
1,2,3,4,7,8,9-HpCDF	2.76	0.245	4.93	40:45	1.00	J
OCDF	152	2.17	9.86	44:39	0.86	
Total TCDDs	5.98	0.0432	0.986			
Total PeCDDs	21.1	0.155	4.93			~~Q~~ J
Total HxCDDs	66.8	0.0679	4.93			~~Q~~ J
Total HpCDDs	377	0.219	4.93			
Total TCDFs	108	0.146	0.986			
Total PeCDFs	50.3	0.119	4.93			~~Q~~ J
Total HxCDFs	49.5	0.0673	4.93			~~Q~~ J
Total HpCDFs	141	0.228	4.93			~~Q~~ J
ITEF TEQ (ND=0)	10.7					
ITEF TEQ (ND=½)	11.2					

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: SDUP1

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-8B
Collection Date: 19-May-04
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 27-May-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 19.04 grams
Solids / Lipids: 53.3 %
Original pH : NA
Batch ID: WG10343

Filename: a25may04a_4-5
Retchk: a25may04a_3-14
Begin ConCal: a25may04a_3-14

Initial Cal: m1613-122203b

Method 1613

SDUP1

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	2.13	107	31:15	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.94	96.8	34:06	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.29	114	36:41	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	2.01	100	36:46	1.21	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	2.06	103	40:04	1.04	
$^{13}C_{12}$-OCDD	4.0	3.08	76.9	44:20	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	2.02	101	30:34	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	1.84	92.1	33:18	1.62	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	1.69	84.6	33:55	1.64	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	2.09	104	35:58	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.91	95.7	36:05	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.91	95.6	36:34	0.50	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	2.03	102	37:20	0.50	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.79	89.5	38:50	0.43	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	1.74	86.9	40:45	0.44	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.438	109	31:16		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.77	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.21	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: SDUP1

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-8B
Collection Date: 19-May-04
Receipt Date: 20-May-04
Extraction Date: 24-May-04
Analysis Date: 27-May-04

Analyzed by: JWP
Date: 06-03-04

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 19.04 grams
Solids / Lipids: 53.3 %
Original pH : NA
Batch ID: WG10343

Filename: a25may04a_4-5
Retchk: a25may04a_3-14
Begin ConCal: a25may04a_3-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 6/3/04

Method 1613

SDUP1

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. MDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	3.39	0.146	0.986	16.60	0.77	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards				
13C12-2,3,7,8-TCDF	2.00	16.58	0.77	

Client Information

Project Name:	GE Hudson River Treatability Study
Sample ID:	SDUP1

Laboratory Information

Project ID:	G135-25
Sample ID:	G135-25-8B
Collection Date/Time:	05/19/04
Receipt Date:	05/20/04
Extraction Date:	05/24/04
Analysis Date/Time:	06/03/04 17:59

Sample Information

Report Basis:	Dry	
Matrix:	Soil	
Weight / Volume:	19.0	g
Solids / Lipids:	53.3	%
Original pH :	NA	
Batch ID:	WG10343	
Instrument:	hrms3	
Filename:	c03jun04b-5	
Retchk:	c03jun04b-2	
Begin ConCal:	c03jun04b-1	
Initial Cal:	mCF-c060304	

Analyzed by: HMP
Date: 04Jun04

Reviewed by: CDY
Date: 4/4/04

Method 1613

W1A

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	Adj. MDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0008	0.0002			
1,2,3,7,8-PeCDD	ND	0.0029	0.0009			
1,2,3,4,7,8-HxCDD	ND	0.0036	0.0009			
1,2,3,6,7,8-HxCDD	ND	0.0013	0.0009			
1,2,3,7,8,9-HxCDD	ND	0.0038	0.0009			
1,2,3,4,6,7,8-HpCDD	ND	0.0041	0.0009			
OCDD	0.0152	0.0100	0.0019	44:22	0.84	
2,3,7,8-TCDF	ND	0.0028	0.0002			
1,2,3,7,8-PeCDF	ND	0.0022	0.0009			
2,3,4,7,8-PeCDF	ND	0.0028	0.0009			
1,2,3,4,7,8-HxCDF	ND	0.0027	0.0009			
1,2,3,6,7,8-HxCDF	ND	0.0028	0.0009			
2,3,4,6,7,8-HxCDF	ND	0.0013	0.0009			
1,2,3,7,8,9-HxCDF	ND	0.0029	0.0009			
1,2,3,4,6,7,8-HpCDF	ND	0.0043	0.0009			
1,2,3,4,7,8,9-HpCDF	ND	0.0046	0.0009			
OCDF	ND	0.0411	0.0019			
Total TCDDs	ND	0.0008	0.0002			
Total PeCDDs	ND	0.0029	0.0009			
Total HxCDDs	ND	0.0013	0.0009			
Total HpCDDs	ND	0.0041	0.0009			
Total TCDFs	ND	0.0028	0.0002			
Total PeCDFs	ND	0.0022	0.0009			
Total HxCDFs	ND	0.0013	0.0009			
Total HpCDFs	ND	0.0043	0.0009			
ITEF TEQ (ND=0)	0.000					
ITEF TEQ (ND=½)	0.0501					

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: W1A

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-9C
Collection Date/Time: 19-May-04 14:15
Receipt Date: 20-May-04
Extraction Date: 25-May-04
Analysis Date: 02-Jun-04

Sample Information

Matrix: Water
Weight / Volume: 536 mL
Solids / Lipids: NA %
Original pH : NA
Batch ID: WG10345

Filename: a31may04a_5-10
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Method 1613

W1A

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1.0	0.985	98.5	31:16	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1.0	0.951	95.1	34:07	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1.0	1.01	101	36:41	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.0	0.999	99.9	36:47	1.22	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1.0	1.08	108	40:06	1.03	
$^{13}C_{12}$-OCDD	2.0	1.88	94.1	44:22	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	1.0	0.955	95.5	30:36	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.0	0.921	92.1	33:19	1.63	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.0	0.867	86.7	33:55	1.62	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.0	0.927	92.7	35:59	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.0	0.894	89.4	36:05	0.50	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.0	0.957	95.7	36:34	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.0	0.957	95.7	37:21	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.0	0.906	90.6	38:51	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.0	0.917	91.7	40:47	0.47	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.2	0.209	104	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.20	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: W1A

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-9C
Collection Date/Time: 19-May-04 14:15
Receipt Date: 20-May-04
Extraction Date: 25-May-04
Analysis Date: 02-Jun-04

Sample Information

Matrix: Water
Weight / Volume: 536 mL
Solids / Lipids: NA %
Original pH : NA
Batch ID: WG10345

Filename: a31may04a_5-10
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Analyzed by: JWP
Date: 06-03-04

Reviewed by: [illegible]
Date: 6/9/04

Method 1613

W1B

Blasland,Bouck,Lee

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	Adj. MDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0009	0.0002			
1,2,3,7,8-PeCDD	ND	0.0031	0.0010			
1,2,3,4,7,8-HxCDD	ND	0.0038	0.0010			
1,2,3,6,7,8-HxCDD	ND	0.0014	0.0010			
1,2,3,7,8,9-HxCDD	ND	0.0040	0.0010			
1,2,3,4,6,7,8-HpCDD	ND	0.0044	0.0010			
OCDD	0.0126	0.0106	0.0020	44:22	0.96	
2,3,7,8-TCDF	ND	0.0029	0.0002			
1,2,3,7,8-PeCDF	ND	0.0024	0.0010			
2,3,4,7,8-PeCDF	ND	0.0030	0.0010			
1,2,3,4,7,8-HxCDF	ND	0.0029	0.0010			
1,2,3,6,7,8-HxCDF	ND	0.0030	0.0010			
2,3,4,6,7,8-HxCDF	ND	0.0014	0.0010			
1,2,3,7,8,9-HxCDF	ND	0.0031	0.0010			
1,2,3,4,6,7,8-HpCDF	ND	0.0046	0.0010			
1,2,3,4,7,8,9-HpCDF	ND	0.0049	0.0010			
OCDF	ND	0.0438	0.0020			
Total TCDDs	ND	0.0009	0.0002			
Total PeCDDs	ND	0.0031	0.0010			
Total HxCDDs	ND	0.0014	0.0010			
Total HpCDDs	ND	0.0044	0.0010			
Total TCDFs	ND	0.0029	0.0002			
Total PeCDFs	ND	0.0024	0.0010			
Total HxCDFs	ND	0.0014	0.0010			
Total HpCDFs	ND	0.0046	0.0010			
ITEF TEQ (ND=0)	0.000					
ITEF TEQ (ND=½)	0.0501					

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: W1B

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-10C
Collection Date/Time: 19-May-04 14:20
Receipt Date: 20-May-04
Extraction Date: 25-May-04
Analysis Date: 02-Jun-04

Sample Information

Matrix: Water
Weight / Volume: 503 mL
Solids / Lipids: NA %
Original pH : NA
Batch ID: WG10345

Filename: a31may04a_5-11
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Method 1613

W1B

Blasland,Bouck,Lee

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1.0	0.940	94.0	31:16	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1.0	0.965	96.5	34:06	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1.0	0.986	98.6	36:41	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.0	0.936	93.6	36:47	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1.0	1.07	107	40:05	1.04	
$^{13}C_{12}$-OCDD	2.0	1.89	94.6	44:22	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	1.0	0.906	90.6	30:36	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.0	0.919	91.9	33:19	1.63	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.0	0.871	87.1	33:55	1.67	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.0	0.934	93.4	35:59	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.0	0.883	88.3	36:05	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.0	0.924	92.4	36:34	0.50	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.0	0.957	95.7	37:21	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.0	0.896	89.6	38:51	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.0	0.917	91.7	40:46	0.46	
Cleanup Standard						
$^{37}Cl_4$-2,3,7,8-TCDD	0.2	0.196	98.0	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:45	0.80	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:34	1.19	

Client Information

Project Name: GE Hudson River Treatability Study

Sample ID: W1B

Laboratory Information

Project ID: G135-25
Sample ID: G135-25-10C
Collection Date/Time: 19-May-04 14:20
Receipt Date: 20-May-04
Extraction Date: 25-May-04
Analysis Date: 02-Jun-04

Analyzed by: JWP
Date: 06-03-04

Sample Information

Matrix: Water
Weight / Volume: 503 mL
Solids / Lipids: NA %
Original pH : NA
Batch ID: WG10345

Filename: a31may04a_5-11
Retchk: a31may04a_4-14
Begin ConCal: a31may04a_4-14

Initial Cal: m1613-122203b

Reviewed by: [illegible]
Date: 6/3/04

Laboratory Narrative

CASE NARRATIVE

BLASLAND, BOUCK & LEE

STL Lot # C4E220207

Sample Receiving:
STL Pittsburgh, PA received samples on May 20, 2004. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

Metals:
The serial dilution percent difference was outside of the control limits for antimony, lead, sodium, vanadium, and zinc. All associated results are flagged with an "E" qualifier.

Several samples were analyzed at dilutions for lead and thallium. These analytes are reported from the MASS SPEC, for which an internal standard, is added to all standards and samples during analysis. The internal standard counts in these samples were outside of QC criteria (70-130% of the internal counts in the standard 1), therefore, the samples were diluted for analysis.

Sample SDUP1 was over the instruments linear range for iron and required a dilution.

For the matrix spike of sample S2, aluminum, chromium, iron, lead, and mercury recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

The matrix spike of sample S2 recovered outside of the control limits for selenium and antimony. All associated results are flagged with an "N" qualifier.

The relative percent difference between sample W1A and the duplicate digestion of this sample was outside of the control limits for zinc. All associated results are flagged with an "*" qualifier.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "J" qualifier.

The method blank for batch4161075 had mercury detected at concentrations between the MDL and the reporting limit. The result was flagged with a "B" qualifier.

CASE NARRATIVE

BLASLAND, BOUCK & LEE

STL Lot # C4E220207

General Chemistry:
STL North Canton, Ohio performed the TKN and the total phosphorus analyses. All data is included in the package.

Sample S3 was analyzed at a dilution for ammonia.

All of the samples were analyzed at a dilution for phosphorus.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike duplicate recovered outside of the control limits for TKN.

For the matrix spike and matrix spike duplicate, total phosphorus recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

June 18, 2004

Sample Delivery Group Case Narrative

This sample delivery group consists of sediment samples received on May 20, 2004 for PCB analysis and includes assigned Sample Delivery Group Number: 04050087. The samples are from Project Name: Hudson River Treatability Study. Northeast Analytical Inc. provided sample pickup service at the General Electric Facility at Ft. Edward, NY on May 20, 2004.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH04811	S2
AH04812	S3
AH04813	S4
AH04814	SX1
AH04815	SX2
AH04816	SX3
AH04817	SX4
AH04818	S Dup 1
AH04819	S2
AH04820	S3
AH04821	S4
AH04822	SX1
AH04823	SX2
AH04824	SX3
AH04825	SX4
AH04826	S Dup 1
AH04827	S2
AH04828	S3
AH04829	S4
AH04830	SX1
AH04831	SX2
AH04832	SX3
AH04833	SX4
AH04834	S Dup 1
AH04835	S2
AH04836	S3
AH04837	S4
AH04838	SX1
AH04839	SX2
AH04840	SX3
AH04841	SX4
AH04842	S Dup 1
AH04843	S2
AH04844	S3
AH04845	S4
AH04846	SX1
AH04847	SX2
AH04848	SX3
AH04849	SX4
AH04850	S Dup 1

Case Narrative
Paradigm Project **G135-25**

For Method: 8290

- All of the soil samples submitted with this project required additional 2,3,7,8-TCDF confirmational analyses.
- This analysis has been performed and the data included with this data package.
- Data meet QA/QC requirements.

Craig R. Tronzo 6/3/04
Craig R. Tronzo
Data Reviewer
Date

Secondary Review
6/4/04
W. Mike Larkins
Technical Director
Date

Or

Greg Dickinson
QA Officer
Date

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# C4G190153 and 04070081

METALS, PCB AND
MISCELLANEOUS ANALYSES

Analyses performed by:

Severn Trent Laboratories
Pittsburgh, Pennsylvania and
Northeast Analytical Laboratories
Schenectady, 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# C4G190153 (STL) and 04070081 (NEA) for sampling of the GE Hudson Treatability Study. Included with this assessment are the data review checklists 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				
				VOC	SVOC	PCB	MET[1]	MISC[2]
DRET-01T-S1	C4G190153-001 AH07348	Water	07/15/04			x	x	x
DRET-01D-S1	C4G190153-002 AH07349	Water	07/15/04			x	x	x
DRET-01T-S2	C4G190153-003 AH07350	Water	07/15/04			x	x	x
DRET-01D-S2	C4G190153-004 AH07351	Water	07/15/04			x	x	x
DRET-02T-S1	C4G190153-005 AH07352	Water	07/15/04			x	x	x
DRET-02D-S1	C4G190153-006 AH07353	Water	07/15/04			x	x	x
DRET-02T-S2	C4G190153-007 AH07354	Water	07/15/04			x	x	x
DRET-02D-S2	C4G190153-008 AH07355	Water	07/15/04			x	x	x
DRET-03T-S1	C4G190153-009 AH07356	Water	07/15/04			x	x	x
DRET-03D-S1	C4G190153-010 AH07357	Water	07/15/04			x	x	x
DRET-03T-S2	C4G190153-011 AH07358	Water	07/15/04			x	x	x
DRET-03D-S2	C4G190153-012 AH07359	Water	07/15/04			x	x	x
DRET-01T-S3	C4G190153-013 AH07360	Water	07/16/04			x	x	x
DRET-01D-S3	C4G190153-014 AH07361	Water	07/16/04			x	x	x
DRET-01T-S4	C4G190153-015 AH07362	Water	07/16/04			x	x	x
DRET-01D-S4	C4G190153-016	Water	07/16/04			x	x	x

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET[1]	MISC[2]
	AH07363							
DRET-02T-S3	C4G190153-017 AH07364	Water	07/16/04			x	x	x
DRET-02D-S3	C4G190153-018 AH07365	Water	07/16/04			x	x	x
DRET-02T-S4	C4G190153-019 AH07366	Water	07/16/04			x	x	x
DRET-02D-S4	C4G190153-020 AH07367	Water	07/16/04			x	x	x
DRET-03T-S3	C4G190153-021 AH07368	Water	07/16/04			x	x	x
DRET-03D-S3	C4G190153-022 AH07369	Water	07/16/04			x	x	x
DRET-03T-S4	C4G190153-023 AH07370	Water	07/16/04			x	x	x
DRET-03D-S4	C4G190153-024 AH07371	Water	07/16/04			x	x	x

1 “T” in the sample ID indicates total metal analysis and “D” indicates dissolved metal analysis.
2 Miscellaneous parameters include Total Organic Carbon and Total Suspended Solids. TSS analysis was performed on “T” samples only.

Note: PCB and miscellaneous parameters were analyzed by Northeast Analytical Laboratories of Schenectady, NY.

PCB ANALYSES

Introduction

Analyses were performed according to Green Bay Method-NEA SOP NE207-03.

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 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 technical 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. Rinse blanks measure contamination of samples during field operations.

PCBs congeners were detected in the method blank. PCBs congener sample results which were less than the blank action level were qualified as non-detect in associated samples. Total PCB sample results were adjusted based on the method blank PCBs congener results.

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. Alternatively, calibration curves may be constructed.

Multi-point calibration was performed for Aroclors 1221, 1242 and 1254 only. Single-point calibrations were performed for the remaining 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 identified compounds met the specified criteria.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

No MS/MSD was analyzed on the samples in this data set.

8. Matrix Spike Blank

The matrix spike blank recovery was above the control limit. Positive data for total PCBs were qualified as estimated in all “D” identified samples based on the deviation.

9. Field Duplicate

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

10. System Performance and Overall Assessment

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

Data Validation Checklist

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?		X	
Were matrix spikes analyzed at the required frequency?			X
How many spike recoveries were outside of QC limits?			
NA out of NA			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
NA out of NA			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method//instrument blanks have positive results?	X		

	YES	NO	NA
Are field/rinse blanks associated with every sample?		X	
Do any field/rinse blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check			X
Aroclor 1016/1260	X		
Aroclors 1221, 1232, 1242, 1248, and 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		
Was GC/MS confirmation provided when required?			X

	YES	NO	NA
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?		X	

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*
		Nonachlorobiphenyl
DRET-01T-S1		
DRET-01D-S1		
DRET-01T-S2		
DRET-01D-S2		
DRET-02T-S1		
DRET-02D-S1		
DRET-02T-S2		
DRET-02D-S2		
DRET-03T-S1		
DRET-03D-S1		
DRET-03T-S2		
DRET-03D-S2		
DRET-01T-S3		
DRET-01D-S3		
DRET-01T-S4		
DRET-01D-S4		
DRET-02T-S3		
DRET-02D-S3		
DRET-02T-S4		
DRET-02D-S4		
DRET-03T-S3		
DRET-03D-S3		
DRET-03T-S4		
DRET-03D-S4		

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.

METALS ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 method 6000/7000.

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 times for metals (except mercury) analyses is 180 days from date of collection. The holding time for mercury is 28 days from sample collection to analysis.

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

2. Blank Contamination

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

Several analytes were detected in the method blanks. Sample results less than the blank action level were qualified as non-detect for cadmium associated with samples DRET-01D-S1, DRET-01D-S2, DRET-02D-S2 and DRET-03D-S2.

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 and all initial calibration verification standard recoveries were within acceptable limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within acceptable limits.

3.3 CRDL Standard

The CRDL standard recoveries were within the acceptable limits.

3.4 ICP Interference Control Sample

All ICS recoveries were within the acceptable 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 (MS)

The MS recoveries were within control limits.

4.2 Laboratory Duplicate

The laboratory duplicate results were within control limits.

5. Field Duplicate

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

6. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

7. Serial Dilution

Several analytes associated with the serial dilution analysis exhibited %Ds greater than control limits. sample results were qualified as estimated for manganese associated with samples DRET-01D-S1, DRET-01D-S2, DRET-02D-S1, DRET-02D-S2, DRET-03D-S1 and DRET-03D-S2 and barium and iron associated with samples DRET-01D-S3, DRET-01D-S4 and DRET-02D-S3.

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.

10. General Comments

The samples were received at the laboratory in a cooler which exhibited a higher than acceptable temperature for sample receipt. All data in this samples set were qualified as estimated based on the temperature deviation.

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 Checklist

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Form I to IX			
Are all forms labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Are pH values listed?			X
pH for metals analyses <2 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Is the data legible?	X		
Is the data properly labeled?	X		

	YES	NO	NA
Holding Times			
Were mercury analyses performed within 28 days?	X		
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results corrected for percent solids?	X		
Are all "less than IDL" values coded with "U"?	X		
Is a physical description of samples given on Form I's?		X	
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Is one calibration standard at the CRDL level for all AA (except Hg) analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a 2xCRDL standard (CRI) analyzed for each ICP run?	X		

	YES	NO	NA
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?	X		
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each matrix?	X		
each batch of digested samples?	X		
Is concentration of prep. blank less than the CRDL?		X	
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	

	YES	NO	NA
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?	X		
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?			X
Aqueous			
Are any spike recoveries:			
less than 30%?		X	
between 30-74%?		X	
between 126-150%?		X	
greater then 150%?		X	
Soil/Sediment			
Are any spike recoveries:			
less than 10%?			X
between 10-74%?			X
between 126-200%?			X
greater than 200%?			X
Form VI (Lab Duplicates)			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?	X		
If no, are all results outside the control limits flagged with an * on Form I's and VI?			X
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?	X		
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?			X

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

	YES	NO	NA
Are any required % difference values:			
> 10%?	X		
≥100%?		X	
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?			X
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Were dilutions analyzed for samples with analytical spike recoveries less than 40%?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample?	X		
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?		X	
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	X		
If no, was field blank value already rejected due to other QC criteria?			X

	YES	NO	NA
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?			X
< 10%?			X

ADDITIONAL PARAMETERS

Introduction

Analyses were performed according to the following methods:

TOC	EPA 415.1
TSS	EPA 160.1

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:

ND The analyte was analyzed for but not detected. The associated value is the analyte reporting limit.

B The reported value was obtained from a reading less than the reporting limit (RL) but greater than or equal to the instrument detection limit (IDL).

J The associated numerical value is an estimated concentration only.

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.

* Duplicate analysis not within control limits.

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

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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the associated blanks.

3. Calibration

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

All calibration data were within acceptable limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

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

The MS/MSD recoveries were within control limits.

5. Field Duplicate

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

6. Laboratory Control Sample (LCS)

The 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 Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Percent solids calculation present for soils/sediments?	X		
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:		X	
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Blanks			
Present and complete?	X		
Are all blanks less than or equal to the RL?	X		

	YES	NO	NA
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all results within the control limits?	X		
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all values within control limits?	X		
Field Duplicates			
Were field duplicates analyzed?		X	
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		

Corrected Sample Analysis Data Sheets

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07348.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01T-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 17:32:42

Total PCBs in sample = ~~4,300~~ 3062 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	9.12	11.78
Di	34.48	37.55
Tri	35.68	33.78
Tetra	16.31	13.67
Penta	3.29	2.47
Hexa	0.97	0.66
Hepta	0.14	0.08
Octa	0.00	0.00
Nona	0.03	0.01
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	362.8896	53.7	53.6
A1242	23+24/31+28	285.5478	42.3	42.2
A1254SED	61/110	27.0318	4.0	
A1254BIO	***/###	28.5071		4.2
A1260	102/180		0.0	0.0
A1268	115/194		0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.68

Meta + Para Cl / biphenyl Residue = 0.91

TOTAL Cl / biphenyl Residue = 2.60

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07348.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01T-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 17:32:42
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	4838	363	1,920	3.31	12.4	
3	12.70	188.7				143	5680	
4	12.84	188.7	217	29.2	155	1.81	7.27	
5	13.46	223.1	3064	1,200	5,390	41.3	70.6	~~B~~ U
6	14.30	223.1	3287	14.2	63.5	0.508	1.24	~~B~~
7	14.62	223.1	6434	58.3	261	1.07	1.97	~~B~~
8	14.81	223.1	18692	151	678	3.00	14.5	
9	15.34	223.1				4.80	142	
10	15.45	257.5	2480	266	1,030	7.50	11.6	~~B~~
11	15.91	257.5	78			1.40	142	
12	15.99	223.1	295	9.56	42.9	1.97	142	J
13	16.16	223.1	539	3.28	14.7	0.351	0.554	
14	16.31	249.0	21810	175	702	0.556	3.84	~~B~~
15	16.39	257.5	16124	178	693	0.807	3.84	~~B~~
16	16.69	257.5	1912	128	498	8.66	8.66	~~B~~
17	16.98	257.5	26504	169	656	0.938	4.05	~~B~~
19	17.41	267.9	3504	19.4	72.4	1.20	142	J
20	17.59	257.5	434	1.41	5.48	0.108	0.110	
21	17.71	257.5	931	82.4	320	7.66	15.0	
22	17.80	257.5	537	34.3	133	11.5	11.5	~~B~~ U
23	18.00	257.5	31121	130	506	0.818	4.28	~~B~~
24	18.04	257.5	40526	155	603	1.05	5.48	
25	18.43	259.5	25381	120	461	0.688	4.13	~~B~~
26	18.63	258.7	19235	93.5	362	1.12	3.01	
27	18.86	292.0	6394	25.2	86.2	0.597	0.926	~~B~~
28	19.00	257.5	41			1.03	142	
29	19.13	292.0	2208	10.2	34.8	0.665	0.665	
30	19.26	257.5	94			2.73	142	
31	19.43	292.0	24837	149	511	1.02	4.95	
32	19.60	292.0	22045	66.3	227	0.289	2.39	
33	19.71	292.0	14464	30.8	105	0.381	1.04	
34	19.77	292.0	6282	17.9	61.2	0.319	1.04	
35	19.92	292.0				0.949	142	
36	19.99	257.5	130			1.14	142	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	19759	76.2	261	0.693	4.47	
38	20.30	272.4	15042	71.3	262	0.716	2.70	
39	20.65	292.0	26679	81.6	279	0.841	4.26	
41	20.81	326.4	1325	6.48	19.9	1.19	142	J
42	20.91	292.0	5283	18.0	61.7	0.563	0.977	
43	21.16	298.9	1099	4.13	13.8	1.26	142	J
44	21.34	298.9	1563	3.76	12.6	0.132	0.228	
45	21.50	292.0	1466	3.73	12.8	0.653	0.653	
46	21.67	292.0	8861	17.8	61.0	0.272	1.97	
47	21.80	292.0	12960	32.9	113	0.614	3.53	
48	21.91	293.5	23770	90.8	309	1.52	7.50	
49	22.21	324.7	2711	8.13	25.1	0.158	0.530	
50	22.52	292.0	11576	28.8	98.7	0.491	3.64	
51	22.76	326.4	5157	31.4	96.3	1.19	1.87	
52	22.86	326.4	190	0.564	1.73	0.186	0.208	
53	23.02	326.4	5287	15.4	47.1	0.311	1.87	
54	23.21	326.4	3511	6.50	19.9	0.326	0.767	
55	23.50	326.4	441	0.518	1.59	0.0852	0.0852	
56	23.58	326.4	1154	3.62	11.1	0.212	0.311	
57	23.80	326.4	2410	5.14	15.7	0.242	0.580	
58	23.97	326.4	4549	11.6	35.5	0.454	1.20	
59	24.13	326.4	2090	4.38	13.4	0.298	0.727	
60	24.25	360.9	1193	3.11	8.62	0.290	0.778	
61	24.38	315.8	8991	27.0	85.6	0.436	2.21	
62	24.62	360.9				2.12	142	
63	24.75	326.4	1510	2.82	8.63	0.556	0.556	
64	25.05	360.9	1855	4.50	12.5	0.285	1.77	
65	25.18	350.5	908	1.41	4.03	0.0852	0.301	
66	25.23	360.9	148	0.691	1.91	0.336	0.625	
67	25.32	336.8	677	1.86	5.54	0.225	0.270	
68	25.40	326.4	67			0.767	142	
69	25.51	337.5	6157	14.3	42.4	0.602	4.15	
70	25.61	360.9				0.886	142	
71	25.90	347.8	613	1.32	3.79	0.426	0.426	
72	26.11	336.8	587	0.797	2.37	0.0733	0.0733	
73	26.39	360.9	904	2.05	5.67	0.148	0.405	
74	26.51	347.8	3995	7.06	20.3	0.456	1.41	
75	26.68	360.9	2235	3.49	9.67	0.716	3.06	
76	26.78	360.9				0.835	142	
77	27.20	360.9	508	1.53	4.23	0.436	1.77	J
78	27.24	395.3	287	0.735	1.86	0.199	1.52	J
79	27.50	360.9	218	0.932	2.58	0.141	0.156	
80	27.56	360.9	346	0.426	1.18	0.0960	0.270	
82	27.87	360.9	5267	10.7	29.6	0.670	2.80	
83	28.04	360.9	380	0.746	2.07	0.347	0.347	
84	28.24	360.9	207	0.0964	0.267	0.0382	0.0382	
85	28.60	395.3	925	3.55	8.97	0.513	1.14	
87	28.88	395.3				0.0938	0.415	
88	29.04	395.3	836	0.534	1.35	0.526	3.74	J
89	29.15	360.9	773	1.13	3.13	0.190	0.208	
90	29.36	395.3	230			0.436	1.77	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.61	360.9	77	0.150	0.416	0.0813	0.102	
92	29.97	394.3	61			0.151	0.488	
93	30.33	394.3	367			0.739	3.32	
94	30.60	394.3	355			0.710	1.77	
95	30.89	382.2	512	1.17	3.05	0.531	0.818	
96	31.14	429.8	274	0.0737	0.171	0.0237	0.0688	
98	31.33	395.3				0.454	0.454	
99	31.69	429.8	95			0.311	0.405	
100	31.97	395.3				0.320	0.580	
101	32.23	429.8				0.625	0.625	
102	32.44	395.3	1053			0.926	6.31	
103	32.69	395.3				0.415	0.436	
104	32.99	395.3				0.224	0.249	
105	33.35	429.8				0.140	0.447	
106	34.51	395.3	394	0.337	0.853	0.327	1.33	J
107	34.78	395.3	144			0.242	0.436	
108	35.70	429.8				0.252	0.252	
109	35.89	429.8	554			1.39	4.36	
110	36.43	429.8	510			1.05	4.47	
111	37.60	395.3				0.193	0.193	
112	39.19	429.8	78			0.280	0.574	
113	39.67	464.2	264	0.745	1.61	0.302	0.513	
114	40.63	464.2				0.134	0.193	
115	42.05	429.8	222			0.614	1.87	
116	42.98	429.8				0.354	0.354	
117	48.12	464.2	532			0.670	0.705	
118	54.17	498.6				0.134	0.134	
						126	295	

Concentration = ~~4,300~~ 3062 ng/L

Total Nanomoles = 17.6

Average Molecular Weight = 243.7

Number of Calibrated Peaks Found = 94

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 260413.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07350.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01T-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 18:39:53

Total PCBs in sample = ~~74,200~~ 20,380 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	4.61	5.70
Di	66.00	69.01
Tri	20.28	18.38
Tetra	5.68	4.56
Penta	2.33	1.67
Hexa	0.63	0.41
Hepta	0.28	0.16
Octa	0.14	0.07
Nona	0.04	0.02
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	3174.2189	65.4	64.1
A1242	23+24/31+28	1510.0401	31.1	30.5
A1254SED	61/110	142.1262	2.9	
A1254BIO	***/###	241.1280		4.9
A1260	102/180	15.8010	0.3	0.3
A1268	115/194	10.8172	0.2	0.2

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.91

Meta + Para Cl / biphenyl Residue = 0.39

TOTAL Cl / biphenyl Residue = 2.30

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07350.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01T-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 18:39:53
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	5834	3,170	16,800	22.3	83.9	
3	12.70	188.7				962	38300	
4	12.84	188.7	254	249	1,320	12.2	49.0	
5	13.46	223.1	3603	46,200	207,000	1390	2380	~~B~~ U
6	14.30	223.1	3305	103	464	3.43	8.39	~~B~~
7	14.62	223.1	6472	425	1,910	7.20	13.3	~~B~~
8	14.81	223.1	32050	1,890	8,480	20.2	98.1	
9	15.33	223.1				32.4	958	
10	15.45	257.5	1451	5,050	19,600	253	391	~~B~~ U
11	15.91	257.5	473	12.3	47.9	9.46	958	J
12	15.98	223.1	514	121	542	13.3	958	J
13	16.16	223.1	703	31.2	140	2.36	3.74	
14	16.31	249.0	16733	970	3,890	3.75	25.9	~~B~~ U
15	16.39	257.5	14306	1,150	4,460	5.44	25.9	~~B~~
16	16.69	257.5	1172	2,570	9,970	292	292	~~B~~ U
17	16.98	257.5	22426	1,040	4,020	6.32	27.3	~~B~~
19	17.41	267.9	7619	305	1,140	8.12	958	J
20	17.56	257.5	149	3.55	13.8	0.728	0.743	
21	17.72	257.5	538	1,490	5,770	258	506	
22	17.78	257.5	174			387	387	~~B~~
23	17.99	257.5	42384	1,290	5,010	5.52	28.9	~~B~~
24	18.03	257.5	8294	219	852	7.05	36.9	
25	18.43	259.5	27144	929	3,580	4.64	27.8	~~B~~
26	18.62	258.7	6562	227	878	7.55	20.3	
27	18.85	292.0	8143	233	799	4.02	6.25	~~B~~
28	19.00	257.5	252	13.2	51.2	6.94	958	J
29	19.13	292.0	604	19.9	68.0	4.48	4.48	
30	19.26	257.5	678	38.1	148	18.4	958	J
31	19.43	292.0	35960	1,570	5,390	6.90	33.4	
32	19.60	292.0	32006	701	2,400	1.95	16.1	
33	19.72	292.0	469	385	1,320	257	701	J
34	19.76	292.0	2924	58.8	201	2.15	7.01	
35	19.92	292.0	893	18.9	64.8	6.40	958	J
36	19.99	257.5	159	8.69	33.8	7.66	958	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	1608	34.7	119	4.67	30.1	
38	20.30	272.4	6899	235	863	4.83	18.2	
39	20.65	292.0	13600	296	1,010	5.67	28.7	
41	20.81	326.4	3621	128	393	8.01	958	J
42	20.91	292.0	623	13.8	47.2	3.79	6.59	
43	21.16	298.9	3292	89.7	300	8.47	958	J
44	21.38	298.9	1578	27.5	92.0	0.889	1.54	
45	21.51	292.0	60			441	441	
46	21.66	292.0	3521	48.6	166	1.83	13.3	
47	21.80	292.0	1660	21.1	72.3	4.14	23.8	J
48	21.97	293.5	16634	455	1,550	10.2	50.6	
49	22.21	324.7	6632	145	446	1.07	3.57	
50	22.52	292.0	1118	11.0	37.6	3.31	24.5	J
51	22.78	326.4	12457	555	1,700	8.01	12.6	
52	22.85	326.4	149	3.20	9.81	1.26	1.40	
53	23.00	326.4	6044	128	393	2.10	12.6	
54	23.21	326.4	3158	42.4	130	2.20	5.17	
55	23.49	326.4	915	7.73	23.7	0.575	0.575	
56	23.59	326.4	165	351	1,070	143	210	
57	23.80	326.4	700	10.3	31.7	1.63	3.91	
58	23.97	326.4	3411	62.5	192	3.06	8.12	
59	24.12	326.4	943	14.0	42.8	2.01	4.90	
60	24.24	360.9	2794	52.6	146	1.96	5.25	
61	24.38	315.8	6549	142	450	2.94	14.9	
62	24.66	360.9				14.3	958	
63	24.75	326.4	288			3.75	3.75	
64	25.05	360.9	5494	103	284	1.92	11.9	
65	25.18	350.5	2454	28.0	79.9	0.575	2.03	
66	25.23	360.9	62	2.65	7.35	2.26	4.21	J
67	25.32	336.8	1374	27.2	80.9	1.52	1.82	
68	25.40	326.4	16			5.17	958	
69	25.50	337.5	5567	93.6	277	4.06	28.0	
70	25.61	360.9				5.98	958	
71	25.88	347.8	1502	23.1	66.5	2.87	2.87	
72	26.11	336.8	1277	12.6	37.3	0.494	0.494	
73	26.39	360.9	2320	39.1	108	0.996	2.73	
74	26.52	347.8	2227	28.0	80.5	3.07	9.50	
75	26.67	360.9	3056	38.7	107	4.83	20.6	
76	26.78	360.9				5.63	958	
77	27.22	360.9	268	5.57	15.4	2.94	11.9	J
78	27.27	395.3	1308	24.2	61.1	1.34	10.2	
79	27.50	360.9	237	7.38	20.4	0.954	1.05	
80	27.57	360.9	539	4.78	13.2	0.648	1.82	
82	27.88	360.9	7191	109	302	4.52	18.9	
83	28.02	360.9	219	3.20	8.87	2.34	2.34	
84	28.25	360.9	157	0.539	1.49	0.257	0.257	
85	28.59	395.3	2053	56.9	144	3.46	7.70	
87	28.88	395.3	96	2.54	6.42	0.632	2.80	J
88	29.04	395.3	3079	41.6	105	3.55	25.2	
89	29.16	360.9	494	5.23	14.5	1.28	1.40	
90	29.35	395.3	476	5.51	13.9	2.94	11.9	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.62	360.9	163	2.14	5.92	0.548	0.686	
92	29.97	394.3				1.02	3.29	
93	30.34	394.3	904	7.99	20.3	4.98	22.4	J
94	30.60	394.3	1304	21.7	55.0	4.79	11.9	
95	30.89	382.2	728	12.0	31.3	3.58	5.52	
96	31.17	429.8	817	1.76	4.10	0.160	0.464	
98	31.33	395.3				3.06	3.06	
99	31.73	429.8	253	4.69	10.9	2.10	2.73	
100	31.97	395.3	494	9.45	23.9	2.16	3.91	
101	32.23	429.8	15			4.21	4.21	
102	32.44	395.3	2294	15.8	40.0	6.25	42.5	J
103	32.69	395.3	158			2.80	2.94	
104	32.99	395.3				1.51	1.68	
105	33.35	429.8	140	2.35	5.47	0.946	3.01	J
106	34.50	395.3	1110	8.94	22.6	2.21	8.97	J
107	34.78	395.3	431	4.08	10.3	1.63	2.94	
108	35.67	429.8	96			1.70	1.70	
109	35.89	429.8	2048	42.4	98.6	9.35	29.4	
110	36.43	429.8	2016	36.2	84.2	7.09	30.1	
111	37.60	395.3				1.30	1.30	
112	39.15	429.8	496	3.64	8.47	1.89	3.87	J
113	39.69	464.2	684	14.2	30.6	2.04	3.46	
114	40.63	464.2				0.904	1.30	
115	42.07	429.8	1340	10.8	25.2	4.14	12.6	J
116	42.98	429.8	175			2.39	2.39	
117	48.14	464.2	1650	15.9	34.2	4.52	4.75	
118	54.17	498.6				0.904	0.904	
						3750	6490	

Concentration = ~~74,200~~ 20,380 ng/L

Total Nanomoles = 318

Average Molecular Weight = 233.4

Number of Calibrated Peaks Found = 101

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 242343.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07352.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02T-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 19:47:10

Total PCBs in sample = ~~3,730~~ 2,786 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	8.75	11.40
Di	31.25	34.31
Tri	37.05	35.40
Tetra	18.08	15.29
Penta	3.60	2.73
Hexa	1.09	0.75
Hepta	0.17	0.10
Octa	0.00	0.00
Nona	0.03	0.01
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	297.7340	49.9	49.9
A1242	23+24/31+28	272.8947	45.8	45.7
A1254SED	61/110	25.4582	4.3	
A1254BIO	***/###	26.4444		4.4
A1260	102/180		0.0	0.0
A1268	115/194	0.1035	0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.66

Meta + Para Cl / biphenyl Residue = 1.00

TOTAL Cl / biphenyl Residue = 2.66

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07352.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02T-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 19:47:10
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	3779	298	1,580	3.34	12.6	
3	12.70	188.7				144	5750	
4	12.84	188.7	203	28.6	152	1.83	7.36	
5	13.47	223.1	2286	915	4,100	41.7	71.4	B ~~U~~
6	14.30	223.1	2812	12.7	56.9	0.514	1.26	~~B~~
7	14.62	223.1	5438	51.8	232	1.08	1.99	~~B~~
8	14.80	223.1	16058	136	611	3.03	14.7	
9	15.34	223.1				4.86	144	
10	15.45	257.5	1892	206	801	7.59	11.7	~~B~~
11	15.92	257.5	71			1.42	144	
12	15.98	223.1	159	5.41	24.3	1.99	144	J
13	16.15	223.1	459	2.94	13.2	0.355	0.560	
14	16.31	249.0	19823	167	671	0.562	3.89	~~B~~
15	16.39	257.5	14280	166	646	0.816	3.89	~~B~~
16	16.69	257.5	1569	107	417	8.76	8.76	~~B~~
17	16.98	257.5	23797	160	620	0.948	4.10	~~B~~
19	17.41	267.9	3054	17.8	66.3	1.22	144	J
20	17.59	257.5	393	1.35	5.23	0.109	0.111	
21	17.71	257.5	766	68.3	265	7.75	15.2	
22	17.79	257.5	450	28.9	112	11.6	11.6	~~B~~ ~~U~~
23	17.99	257.5	27763	122	474	0.828	4.33	~~B~~
24	18.04	257.5	37436	151	586	1.06	5.54	
25	18.42	259.5	22834	113	436	0.695	4.17	~~B~~
26	18.63	258.7	17434	89.1	344	1.13	3.05	
27	18.85	292.0	5755	23.8	81.5	0.603	0.937	~~B~~ ~~U~~
28	19.00	257.5				1.04	144	
29	19.13	292.0	1865	9.03	30.9	0.672	0.672	
30	19.26	257.5				2.76	144	
31	19.43	292.0	23699	150	513	1.03	5.01	
32	19.60	292.0	20070	63.5	217	0.292	2.41	
33	19.71	292.0	12994	29.0	99.5	0.386	1.05	
34	19.77	292.0	5835	17.4	59.7	0.323	1.05	
35	19.92	292.0	108			0.960	144	
36	20.00	257.5	163	1.30	5.04	1.15	144	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	18081	73.3	251	0.701	4.52	
38	20.30	272.4	13683	68.2	250	0.724	2.73	
39	20.64	292.0	24273	78.0	267	0.851	4.30	
41	20.81	326.4	1172	6.03	18.5	1.20	144	J
42	20.91	292.0	4696	16.8	57.6	0.569	0.989	
43	21.16	298.9	930	3.68	12.3	1.27	144	J
44	21.34	298.9	1519	3.84	12.9	0.133	0.231	
45	21.49	292.0	1384	3.71	12.7	0.661	0.661	
46	21.66	292.0	7860	16.6	56.7	0.275	1.99	
47	21.79	292.0	11633	31.0	106	0.621	3.57	
48	21.91	293.5	21455	86.0	293	1.53	7.59	
49	22.21	324.7	2470	7.79	24.0	0.160	0.536	
50	22.52	292.0	10402	27.1	92.9	0.497	3.68	
51	22.76	326.4	4702	30.1	92.3	1.20	1.89	
52	22.86	326.4	127	0.394	1.21	0.189	0.210	
53	23.02	326.4	4838	14.8	45.3	0.315	1.89	
54	23.21	326.4	3170	6.17	18.9	0.329	0.776	
55	23.50	326.4	493	0.608	1.86	0.0862	0.0862	
56	23.58	326.4	1089	3.59	11.0	0.214	0.315	
57	23.80	326.4	2031	4.54	13.9	0.245	0.586	
58	23.97	326.4	4072	10.9	33.3	0.459	1.22	
59	24.12	326.4	1880	4.13	12.7	0.302	0.736	
60	24.25	360.9	1052	2.89	8.01	0.294	0.787	
61	24.38	315.8	8059	25.5	80.6	0.441	2.24	
62	24.62	360.9				2.14	144	
63	24.75	326.4	1400	2.74	8.40	0.562	0.562	
64	25.05	360.9	1793	4.58	12.7	0.289	1.79	
65	25.18	350.5	829	1.35	3.86	0.0862	0.305	
66	25.23	360.9	176	0.828	2.29	0.340	0.632	
67	25.32	336.8	656	1.90	5.64	0.228	0.273	
68	25.41	326.4	93			0.776	144	
69	25.51	337.5	5579	13.6	40.2	0.609	4.20	
70	25.61	360.9				0.897	144	
71	25.89	347.8	617	1.39	4.01	0.431	0.431	
72	26.11	336.8	591	0.845	2.51	0.0741	0.0741	
73	26.39	360.9	845	2.01	5.57	0.149	0.410	
74	26.51	347.8	3593	6.67	19.2	0.461	1.43	
75	26.67	360.9	1965	3.11	8.63	0.724	3.09	
76	26.78	360.9				0.845	144	
77	27.21	360.9	621	1.98	5.50	0.441	1.79	
78	27.26	395.3	305	0.822	2.08	0.202	1.53	J
79	27.49	360.9	310	1.41	3.91	0.143	0.157	
80	27.58	360.9	445	0.573	1.59	0.0971	0.273	
82	27.87	360.9	4615	9.77	27.1	0.678	2.83	
83	28.03	360.9	338	0.701	1.94	0.351	0.351	
84	28.25	360.9	186	0.0918	0.254	0.0386	0.0386	
85	28.59	395.3	874	3.52	8.91	0.519	1.16	
87	28.88	395.3				0.0948	0.420	
88	29.04	395.3	790			0.532	3.78	
89	29.17	360.9	681	1.05	2.90	0.193	0.210	
90	29.35	395.3	267			0.441	1.79	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.61	360.9	57	0.121	0.336	0.0822	0.103	
92	29.94	394.3	81			0.152	0.494	
93	30.35	394.3	298			0.747	3.36	
94	30.61	394.3	406	0.824	2.09	0.718	1.79	J
95	30.89	382.2	499	1.19	3.12	0.537	0.828	
96	31.18	429.8	356	0.105	0.244	0.0240	0.0695	
98	31.33	395.3				0.459	0.459	
99	31.73	429.8				0.314	0.410	
100	31.97	395.3				0.324	0.586	
101	32.23	429.8				0.632	0.632	
102	32.45	395.3	800			0.937	6.38	
103	32.69	395.3				0.420	0.441	
104	32.99	395.3				0.227	0.252	
105	33.35	429.8				0.142	0.452	
106	34.49	395.3	373	0.334	0.845	0.331	1.34	J
107	34.75	395.3	141			0.245	0.441	
108	35.70	429.8	77			0.255	0.255	
109	35.89	429.8	587			1.40	4.41	
110	36.42	429.8	561			1.06	4.52	
111	37.60	395.3				0.195	0.195	
112	39.21	429.8	124			0.283	0.580	
113	39.69	464.2	134	0.389	0.838	0.306	0.518	J
114	40.63	464.2				0.136	0.195	
115	42.08	429.8	288			0.621	1.89	
116	42.98	429.8				0.358	0.358	
117	48.15	464.2	476			0.678	0.713	
118	54.17	498.6				0.136	0.136	
						127	298	

Concentration = ~~3,730~~ 2,786 ng/L

Total Nanomoles = 15.2

Average Molecular Weight = 245.9

Number of Calibrated Peaks Found = 93

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 250439.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07354.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02T-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 20:54:27

Total PCBs in sample = ~~76,200~~ 20,600 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	5.09	6.27
Di	66.65	69.41
Tri	19.79	17.87
Tetra	5.81	4.64
Penta	1.73	1.24
Hexa	0.57	0.37
Hepta	0.23	0.14
Octa	0.11	0.06
Nona	0.03	0.01
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	3498.7071	67.1	66.0
A1242	23+24/31+28	1556.6488	29.9	29.4
A1254SED	61/110	133.8693	2.6	
A1254BIO	***/###	219.2451		4.1
A1260	102/180	13.1212	0.3	0.2
A1268	115/194	10.2841	0.2	0.2

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.90

Meta + Para Cl / biphenyl Residue = 0.37

TOTAL Cl / biphenyl Residue = 2.27

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07354.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02T-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 20:54:27
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.71	188.7	5319	3,500	18,500	22.8	85.9	
3	12.70	188.7				984	39200	
4	12.84	188.7	317	377	2,000	12.5	50.2	
5	13.47	223.1	3817	47,900	215,000	1420	2440	~~B~~ U
6	14.30	223.1	2111	79.2	355	3.51	8.59	~~B~~
7	14.62	223.1	5453	433	1,940	7.37	13.6	~~B~~
8	14.81	223.1	27181	1,940	8,690	20.7	100	
9	15.34	223.1				33.1	980	
10	15.45	257.5	1439	4,910	19,100	259	400	~~B~~ U
11	15.92	257.5	388	12.2	47.4	9.69	980	J
12	15.98	223.1	435	124	554	13.6	980	J
13	16.16	223.1	560	30.0	134	2.42	3.82	
14	16.31	249.0	14898	1,040	4,190	3.84	26.5	~~B~~
15	16.39	257.5	12316	1,190	4,640	5.57	26.5	~~B~~
16	16.69	257.5	1274	2,730	10,600	299	299	~~B~~ U
17	16.98	257.5	19350	1,080	4,190	6.47	28.0	~~B~~
19	17.41	267.9	6380	309	1,150	8.31	980	J
20	17.58	257.5	133	3.84	14.9	0.745	0.761	
21	17.71	257.5	480	1,280	4,960	264	518	
22	17.78	257.5	122			396	396	~~B~~
23	18.00	257.5	37411	1,380	5,350	5.65	29.5	~~B~~
24	18.04	257.5	5695	179	696	7.22	37.8	
25	18.43	259.5	23020	952	3,670	4.75	28.5	~~B~~
26	18.62	258.7	5380	225	870	7.73	20.8	
27	18.86	292.0	6780	235	804	4.12	6.39	~~B~~
28	19.00	257.5	208	13.2	51.2	7.10	980	J
29	19.13	292.0	485	19.3	66.0	4.59	4.59	
30	19.26	257.5	485	33.0	128	18.9	980	J
31	19.43	292.0	30178	1,600	5,460	7.06	34.2	
32	19.60	292.0	26759	708	2,430	1.99	16.5	
33	19.72	292.0	637	594	2,040	263	718	J
34	19.77	292.0	2021	48.6	166	2.20	7.18	
35	19.92	292.0	626	16.0	54.8	6.55	980	J
36	20.00	257.5	169	11.2	43.4	7.84	980	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	1394	36.7	126	4.78	30.8	
38	20.30	272.4	5744	237	869	4.94	18.6	
39	20.65	292.0	11250	296	1,010	5.80	29.4	
41	20.81	326.4	2956	127	388	8.20	980	J
42	20.91	292.0	535	14.3	49.1	3.88	6.75	
43	21.16	298.9	2617	86.2	288	8.67	980	J
44	21.37	298.9	1348	28.4	94.9	0.910	1.58	
45	21.50	292.0	80			451	451	
46	21.66	292.0	2827	46.9	161	1.87	13.6	
47	21.80	292.0	1292	18.9	64.8	4.24	24.4	J
48	21.97	293.5	13253	437	1,490	10.5	51.8	
49	22.21	324.7	5126	135	417	1.09	3.65	
50	22.52	292.0	890	9.95	34.1	3.39	25.1	J
51	22.78	326.4	9827	529	1,620	8.20	12.9	
52	22.89	326.4	114	2.95	9.05	1.29	1.44	
53	23.00	326.4	4640	119	363	2.15	12.9	
54	23.21	326.4	2921	47.4	145	2.25	5.29	
55	23.49	326.4	711	7.26	22.3	0.588	0.588	
56	23.58	326.4	62			146	215	
57	23.80	326.4	629	11.3	34.6	1.67	4.00	
58	23.97	326.4	2746	60.7	186	3.13	8.31	
59	24.12	326.4	666	11.8	36.2	2.06	5.02	
60	24.25	360.9	2132	48.5	134	2.00	5.37	
61	24.38	315.8	5112	134	424	3.01	15.3	
62	24.62	360.9				14.6	980	
63	24.74	326.4	266			3.84	3.84	
64	25.05	360.9	4183	94.1	261	1.97	12.2	
65	25.18	350.5	1898	26.2	74.6	0.588	2.08	
66	25.23	360.9				2.32	4.31	
67	25.32	336.8	1072	25.7	76.3	1.55	1.86	
68	25.40	326.4				5.29	980	
69	25.50	337.5	4282	86.0	255	4.16	28.7	
70	25.61	360.9				6.12	980	
71	25.88	347.8	1033	19.2	55.3	2.94	2.94	
72	26.12	336.8	934	11.1	33.0	0.506	0.506	
73	26.39	360.9	1856	37.8	105	1.02	2.80	
74	26.53	347.8	1737	26.3	75.6	3.15	9.73	
75	26.68	360.9	2333	34.8	96.5	4.94	21.1	
76	26.78	360.9				5.76	980	
77	27.23	360.9	196	4.85	13.4	3.01	12.2	J
78	27.27	395.3	818	18.3	46.2	1.38	10.5	
79	27.49	360.9	179	6.72	18.6	0.976	1.07	
80	27.58	360.9	441	4.73	13.1	0.663	1.86	
82	27.88	360.9	5419	98.4	273	4.63	19.3	
83	28.04	360.9	231	4.02	11.1	2.40	2.40	
84	28.25	360.9	170	0.690	1.91	0.264	0.264	
85	28.59	395.3	1494	50.1	127	3.54	7.88	
87	28.88	395.3	126	3.83	9.68	0.647	2.87	
88	29.05	395.3	2295	36.3	91.9	3.63	25.8	
89	29.17	360.9	364	4.64	12.9	1.31	1.44	
90	29.35	395.3	435	6.24	15.8	3.01	12.2	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.63	360.9	141	2.22	6.16	0.561	0.702	
92	29.93	394.3	98			1.04	3.37	
93	30.33	394.3	754	7.94	20.1	5.10	22.9	J
94	30.61	394.3	905	17.9	45.4	4.90	12.2	
95	30.89	382.2	507	10.1	26.4	3.66	5.65	
96	31.16	429.8	617	1.60	3.73	0.164	0.475	
98	31.33	395.3				3.13	3.13	
99	31.71	429.8	217	4.87	11.3	2.15	2.80	
100	31.97	395.3				2.21	4.00	
101	32.26	429.8	88			4.31	4.31	
102	32.44	395.3	1774	13.1	33.2	6.39	43.5	J
103	32.68	395.3	175	3.52	8.91	2.87	3.01	
104	32.99	395.3	86	1.99	5.04	1.55	1.72	
105	33.36	429.8	138	2.75	6.39	0.969	3.08	J
106	34.49	395.3	789	7.51	19.0	2.26	9.18	J
107	34.79	395.3	315	3.56	9.00	1.67	3.01	
108	35.69	429.8	121			1.74	1.74	
109	35.89	429.8	1466	35.8	83.2	9.57	30.1	
110	36.42	429.8	1229	24.6	57.4	7.26	30.8	J
111	37.60	395.3				1.33	1.33	
112	39.20	429.8	237	2.03	4.72	1.93	3.96	J
113	39.70	464.2	294	7.33	15.8	2.09	3.54	
114	40.63	464.2				0.926	1.33	
115	42.05	429.8	1067	10.3	23.9	4.24	12.9	J
116	42.98	429.8				2.44	2.44	
117	48.13	464.2	1184	13.7	29.5	4.63	4.86	
118	54.17	498.6				0.926	0.926	
						3830	6640	

Concentration = ~~76,200~~ 20,600 ng/L

Total Nanomoles = 328

Average Molecular Weight = 232.5

Number of Calibrated Peaks Found = 99

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 205239.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07356.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03T-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 22:01:44

Total PCBs in sample = ~~3,820~~ 2,835 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	7.49	9.86
Di	30.94	34.30
Tri	36.16	34.86
Tetra	19.32	16.49
Penta	4.30	3.29
Hexa	1.37	0.96
Hepta	0.28	0.17
Octa	0.09	0.05
Nona	0.05	0.03
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	268.7572	46.9	46.6
A1242	23+24/31+28	272.7230	47.6	47.2
A1254SED	61/110	30.8517	5.4	
A1254BIO	***/###	35.5361		6.2
A1260	102/180		0.0	0.0
A1268	115/194	0.2329	0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.70

Meta + Para Cl / biphenyl Residue = 1.03

TOTAL Cl / biphenyl Residue = 2.73

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07356.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03T-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 22:01:44
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	3399	269	1,420	3.42	12.9	
3	12.70	188.7				148	5880	
4	12.85	188.7	127	17.8	94.3	1.87	7.53	
5	13.47	223.1	2518	957	4,290	42.7	73.1	~~B~~ U
6	14.30	223.1	2592	11.7	52.5	0.526	1.29	~~B~~
7	14.62	223.1	4959	47.4	212	1.11	2.04	~~B~~
8	14.81	223.1	14627	125	558	3.11	15.1	
9	15.33	223.1				4.97	147	
10	15.45	257.5	2090	216	840	7.76	12.0	~~B~~
11	15.91	257.5				1.45	147	
12	15.97	223.1				2.04	147	
13	16.16	223.1	441	2.83	12.7	0.363	0.574	
14	16.31	249.0	19166	162	651	0.575	3.98	~~B~~
15	16.39	257.5	13894	162	631	0.835	3.98	~~B~~
16	16.69	257.5	1701	110	429	8.96	8.96	~~B~~
17	16.98	257.5	22933	154	599	0.971	4.19	~~B~~
19	17.41	267.9	3134	18.3	68.4	1.25	147	J
20	17.59	257.5	324	1.12	4.33	0.112	0.114	
21	17.71	257.5	788	66.5	258	7.93	15.5	
22	17.79	257.5	461	27.9	108	11.9	11.9	~~B~~ U
23	18.00	257.5	27948	123	479	0.847	4.43	~~B~~
24	18.05	257.5	36918	149	580	1.08	5.67	
25	18.43	259.5	23272	116	447	0.712	4.27	~~B~~
26	18.63	258.7	17186	88.2	341	1.16	3.12	
27	18.85	292.0	6130	25.5	87.3	0.618	0.959	~~B~~
28	18.99	257.5				1.06	147	
29	19.13	292.0	2054	10.00	34.2	0.688	0.688	
30	19.25	257.5				2.83	147	
31	19.43	292.0	25689	163	559	1.06	5.13	
32	19.60	292.0	21803	69.3	237	0.299	2.47	
33	19.71	292.0	14415	32.4	111	0.395	1.08	
34	19.78	292.0	6290	18.9	64.8	0.331	1.08	
35	19.91	292.0	79			0.982	147	
36	20.01	257.5	109			1.18	147	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	19270	78.5	269	0.718	4.62	
38	20.30	272.4	14626	73.2	269	0.741	2.79	
39	20.65	292.0	25964	83.9	287	0.871	4.41	
41	20.81	326.4	1374	7.10	21.8	1.23	147	J
42	20.91	292.0	4935	17.8	60.8	0.582	1.01	
43	21.17	298.9	1048	4.16	13.9	1.30	147	J
44	21.34	298.9	1822	4.62	15.5	0.136	0.236	
45	21.50	292.0	1547	4.16	14.2	0.676	0.676	
46	21.67	292.0	8879	18.9	64.6	0.281	2.04	
47	21.80	292.0	12992	34.9	120	0.635	3.65	
48	21.91	293.5	24441	98.8	337	1.57	7.76	
49	22.21	324.7	2885	9.15	28.2	0.164	0.548	
50	22.52	292.0	11391	30.0	103	0.509	3.76	
51	22.76	326.4	5714	36.8	113	1.23	1.94	
52	22.87	326.4	220	0.689	2.11	0.193	0.215	
53	23.02	326.4	5892	18.2	55.7	0.322	1.94	
54	23.21	326.4	3882	7.62	23.3	0.337	0.794	
55	23.50	326.4	640	0.790	2.42	0.0882	0.0882	
56	23.58	326.4	1448	4.79	14.7	0.219	0.322	
57	23.80	326.4	2508	5.65	17.3	0.251	0.600	
58	23.97	326.4	4926	13.3	40.7	0.470	1.25	
59	24.13	326.4	2258	5.01	15.3	0.309	0.753	
60	24.25	360.9	1311	3.61	10.0	0.301	0.806	
61	24.38	315.8	9702	30.9	97.7	0.452	2.29	
62	24.62	360.9				2.19	147	
63	24.75	326.4	1630	3.23	9.89	0.575	0.575	
64	25.05	360.9	2288	5.97	16.6	0.295	1.83	
65	25.18	350.5	1125	1.85	5.29	0.0882	0.312	
66	25.24	360.9	157	0.762	2.11	0.348	0.647	
67	25.31	336.8	817	2.37	7.04	0.233	0.279	
68	25.39	326.4	106			0.794	147	
69	25.51	337.5	6988	17.4	51.6	0.624	4.30	
70	25.61	360.9				0.918	147	
71	25.90	347.8	724	1.64	4.71	0.441	0.441	
72	26.12	336.8	660	0.946	2.81	0.0759	0.0759	
73	26.39	360.9	970	2.33	6.45	0.153	0.419	
74	26.51	347.8	4381	8.21	23.6	0.472	1.46	
75	26.68	360.9	2689	4.74	13.1	0.741	3.16	
76	26.78	360.9				0.865	147	
77	27.21	360.9	825	2.68	7.42	0.451	1.83	
78	27.25	395.3	363	0.980	2.48	0.206	1.57	J
79	27.49	360.9	245	1.12	3.09	0.146	0.161	
80	27.57	360.9	319	0.415	1.15	0.0994	0.279	
82	27.87	360.9	6146	13.4	37.1	0.694	2.90	
83	28.04	360.9	512	1.05	2.91	0.359	0.359	
84	28.24	360.9	256	0.124	0.344	0.0395	0.0395	
85	28.60	395.3	1175	4.75	12.0	0.531	1.18	
87	28.84	395.3	79	0.314	0.794	0.0971	0.430	J
88	29.04	395.3	1059	1.13	2.86	0.545	3.87	J
89	29.17	360.9	960	1.49	4.12	0.197	0.215	
90	29.36	395.3	285			0.452	1.83	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.63	360.9	144	0.279	0.772	0.0841	0.105	
92	29.95	394.3				0.156	0.505	
93	30.34	394.3	651			0.765	3.44	
94	30.61	394.3	525	1.13	2.87	0.735	1.83	J
95	30.90	382.2	654	1.57	4.11	0.549	0.847	
96	31.17	429.8	417	0.125	0.291	0.0245	0.0712	
98	31.33	395.3				0.470	0.470	
99	31.67	429.8	81			0.322	0.419	
100	31.96	395.3				0.331	0.600	
101	32.29	429.8	86			0.647	0.647	
102	32.45	395.3	1277			0.959	6.53	
103	32.69	395.3	134			0.430	0.452	
104	32.99	395.3				0.232	0.258	
105	33.29	429.8	153	0.372	0.866	0.145	0.462	J
106	34.51	395.3	813	0.907	2.29	0.339	1.38	J
107	34.79	395.3	310	0.408	1.03	0.251	0.452	J
108	35.63	429.8	96			0.261	0.261	
109	35.90	429.8	685	1.47	3.43	1.44	4.52	J
110	36.45	429.8	802	1.43	3.32	1.09	4.62	J
111	37.55	395.3	89			0.200	0.200	
112	39.12	429.8	190			0.289	0.594	
113	39.68	464.2	227	0.673	1.45	0.313	0.531	
114	40.64	464.2				0.139	0.200	
115	42.07	429.8	385			0.635	1.94	
116	42.95	429.8				0.366	0.366	
117	48.17	464.2	1013	1.39	3.00	0.694	0.729	
118	54.16	498.6				0.139	0.139	
						130	305	

Concentration = ~~3,820~~ 2,835 ng/L

Total Nanomoles = 15.4

Average Molecular Weight = 248.2

Number of Calibrated Peaks Found = 96

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 255213.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07358.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03T-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 23:09:02

Total PCBs in sample = ~~80,000~~ 20,716 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	5.10	6.30
Di	65.61	68.42
Tri	21.24	19.20
Tetra	5.35	4.29
Penta	1.31	0.94
Hexa	0.80	0.52
Hepta	0.38	0.22
Octa	0.17	0.09
Nona	0.05	0.02
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	3735.3014	72.7	70.7
A1242	23+24/31+28	1168.6268	22.7	22.1
A1254SED	61/110	186.3299	3.6	
A1254BIO	***/###	331.7827		6.3
A1260	102/180	30.4192	0.6	0.6
A1268	115/194	17.5430	0.3	0.3

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.93

Meta + Para Cl / biphenyl Residue = 0.36

TOTAL Cl / biphenyl Residue = 2.28

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07358.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03T-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/28/2004 23:09:02
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	7273	3,740	19,800	22.0	83.0	
3	12.70	188.7				951	37900	
4	12.84	188.7	375	348	1,840	12.0	48.5	
5	13.47	223.1	4120	51,300	230,000	1380	2350	~~B~~ U
6	14.30	223.1	3972	118	528	3.39	8.30	~~B~~
7	14.62	223.1	8655	538	2,410	7.12	13.1	~~B~~
8	14.81	223.1	588			2000	9700	
9	15.36	223.1				32.0	947	
10	15.45	257.5	1640	5,560	21,600	250	386	~~B~~ U
11	15.92	257.5	646	15.9	61.7	9.36	947	J
12	15.98	223.1	729	162	725	13.1	947	J
13	16.16	223.1	1010	42.3	190	2.34	3.69	
14	16.31	249.0	22184	1,220	4,880	3.70	25.6	~~B~~
15	16.39	257.5	246	~~1,510~~	5,860	538	2560	~~JB~~ U
16	16.69	257.5	1428	3,040	11,800	289	289	~~B~~
17	16.98	257.5	29658	1,290	5,020	6.25	27.0	~~B~~
19	17.41	267.9	10327	391	1,460	8.03	947	J
20	17.57	257.5	169	3.80	14.8	0.720	0.735	
21	17.72	257.5	583	1,580	6,130	255	500	
22	17.79	257.5	140			383	383	~~B~~
23	17.99	257.5	751	~~914~~	3,550	545	2850	~~JB~~ U
24	18.04	257.5	10119	255	989	6.97	36.5	
25	18.43	259.5	35811	1,160	4,460	4.58	27.5	~~B~~
26	18.62	258.7	8901	293	1,130	7.46	20.1	
27	18.86	292.0	10787	292	1,000	3.98	6.17	~~B~~
28	19.00	257.5	343	17.0	65.9	6.86	947	J
29	19.13	292.0	816	25.5	87.2	4.43	4.43	
30	19.26	257.5	980	52.0	202	18.2	947	J
31	19.43	292.0	555	1,050	3,610	682	3300	J
32	19.60	292.0	562	519	1,780	192	1590	J
33	19.72	292.0	633	593	2,030	254	693	J
34	19.76	292.0	4119	79.1	271	2.13	6.93	
35	19.92	292.0	1193	23.8	81.6	6.33	947	J
36	19.99	257.5	212	11.0	42.6	7.58	947	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	2095	45.4	155	4.62	29.8	
38	20.30	272.4	9402	303	1,110	4.77	18.0	
39	20.65	292.0	18782	389	1,330	5.61	28.4	
41	20.81	326.4	5109	171	524	7.92	947	J
42	20.91	292.0	810	17.3	59.3	3.75	6.52	
43	21.16	298.9	4658	120	401	8.37	947	J
44	21.38	298.9	76	146	489	87.9	152	J
45	21.49	292.0	104			436	436	
46	21.66	292.0	5034	67.2	230	1.81	13.1	
47	21.80	292.0	2345	31.9	109	4.09	23.5	
48	21.97	293.5	22811	595	2,030	10.1	50.0	
49	22.21	324.7	82	111	342	105	353	J
50	22.52	292.0	1569	18.0	61.6	3.28	24.2	J
51	22.79	326.4	187			792	1250	
52	22.85	326.4	180	3.64	11.1	1.24	1.39	
53	23.00	326.4	8641	174	533	2.08	12.5	
54	23.21	326.4	5313	67.9	208	2.17	5.11	
55	23.49	326.4	36			56.8	56.8	
56	23.56	326.4	48			141	208	
57	23.80	326.4	959	13.6	41.6	1.61	3.86	
58	23.97	326.4	4635	80.7	247	3.03	8.03	
59	24.12	326.4	1158	16.3	49.9	1.99	4.85	
60	24.25	360.9	3780	67.0	186	1.94	5.19	
61	24.38	315.8	9062	186	590	2.91	14.7	
62	24.62	360.9				14.1	947	
63	24.75	326.4	404	4.45	13.6	3.70	3.70	
64	25.05	360.9	7698	137	378	1.90	11.8	
65	25.18	350.5	3465	37.4	107	0.568	2.01	
66	25.25	360.9	68	2.69	7.46	2.24	4.17	J
67	25.32	336.8	1871	34.9	104	1.50	1.80	
68	25.38	326.4	42			5.11	947	
69	25.50	337.5	8046	131	389	4.02	27.7	
70	25.61	360.9				5.91	947	
71	25.89	347.8	2028	29.4	84.5	2.84	2.84	
72	26.12	336.8	1722	16.0	47.4	0.489	0.489	
73	26.39	360.9	3371	53.9	149	0.985	2.70	
74	26.52	347.8	3213	38.6	111	3.04	9.39	
75	26.68	360.9	4330	54.8	152	4.77	20.4	
76	26.78	360.9				5.57	947	
77	27.23	360.9	537	11.1	30.7	2.91	11.8	J
78	27.27	395.3	1756	30.6	77.4	1.33	10.1	
79	27.48	360.9	418	12.4	34.4	0.943	1.04	
80	27.57	360.9	963	8.02	22.2	0.640	1.80	
82	27.88	360.9	10045	146	404	4.47	18.7	
83	28.04	360.9	282	3.84	10.6	2.31	2.31	
84	28.26	360.9	130	0.430	1.19	0.255	0.255	
85	28.60	395.3	3005	78.6	199	3.42	7.61	
87	28.89	395.3	101	2.52	6.37	0.625	2.77	J
88	29.05	395.3	4410	59.5	151	3.51	24.9	
89	29.17	360.9	698	6.98	19.3	1.27	1.39	
90	29.36	395.3	646	7.66	19.4	2.91	11.8	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.61	360.9	182	2.24	6.21	0.542	0.678	
92	29.96	394.3	181	1.28	3.25	1.00	3.25	J
93	30.34	394.3	1756	20.5	52.1	4.92	22.2	J
94	30.60	394.3	1884	30.1	76.4	4.73	11.8	
95	30.90	382.2	894	13.9	36.3	3.54	5.45	
96	31.16	429.8	1032	2.12	4.93	0.158	0.458	
98	31.33	395.3				3.03	3.03	
99	31.70	429.8	358	6.07	14.1	2.07	2.70	
100	31.97	395.3	598	10.7	27.1	2.13	3.86	
101	32.26	429.8	139			4.17	4.17	
102	32.45	395.3	3454	30.4	77.0	6.17	42.0	J
103	32.70	395.3	387	6.12	15.5	2.77	2.91	
104	33.01	395.3				1.50	1.66	
105	33.34	429.8	313	4.62	10.8	0.936	2.98	
106	34.51	395.3	1292	9.93	25.1	2.18	8.86	
107	34.79	395.3	451	4.03	10.2	1.61	2.91	
108	35.64	429.8	117			1.68	1.68	
109	35.89	429.8	2647	53.0	123	9.24	29.1	
110	36.43	429.8	2357	40.7	94.7	7.01	29.8	
111	37.64	395.3	136	1.53	3.87	1.29	1.29	
112	39.17	429.8	710	4.97	11.6	1.86	3.83	
113	39.70	464.2	873	17.2	37.0	2.02	3.42	
114	40.62	464.2				0.894	1.29	
115	42.06	429.8	2165	17.5	40.8	4.09	12.5	
116	43.02	429.8	287	3.39	7.89	2.36	2.36	
117	48.12	464.2	2451	22.4	48.3	4.47	4.70	
118	54.16	498.6				0.894	0.894	
						8650	28000	

Concentration = ~~80,000~~ 20,716 ng/L

Total Nanomoles = 344

Average Molecular Weight = 232.8

Number of Calibrated Peaks Found = 103

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 253961.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07360.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01T-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 00:16:20

Total PCBs in sample = ~~43,600~~ 31,270 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	3.47	4.40
Di	50.52	54.24
Tri	35.35	32.94
Tetra	7.58	6.24
Penta	2.10	1.55
Hexa	0.57	0.38
Hepta	0.22	0.14
Octa	0.13	0.07
Nona	0.06	0.03
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	1363.7860	42.0	41.5
A1242	23+24/31+28	1771.5359	54.6	54.0
A1254SED	61/110	105.8898	3.3	
A1254BIO	***/###	143.5187		4.4
A1260	102/180	0.6454	0.0	0.0
A1268	115/194	3.7737	0.1	0.1

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.66

Meta + Para Cl / biphenyl Residue = 0.83

TOTAL Cl / biphenyl Residue = 2.49

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07360.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01T-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 00:16:20
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	2449	1,360	7,230	23.4	88.0	
3	12.73	188.7				1010	40200	
4	12.84	188.7	149	148	782	12.8	51.4	
5	13.44	223.1	4742	12,000	53,900	292	499	~~B~~ u
6	14.30	223.1	1640	51.3	230	3.59	8.80	~~B~~
7	14.62	223.1	1587	1,780	7,980	151	279	~~B~~
8	14.81	223.1	7758	7,820	35,100	424	2060	
9	15.36	223.1				33.9	1000	
10	15.45	257.5	2537	1,760	6,820	53.0	81.9	~~B~~
11	15.92	257.5	67			9.92	1000	
12	15.98	223.1	341	82.5	370	13.9	1000	J
13	16.16	223.1	1113	50.9	228	2.48	3.92	
14	16.31	249.0	15244	908	3,640	3.93	27.1	~~B~~
15	16.40	257.5	2959	4,150	16,100	114	543	~~B~~
16	16.69	257.5	3034	1,320	5,110	61.2	61.2	~~B~~
17	16.98	257.5	4406	3,470	13,500	133	573	~~B~~
19	17.41	267.9	2692	111	414	8.51	1000	J
20	17.58	257.5				0.763	0.779	
21	17.71	257.5	1771	1,040	4,020	54.1	106	
22	17.80	257.5	786	330	1,280	81.1	81.1	~~B~~ u
23	17.99	257.5	47939	1,500	5,840	5.78	30.2	~~B~~
24	18.04	257.5	9773	268	1,040	7.39	38.7	
25	18.43	259.5	13203	461	1,780	4.86	29.2	~~B~~
26	18.62	258.7	8736	313	1,210	7.91	21.3	
27	18.86	292.0	4414	129	441	4.22	6.55	~~B~~
28	19.00	257.5	92			7.27	1000	
29	19.13	292.0	1130	38.6	132	4.70	4.70	
30	19.26	257.5	320			19.3	1000	
31	19.43	292.0	24667	1,110	3,790	7.23	35.0	
32	19.60	292.0	26909	605	2,070	2.04	16.9	
33	19.72	292.0	1927	474	1,620	53.9	147	
34	19.76	292.0	1879	37.8	129	2.26	7.35	
35	19.93	292.0	200			6.71	1000	
36	20.00	257.5	92			8.03	1000	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	1846	42.5	146	4.90	31.6	
38	20.30	272.4	4320	150	551	5.06	19.1	
39	20.65	292.0	12539	280	957	5.94	30.1	
41	20.81	326.4	1884	68.7	211	8.39	1000	J
42	20.91	292.0	1631	40.1	137	3.98	6.91	
43	21.16	298.9	1332	37.3	125	8.88	1000	J
44	21.38	298.9	808	14.7	49.0	0.932	1.61	
45	21.49	292.0	2025	38.3	131	4.62	4.62	
46	21.66	292.0	2299	30.8	106	1.92	13.9	
47	21.80	292.0	912	6.62	22.7	4.34	24.9	J
48	21.97	293.5	10874	299	1,020	10.7	53.0	
49	22.21	324.7	5032	113	348	1.12	3.74	
50	22.52	292.0	602			3.47	25.7	
51	22.77	326.4	8016	366	1,120	8.39	13.2	
52	22.85	326.4	20			1.32	1.47	
53	23.00	326.4	3413	72.9	223	2.20	13.2	
54	23.21	326.4	2084	28.3	86.7	2.30	5.42	
55	23.49	326.4	739	6.43	19.7	0.602	0.602	
56	23.58	326.4	997	23.3	71.4	1.50	2.20	
57	23.80	326.4	408	5.90	18.1	1.71	4.10	
58	23.98	326.4	1965	36.1	111	3.21	8.51	
59	24.13	326.4	430	6.17	18.9	2.11	5.14	
60	24.25	360.9	1342	26.1	72.3	2.05	5.50	
61	24.38	315.8	4777	106	335	3.08	15.6	
62	24.66	360.9				15.0	1000	
63	24.76	326.4	162			3.93	3.93	
64	25.05	360.9	2432	45.1	125	2.02	12.5	
65	25.18	350.5	1401	16.3	46.6	0.602	2.13	
66	25.23	360.9	47			2.37	4.42	
67	25.32	336.8	853	17.5	51.8	1.59	1.91	
68	25.39	326.4	40			5.42	1000	
69	25.49	337.5	3871	63.6	188	4.26	29.4	
70	25.61	360.9				6.27	1000	
71	25.89	347.8	814	13.0	37.3	3.01	3.01	
72	26.12	336.8	611	6.19	18.4	0.518	0.518	
73	26.39	360.9	1295	22.2	61.5	1.04	2.86	
74	26.52	347.8	1345	16.8	48.4	3.22	9.96	
75	26.67	360.9	1789	19.4	53.7	5.06	21.6	J
76	26.78	360.9				5.90	1000	
77	27.23	360.9	154			3.08	12.5	
78	27.27	395.3	663	12.6	31.9	1.41	10.7	
79	27.49	360.9	170	5.39	14.9	1.00	1.10	
80	27.58	360.9	362	3.31	9.18	0.679	1.91	
82	27.88	360.9	4083	60.5	168	4.74	19.8	
83	28.02	360.9	177	2.70	7.48	2.45	2.45	
84	28.25	360.9				0.270	0.270	
85	28.60	395.3	894	25.5	64.6	3.63	8.07	
87	28.89	395.3	67	1.93	4.87	0.663	2.94	J
88	29.05	395.3	2016	24.5	62.1	3.72	26.4	J
89	29.15	360.9	225	2.42	6.71	1.35	1.47	
90	29.35	395.3	299			3.08	12.5	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.62	360.9				0.574	0.719	
92	29.93	394.3	132			1.06	3.45	
93	30.33	394.3	492			5.22	23.5	
94	30.60	394.3	844	13.9	35.2	5.02	12.5	
95	30.91	382.2	376	6.39	16.7	3.75	5.78	
96	31.15	429.8	482	1.04	2.41	0.167	0.486	
98	31.33	395.3				3.21	3.21	
99	31.73	429.8	164	3.35	7.78	2.20	2.86	
100	31.96	395.3	173	3.78	9.56	2.26	4.10	J
101	32.26	429.8	64			4.42	4.42	
102	32.45	395.3	1302			6.55	44.6	
103	32.73	395.3	113			2.94	3.08	
104	33.01	395.3	67			1.59	1.76	
105	33.28	429.8	172	2.91	6.77	0.992	3.16	J
106	34.51	395.3	630	4.75	12.0	2.31	9.40	J
107	34.76	395.3	442	4.31	10.9	1.71	3.08	
108	35.67	429.8	109			1.78	1.78	
109	35.87	429.8	1511	30.5	71.1	9.80	30.8	J
110	36.43	429.8	1182	18.7	43.5	7.43	31.6	J
111	37.65	395.3	132	1.62	4.10	1.37	1.37	
112	39.17	429.8	142			1.98	4.06	
113	39.66	464.2	487	10.4	22.3	2.14	3.62	
114	40.62	464.2				0.948	1.37	
115	42.03	429.8	595			4.34	13.2	
116	42.95	429.8				2.50	2.50	
117	48.10	464.2	1681	16.6	35.8	4.74	4.98	
118	54.16	498.6				0.948	0.948	
						1720	5500	

Concentration = ~~43,600~~ 31,270 ng/L

Total Nanomoles = 182

Average Molecular Weight = 239.8

Number of Calibrated Peaks Found = 100

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 246888.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07362.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01T-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 02:30:49

Total PCBs in sample = ~~167,000~~ 159,855 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	24.06	28.35
Di	52.62	52.43
Tri	16.84	14.55
Tetra	4.05	3.10
Penta	1.49	1.02
Hexa	0.49	0.31
Hepta	0.28	0.16
Octa	0.13	0.07
Nona	0.04	0.02
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	38960.8870	93.7	93.4
A1242	23+24/31+28	2274.5169	5.5	5.5
A1254SED	61/110	286.6029	0.7	
A1254BIO	***/###	421.1160		1.0
A1260	102/180	37.8745	0.1	0.1
A1268	115/194	22.0784	0.1	0.1

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.66

Meta + Para Cl / biphenyl Residue = 0.32

TOTAL Cl / biphenyl Residue = 1.98

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07362.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01T-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 02:30:49
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.71	188.7	812	39,000	206,000	2260	8490	
3	12.71	188.7				1460	58100	
4	12.84	188.7	869	1,230	6,520	18.5	74.4	
5	13.47	223.1	6013	78,200	351,000	1410	2410	~~B~~
6	14.30	223.1	6607	299	1,340	5.20	12.7	~~B~~
7	14.62	223.1	382	1,940	8,680	729	1340	~~B~~ U
8	14.81	223.1	1513	6,610	29,600	2050	9920	J
9	15.36	223.1				49.1	1450	
10	15.45	257.5	2541	9,040	35,100	256	395	~~B~~
11	15.91	257.5	113			14.4	1450	
12	15.98	223.1	750	252	1,130	20.2	1450	J
13	16.16	223.1	1578	100	450	3.59	5.67	
14	16.31	249.0	22319	1,850	7,440	5.69	39.3	~~B~~
15	16.39	257.5	292	~~1,910~~	7,430	550	2620	~~JB~~ U
16	16.69	257.5	2508	5,580	21,700	295	295	~~B~~
17	16.98	257.5	838	2,860	11,100	640	2760	~~B~~ U
19	17.41	267.9	8821	505	1,890	12.3	1450	J
20	17.58	257.5				1.10	1.13	
21	17.71	257.5	686	1,970	7,660	261	512	
22	17.80	257.5	230	435	1,690	391	391	~~B~~ U
23	18.00	257.5	46222	2,010	7,810	8.37	43.8	~~B~~
24	18.04	257.5	7080	263	1,020	10.7	56.0	
25	18.43	259.5	29734	1,450	5,600	7.03	42.2	~~B~~
26	18.62	258.7	11147	557	2,150	11.5	30.8	
27	18.86	292.0	7113	290	995	6.10	9.48	~~B~~
28	19.00	257.5	497	37.3	145	10.5	1450	J
29	19.13	292.0	824	38.9	133	6.80	6.80	
30	19.26	257.5	1157	93.0	361	28.0	1450	J
31	19.43	292.0	38636	2,410	8,270	10.5	50.7	
32	19.60	292.0	29499	922	3,160	2.95	24.4	
33	19.72	292.0	826	898	3,080	260	709	
34	19.77	292.0	2639	75.2	257	3.27	10.6	
35	19.92	292.0	722	21.8	74.8	9.71	1450	J
36	20.00	257.5	350	27.4	107	11.6	1450	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	2663	91.7	314	7.09	45.7	
38	20.30	272.4	8733	426	1,570	7.33	27.6	
39	20.65	292.0	17513	548	1,880	8.60	43.5	
41	20.82	326.4	4993	253	775	12.2	1450	J
42	20.91	292.0	830	26.9	92.2	5.76	10.0	
43	21.16	298.9	2305	89.7	300	12.8	1450	J
44	21.38	298.9	1776	44.2	148	1.35	2.34	
45	21.49	292.0	3339	87.6	300	6.69	6.69	
46	21.66	292.0	5123	104	355	2.78	20.2	
47	21.79	292.0	1649	28.9	98.8	6.28	36.1	J
48	21.97	293.5	16683	651	2,220	15.5	76.7	
49	22.21	324.7	7919	247	762	1.62	5.42	
50	22.52	292.0	1122	14.9	51.0	5.03	37.2	J
51	22.78	326.4	13277	845	2,590	12.2	19.1	
52	22.89	326.4	143	4.38	13.4	1.91	2.13	
53	23.00	326.4	6880	209	639	3.19	19.1	
54	23.21	326.4	3749	72.0	221	3.33	7.85	
55	23.52	326.4	68			58.1	58.1	
56	23.58	326.4	82	187	572	145	212	J
57	23.80	326.4	752	15.9	48.7	2.48	5.93	
58	23.97	326.4	4202	111	339	4.65	12.3	
59	24.13	326.4	913	19.2	58.9	3.05	7.44	
60	24.25	360.9	3263	87.7	243	2.97	7.97	
61	24.38	315.8	9205	287	908	4.47	22.6	
62	24.66	360.9				21.7	1450	
63	24.74	326.4	229			5.69	5.69	
64	25.05	360.9	6371	170	472	2.92	18.1	
65	25.18	350.5	3801	62.1	177	0.872	3.08	
66	25.25	360.9				3.44	6.40	
67	25.32	336.8	1795	50.8	151	2.30	2.76	
68	25.40	326.4				7.85	1450	
69	25.49	337.5	7406	182	538	6.16	42.5	
70	25.61	360.9				9.07	1450	
71	25.89	347.8	1828	40.1	115	4.36	4.36	
72	26.12	336.8	1465	20.6	61.1	0.750	0.750	
73	26.39	360.9	3265	79.0	219	1.51	4.15	
74	26.53	347.8	3022	54.8	158	4.66	14.4	
75	26.68	360.9	3202	57.8	160	7.33	31.3	
76	26.78	360.9				8.55	1450	
77	27.24	360.9	477	14.8	40.9	4.46	18.1	J
78	27.27	395.3	1843	48.6	123	2.04	15.5	
79	27.48	360.9	271	12.1	33.5	1.45	1.59	
80	27.57	360.9	1035	13.1	36.2	0.983	2.76	
82	27.89	360.9	8357	182	503	6.86	28.7	
83	28.04	360.9	311	6.38	17.7	3.55	3.55	
84	28.25	360.9	62			0.391	0.391	
85	28.59	395.3	2283	90.4	229	5.25	11.7	
87	28.84	395.3	278	9.64	24.4	0.959	4.25	
88	29.05	395.3	5691	120	304	5.38	38.3	
89	29.16	360.9	613	9.27	25.7	1.95	2.13	
90	29.35	395.3	872	16.7	42.4	4.47	18.1	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.66	360.9	135	2.57	7.13	0.831	1.04	
92	29.97	394.3	98			1.54	4.99	
93	30.33	394.3	1288	19.9	50.4	7.56	34.0	J
94	30.60	394.3	2529	62.0	157	7.27	18.1	
95	30.90	382.2	941	22.1	57.8	5.43	8.37	
96	31.17	429.8	1044	3.25	7.55	0.242	0.703	
98	31.38	395.3	80			4.65	4.65	
99	31.72	429.8	384	9.80	22.8	3.18	4.15	
100	31.97	395.3	485	13.3	33.7	3.27	5.93	
101	32.28	429.8	98			6.40	6.40	
102	32.44	395.3	3088	37.9	95.8	9.48	64.5	J
103	32.70	395.3	511	12.3	31.1	4.25	4.47	
104	32.95	395.3	65			2.30	2.55	
105	33.36	429.8	336	7.50	17.5	1.44	4.57	
106	34.50	395.3	1531	18.1	45.7	3.35	13.6	
107	34.77	395.3	625	8.69	22.0	2.48	4.47	
108	35.68	429.8	138			2.58	2.58	
109	35.89	429.8	3263	101	234	14.2	44.7	
110	36.43	429.8	2647	70.4	164	10.8	45.7	
111	37.63	395.3	49			1.98	1.98	
112	39.15	429.8	666	7.04	16.4	2.86	5.87	
113	39.66	464.2	742	22.1	47.5	3.09	5.24	
114	40.64	464.2	0			1.37	1.98	
115	42.05	429.8	1839	22.1	51.4	6.28	19.1	
116	42.95	429.8				3.62	3.62	
117	48.13	464.2	2723	37.8	81.4	6.86	7.21	
118	54.16	498.6				1.37	1.37	
						9700	31500	

Concentration = ~~167,000~~ 159,855 ng/L

Total Nanomoles = 751

Average Molecular Weight = 222.4

Number of Calibrated Peaks Found = 101

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 257417.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07364.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02T-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 03:38:08

Total PCBs in sample = ~~41,100~~ 29,471 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.73	14.56
Di	46.43	48.70
Tri	32.12	29.24
Tetra	6.95	5.59
Penta	1.86	1.34
Hexa	0.51	0.33
Hepta	0.20	0.12
Octa	0.14	0.07
Nona	0.06	0.03
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	4578.6215	73.7	73.4
A1242	23+24/31+28	1536.3951	24.7	24.6
A1254SED	61/110	96.0298	1.5	
A1254BIO	***/###	119.4128		1.9
A1260	102/180		0.0	0.0
A1268	115/194	4.6934	0.1	0.1

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 0.75

TOTAL Cl / biphenyl Residue = 2.32

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07364.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02T-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 03:38:08
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	556	4,580	24,300	422	1590	
3	12.73	188.7				909	36200	
4	12.84	188.7	283	241	1,280	11.5	46.4	
5	13.44	223.1	4497	10,200	45,900	263	450	~~B~~ U
6	14.30	223.1	2680	72.3	324	3.24	7.93	~~B~~
7	14.62	223.1	1461	1,470	6,570	136	251	~~B~~
8	14.81	223.1	7714	6,980	31,300	383	1850	
9	15.36	223.1				30.6	906	
10	15.45	257.5	2443	1,520	5,890	47.8	73.9	~~B~~
11	15.93	257.5	70			8.95	906	
12	15.98	223.1	406	83.1	372	12.6	906	J
13	16.16	223.1	1280	49.6	222	2.24	3.53	
14	16.31	249.0	15574	784	3,150	3.54	24.5	~~B~~
15	16.39	257.5	2789	3,510	13,600	103	490	~~B~~
16	16.69	257.5	2813	1,090	4,250	55.2	55.2	~~B~~ U
17	16.98	257.5	4109	2,900	11,300	120	517	~~B~~
19	17.41	267.9	2676	93.3	348	7.68	906	J
20	17.58	257.5				0.688	0.703	
21	17.71	257.5	1767	928	3,600	48.8	95.6	
22	17.79	257.5	893	339	1,320	73.2	73.2	~~B~~ U
23	17.99	257.5	47479	1,260	4,890	5.22	27.3	~~B~~
24	18.03	257.5	11912	278	1,080	6.67	34.9	
25	18.43	259.5	13388	395	1,520	4.38	26.3	~~B~~
26	18.62	258.7	8678	263	1,020	7.14	19.2	
27	18.86	292.0	4382	108	369	3.80	5.91	~~B~~
28	18.99	257.5				6.56	906	
29	19.13	292.0	1225	35.4	121	4.24	4.24	
30	19.26	257.5	390	19.1	74.1	17.4	906	J
31	19.43	292.0	24763	939	3,210	6.52	31.6	
32	19.60	292.0	27076	515	1,760	1.84	15.2	
33	19.71	292.0	2062	459	1,570	48.6	133	
34	19.76	292.0	1971	33.4	114	2.04	6.63	
35	19.91	292.0	136			6.05	906	
36	19.99	257.5				7.25	906	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	1833	35.0	120	4.42	28.5	
38	20.30	272.4	4337	127	467	4.57	17.2	
39	20.65	292.0	12716	239	819	5.36	27.1	
41	20.81	326.4	1920	59.2	181	7.57	906	J
42	20.91	292.0	1626	33.7	115	3.59	6.23	
43	21.16	298.9	1352	32.0	107	8.01	906	J
44	21.38	298.9	859	13.2	44.1	0.841	1.46	
45	21.49	292.0	2083	33.3	114	4.17	4.17	
46	21.66	292.0	2267	25.4	86.9	1.73	12.6	
47	21.80	292.0	843			3.91	22.5	
48	21.97	293.5	10740	248	846	9.67	47.8	
49	22.21	324.7	4872	92.5	285	1.01	3.38	
50	22.52	292.0	445			3.13	23.2	
51	22.77	326.4	7964	307	942	7.57	11.9	
52	22.84	326.4	26			1.19	1.33	
53	23.00	326.4	3256	58.5	179	1.99	11.9	
54	23.21	326.4	1770	20.1	61.6	2.08	4.89	
55	23.49	326.4	690	5.08	15.6	0.543	0.543	
56	23.58	326.4	953	18.9	57.8	1.35	1.99	
57	23.80	326.4	410	4.98	15.2	1.54	3.70	
58	23.98	326.4	1948	30.1	92.4	2.89	7.68	
59	24.13	326.4	416	4.99	15.3	1.90	4.64	
60	24.25	360.9	1437	23.6	65.4	1.85	4.96	
61	24.38	315.8	5123	96.0	304	2.78	14.1	
62	24.66	360.9				13.5	906	
63	24.75	326.4	96			3.54	3.54	
64	25.05	360.9	2484	38.8	108	1.82	11.3	
65	25.18	350.5	1383	13.6	38.9	0.543	1.92	
66	25.25	360.9				2.14	3.99	
67	25.32	336.8	779	13.5	40.1	1.43	1.72	
68	25.42	326.4	13			4.89	906	
69	25.49	337.5	3879	53.3	158	3.84	26.5	
70	25.61	360.9				5.65	906	
71	25.88	347.8	795	10.7	30.9	2.72	2.72	
72	26.12	336.8	482	4.13	12.3	0.467	0.467	
73	26.39	360.9	1387	20.1	55.7	0.942	2.58	
74	26.53	347.8	1377	14.5	41.8	2.91	8.99	
75	26.67	360.9	1816	16.2	45.0	4.57	19.5	J
76	26.78	360.9				5.33	906	
77	27.23	360.9	129			2.78	11.3	
78	27.28	395.3	662	10.6	26.9	1.27	9.67	
79	27.50	360.9	160	4.26	11.8	0.902	0.993	
80	27.56	360.9	406	3.14	8.71	0.612	1.72	
82	27.89	360.9	4018	49.9	138	4.28	17.9	
83	28.07	360.9	153			2.21	2.21	
84	28.23	360.9	42			0.243	0.243	
85	28.59	395.3	736	17.8	45.0	3.27	7.28	
87	28.86	395.3	116	2.63	6.64	0.598	2.65	J
88	29.05	395.3	2060	20.8	52.7	3.36	23.8	J
89	29.16	360.9	278	2.53	7.02	1.21	1.33	
90	29.35	395.3	301			2.78	11.3	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.61	360.9	41	0.568	1.57	0.518	0.649	J
92	29.99	394.3	91			0.960	3.11	
93	30.34	394.3	614			4.71	21.2	
94	30.60	394.3	840	11.6	29.4	4.53	11.3	
95	30.90	382.2	388	5.57	14.6	3.38	5.22	
96	31.17	429.8	464	0.836	1.95	0.151	0.438	
98	31.32	395.3	30			2.89	2.89	
99	31.72	429.8	114	2.16	5.02	1.98	2.58	J
100	31.95	395.3	182	3.37	8.54	2.04	3.70	J
101	32.22	429.8	90			3.99	3.99	
102	32.43	395.3	1340			5.91	40.2	
103	32.68	395.3	189	2.72	6.87	2.65	2.78	J
104	33.03	395.3	43			1.43	1.59	
105	33.35	429.8	98	1.54	3.57	0.895	2.85	J
106	34.50	395.3	693	4.45	11.2	2.09	8.48	J
107	34.80	395.3	462	3.80	9.61	1.54	2.78	
108	35.73	429.8	68			1.61	1.61	
109	35.88	429.8	1665	28.6	66.6	8.84	27.8	
110	36.43	429.8	1166	15.1	35.2	6.70	28.5	J
111	37.60	395.3				1.23	1.23	
112	39.16	429.8	432	2.72	6.34	1.78	3.66	J
113	39.71	464.2	600	10.8	23.3	1.93	3.27	
114	40.62	464.2				0.855	1.23	
115	42.05	429.8	790	4.69	10.9	3.91	11.9	J
116	42.95	429.8				2.26	2.26	
117	48.15	464.2	1784	14.9	32.1	4.28	4.49	
118	54.16	498.6				0.855	0.855	
						1950	6470	

Concentration = ~~41,100~~ 29,471 ng/L

Total Nanomoles = 175

Average Molecular Weight = 234.3

Number of Calibrated Peaks Found = 99

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 263441.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07366.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02T-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 04:45:19

Total PCBs in sample = ~~137,000~~ 130,111 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	12.61	15.27
Di	60.62	62.07
Tri	19.29	17.13
Tetra	4.65	3.66
Penta	1.78	1.25
Hexa	0.56	0.36
Hepta	0.32	0.18
Octa	0.14	0.07
Nona	0.04	0.02
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	16447.5909	87.3	86.8
A1242	23+24/31+28	2060.0891	10.9	10.9
A1254SED	61/110	265.7536	1.4	
A1254BIO	***/###	391.0109		2.1
A1260	102/180	33.9360	0.2	0.2
A1268	115/194	22.3739	0.1	0.1

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.79

Meta + Para Cl / biphenyl Residue = 0.37

TOTAL Cl / biphenyl Residue = 2.16

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07366.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02T-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 04:45:19
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.71	188.7	420	16,400	87,200	2180	8200	
3	12.70	188.7				1410	56200	
4	12.84	188.7	549	819	4,340	17.9	71.9	
5	13.47	223.1	6781	74,800	335,000	1360	2330	~~B~~
6	14.30	223.1	4546	216	970	5.02	12.3	~~B~~
7	14.62	223.1	357	1,480	6,610	704	1300	~~B~~ u
8	14.81	223.1	1642	6,010	27,000	1980	9590	J
9	15.36	223.1				47.5	1400	
10	15.45	257.5	2759	8,320	32,300	247	382	~~B~~
11	15.91	257.5				13.9	1400	
12	15.99	223.1				19.5	1400	
13	16.16	223.1	1124	75.5	338	3.47	5.48	
14	16.31	249.0	19196	1,680	6,750	5.49	38.0	~~B~~
15	16.39	257.5	366	~~2,060~~	7,990	532	2530	~~JB~~ u
16	16.69	257.5	2650	5,000	19,400	285	285	~~B~~
17	16.98	257.5	955	2,760	10,700	618	2670	~~B~~ u
19	17.41	267.9	7707	466	1,740	11.9	1400	J
20	17.58	257.5				1.07	1.09	
21	17.72	257.5	788	1,920	7,460	252	494	
22	17.79	257.5	349	589	2,290	378	378	~~B~~ u
23	18.00	257.5	39272	1,800	7,000	8.09	42.3	~~B~~
24	18.04	257.5	6529	257	996	10.3	54.2	
25	18.43	259.5	26503	1,370	5,270	6.80	40.8	~~B~~
26	18.62	258.7	9662	510	1,970	11.1	29.8	
27	18.86	292.0	6386	275	943	5.90	9.16	~~B~~
28	19.00	257.5	382	30.2	117	10.2	1400	J
29	19.13	292.0	678	33.8	116	6.57	6.57	
30	19.26	257.5	959	81.4	316	27.0	1400	J
31	19.43	292.0	34232	2,260	7,740	10.1	49.0	
32	19.60	292.0	26021	858	2,940	2.85	23.6	
33	19.72	292.0	1006	945	3,240	251	685	
34	19.76	292.0	2330	69.9	239	3.16	10.3	
35	19.91	292.0	627	20.0	68.6	9.38	1400	J
36	19.99	257.5	218	18.0	70.0	11.2	1400	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	2154	76.4	262	6.85	44.2	
38	20.30	272.4	7162	369	1,350	7.08	26.7	
39	20.65	292.0	15073	497	1,700	8.31	42.1	
41	20.82	326.4	4369	234	716	11.7	1400	J
42	20.91	292.0	697	23.6	81.0	5.56	9.66	
43	21.16	298.9	2054	84.4	282	12.4	1400	J
44	21.37	298.9	1566	41.2	138	1.30	2.26	
45	21.50	292.0	2857	79.1	271	6.46	6.46	
46	21.65	292.0	4415	93.9	322	2.69	19.5	
47	21.80	292.0	1413	25.1	86.0	6.07	34.9	J
48	21.97	293.5	14627	601	2,050	15.0	74.2	
49	22.21	324.7	6978	230	709	1.56	5.24	
50	22.52	292.0	853	9.43	32.3	4.86	36.0	J
51	22.78	326.4	11639	782	2,400	11.7	18.5	
52	22.87	326.4	124	4.02	12.3	1.84	2.06	
53	23.00	326.4	5929	190	581	3.08	18.5	
54	23.21	326.4	3266	66.2	203	3.22	7.58	
55	23.47	326.4	64			56.2	56.2	
56	23.60	326.4	159	295	904	140	205	
57	23.80	326.4	763	17.1	52.5	2.39	5.73	
58	23.98	326.4	3717	103	316	4.49	11.9	
59	24.12	326.4	849	18.9	58.0	2.95	7.19	
60	24.25	360.9	2849	80.8	224	2.87	7.70	
61	24.38	315.8	8086	266	842	4.31	21.9	
62	24.65	360.9				21.0	1400	
63	24.75	326.4	233			5.49	5.49	
64	25.05	360.9	5708	161	446	2.82	17.5	
65	25.18	350.5	3292	56.8	162	0.843	2.98	
66	25.24	360.9	43			3.32	6.18	
67	25.33	336.8	1590	47.5	141	2.22	2.67	
68	25.40	326.4				7.58	1400	
69	25.49	337.5	6608	171	506	5.96	41.1	
70	25.61	360.9				8.76	1400	
71	25.88	347.8	1478	34.3	98.7	4.21	4.21	
72	26.12	336.8	1325	19.6	58.3	0.725	0.725	
73	26.39	360.9	2838	72.5	201	1.46	4.01	
74	26.52	347.8	2650	50.7	146	4.51	13.9	
75	26.68	360.9	2819	53.2	147	7.08	30.2	
76	26.78	360.9				8.26	1400	
77	27.22	360.9	269	8.47	23.5	4.31	17.5	J
78	27.27	395.3	1791	49.9	126	1.97	15.0	
79	27.49	360.9	268	12.6	35.0	1.40	1.54	
80	27.57	360.9	961	12.8	35.5	0.949	2.67	
82	27.89	360.9	7293	167	463	6.63	27.7	
83	28.02	360.9	240	5.25	14.5	3.43	3.43	
84	28.25	360.9	139	0.727	2.01	0.378	0.378	
85	28.60	395.3	2137	89.4	226	5.07	11.3	
87	28.89	395.3	158	5.97	15.1	0.927	4.11	
88	29.05	395.3	5045	112	284	5.20	37.0	
89	29.15	360.9	591	9.44	26.2	1.88	2.06	
90	29.35	395.3	933	19.4	49.2	4.31	17.5	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.64	360.9	177	3.46	9.60	0.803	1.01	
92	29.95	394.3	115			1.49	4.83	
93	30.33	394.3	1051	16.0	40.6	7.30	32.9	J
94	30.60	394.3	2087	53.8	136	7.02	17.5	
95	30.90	382.2	701	17.4	45.5	5.25	8.09	
96	31.16	429.8	805	2.63	6.11	0.234	0.680	
98	31.32	395.3	16			4.49	4.49	
99	31.72	429.8	367	9.86	22.9	3.07	4.01	
100	31.96	395.3	529	15.2	38.4	3.16	5.73	
101	32.25	429.8	133			6.18	6.18	
102	32.45	395.3	2707	33.9	85.8	9.16	62.4	J
103	32.70	395.3	280	7.05	17.8	4.11	4.31	
104	32.97	395.3	32			2.22	2.46	
105	33.36	429.8	240	5.76	13.4	1.39	4.42	
106	34.50	395.3	1237	15.2	38.5	3.24	13.1	
107	34.78	395.3	457	6.59	16.7	2.39	4.31	
108	35.58	429.8	111			2.49	2.49	
109	35.89	429.8	2587	83.3	194	13.7	43.1	
110	36.44	429.8	2188	60.5	141	10.4	44.2	
111	37.59	395.3	5			1.91	1.91	
112	39.13	429.8	557	6.20	14.4	2.76	5.67	
113	39.69	464.2	736	23.1	49.8	2.99	5.07	
114	40.62	464.2				1.33	1.91	
115	42.07	429.8	1755	22.4	52.1	6.07	18.5	
116	42.95	429.8				3.50	3.50	
117	48.11	464.2	1962	28.6	61.7	6.63	6.97	
118	54.16	498.6				1.33	1.33	
						9370	30500	

Concentration = ~~137,000~~ 130,111 ng/L

Total Nanomoles = 599

Average Molecular Weight = 228.5

Number of Calibrated Peaks Found = 100

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 235529.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07368.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03T-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 05:52:32

Total PCBs in sample = ~~45,900~~ 34,018 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	7.54	9.50
Di	46.94	49.99
Tri	34.49	31.88
Tetra	7.80	6.37
Penta	2.19	1.60
Hexa	0.60	0.40
Hepta	0.22	0.14
Octa	0.15	0.09
Nona	0.06	0.03
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	3313.4824	61.3	60.8
A1242	23+24/31+28	1969.9690	36.4	36.2
A1254SED	61/110	118.5509	2.2	
A1254BIO	***/###	157.7298		2.9
A1260	102/180	0.4916	0.0	0.0
A1268	115/194	5.5944	0.1	0.1

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.62

Meta + Para Cl / biphenyl Residue = 0.81

TOTAL Cl / biphenyl Residue = 2.43

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07368.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03T-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 05:52:32
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.71	188.7	6014	3,310	17,600	21.8	82.0	
3	12.70	188.7				940	37500	
4	12.84	188.7	149	146	771	11.9	47.9	
5	13.44	223.1	4613	11,500	51,400	272	465	~~B~~ U
6	14.30	223.1	2087	65.2	292	3.35	8.20	~~B~~
7	14.62	223.1	1578	1,740	7,800	141	260	~~B~~
8	14.81	223.1	7949	7,880	35,300	395	1920	
9	15.36	223.1				31.6	936	
10	15.44	257.5	2543	1,730	6,700	49.4	76.4	~~B~~
11	15.92	257.5	77			9.25	936	
12	15.98	223.1	431	103	460	13.0	936	J
13	16.16	223.1	1190	53.6	240	2.31	3.65	
14	16.31	249.0	16272	955	3,830	3.66	25.3	~~B~~
15	16.39	257.5	2988	4,110	16,000	106	506	~~B~~
16	16.69	257.5	3129	1,330	5,160	57.1	57.1	~~B~~
17	16.98	257.5	4579	3,550	13,800	124	534	~~B~~
19	17.41	267.9	2949	120	447	7.94	936	J
20	17.58	257.5	125	3.02	11.7	0.712	0.727	
21	17.71	257.5	1822	1,050	4,070	50.5	98.9	
22	17.80	257.5	917	382	1,480	75.6	75.6	~~B~~ U
23	18.00	257.5	3519	1,650	6,420	108	564	~~B~~
24	18.04	257.5	11590	316	1,230	6.89	36.1	
25	18.43	259.5	14402	496	1,910	4.53	27.2	~~B~~
26	18.62	258.7	9502	336	1,300	7.38	19.9	
27	18.86	292.0	4861	140	479	3.93	6.10	~~B~~
28	19.00	257.5	117			6.78	936	
29	19.13	292.0	1320	44.5	152	4.38	4.38	
30	19.26	257.5	337	19.2	74.5	18.0	936	J
31	19.43	292.0	26930	1,190	4,080	6.74	32.7	
32	19.60	292.0	29276	649	2,220	1.90	15.7	
33	19.71	292.0	2109	517	1,770	50.3	137	
34	19.77	292.0	1918	38.1	131	2.10	6.85	
35	19.93	292.0	282			6.25	936	
36	19.98	257.5	81			7.49	936	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	2046	48.2	165	4.57	29.4	
38	20.30	272.4	4812	165	606	4.72	17.8	
39	20.65	292.0	13656	301	1,030	5.54	28.1	
41	20.81	326.4	2059	73.9	226	7.83	936	J
42	20.91	292.0	1854	45.2	155	3.71	6.44	
43	21.16	298.9	1494	41.2	138	8.28	936	J
44	21.38	298.9	923	16.4	54.9	0.869	1.51	
45	21.49	292.0	2238	41.6	143	4.31	4.31	
46	21.66	292.0	2528	34.1	117	1.79	13.0	
47	21.80	292.0	991	8.65	29.6	4.05	23.3	J
48	21.97	293.5	11966	327	1,110	10.0	49.4	
49	22.21	324.7	5417	120	369	1.04	3.49	
50	22.52	292.0	542			3.24	24.0	
51	22.77	326.4	9075	408	1,250	7.83	12.3	
52	22.85	326.4	70	1.52	4.64	1.23	1.37	
53	23.00	326.4	3831	81.1	249	2.05	12.3	
54	23.21	326.4	1858	24.8	75.8	2.15	5.06	
55	23.49	326.4	765	6.54	20.1	0.562	0.562	
56	23.58	326.4	1120	25.7	78.8	1.40	2.05	
57	23.80	326.4	437	6.30	19.3	1.60	3.82	
58	23.97	326.4	2048	37.2	114	2.99	7.94	
59	24.13	326.4	472	6.77	20.7	1.97	4.79	
60	24.25	360.9	1681	32.1	88.9	1.91	5.13	
61	24.38	315.8	5413	119	375	2.88	14.6	
62	24.62	360.9				14.0	936	
63	24.76	326.4	120			3.66	3.66	
64	25.05	360.9	2834	52.3	145	1.88	11.6	
65	25.18	350.5	1648	19.0	54.1	0.562	1.99	
66	25.26	360.9	43			2.21	4.12	
67	25.32	336.8	1075	21.6	64.1	1.48	1.78	
68	25.40	326.4				5.06	936	
69	25.50	337.5	4468	74.4	220	3.97	27.4	
70	25.61	360.9				5.84	936	
71	25.88	347.8	860	13.5	38.7	2.81	2.81	
72	26.11	336.8	670	6.68	19.8	0.483	0.483	
73	26.39	360.9	1367	23.1	64.1	0.974	2.67	
74	26.52	347.8	1410	17.5	50.4	3.00	9.29	
75	26.67	360.9	1863	20.7	57.4	4.72	20.2	
76	26.78	360.9				5.51	936	
77	27.22	360.9	182	3.66	10.1	2.87	11.6	J
78	27.27	395.3	713	13.3	33.7	1.31	10.0	
79	27.50	360.9	167	5.22	14.5	0.933	1.03	
80	27.57	360.9	316	2.85	7.90	0.633	1.78	
82	27.88	360.9	4252	62.7	174	4.42	18.5	
83	28.04	360.9	72			2.29	2.29	
84	28.27	360.9	67	0.258	0.716	0.252	0.252	
85	28.59	395.3	875	24.6	62.2	3.38	7.53	
87	28.90	395.3	40	1.23	3.11	0.618	2.74	J
88	29.05	395.3	2403	31.1	78.7	3.47	24.6	
89	29.16	360.9	298	3.17	8.79	1.25	1.37	
90	29.35	395.3	324	3.18	8.05	2.88	11.6	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.61	360.9	107	1.45	4.03	0.536	0.670	
92	29.98	394.3	142	0.993	2.52	0.993	3.22	J
93	30.34	394.3	675			4.87	21.9	
94	30.61	394.3	889	14.5	36.9	4.68	11.6	
95	30.90	382.2	479	7.99	20.9	3.50	5.39	
96	31.14	429.8	427	0.897	2.09	0.156	0.453	
98	31.30	395.3	57			2.99	2.99	
99	31.74	429.8	166	3.29	7.66	2.05	2.67	
100	31.97	395.3	170	3.63	9.19	2.11	3.82	J
101	32.25	429.8	100			4.12	4.12	
102	32.44	395.3	1226			6.10	41.6	
103	32.71	395.3	132			2.74	2.88	
104	32.97	395.3	25			1.48	1.64	
105	33.35	429.8	103	1.83	4.25	0.925	2.94	J
106	34.49	395.3	505	3.59	9.09	2.16	8.76	J
107	34.75	395.3	210	1.82	4.61	1.60	2.88	J
108	35.68	429.8				1.66	1.66	
109	35.89	429.8	1851	38.4	89.4	9.14	28.8	
110	36.44	429.8	1284	21.0	48.9	6.93	29.4	J
111	37.62	395.3	59			1.27	1.27	
112	39.15	429.8	174			1.84	3.78	
113	39.68	464.2	390	8.16	17.6	1.99	3.38	
114	40.63	464.2				0.884	1.27	
115	42.05	429.8	779	5.59	13.0	4.05	12.3	J
116	42.95	429.8				2.33	2.33	
117	48.13	464.2	1882	18.4	39.6	4.42	4.64	
118	54.16	498.6				0.884	0.884	
						1710	5670	

Concentration = ~~45,900~~ 34,018 ng/L

Total Nanomoles = 193

Average Molecular Weight = 237.9

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 234009.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07370.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03T-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 06:59:49

Total PCBs in sample = ~~163,000~~ 101,060 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	17.75	21.17
Di	58.49	58.96
Tri	17.79	15.55
Tetra	3.51	2.72
Penta	1.48	1.02
Hexa	0.52	0.33
Hepta	0.30	0.17
Octa	0.13	0.07
Nona	0.03	0.02
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	27915.6321	91.2	90.8
A1242	23+24/31+28	2318.7643	7.6	7.5
A1254SED	61/110	296.8849	1.0	
A1254BIO	***/###	440.3724		1.4
A1260	102/180	39.5795	0.1	0.1
A1268	115/194	22.2957	0.1	0.1

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.73

Meta + Para Cl / biphenyl Residue = 0.32

TOTAL Cl / biphenyl Residue = 2.06

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07370.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03T-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 06:59:49
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	427	27,900	148,000	3230	12200	
3	12.73	188.7				1390	55600	
4	12.84	188.7	701	986	5,230	17.7	71.1	
5	13.47	223.1	4636	84,800	380,000	2020	3450	~~B~~ U
6	14.30	223.1	5956	268	1,200	4.97	12.2	~~B~~
7	14.62	223.1	303	2,040	9,160	1040	1930	~~B~~ U
8	14.81	223.1	1257	7,300	32,700	2930	14200	J
9	15.36	223.1				46.9	1390	
10	15.45	257.5	1859	9,270	36,000	367	567	~~B~~ U
11	15.92	257.5	80			13.7	1390	
12	15.98	223.1	739	247	1,110	19.3	1390	J
13	16.16	223.1	1485	94.1	422	3.43	5.42	
14	16.31	249.0	22849	1,890	7,580	5.43	37.6	~~B~~
15	16.39	257.5	251	~~2,270~~	8,800	789	3760	~~JB~~ U
16	16.69	257.5	1875	5,870	22,800	423	423	~~B~~
17	16.98	257.5	663	~~2,960~~	11,500	917	3960	~~JB~~ U
19	17.41	267.9	9209	525	1,960	11.8	1390	J
20	17.56	257.5	114	3.91	15.2	1.06	1.08	
21	17.72	257.5	529	2,080	8,090	374	733	
22	17.79	257.5	191			561	561	~~B~~
23	17.99	257.5	46598	2,020	7,840	8.00	41.8	~~B~~
24	18.04	257.5	8010	300	1,170	10.2	53.6	
25	18.43	259.5	30889	1,500	5,800	6.72	40.3	~~B~~
26	18.62	258.7	11660	581	2,250	10.9	29.4	
27	18.86	292.0	7563	308	1,050	5.83	9.06	~~B~~
28	19.00	257.5	562	41.9	163	10.1	1390	J
29	19.13	292.0	912	43.0	147	6.50	6.50	
30	19.26	257.5	1268	101	394	26.7	1390	J
31	19.43	292.0	508	1,280	4,390	1000	4840	J
32	19.60	292.0	30545	951	3,260	2.82	23.3	
33	19.72	292.0	626	856	2,930	373	1020	J
34	19.76	292.0	2945	84.1	288	3.12	10.2	
35	19.91	292.0	846	25.5	87.2	9.28	1390	J
36	19.99	257.5	348	27.1	105	11.1	1390	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	2596	89.2	305	6.78	43.7	
38	20.30	272.4	8964	436	1,600	7.00	26.4	
39	20.65	292.0	18135	566	1,940	8.22	41.6	
41	20.81	326.4	5228	264	808	11.6	1390	J
42	20.91	292.0	917	30.0	103	5.50	9.56	
43	21.16	298.9	2327	90.1	302	12.3	1390	J
44	21.37	298.9	1949	48.2	161	1.29	2.23	
45	21.49	292.0	3455	90.2	309	6.39	6.39	
46	21.66	292.0	5306	107	368	2.66	19.3	
47	21.79	292.0	1689	30.5	104	6.00	34.5	J
48	21.97	293.5	17256	672	2,290	14.8	73.3	
49	22.21	324.7	8067	251	772	1.54	5.18	
50	22.52	292.0	1020	12.7	43.5	4.81	35.6	J
51	22.78	326.4	13932	883	2,700	11.6	18.3	
52	22.85	326.4	194	5.92	18.1	1.82	2.03	
53	23.00	326.4	7143	216	662	3.04	18.3	
54	23.21	326.4	4105	78.8	241	3.18	7.50	
55	23.50	326.4	12			83.3	83.3	
56	23.61	326.4	20			207	304	
57	23.80	326.4	882	18.8	57.5	2.37	5.67	
58	23.98	326.4	4479	118	360	4.44	11.8	
59	24.12	326.4	985	20.8	63.6	2.92	7.11	
60	24.25	360.9	3411	91.2	253	2.84	7.61	
61	24.38	315.8	9571	297	940	4.27	21.6	
62	24.66	360.9				20.7	1390	
63	24.75	326.4	261			5.43	5.43	
64	25.05	360.9	6806	182	503	2.79	17.3	
65	25.18	350.5	3925	63.8	182	0.833	2.94	
66	25.24	360.9	44			3.28	6.11	
67	25.32	336.8	1830	51.5	153	2.20	2.64	
68	25.40	326.4				7.50	1390	
69	25.49	337.5	7840	193	572	5.89	40.6	
70	25.61	360.9				8.67	1390	
71	25.89	347.8	1926	42.1	121	4.17	4.17	
72	26.11	336.8	1478	20.6	61.3	0.717	0.717	
73	26.39	360.9	3401	82.0	227	1.44	3.96	
74	26.53	347.8	3182	57.7	166	4.46	13.8	
75	26.67	360.9	3225	58.5	162	7.00	29.9	
76	26.78	360.9				8.17	1390	
77	27.21	360.9	208	5.93	16.4	4.26	17.3	J
78	27.27	395.3	2084	54.7	138	1.95	14.8	
79	27.48	360.9	236	10.5	29.0	1.38	1.52	
80	27.57	360.9	1037	13.0	36.1	0.939	2.64	
82	27.88	360.9	8697	189	524	6.56	27.4	
83	28.03	360.9	208	4.33	12.0	3.39	3.39	
84	28.24	360.9	70	0.383	1.06	0.373	0.373	
85	28.60	395.3	2414	95.2	241	5.02	11.2	
87	28.87	395.3	121	4.43	11.2	0.917	4.06	
88	29.05	395.3	5961	126	320	5.14	36.6	
89	29.16	360.9	498	7.49	20.7	1.86	2.03	
90	29.36	395.3	830	15.8	40.0	4.27	17.3	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.64	360.9	213	3.90	10.8	0.794	0.994	
92	29.96	394.3	162	1.66	4.21	1.47	4.77	J
93	30.33	394.3	1514	25.5	64.7	7.22	32.5	J
94	30.60	394.3	2646	64.7	164	6.94	17.3	
95	30.91	382.2	785	18.4	48.0	5.19	8.00	
96	31.17	429.8	940	2.90	6.75	0.232	0.672	
98	31.32	395.3	49			4.44	4.44	
99	31.70	429.8	397	10.0	23.3	3.04	3.96	
100	31.97	395.3	586	15.8	39.9	3.13	5.67	
101	32.26	429.8	182			6.11	6.11	
102	32.44	395.3	3125	39.6	100	9.06	61.7	J
103	32.67	395.3	415	9.91	25.1	4.06	4.27	
104	33.02	395.3	49			2.19	2.43	
105	33.35	429.8	400	8.78	20.4	1.37	4.37	
106	34.49	395.3	1292	15.0	37.9	3.20	13.0	
107	34.78	395.3	531	7.27	18.4	2.37	4.27	
108	35.68	429.8	130			2.46	2.46	
109	35.89	429.8	3029	92.8	216	13.6	42.7	
110	36.44	429.8	2527	66.8	155	10.3	43.7	
111	37.60	395.3	76			1.89	1.89	
112	39.17	429.8	600	6.30	14.7	2.73	5.61	
113	39.70	464.2	845	25.0	54.0	2.96	5.01	
114	40.62	464.2				1.31	1.89	
115	42.06	429.8	1854	22.3	51.9	6.00	18.3	
116	42.95	429.8				3.46	3.46	
117	48.12	464.2	2301	31.7	68.3	6.56	6.89	
118	54.16	498.6				1.31	1.31	
						14700	49300	

Concentration = ~~163,000~~ ng/L
101,000

Total Nanomoles = 724

Average Molecular Weight = 225.0

Number of Calibrated Peaks Found = 103

Internal Standard Retention Time = 46.57 Minutes

Internal Standard Peak Area = 247160.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07349.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01D-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 20:26:27

Total PCBs in sample = ~~2,320~~ 63.4 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	2.69	3.62
Di	27.52	31.09
Tri	44.46	43.86
Tetra	20.34	17.76
Penta	2.85	2.22
Hexa	1.18	0.84
Hepta	0.73	0.47
Octa	0.22	0.13
Nona	0.01	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	58.3034	20.1	19.4
A1242	23+24/31+28	217.1100	74.7	72.3
A1254SED	61/110	10.3149	3.5	
A1254BIO	***/###	20.0185		6.7
A1260	102/180	4.3083	1.5	1.4
A1268	115/194	0.5952	0.2	0.2

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.66

Meta + Para Cl / biphenyl Residue = 1.23

TOTAL Cl / biphenyl Residue = 2.89

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07349.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01D-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 20:26:27
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	1618	58.3	309	1.46	5.48	~~B~~
3	12.70	188.7				62.8	2500	
4	12.84	188.7	69	4.29	22.7	0.795	3.20	~~B~~ U
5	13.45	223.1	2677	454	2,030	18.2	31.1	~~B~~ U
6	14.30	223.1	4219	8.88	39.8	0.224	0.548	~~B~~ U
7	14.62	223.1	6042	26.5	119	0.470	0.868	~~B~~ U
8	14.81	223.1	26485	104	468	1.32	6.40	~~B~~ U
9	15.33	223.1				2.11	62.5	
10	15.45	257.5	1874	86.5	336	3.30	5.10	~~B~~ U
11	15.91	257.5	122			0.618	62.5	
12	15.99	223.1	317	4.98	22.3	0.868	62.5	J
13	16.16	223.1	450	1.33	5.94	0.154	0.244	~~B~~ U
14	16.31	249.0	2523	160	642	4.89	33.8	~~B~~ U
15	16.39	257.5	1817	169	657	7.10	33.8	~~B~~ U
16	16.69	257.5	1042	30.2	117	3.81	3.81	~~B~~ U
17	16.98	257.5	2836	147	570	8.25	35.7	~~B~~ U
19	17.41	267.9	1686	~~4.52~~	16.9	0.530	62.5	~~JB~~ U
20	17.54	257.5	91	2.62	10.2	0.950	0.970	~~B~~ U
21	17.71	257.5	812	30.8	119	3.37	6.60	~~B~~ U
22	17.79	257.5	576	15.9	61.9	5.05	5.05	~~B~~ U
23	18.00	257.5	3438	110	428	7.20	37.7	~~B~~ U
24	18.04	257.5	57379	107	416	0.460	2.41	~~B~~ U
25	18.40	259.5	3123	118	454	6.05	36.3	~~B~~ U
26	18.63	258.7	1902	71.7	277	9.85	26.5	~~B~~ U
27	18.85	292.0	1113	34.2	117	5.25	8.15	~~B~~ U
28	18.99	257.5				0.453	62.5	
29	19.13	292.0	4067	9.10	31.2	0.293	0.293	~~B~~ U
30	19.25	257.5				1.20	62.5	
31	19.43	292.0	29729	86.8	297	0.450	2.18	~~B~~ U
32	19.60	292.0	25108	36.7	126	0.127	1.05	~~B~~ U
33	19.71	292.0	11320	11.6	39.9	0.168	0.458	~~B~~ U
34	19.78	292.0	12472	17.4	59.6	0.141	0.458	~~B~~ U
35	19.92	292.0	440	~~0.623~~	2.13	0.418	62.5	~~JB~~ U
36	19.99	257.5	400	~~1.47~~	5.69	0.500	62.5	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	30600	57.7	198	0.305	1.97	~~B~~ U
38	20.30	272.4	21820	50.2	184	0.315	1.19	~~B~~ U
39	20.65	292.0	37095	55.4	190	0.370	1.87	~~B~~ U
41	20.81	326.4	576	~~1.36~~	4.18	0.523	62.5	~~JB~~ U
42	20.91	292.0	7763	12.9	44.1	0.248	0.430	~~B~~ U
43	21.16	298.9	490	~~0.893~~	2.99	0.553	62.5	~~JB~~ U
44	21.34	298.9	1385	1.62	5.40	0.0580	0.101	~~B~~ U
45	21.49	292.0	1842	2.27	7.76	0.288	0.288	~~B~~ U
46	21.66	292.0	12736	12.6	43.1	0.120	0.868	~~B~~ U
47	21.80	292.0	22627	28.5	97.6	0.270	1.55	~~B~~ U
48	21.91	293.5	28255	52.7	179	0.668	3.30	~~B~~ U
49	22.21	324.7	2693	3.92	12.1	0.0695	0.233	~~B~~ U
50	22.52	292.0	17299	21.3	72.9	0.216	1.60	~~B~~ U
51	22.75	326.4	4852	14.3	43.9	0.523	0.823	~~B~~ U
52	22.86	326.4	285	0.409	1.25	0.0820	0.0915	~~B~~ U
53	23.02	326.4	6707	9.53	29.2	0.137	0.823	~~B~~ U
54	23.22	326.4	3842	3.46	10.6	0.143	0.338	~~B~~ U
55	23.49	326.4	168	0.0970	0.297	0.0375	0.0375	~~B~~ U
56	23.59	326.4	1018	1.55	4.74	0.0933	0.137	~~B~~ U
57	23.80	326.4	2414	2.50	7.65	0.107	0.255	~~B~~ U
58	23.97	326.4	4743	5.87	18.0	0.200	0.530	~~B~~ U
59	24.13	326.4	1921	1.95	5.97	0.131	0.320	~~B~~ U
60	24.25	360.9	1159	1.46	4.06	0.128	0.343	~~B~~ U
61	24.38	315.8	7098	10.3	32.7	0.192	0.973	~~B~~ U
62	24.62	360.9				0.933	62.5	
63	24.74	326.4	1362	1.23	3.77	0.245	0.245	~~B~~ U
64	25.05	360.9	2007	2.39	6.63	0.126	0.778	~~B~~ U
65	25.18	350.5	807	0.607	1.73	0.0375	0.133	~~B~~ U
66	25.25	360.9	479	0.915	2.53	0.148	0.275	~~B~~ U
67	25.31	336.8	383	0.516	1.53	0.0990	0.119	~~B~~ U
68	25.40	326.4	61			0.338	62.5	
69	25.50	337.5	7257	8.37	24.8	0.265	1.83	~~B~~ U
70	25.61	360.9				0.390	62.5	
71	25.91	347.8	959	0.991	2.85	0.188	0.188	~~B~~ U
72	26.12	336.8	57	0.0383	0.114	0.0323	0.0323	~~B~~ U
73	26.40	360.9	670	0.727	2.01	0.0650	0.178	~~B~~ U
74	26.51	347.8	4114	3.53	10.2	0.201	0.620	~~B~~ U
75	26.68	360.9	7009	6.71	18.6	0.315	1.35	~~B~~ U
76	26.78	360.9				0.368	62.5	
77	27.20	360.9	1523	2.30	6.39	0.192	0.778	~~B~~ U
78	27.27	395.3	590	0.730	1.85	0.0878	0.668	~~B~~ U
79	27.52	360.9	120	0.245	0.678	0.0623	0.0685	~~B~~ U
80	27.65	360.9	669	0.396	1.10	0.0423	0.119	~~B~~ U
82	27.86	360.9	5000	4.94	13.7	0.295	1.23	~~B~~ U
83	28.05	360.9	592	0.553	1.53	0.153	0.153	~~B~~ U
84	28.25	360.9	119	0.0281	0.0779	0.0168	0.0168	~~B~~ U
85	28.58	395.3	500	0.930	2.35	0.226	0.503	~~B~~ U
87	28.90	395.3	141	0.239	0.603	0.0413	0.183	~~B~~ U
88	29.04	395.3	3027	2.74	6.93	0.232	1.65	~~B~~ U
89	29.17	360.9	527	0.373	1.03	0.0838	0.0915	~~B~~ U
90	29.35	395.3	1373	1.33	3.37	0.192	0.778	~~B~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.63	360.9	77	0.0717	0.199	0.0358	0.0448	~~B~~ U
92	29.96	394.3	501	0.323	0.819	0.0663	0.215	~~B~~ U
93	30.33	394.3	2638	2.46	6.24	0.325	1.46	~~B~~ U
94	30.61	394.3	1243	1.38	3.50	0.313	0.778	~~B~~ U
95	30.89	382.2	721	0.793	2.07	0.234	0.360	~~B~~ U
96	31.16	429.8	280	0.0370	0.0861	0.0104	0.0303	~~B~~ U
98	31.28	395.3	59			0.200	0.200	
99	31.73	429.8	93	0.139	0.322	0.137	0.178	J
100	31.96	395.3				0.141	0.255	
101	32.25	429.8	109			0.275	0.275	~~B~~
102	32.44	395.3	5521	4.31	10.9	0.408	2.78	~~B~~ U
103	32.69	395.3	244	0.272	0.688	0.183	0.192	~~B~~ U
104	32.99	395.3	116	0.147	0.371	0.0988	0.110	~~B~~ U
105	33.31	429.8	306	0.320	0.743	0.0618	0.197	~~B~~ U
106	34.50	395.3	2045	1.16	2.93	0.144	0.585	~~B~~ U
107	34.78	395.3	779	0.516	1.31	0.107	0.192	~~B~~ U
108	35.68	429.8	154			0.111	0.111	~~B~~
109	35.89	429.8	1343	~~1.74~~	4.04	0.610	1.92	~~JB~~ U
110	36.43	429.8	1862	2.21	5.14	0.463	1.97	~~B~~ U
111	37.60	395.3				0.0850	0.0850	
112	39.15	429.8	380	~~0.184~~	0.429	0.123	0.253	~~JB~~ U
113	39.71	464.2	135	~~0.181~~	0.390	0.133	0.226	~~JB~~ U
114	40.63	464.2				0.0590	0.0850	
115	42.06	429.8	1135	~~0.595~~	1.38	0.270	0.823	~~JB~~ U
116	42.95	429.8	115			0.156	0.156	
117	48.09	464.2	187			0.295	0.310	
118	54.16	498.6				0.0590	0.0590	
						102	332	

Concentration = 2,320 ng/L

Total Nanomoles = 9.16

Average Molecular Weight = 253.7

Number of Calibrated Peaks Found = 101

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 236549.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07351.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01D-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 21:33:40

Total PCBs in sample = ~~23,200~~ ~~21,365~~ 96 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	5.84	7.00
Di	79.76	80.80
Tri	10.76	9.43
Tetra	3.07	2.38
Penta	0.45	0.32
Hexa	0.10	0.06
Hepta	0.02	0.01
Octa	0.01	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	1339.8339	86.2	86.2
A1242	23+24/31+28	202.5280	13.0	13.0
A1254SED	61/110	11.3860	0.7	
A1254BIO	***/###	12.1260		0.8
A1260	102/180		0.0	0.0
A1268	115/194	0.0865	0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.94

Meta + Para Cl / biphenyl Residue = 0.14

TOTAL Cl / biphenyl Residue = 2.08

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07351.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01D-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 21:33:40
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	127	~~1,340~~	7,100	582	2190	~~JB~~ U
3	12.70	188.7				126	5000	
4	12.84	188.7	105	14.0	73.9	1.59	6.40	~~B~~ U
5	13.47	223.1	5394	18,400	82,400	363	621	~~B~~ U
6	14.30	223.1	7961	35.4	159	0.447	1.10	~~B~~ U
7	14.63	223.1	103			188	347	~~B~~
8	14.80	223.1	508			528	2560	~~B~~
9	15.36	223.1				4.23	125	
10	15.45	257.5	1170	1,080	4,210	66.0	102	~~B~~ U
11	15.92	257.5	537	1.95	7.59	1.24	125	J
12	15.97	223.1	1585	52.1	233	1.74	125	J
13	16.16	223.1	741	4.59	20.6	0.309	0.488	~~B~~ U
14	16.30	249.0	249			97.8	676	~~B~~
15	16.40	257.5	187	~~303~~	1,180	142	676	~~JB~~ U
16	16.69	257.5	770	449	1,740	76.2	76.2	~~B~~ U
17	16.97	257.5	322	~~182~~	707	165	713	~~JB~~ U
19	17.41	267.9	6892	38.6	144	1.06	125	~~JB~~
20	17.57	257.5	16			19.0	19.4	~~B~~
21	17.71	257.5	288	194	753	67.4	132	~~B~~ U
22	17.79	257.5	134			101	101	~~B~~
23	18.00	257.5	501			144	753	~~B~~
24	18.04	257.5	31968	124	481	0.920	4.82	~~B~~ U
25	18.43	259.5	335			121	726	~~B~~
26	18.63	258.7	18476	91.0	352	0.985	2.65	~~B~~ U
27	18.85	292.0	9714	39.0	134	0.525	0.815	~~B~~ U
28	18.99	257.5				0.905	125	
29	19.13	292.0	1951	9.10	31.2	0.585	0.585	~~B~~ U
30	19.26	257.5	321	2.53	9.81	2.41	125	J
31	19.43	292.0	32785	200	686	0.900	4.36	~~B~~ U
32	19.60	292.0	27753	84.9	291	0.254	2.10	~~B~~ U
33	19.71	292.0	16907	36.5	125	0.336	0.915	~~B~~ U
34	19.77	292.0	6157	17.8	60.9	0.281	0.915	~~B~~ U
35	19.90	292.0	776	~~2.30~~	7.86	0.835	125	~~JB~~ U
36	19.99	257.5	338	~~2.59~~	10.0	1.00	125	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	13760	53.4	183	0.610	3.93	~~B~~ U
38	20.30	272.4	13123	63.0	231	0.630	2.38	~~B~~ U
39	20.65	292.0	20941	64.7	221	0.740	3.75	~~B~~ U
41	20.81	326.4	1695	~~8.40~~	25.7	1.05	125	~~JB~~ U
42	20.91	292.0	3248	11.1	38.1	0.495	0.860	~~B~~ U
43	21.16	298.9	1976	~~7.52~~	25.2	1.11	125	~~JB~~ U
44	21.34	298.9	1198	2.92	9.78	0.116	0.201	~~B~~ U
45	21.49	292.0	3506	8.99	30.8	0.575	0.575	~~B~~ U
46	21.66	292.0	6218	12.5	42.9	0.239	1.74	~~B~~ U
47	21.79	292.0	13148	34.1	117	0.540	3.11	~~B~~ U
48	21.97	293.5	18083	69.6	237	1.34	6.60	~~B~~ U
49	22.21	324.7	3400	10.4	31.9	0.139	0.466	~~B~~ U
50	22.52	292.0	7038	17.3	59.4	0.433	3.20	~~B~~ U
51	22.77	326.4	5776	35.7	110	1.05	1.65	~~B~~ U
52	22.88	326.4				0.164	0.183	~~B~~
53	23.01	326.4	3666	10.7	32.8	0.274	1.65	~~B~~ U
54	23.21	326.4	1743	3.20	9.80	0.287	0.675	~~B~~ U
55	23.49	326.4	255	0.306	0.936	0.0750	0.0750	~~B~~ U
56	23.58	326.4	1246	3.95	12.1	0.187	0.274	~~B~~ U
57	23.80	326.4	904	1.90	5.82	0.213	0.510	~~B~~ U
58	23.97	326.4	2654	6.75	20.7	0.400	1.06	~~B~~ U
59	24.12	326.4	815	1.68	5.15	0.263	0.640	~~B~~ U
60	24.25	360.9	1038	2.74	7.60	0.256	0.685	~~B~~ U
61	24.38	315.8	3797	11.4	36.1	0.384	1.95	~~B~~ U
62	24.62	360.9				1.87	125	
63	24.75	326.4	321	0.509	1.56	0.489	0.489	~~B~~ U
64	25.05	360.9	1616	3.97	11.0	0.251	1.56	~~B~~ U
65	25.18	350.5	679	1.06	3.04	0.0750	0.265	~~B~~ U
66	25.24	360.9	59	~~0.348~~	0.966	0.296	0.550	~~JB~~ U
67	25.31	336.8	287	0.811	2.41	0.198	0.238	~~B~~ U
68	25.43	326.4	33			0.675	125	
69	25.50	337.5	2758	5.86	17.4	0.530	3.66	~~B~~ U
70	25.61	360.9				0.780	125	
71	25.89	347.8	457	0.999	2.87	0.375	0.375	~~B~~ U
72	26.11	336.8	359	0.494	1.47	0.0645	0.0645	~~B~~ U
73	26.39	360.9	1067	2.47	6.86	0.130	0.357	~~B~~ U
74	26.52	347.8	1279	2.18	6.28	0.401	1.24	~~B~~ U
75	26.68	360.9	1385	~~1.86~~	5.15	0.630	2.69	~~JB~~ U
76	26.78	360.9				0.735	125	
77	27.20	360.9	322	~~0.956~~	2.65	0.384	1.56	~~JB~~ U
78	27.26	395.3	227	~~0.568~~	1.49	0.176	1.34	~~JB~~ U
79	27.46	360.9	65	0.266	0.738	0.125	0.137	~~B~~ U
80	27.57	360.9	178	~~0.224~~	0.621	0.0845	0.238	~~JB~~ U
82	27.87	360.9	2348	4.41	12.2	0.590	2.47	~~B~~ U
83	28.04	360.9	202	0.412	1.14	0.306	0.306	~~B~~ U
84	28.30	360.9	112	0.0553	0.153	0.0336	0.0336	~~B~~ U
85	28.58	395.3	396	1.54	3.90	0.452	1.01	~~B~~ U
87	28.93	395.3	56	~~0.222~~	0.562	0.0825	0.366	~~JB~~ U
88	29.04	395.3	835	~~0.720~~	1.82	0.463	3.29	~~JB~~ U
89	29.17	360.9	155	0.225	0.623	0.168	0.183	~~B~~ U
90	29.35	395.3	271			0.384	1.56	~~B~~

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.62	360.9				0.0715	0.0895	~~B~~
92	29.97	394.3	67			0.133	0.430	~~B~~
93	30.34	394.3	426			0.650	2.93	~~B~~
94	30.61	394.3	357	~~0.690~~	1.75	0.625	1.56	~~JB~~ U
95	30.88	382.2	237	~~0.549~~	1.44	0.467	0.720	~~JB~~ U
96	31.19	429.8	87			0.0209	0.0605	~~B~~
98	31.35	395.3	64			0.400	0.400	
99	31.71	429.8	520	1.26	2.93	0.274	0.357	
100	31.96	395.3				0.282	0.510	
101	32.20	429.8	67			0.550	0.550	~~B~~
102	32.45	395.3	878			0.815	5.55	~~B~~
103	32.66	395.3	63			0.366	0.384	~~B~~
104	33.02	395.3	48			0.198	0.219	~~B~~
105	33.34	429.8	32			0.124	0.393	~~B~~
106	34.50	395.3	326			0.288	1.17	~~B~~
107	34.68	395.3	221	~~0.269~~	0.681	0.213	0.384	~~JB~~ U
108	35.71	429.8	76			0.222	0.222	~~B~~
109	35.90	429.8	271			1.22	3.84	~~B~~
110	36.43	429.8	422			0.925	3.93	~~B~~
111	37.60	395.3				0.170	0.170	
112	39.20	429.8	159			0.246	0.505	~~B~~
113	39.68	464.2				0.266	0.451	~~B~~
114	40.63	464.2				0.118	0.170	
115	42.07	429.8	258			0.540	1.65	~~B~~
116	42.95	429.8				0.312	0.312	
117	48.13	464.2				0.590	0.620	
118	54.16	498.6				0.118	0.118	
						2690	9810	

Concentration = ~~23,200~~ 96 ng/L

Total Nanomoles = 103

Average Molecular Weight = 226.0

Number of Calibrated Peaks Found = 97

Internal Standard Retention Time = 46.57 Minutes

Internal Standard Peak Area = 226369.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07353.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02D-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 22:40:57

Total PCBs in sample = ~~969~~ ~~488~~ 43.6 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	4.40	5.67
Di	44.54	48.41
Tri	33.79	31.93
Tetra	13.81	11.56
Penta	1.98	1.48
Hexa	0.81	0.55
Hepta	0.48	0.30
Octa	0.18	0.10
Nona	0.01	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	41.7681	40.9	40.0
A1242	23+24/31+28	56.1796	54.9	53.7
A1254SED	61/110	3.1366	3.1	
A1254BIO	***/###	5.4362		5.2
A1260	102/180	1.0045	1.0	1.0
A1268	115/194	0.1574	0.2	0.2

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.79

Meta + Para Cl / biphenyl Residue = 0.79

TOTAL Cl / biphenyl Residue = 2.58

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07353.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02D-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 22:40:57
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	3138	41.8	221	0.582	2.19	~~B~~
3	12.73	188.7				25.1	1000	
4	12.84	188.7	40	~~0.866~~	4.59	0.318	1.28	~~JB~~ U
5	13.45	223.1	2520	377	1,690	18.2	31.1	~~B~~ U
6	14.30	223.1	3773	2.91	13.0	0.0894	0.219	~~B~~ U
7	14.62	223.1	5603	9.02	40.4	0.188	0.347	~~B~~ U
8	14.80	223.1	20501	29.6	132	0.528	2.56	~~B~~ U
9	15.36	223.1				0.845	25.0	
10	15.45	257.5	1661	67.6	262	3.30	5.10	~~B~~ U
11	15.92	257.5	68			0.247	25.0	
12	15.98	223.1	315	1.82	8.15	0.347	25.0	J
13	16.16	223.1	238	0.254	1.14	0.0617	0.0975	~~B~~ U
14	16.31	249.0	30162	43.1	173	0.0978	0.676	~~B~~ U
15	16.39	257.5	550	43.3	168	7.10	33.8	~~B~~ U
16	16.69	257.5	755	19.3	74.9	3.81	3.81	~~B~~ U
17	16.98	257.5	861	~~33.2~~	129	8.25	35.7	~~JB~~ U
19	17.41	267.9	3412	~~3.36~~	12.5	0.212	25.0	~~JB~~ U
20	17.59	257.5	724	0.417	1.62	0.0190	0.0194	~~B~~ U
21	17.71	257.5	307	8.96	34.8	3.37	6.60	~~B~~ U
22	17.79	257.5	300	6.74	26.2	5.05	5.05	~~B~~ U
23	18.00	257.5	36916	27.6	107	0.144	0.753	~~B~~ U
24	18.04	257.5	41966	28.6	111	0.184	0.964	~~B~~ U
25	18.40	259.5	36917	31.1	120	0.121	0.726	~~B~~ U
26	18.63	258.7	22593	19.6	75.7	0.197	0.530	~~B~~ U
27	18.86	292.0	8603	6.05	20.7	0.105	0.163	~~B~~ U
28	18.99	257.5				0.181	25.0	
29	19.13	292.0	3105	2.55	8.73	0.117	0.117	~~B~~ U
30	19.25	257.5				0.481	25.0	
31	19.43	292.0	25757	27.6	94.4	0.180	0.872	~~B~~ U
32	19.60	292.0	20901	11.2	38.3	0.0508	0.420	~~B~~ U
33	19.71	292.0	11053	4.17	14.3	0.0671	0.183	~~B~~ U
34	19.78	292.0	8500	4.33	14.8	0.0562	0.183	~~B~~ U
35	19.91	292.0	430	~~0.224~~	0.766	0.167	25.0	~~JB~~ U
36	20.00	257.5	236	~~0.317~~	1.23	0.200	25.0	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	23090	15.9	54.5	0.122	0.786	~~B~~ U
38	20.30	272.4	17297	14.6	53.6	0.126	0.475	~~B~~ U
39	20.65	292.0	29782	16.2	55.6	0.148	0.749	~~B~~ U
41	20.81	326.4	871	~~0.758~~	2.32	0.209	25.0	~~JB~~ U
42	20.91	292.0	6213	3.78	12.9	0.0990	0.172	~~B~~ U
43	21.16	298.9	714	~~0.477~~	1.60	0.221	25.0	~~JB~~ U
44	21.34	298.9	1282	0.550	1.84	0.0232	0.0402	~~B~~ U
45	21.50	292.0	1502	0.680	2.33	0.115	0.115	~~B~~ U
46	21.66	292.0	8934	3.20	11.0	0.0478	0.347	~~B~~ U
47	21.80	292.0	15374	7.01	24.0	0.108	0.621	~~B~~ U
48	21.91	293.5	21710	14.7	50.2	0.267	1.32	~~B~~ U
49	22.21	324.7	2043	1.09	3.35	0.0278	0.0932	~~B~~ U
50	22.52	292.0	13312	5.94	20.4	0.0865	0.640	~~B~~ U
51	22.76	326.4	3855	4.16	12.7	0.209	0.329	~~B~~ U
52	22.87	326.4	119	0.0625	0.192	0.0328	0.0366	~~B~~ U
53	23.02	326.4	4915	2.54	7.78	0.0548	0.329	~~B~~ U
54	23.21	326.4	2968	0.974	2.98	0.0573	0.135	~~B~~ U
55	23.49	326.4	251	0.0528	0.162	0.0150	0.0150	~~B~~ U
56	23.59	326.4	1123	0.626	1.92	0.0373	0.0548	~~B~~ U
57	23.80	326.4	1659	0.624	1.91	0.0426	0.102	~~B~~ U
58	23.97	326.4	3424	1.54	4.71	0.0799	0.212	~~B~~ U
59	24.13	326.4	1459	0.539	1.65	0.0525	0.128	~~B~~ U
60	24.25	360.9	991	0.460	1.28	0.0511	0.137	~~B~~ U
61	24.38	315.8	5905	3.14	9.93	0.0768	0.389	~~B~~ U
62	24.66	360.9				0.373	25.0	
63	24.75	326.4	1069	0.348	1.07	0.0978	0.0978	~~B~~ U
64	25.05	360.9	1708	0.734	2.03	0.0502	0.311	~~B~~ U
65	25.18	350.5	645	0.177	0.505	0.0150	0.0530	~~B~~ U
66	25.25	360.9	357	0.258	0.715	0.0591	0.110	~~B~~ U
67	25.31	336.8	485	0.239	0.709	0.0396	0.0475	~~B~~ U
68	25.39	326.4	71			0.135	25.0	
69	25.50	337.5	5384	2.20	6.53	0.106	0.731	~~B~~ U
70	25.61	360.9				0.156	25.0	
71	25.89	347.8	820	0.312	0.897	0.0750	0.0750	~~B~~ U
72	26.11	336.8	126	0.0308	0.0916	0.0129	0.0129	~~B~~ U
73	26.39	360.9	535	0.209	0.579	0.0260	0.0713	~~B~~ U
74	26.52	347.8	3236	1.01	2.91	0.0802	0.248	~~B~~ U
75	26.68	360.9	5405	1.84	5.09	0.126	0.538	~~B~~ U
76	26.78	360.9				0.147	25.0	
77	27.20	360.9	1028	0.565	1.57	0.0767	0.311	~~B~~ U
78	27.27	395.3	509	~~0.231~~	0.585	0.0351	0.267	~~JB~~ U
79	27.50	360.9	120	0.0897	0.249	0.0249	0.0274	~~B~~ U
80	27.65	360.9	615	0.134	0.370	0.0169	0.0475	~~B~~ U
82	27.86	360.9	3971	1.40	3.87	0.118	0.493	~~B~~ U
83	28.04	360.9	404	0.141	0.390	0.0611	0.0611	~~B~~ U
84	28.24	360.9	155	0.0131	0.0364	0.00672	0.00672	~~B~~ U
85	28.59	395.3	534	0.365	0.923	0.0903	0.201	~~B~~ U
87	28.89	395.3	99	~~0.0640~~	0.162	0.0165	0.0731	~~JB~~ U
88	29.05	395.3	2162	~~0.640~~	1.62	0.0926	0.658	~~JB~~ U
89	29.17	360.9	432	0.112	0.310	0.0335	0.0366	~~B~~ U
90	29.36	395.3	1059	0.362	0.917	0.0768	0.311	~~B~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.62	360.9	60	0.0215	0.0596	0.0143	0.0179	~~B~~ U
92	29.97	394.3	334	~~0.0737~~	0.187	0.0265	0.0859	~~JB~~ U
93	30.34	394.3	1911	0.598	1.52	0.130	0.585	~~B~~ U
94	30.60	394.3	976	0.388	0.983	0.125	0.311	~~B~~ U
95	30.90	382.2	658	0.266	0.695	0.0934	0.144	~~B~~ U
96	31.18	429.8	136	~~0.00551~~	0.0128	0.00417	0.0121	~~JB~~ U
98	31.34	395.3	30			0.0799	0.0799	
99	31.70	429.8	143	0.0719	0.167	0.0547	0.0713	
100	31.96	395.3				0.0563	0.102	
101	32.25	429.8	273	0.126	0.292	0.110	0.110	~~B~~ U
102	32.45	395.3	4028	~~1.00~~	2.54	0.163	1.11	~~JB~~ U
103	32.67	395.3	301	0.123	0.312	0.0731	0.0768	~~B~~ U
104	32.98	395.3	226	0.100	0.254	0.0395	0.0438	~~B~~ U
105	33.34	429.8	238	0.0934	0.217	0.0247	0.0786	~~B~~ U
106	34.51	395.3	1640	0.335	0.847	0.0576	0.234	~~B~~ U
107	34.77	395.3	878	0.214	0.542	0.0426	0.0768	~~B~~ U
108	35.66	429.8	77			0.0443	0.0443	~~B~~
109	35.88	429.8	1085	~~0.480~~	1.12	0.244	0.768	~~JB~~ U
110	36.43	429.8	1769	~~0.751~~	1.75	0.185	0.786	~~JB~~ U
111	37.60	395.3				0.0340	0.0340	
112	39.17	429.8	470	~~0.0842~~	0.196	0.0492	0.101	~~JB~~ U
113	39.71	464.2	182	0.0904	0.195	0.0532	0.0902	~~B~~ U
114	40.62	464.2				0.0236	0.0340	
115	42.07	429.8	888	~~0.157~~	0.366	0.108	0.329	~~JB~~ U
116	42.95	429.8				0.0623	0.0623	
117	48.07	464.2	214			0.118	0.124	
118	54.16	498.6				0.0236	0.0236	
						57.4	151	

Concentration = ~~969~~ ng/L
43.6

Total Nanomoles = 3.98

Average Molecular Weight = 243.1

Number of Calibrated Peaks Found = 100

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 252601.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07355.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02D-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 23:48:08

Total PCBs in sample = ~~38,500~~ ~~36,905~~ 17,467 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	45.34	50.10
Di	46.77	43.70
Tri	6.20	5.03
Tetra	1.32	0.95
Penta	0.24	0.15
Hexa	0.09	0.05
Hepta	0.04	0.02
Octa	0.01	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	17249.7308	99.5	99.5
A1242	23+24/31+28	70.0017	0.4	0.4
A1254SED	61/110	9.6993	0.1	
A1254BIO	***/###	18.9693		0.1
A1260	102/180	3.1193	0.0	0.0
A1268	115/194	0.5240	0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.50

Meta + Para Cl / biphenyl Residue = 0.07

TOTAL Cl / biphenyl Residue = 1.58

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07355.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02D-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/29/2004 23:48:08
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	1448	17,200	91,400	582	2190	~~B~~
3	12.70	188.7				126	5000	
4	12.84	188.7	1526	187	990	1.59	6.40	~~B~~
5	13.46	223.1	5611	17,900	80,200	363	621	~~B~~ U
6	14.30	223.1	172			89.4	219	~~B~~
7	14.62	223.1	93			188	347	~~B~~
8	14.81	223.1	515			528	2560	~~B~~
9	15.36	223.1				4.23	125	
10	15.45	257.5	1260	1,090	4,240	66.0	102	~~B~~ U
11	15.92	257.5	540	1.73	6.74	1.24	125	J
12	15.97	223.1	1374	39.8	178	1.74	125	J
13	16.16	223.1	1165	6.39	28.6	0.309	0.488	~~B~~ U
14	16.31	249.0	28400	204	818	0.489	3.38	~~B~~ U
15	16.39	257.5	149	~~213~~	828	142	676	~~JB~~ U
16	16.69	257.5	827	451	1,750	76.2	76.2	~~B~~ U
17	16.97	257.5	251			165	713	~~B~~
19	17.41	267.9	7123	35.2	131	1.06	125	JB
20	17.58	257.5	351	1.02	3.96	0.0950	0.0970	~~B~~ U
21	17.72	257.5	264	162	628	67.4	132	~~B~~ U
22	17.80	257.5	149			101	101	~~B~~
23	18.00	257.5	388			144	753	~~B~~
24	18.04	257.5	20706	70.0	272	0.920	4.82	~~B~~ U
25	18.43	259.5	34410	145	560	0.605	3.63	~~B~~ U
26	18.63	258.7	12900	55.8	216	0.985	2.65	~~B~~ U
27	18.85	292.0	8431	29.8	102	0.525	0.815	~~B~~ U
28	19.00	257.5	125			0.905	125	
29	19.13	292.0	1193	4.88	16.7	0.585	0.585	~~B~~ U
30	19.26	257.5	413	2.86	11.1	2.41	125	J
31	19.43	292.0	29315	158	540	0.900	4.36	~~B~~ U
32	19.60	292.0	24895	67.0	229	0.254	2.10	~~B~~ U
33	19.71	292.0	16086	30.6	105	0.336	0.915	~~B~~ U
34	19.77	292.0	4236	10.6	36.5	0.281	0.915	~~B~~ U
35	19.91	292.0	713	~~1.86~~	6.38	0.835	125	~~JB~~ U
36	20.00	257.5	182	~~1.23~~	4.78	1.00	125	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	7639	25.5	87.2	0.610	3.93	~~B~~ U
38	20.30	272.4	9383	39.6	145	0.630	2.38	~~B~~ U
39	20.65	292.0	15862	42.7	146	0.740	3.75	~~B~~ U
41	20.82	326.4	1832	~~8.01~~	24.5	1.05	125	~~JB~~ U
42	20.91	292.0	2135	6.36	21.8	0.495	0.860	~~B~~ U
43	21.16	298.9	1558	~~5.23~~	17.5	1.11	125	~~JB~~ U
44	21.37	298.9	997	2.16	7.22	0.116	0.201	~~B~~ U
45	21.49	292.0	3924	8.87	30.4	0.575	0.575	~~B~~ U
46	21.66	292.0	4546	7.88	27.0	0.239	1.74	~~B~~ U
47	21.80	292.0	6019	12.9	44.3	0.540	3.11	~~B~~ U
48	21.97	293.5	13870	46.3	158	1.34	6.60	~~B~~ U
49	22.21	324.7	3148	8.45	26.0	0.139	0.466	~~B~~ U
50	22.52	292.0	4905	10.2	34.8	0.433	3.20	~~B~~ U
51	22.77	326.4	5831	31.8	97.4	1.05	1.65	~~B~~ U
52	22.88	326.4	85	0.225	0.689	0.164	0.183	~~B~~ U
53	23.01	326.4	3772	9.69	29.7	0.274	1.65	~~B~~ U
54	23.21	326.4	2007	3.26	9.97	0.287	0.675	~~B~~ U
55	23.50	326.4	264	0.278	0.853	0.0750	0.0750	~~B~~ U
56	23.58	326.4	1123	3.14	9.63	0.187	0.274	~~B~~ U
57	23.80	326.4	634	1.14	3.50	0.213	0.510	~~B~~ U
58	23.97	326.4	1984	4.37	13.4	0.400	1.06	~~B~~ U
59	24.13	326.4	623	1.11	3.39	0.263	0.640	~~B~~ U
60	24.25	360.9	1151	2.68	7.43	0.256	0.685	~~B~~ U
61	24.38	315.8	3683	9.70	30.7	0.384	1.95	~~B~~ U
62	24.62	360.9				1.87	125	
63	24.74	326.4	319			0.489	0.489	~~B~~
64	25.05	360.9	2266	5.00	13.9	0.251	1.56	~~B~~ U
65	25.18	350.5	875	1.21	3.46	0.0750	0.265	~~B~~ U
66	25.23	360.9	256	0.965	2.67	0.296	0.550	~~B~~ U
67	25.32	336.8	435	1.08	3.20	0.198	0.238	~~B~~ U
68	25.40	326.4	36			0.675	125	
69	25.50	337.5	3518	6.78	20.1	0.530	3.66	~~B~~ U
70	25.61	360.9				0.780	125	
71	25.89	347.8	938	1.79	5.14	0.375	0.375	~~B~~ U
72	26.11	336.8	173	0.211	0.628	0.0645	0.0645	~~B~~ U
73	26.40	360.9	790	1.59	4.40	0.130	0.357	~~B~~ U
74	26.52	347.8	1904	2.92	8.40	0.401	1.24	~~B~~ U
75	26.67	360.9	3991	6.52	18.1	0.630	2.69	~~B~~ U
76	26.78	360.9				0.735	125	
77	27.20	360.9	656	1.79	4.95	0.384	1.56	~~B~~ U
78	27.27	395.3	467	~~1.06~~	2.69	0.176	1.34	~~JB~~ U
79	27.49	360.9	135	0.509	1.41	0.125	0.137	~~B~~ U
80	27.65	360.9	501	0.547	1.52	0.0845	0.238	~~B~~ U
82	27.87	360.9	3291	5.67	15.7	0.590	2.47	~~B~~ U
83	28.05	360.9	273	0.486	1.35	0.306	0.306	~~B~~ U
84	28.25	360.9	108	0.0477	0.132	0.0336	0.0336	~~B~~ U
85	28.59	395.3	533	1.83	4.63	0.452	1.01	~~B~~ U
87	28.90	395.3	80	~~0.267~~	0.675	0.0825	0.366	~~JB~~ U
88	29.04	395.3	1808	~~2.50~~	6.31	0.463	3.29	~~JB~~ U
89	29.15	360.9	289	0.374	1.04	0.168	0.183	~~B~~ U
90	29.35	395.3	769	~~1.25~~	3.15	0.384	1.56	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.64	360.9	97	0.164	0.454	0.0715	0.0895	~~B~~ U
92	29.96	394.3	216	~~0.215~~	0.544	0.133	0.430	~~JB~~ U
93	30.33	394.3	1461	~~2.09~~	5.29	0.650	2.93	~~JB~~ U
94	30.60	394.3	728	~~1.40~~	3.56	0.625	1.56	~~JB~~ U
95	30.90	382.2	476	0.968	2.53	0.467	0.720	~~B~~ U
96	31.16	429.8	198	~~0.0450~~	0.105	0.0209	0.0605	~~JB~~ U
98	31.33	395.3	38			0.400	0.400	
99	31.70	429.8	68			0.274	0.357	
100	31.96	395.3				0.282	0.510	
101	32.25	429.8	59			0.550	0.550	~~B~~
102	32.45	395.3	2978	~~3.12~~	7.89	0.815	5.55	~~JB~~ U
103	32.68	395.3	154			0.366	0.384	~~B~~
104	32.97	395.3	79			0.198	0.219	~~B~~
105	33.33	429.8	113	~~0.242~~	0.563	0.124	0.393	~~JB~~ U
106	34.50	395.3	788	~~0.741~~	1.87	0.288	1.17	~~JB~~ U
107	34.76	395.3	149			0.213	0.384	~~B~~
108	35.65	429.8				0.222	0.222	~~B~~
109	35.90	429.8	799	~~1.58~~	3.69	1.22	3.84	~~JB~~ U
110	36.42	429.8	1095	~~1.99~~	4.64	0.925	3.93	~~JB~~ U
111	37.60	395.3				0.170	0.170	
112	39.17	429.8	204			0.246	0.505	~~B~~
113	39.68	464.2				0.266	0.451	~~B~~
114	40.63	464.2				0.118	0.170	
115	42.07	429.8	660			0.540	1.65	~~B~~
116	42.95	429.8				0.312	0.312	
117	48.13	464.2	122			0.590	0.620	
118	54.16	498.6				0.118	0.118	
						2550	8610	

Concentration = ~~38,500~~ 17,467 ng/L

Total Nanomoles = 184

Average Molecular Weight = 208.5

Number of Calibrated Peaks Found = 100

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 251580.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07357.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03D-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 00:55:17

Total PCBs in sample = ~~1,370~~ ng/L ~~585~~ 110

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	8.06	10.40
Di	37.85	41.18
Tri	35.25	33.38
Tetra	13.81	11.58
Penta	2.18	1.63
Hexa	1.45	0.98
Hepta	1.02	0.63
Octa	0.36	0.20
Nona	0.02	0.01
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	107.4543	51.4	49.2
A1242	23+24/31+28	92.7505	44.4	42.5
A1254SED	61/110	4.5397	2.2	
A1254BIO	***/###	13.8552		6.3
A1260	102/180	3.6149	1.7	1.7
A1268	115/194	0.6647	0.3	0.3

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.70

Meta + Para Cl / biphenyl Residue = 0.89

TOTAL Cl / biphenyl Residue = 2.59

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07357.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03D-S1

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 00:55:17
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	3987	107	569	1.16	4.38	~~B~~
3	12.70	188.7				50.2	2000	
4	12.84	188.7	64	2.95	15.6	0.636	2.56	~~B~~ U
5	13.45	223.1	4253	425	1,900	12.1	20.7	~~B~~ U
6	14.30	223.1	3299	5.12	23.0	0.179	0.438	~~B~~ U
7	14.62	223.1	4443	14.4	64.7	0.376	0.694	~~B~~ U
8	14.81	223.1	18709	54.5	244	1.06	5.12	~~B~~ U
9	15.33	223.1				1.69	50.0	
10	15.45	257.5	2592	70.7	275	2.20	3.40	~~B~~ U
11	15.92	257.5	47			0.494	50.0	
12	15.98	223.1	221	2.58	11.6	0.694	50.0	J
13	16.16	223.1	272	0.588	2.64	0.123	0.195	~~B~~ U
14	16.31	249.0	22968	66.2	266	0.196	1.35	~~B~~ U
15	16.40	257.5	1365	74.5	289	4.73	22.5	~~B~~ U
16	16.69	257.5	1333	22.8	88.4	2.54	2.54	~~B~~ U
17	16.98	257.5	26933	61.8	240	0.330	1.43	~~B~~ U
19	17.41	267.9	1809	~~3.60~~	13.4	0.424	50.0	~~JB~~ U
20	17.58	257.5	799	0.931	3.62	0.0380	0.0388	~~B~~ U
21	17.71	257.5	599	12.9	50.3	2.25	4.40	~~B~~ U
22	17.80	257.5	520	8.36	32.5	3.37	3.37	~~B~~ U
23	18.00	257.5	29533	44.5	173	0.288	1.51	~~B~~ U
24	18.04	257.5	35099	48.3	188	0.368	1.93	~~B~~ U
25	18.40	259.5	27922	47.4	183	0.242	1.45	~~B~~ U
26	18.63	258.7	17550	30.7	119	0.394	1.06	~~B~~ U
27	18.85	292.0	5938	8.40	28.8	0.210	0.326	~~B~~ U
28	18.99	257.5				0.362	50.0	
29	19.13	292.0	2045	3.39	11.6	0.234	0.234	~~B~~ U
30	19.25	257.5				0.962	50.0	
31	19.43	292.0	17071	36.8	126	0.360	1.74	~~B~~ U
32	19.60	292.0	14481	15.6	53.3	0.102	0.840	~~B~~ U
33	19.71	292.0	7450	5.64	19.3	0.134	0.366	~~B~~ U
34	19.78	292.0	6662	6.83	23.4	0.112	0.366	~~B~~ U
35	19.92	292.0	410	~~0.431~~	1.48	0.334	50.0	~~JB~~ U
36	20.00	257.5	132			0.400	50.0	~~B~~

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	16035	22.2	75.9	0.244	1.57	~~B~~ U
38	20.30	272.4	11873	20.2	74.2	0.252	0.950	~~B~~ U
39	20.64	292.0	21347	23.4	80.0	0.296	1.50	~~B~~ U
41	20.81	326.4	391	~~0.689~~	2.11	0.418	50.0	~~JB~~ U
42	20.91	292.0	4220	5.15	17.7	0.198	0.344	~~B~~ U
43	21.16	298.9	279			0.442	50.0	~~B~~
44	21.33	298.9	970	0.846	2.83	0.0464	0.0804	~~B~~ U
45	21.49	292.0	1395	1.28	4.37	0.230	0.230	~~B~~ U
46	21.66	292.0	6866	4.92	16.8	0.0956	0.694	~~B~~ U
47	21.79	292.0	11623	10.6	36.3	0.216	1.24	~~B~~ U
48	21.91	293.5	16251	22.0	75.1	0.534	2.64	~~B~~ U
49	22.21	324.7	1520	1.63	5.02	0.0556	0.186	~~B~~ U
50	22.52	292.0	10157	9.05	31.0	0.173	1.28	~~B~~ U
51	22.76	326.4	2676	5.79	17.8	0.418	0.658	~~B~~ U
52	22.87	326.4	178	0.190	0.581	0.0656	0.0732	~~B~~ U
53	23.02	326.4	4174	4.34	13.3	0.110	0.658	~~B~~ U
54	23.21	326.4	2535	1.67	5.13	0.115	0.270	~~B~~ U
55	23.47	326.4	144	0.0622	0.191	0.0300	0.0300	~~B~~ U
56	23.59	326.4	848	0.958	2.94	0.0746	0.110	~~B~~ U
57	23.80	326.4	1257	0.948	2.90	0.0852	0.204	~~B~~ U
58	23.97	326.4	2586	2.32	7.12	0.160	0.424	~~B~~ U
59	24.12	326.4	1088	0.804	2.46	0.105	0.256	~~B~~ U
60	24.26	360.9	945	0.888	2.46	0.102	0.274	~~B~~ U
61	24.38	315.8	4260	4.54	14.4	0.154	0.778	~~B~~ U
62	24.62	360.9				0.746	50.0	
63	24.75	326.4	751	0.480	1.47	0.196	0.196	~~B~~ U
64	25.04	360.9	2078	1.84	5.09	0.100	0.622	~~B~~ U
65	25.19	350.5	739	0.411	1.17	0.0300	0.106	~~B~~ U
66	25.24	360.9	392	0.568	1.57	0.118	0.220	~~B~~ U
67	25.31	336.8	226	0.229	0.681	0.0792	0.0950	~~B~~ U
68	25.39	326.4	23			0.270	50.0	
69	25.50	337.5	5795	4.84	14.3	0.212	1.46	~~B~~ U
70	25.61	360.9				0.312	50.0	
71	25.90	347.8	1131	0.866	2.49	0.150	0.150	~~B~~ U
72	26.12	336.8	41			0.0258	0.0258	~~B~~
73	26.39	360.9	691	0.556	1.54	0.0520	0.143	~~B~~ U
74	26.52	347.8	3658	2.32	6.68	0.160	0.496	~~B~~ U
75	26.68	360.9	7886	5.63	15.6	0.252	1.08	~~B~~ U
76	26.78	360.9				0.294	50.0	
77	27.21	360.9	1318	1.47	4.09	0.153	0.622	~~B~~ U
78	27.27	395.3	606	0.556	1.41	0.0702	0.534	~~B~~ U
79	27.48	360.9	156	0.238	0.660	0.0498	0.0548	~~B~~ U
80	27.63	360.9	867	0.380	1.05	0.0338	0.0950	~~B~~ U
82	27.86	360.9	4670	3.38	9.38	0.236	0.986	~~B~~ U
83	28.05	360.9	582	0.405	1.12	0.122	0.122	~~B~~ U
84	28.23	360.9	158	0.0270	0.0748	0.0134	0.0134	~~B~~ U
85	28.60	395.3	553	0.763	1.93	0.181	0.402	~~B~~ U
87	28.90	395.3	101	~~0.132~~	0.333	0.0330	0.146	~~JB~~ U
88	29.05	395.3	3283	2.22	5.61	0.185	1.32	~~B~~ U
89	29.16	360.9	418	0.219	0.607	0.0670	0.0732	~~B~~ U
90	29.35	395.3	1625	1.18	3.00	0.154	0.622	~~B~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.66	360.9	58	0.0425	0.118	0.0286	0.0358	~~B~~ U
92	29.96	394.3	534	0.256	0.648	0.0530	0.172	~~B~~ U
93	30.33	394.3	3097	2.19	5.55	0.260	1.17	~~B~~ U
94	30.60	394.3	1379	1.14	2.89	0.250	0.622	~~B~~ U
95	30.90	382.2	902	0.735	1.92	0.187	0.288	~~B~~ U
96	31.17	429.8	264	0.0255	0.0593	0.00834	0.0242	~~B~~ U
98	31.31	395.3	44			0.160	0.160	
99	31.72	429.8	91			0.109	0.143	
100	31.96	395.3				0.113	0.204	
101	32.27	429.8	80			0.220	0.220	~~B~~
102	32.45	395.3	6150	3.61	9.14	0.326	2.22	~~B~~ U
103	32.67	395.3	234	0.194	0.490	0.146	0.154	~~B~~ U
104	32.99	395.3	139	0.129	0.327	0.0790	0.0876	~~B~~ U
105	33.35	429.8	332	0.257	0.599	0.0494	0.157	~~B~~ U
106	34.51	395.3	2027	0.850	2.15	0.115	0.468	~~B~~ U
107	34.77	395.3	710	0.346	0.876	0.0852	0.154	~~B~~ U
108	35.67	429.8	104			0.0886	0.0886	~~B~~
109	35.89	429.8	1679	1.67	3.88	0.488	1.54	~~B~~ U
110	36.42	429.8	2298	2.09	4.85	0.370	1.57	~~B~~ U
111	37.64	395.3	106			0.0680	0.0680	
112	39.15	429.8	610	0.224	0.520	0.0984	0.202	~~B~~ U
113	39.71	464.2	157	~~0.156~~	0.337	0.106	0.180	~~JB~~ U
114	40.64	464.2				0.0472	0.0680	
115	42.04	429.8	1617	0.665	1.55	0.216	0.658	~~B~~ U
116	43.04	429.8				0.125	0.125	
117	48.08	464.2	313			0.236	0.248	
118	54.16	498.6				0.0472	0.0472	
						44.2	118	

Concentration = ~~1,370~~ ng/L
110

Total Nanomoles = 5.63

Average Molecular Weight = 243.5

Number of Calibrated Peaks Found = 101

Internal Standard Retention Time = 46.55 Minutes

Internal Standard Peak Area = 249884.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07359.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03D-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 02:02:32

Total PCBs in sample = ~~53,300~~ ~~51,393~~ 27,134 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	50.77	55.54
Di	42.06	38.90
Tri	5.52	4.43
Tetra	1.31	0.93
Penta	0.23	0.15
Hexa	0.07	0.04
Hepta	0.03	0.02
Octa	0.01	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	26727.2552	99.4	99.4
A1242	23+24/31+28	133.7055	0.5	0.5
A1254SED	61/110	12.9545	0.0	
A1254BIO	***/###	20.7804		0.1
A1260	102/180	2.9928	0.0	0.0
A1268	115/194	0.5992	0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 0.07

TOTAL Cl / biphenyl Residue = 1.51

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07359.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03D-S2

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 02:02:32
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.71	188.7	1591	26,700	142,000	647	2430	~~B~~
3	12.70	188.7				167	6670	
4	12.84	188.7	1842	332	1,760	2.12	8.53	~~B~~
5	13.47	223.1	4979	22,300	99,900	403	690	~~B~~ U
6	14.30	223.1	171			99.3	243	~~B~~
7	14.63	223.1	84			209	386	~~B~~
8	14.80	223.1	466			587	2840	~~B~~
9	15.36	223.1				5.63	167	
10	15.45	257.5	1147	1,400	5,420	73.3	113	~~B~~ U
11	15.92	257.5	558	2.64	10.2	1.65	167	J
12	15.97	223.1	1091	46.6	209	2.31	167	J
13	16.16	223.1	1117	9.03	40.5	0.411	0.650	~~B~~ U
14	16.31	249.0	26773	283	1,140	0.652	4.51	~~B~~ U
15	16.39	257.5	91	~~168~~	651	158	751	~~JB~~ U
16	16.69	257.5	731	559	2,170	84.7	84.7	~~B~~ U
17	16.98	257.5	216			183	792	~~B~~
19	17.41	267.9	6676	48.6	181	1.41	167	J ~~JB~~
20	17.59	257.5	411	1.76	6.83	0.127	0.129	~~B~~ U
21	17.72	257.5	196	165	639	74.9	147	~~B~~ U
22	17.80	257.5	157			112	112	~~B~~
23	18.00	257.5	367			160	837	~~B~~
24	18.04	257.5	20190	101	391	1.23	6.43	~~B~~ U
25	18.43	259.5	32452	202	778	0.807	4.84	~~B~~ U
26	18.63	258.7	12460	79.4	307	1.31	3.53	~~B~~ U
27	18.85	292.0	7829	40.7	140	0.700	1.09	~~B~~ U
28	19.00	257.5	80			1.21	167	
29	19.13	292.0	1082	6.52	22.3	0.780	0.780	~~B~~ U
30	19.26	257.5	372	3.80	14.8	3.21	167	J
31	19.43	292.0	27051	214	734	1.20	5.81	~~B~~ U
32	19.60	292.0	23120	91.7	314	0.339	2.80	~~B~~ U
33	19.71	292.0	14983	42.0	144	0.447	1.22	~~B~~ U
34	19.77	292.0	3897	14.4	49.4	0.375	1.22	~~B~~ U
35	19.92	292.0	616	~~2.37~~	8.11	1.11	167	~~JB~~ U
36	20.00	257.5	161	~~1.60~~	6.22	1.33	167	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	7834	38.7	132	0.813	5.24	~~B~~ U
38	20.30	272.4	8918	55.4	203	0.840	3.17	~~B~~ U
39	20.65	292.0	15051	59.8	205	0.987	4.99	~~B~~ U
41	20.81	326.4	1698	~~10.9~~	33.5	1.39	167	~~JB~~ U
42	20.91	292.0	2100	9.23	31.6	0.660	1.15	~~B~~ U
43	21.16	298.9	1293	~~6.40~~	21.4	1.47	167	~~JB~~ U
44	21.37	298.9	817	2.61	8.74	0.155	0.268	~~B~~ U
45	21.50	292.0	3205	10.7	36.6	0.767	0.767	~~B~~ U
46	21.66	292.0	4182	10.7	36.6	0.319	2.31	~~B~~ U
47	21.80	292.0	5783	18.4	62.9	0.720	4.14	~~B~~ U
48	21.97	293.5	13248	65.3	222	1.78	8.80	~~B~~ U
49	22.21	324.7	2916	11.5	35.5	0.185	0.621	~~B~~ U
50	22.52	292.0	4743	14.6	49.9	0.577	4.27	~~B~~ U
51	22.77	326.4	5226	42.0	129	1.39	2.19	~~B~~ U
52	22.85	326.4	37			0.219	0.244	~~B~~
53	23.01	326.4	3284	12.4	38.0	0.365	2.19	~~B~~ U
54	23.21	326.4	1866	4.46	13.7	0.382	0.900	~~B~~ U
55	23.49	326.4	243	0.378	1.16	0.1000	0.1000	~~B~~ U
56	23.58	326.4	1011	4.17	12.8	0.249	0.365	~~B~~ U
57	23.80	326.4	689	1.85	5.67	0.284	0.680	~~B~~ U
58	23.97	326.4	1932	6.28	19.3	0.533	1.41	~~B~~ U
59	24.13	326.4	568	1.48	4.55	0.350	0.853	~~B~~ U
60	24.25	360.9	1038	3.56	9.87	0.341	0.913	~~B~~ U
61	24.38	315.8	3341	13.0	41.0	0.512	2.59	~~B~~ U
62	24.62	360.9				2.49	167	
63	24.75	326.4	392	0.841	2.58	0.652	0.652	~~B~~ U
64	25.05	360.9	1941	6.28	17.4	0.335	2.07	~~B~~ U
65	25.18	350.5	857	1.75	5.00	0.1000	0.353	~~B~~ U
66	25.24	360.9	123	0.763	2.11	0.394	0.733	~~B~~ U
67	25.31	336.8	440	1.60	4.76	0.264	0.317	~~B~~ U
68	25.41	326.4	16			0.900	167	
69	25.50	337.5	3199	9.06	26.8	0.707	4.87	~~B~~ U
70	25.61	360.9				1.04	167	
71	25.89	347.8	656	1.85	5.32	0.500	0.500	~~B~~ U
72	26.12	336.8	149	0.268	0.797	0.0860	0.0860	~~B~~ U
73	26.39	360.9	545	1.59	4.40	0.173	0.475	~~B~~ U
74	26.52	347.8	1539	3.45	9.93	0.535	1.65	~~B~~ U
75	26.68	360.9	2555	5.68	15.7	0.840	3.59	~~B~~ U
76	26.78	360.9				0.980	167	
77	27.20	360.9	273	~~1.04~~	2.87	0.511	2.07	~~JB~~ U
78	27.28	395.3	159	~~0.537~~	1.36	0.234	1.78	~~JB~~ U
79	27.52	360.9	35	~~0.173~~	0.479	0.166	0.183	~~JB~~ U
80	27.66	360.9	275	0.445	1.23	0.113	0.317	~~B~~ U
82	27.87	360.9	2467	6.04	16.7	0.787	3.29	~~B~~ U
83	28.03	360.9	229	0.604	1.67	0.407	0.407	~~B~~ U
84	28.23	360.9	70	0.0482	0.134	0.0448	0.0448	~~B~~ U
85	28.58	395.3	473	2.39	6.04	0.602	1.34	~~B~~ U
87	28.86	395.3	110	0.515	1.30	0.110	0.487	~~B~~ U
88	29.04	395.3	1384	~~2.54~~	6.42	0.617	4.39	~~JB~~ U
89	29.15	360.9	193	0.365	1.01	0.223	0.244	~~B~~ U
90	29.35	395.3	630	~~1.47~~	3.71	0.512	2.07	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.60	360.9	49	0.133	0.369	0.0953	0.119	~~B~~ U
92	29.95	394.3	148	~~0.191~~	0.484	0.177	0.573	~~JB~~ U
93	30.32	394.3	1045	~~1.93~~	4.88	0.867	3.90	~~JB~~ U
94	30.60	394.3	709	~~2.03~~	5.15	0.833	2.07	~~JB~~ U
95	30.89	382.2	327	0.982	2.57	0.623	0.960	~~B~~ U
96	31.15	429.8	206	~~0.0705~~	0.164	0.0278	0.0807	~~JB~~ U
98	31.34	395.3	17			0.533	0.533	
99	31.69	429.8	77			0.365	0.475	
100	31.96	395.3				0.375	0.680	
101	32.25	429.8	98			0.733	0.733	~~B~~
102	32.45	395.3	2288	~~2.99~~	7.57	1.09	7.40	~~JB~~ U
103	32.69	395.3	118			0.487	0.512	~~B~~
104	32.97	395.3	122	0.415	1.05	0.263	0.292	~~B~~ U
105	33.38	429.8	114	~~0.357~~	0.830	0.165	0.524	~~JB~~ U
106	34.52	395.3	946	~~1.36~~	3.45	0.384	1.56	~~JB~~ U
107	34.76	395.3	382	0.652	1.65	0.284	0.512	~~B~~ U
108	35.68	429.8	90			0.295	0.295	~~B~~
109	35.87	429.8	662	~~1.83~~	4.27	1.63	5.12	~~JB~~ U
110	36.41	429.8	836	~~2.03~~	4.73	1.23	5.24	~~JB~~ U
111	37.60	395.3	103			0.227	0.227	
112	39.10	429.8	216			0.328	0.673	~~B~~
113	39.69	464.2	148	~~0.540~~	1.16	0.355	0.601	~~JB~~ U
114	40.63	464.2				0.157	0.227	
115	42.07	429.8	544			0.720	2.19	~~B~~
116	43.00	429.8	87			0.415	0.415	
117	48.12	464.2	40			0.787	0.827	
118	54.16	498.6				0.157	0.157	
						2840	9590	

Concentration = ~~53,300~~ 27,134 ng/L

Total Nanomoles = 258

Average Molecular Weight = 206.4

Number of Calibrated Peaks Found = 104

Internal Standard Retention Time = 46.55 Minutes

Internal Standard Peak Area = 232242.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07361.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01D-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 03:09:44

Total PCBs in sample = ~~11,400~~ ~~9,092~~ 27.4 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	15.65	18.66
Di	60.02	60.48
Tri	20.66	18.07
Tetra	3.11	2.41
Penta	0.43	0.30
Hexa	0.11	0.07
Hepta	0.02	0.01
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	1744.2671	86.5	86.4
A1242	23+24/31+28	267.0860	13.2	13.2
A1254SED	61/110	6.0428	0.3	
A1254BIO	***/###	8.3285		0.4
A1260	102/180	0.2278	0.0	0.0
A1268	115/194		0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.59

Meta + Para Cl / biphenyl Residue = 0.46

TOTAL Cl / biphenyl Residue = 2.05

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07361.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01D-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 03:09:44
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	310	1,740	9,240	291	1100	~~B~~ U
3	12.70	188.7				126	5000	
4	12.84	188.7	349	41.9	222	1.59	6.40	~~B~~ U
5	13.44	223.1	2864	4,610	20,700	182	311	~~B~~ U
6	14.30	223.1	5453	21.1	94.4	0.447	1.10	~~B~~ U
7	14.62	223.1	590	393	1,760	94.0	174	~~B~~ U
8	14.81	223.1	2910	1,740	7,800	264	1280	~~B~~ U
9	15.36	223.1				4.23	125	
10	15.45	257.5	869	377	1,470	33.0	51.0	~~B~~ U
11	15.93	257.5	95			1.24	125	
12	15.97	223.1	953	27.4	123	1.74	125	J
13	16.16	223.1	1174	6.38	28.6	0.309	0.488	~~B~~ U
14	16.31	249.0	26115	186	745	0.489	3.38	~~B~~ U
15	16.40	257.5	718	619	2,410	71.0	338	~~B~~ U
16	16.69	257.5	745	205	797	38.1	38.1	~~B~~ U
17	16.98	257.5	1019	444	1,730	82.5	357	~~B~~ U
19	17.41	267.9	2145	~~10.5~~	39.2	1.06	125	~~JB~~ U
20	17.59	257.5	4			9.50	9.70	~~B~~
21	17.71	257.5	394	131	510	33.7	66.0	~~B~~ U
22	17.79	257.5	195			50.5	50.5	~~B~~
23	17.99	257.5	49521	184	716	0.720	3.77	~~B~~ U
24	18.04	257.5	24585	82.7	321	0.920	4.82	~~B~~ U
25	18.40	259.5	22483	93.8	361	0.605	3.63	~~B~~ U
26	18.63	258.7	14479	62.1	240	0.985	2.65	~~B~~ U
27	18.85	292.0	5078	17.6	60.4	0.525	0.815	~~B~~ U
28	18.99	257.5				0.905	125	
29	19.13	292.0	1448	5.89	20.2	0.585	0.585	~~B~~ U
30	19.25	257.5	86			2.41	125	
31	19.43	292.0	18453	97.9	335	0.900	4.36	~~B~~ U
32	19.60	292.0	18175	48.3	165	0.254	2.10	~~B~~ U
33	19.71	292.0	13667	25.7	88.1	0.336	0.915	~~B~~ U
34	19.77	292.0	3227	7.94	27.2	0.281	0.915	~~B~~ U
35	19.92	292.0	187			0.835	125	~~B~~
36	19.98	257.5	94			1.00	125	~~B~~

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	7467	24.6	84.2	0.610	3.93	~~B~~ U
38	20.30	272.4	7303	30.4	112	0.630	2.38	~~B~~ U
39	20.64	292.0	13561	35.9	123	0.740	3.75	~~B~~ U
41	20.81	326.4	850	~~3.68~~	11.3	1.05	125	~~JB~~ U
42	20.91	292.0	2472	7.33	25.1	0.495	0.860	~~B~~ U
43	21.17	298.9	601	~~2.00~~	6.70	1.11	125	~~JB~~ U
44	21.34	298.9	548	1.20	4.00	0.116	0.201	~~B~~ U
45	21.49	292.0	1133	2.56	8.77	0.575	0.575	~~B~~ U
46	21.66	292.0	3503	5.86	20.1	0.239	1.74	~~B~~ U
47	21.80	292.0	5195	10.8	37.1	0.540	3.11	~~B~~ U
48	21.91	293.5	9377	30.1	103	1.34	6.60	~~B~~ U
49	22.21	324.7	2028	5.37	16.5	0.139	0.466	~~B~~ U
50	22.52	292.0	4372	8.81	30.2	0.433	3.20	~~B~~ U
51	22.76	326.4	3143	16.8	51.5	1.05	1.65	~~B~~ U
52	22.88	326.4	26			0.164	0.183	~~B~~
53	23.01	326.4	2062	5.05	15.5	0.274	1.65	~~B~~ U
54	23.21	326.4	1226	1.91	5.84	0.287	0.675	~~B~~ U
55	23.49	326.4	187	0.198	0.606	0.0750	0.0750	~~B~~ U
56	23.58	326.4	518	1.45	4.45	0.187	0.274	~~B~~ U
57	23.80	326.4	409	0.698	2.14	0.213	0.510	~~B~~ U
58	23.97	326.4	1171	2.44	7.48	0.400	1.06	~~B~~ U
59	24.13	326.4	386	0.646	1.98	0.263	0.640	~~B~~ U
60	24.24	360.9	511	1.19	3.31	0.256	0.685	~~B~~ U
61	24.38	315.8	2362	6.04	19.1	0.384	1.95	~~B~~ U
62	24.62	360.9				1.87	125	
63	24.74	326.4	297			0.489	0.489	~~B~~
64	25.05	360.9	899	1.75	4.84	0.251	1.56	~~B~~ U
65	25.18	350.5	458	0.616	1.76	0.0750	0.265	~~B~~ U
66	25.24	360.9	90	~~0.423~~	1.17	0.296	0.550	~~JB~~ U
67	25.32	336.8	215	0.539	1.60	0.198	0.238	~~B~~ U
68	25.43	326.4	48			0.675	125	
69	25.49	337.5	2282	3.88	11.5	0.530	3.66	~~B~~ U
70	25.61	360.9				0.780	125	
71	25.90	347.8	316	0.612	1.76	0.375	0.375	~~B~~ U
72	26.11	336.8	88	0.107	0.319	0.0645	0.0645	~~B~~ U
73	26.40	360.9	307	0.562	1.56	0.130	0.357	~~B~~ U
74	26.52	347.8	930	1.33	3.81	0.401	1.24	~~B~~ U
75	26.68	360.9	1683	~~2.05~~	5.67	0.630	2.69	~~JB~~ U
76	26.78	360.9				0.735	125	
77	27.20	360.9	255	~~0.637~~	1.77	0.384	1.56	~~JB~~ U
78	27.26	395.3	159	0.361	0.914	0.176	1.34	~~JB~~ U
79	27.49	360.9	33			0.125	0.137	~~B~~
80	27.64	360.9	203	~~0.223~~	0.618	0.0845	0.238	~~JB~~ U
82	27.88	360.9	1665	~~2.41~~	6.66	0.590	2.47	~~JB~~ U
83	28.04	360.9	136			0.306	0.306	~~B~~
84	28.23	360.9	113	0.0495	0.137	0.0336	0.0336	~~B~~ U
85	28.58	395.3	195	~~0.668~~	1.69	0.452	1.01	~~JB~~ U
87	28.90	395.3	64	~~0.222~~	0.563	0.0825	0.366	~~JB~~ U
88	29.04	395.3	812			0.463	3.29	~~B~~
89	29.17	360.9	120			0.168	0.183	~~B~~
90	29.36	395.3	402	~~0.510~~	1.29	0.384	1.56	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.60	360.9	45	~~0.0846~~	0.234	0.0715	0.0895	~~JB~~ U
92	29.95	394.3	113			0.133	0.430	~~B~~
93	30.33	394.3	641			0.650	2.93	~~B~~
94	30.59	394.3	370			0.625	1.56	~~B~~
95	30.89	382.2	232	~~0.472~~	1.23	0.467	0.720	~~JB~~ U
96	31.15	429.8	113	~~0.0210~~	0.0488	0.0209	0.0605	~~JB~~ U
98	31.35	395.3	24			0.400	0.400	
99	31.72	429.8	48			0.274	0.357	
100	31.96	395.3				0.282	0.510	
101	32.25	429.8	75			0.550	0.550	~~B~~
102	32.44	395.3	1445			0.815	5.55	~~B~~
103	32.67	395.3	81			0.366	0.384	~~B~~
104	33.03	395.3	63			0.198	0.219	~~B~~
105	33.31	429.8	58	~~0.144~~	0.335	0.124	0.393	~~JB~~ U
106	34.50	395.3	327			0.288	1.17	~~B~~
107	34.79	395.3	132			0.213	0.384	~~B~~
108	35.62	429.8	113			0.222	0.222	~~B~~
109	35.89	429.8	378			1.22	3.84	~~B~~
110	36.44	429.8	492			0.925	3.93	~~B~~
111	37.60	395.3				0.170	0.170	
112	39.17	429.8	159			0.246	0.505	~~B~~
113	39.71	464.2	146	~~0.357~~	0.770	0.266	0.451	~~JB~~ U
114	40.62	464.2				0.118	0.170	
115	42.08	429.8	154			0.540	1.65	~~B~~
116	42.95	429.8				0.312	0.312	
117	48.07	464.2	59			0.590	0.620	
118	54.16	498.6				0.118	0.118	
						1180	3890	

Concentration = ~~11,400~~ 27.4 ng/L

Total Nanomoles = 50.7

Average Molecular Weight = 225.0

Number of Calibrated Peaks Found = 101

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 258828.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07363.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01D-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 05:23:59

Total PCBs in sample = ~~65,900~~ ng/L 35,164

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	53.30	57.96
Di	40.20	36.96
Tri	5.55	4.42
Tetra	0.76	0.54
Penta	0.14	0.09
Hexa	0.04	0.02
Hepta	0.01	0.01
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	34749.7428	99.2	99.2
A1242	23+24/31+28	260.8618	0.7	0.7
A1254SED	61/110	11.5813	0.0	
A1254BIO	***/###	15.5844		0.0
A1260	102/180	0.7236	0.0	0.0
A1268	115/194	0.2200	0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.42

Meta + Para Cl / biphenyl Residue = 0.06

TOTAL Cl / biphenyl Residue = 1.48

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07363.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-01D-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 05:23:59
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.71	188.7	1492	34,700	184,000	1160	4380	~~B~~
3	12.70	188.7				167	6670	
4	12.84	188.7	2468	400	2,120	2.12	8.53	~~B~~
5	13.46	223.1	4147	25,900	116,000	726	1240	~~B~~ U
6	14.30	223.1	13129	68.4	306	0.596	1.46	~~B~~ U
7	14.62	223.1	230	~~482~~	2,160	376	694	~~JB~~ U
8	14.81	223.1	701			1060	5120	~~B~~
9	15.36	223.1				5.63	167	
10	15.44	257.5	1017	1,720	6,660	132	204	~~B~~ U
11	15.92	257.5	90			1.65	167	
12	15.98	223.1	546	20.9	93.9	2.31	167	J
13	16.16	223.1	1398	10.2	45.5	0.411	0.650	~~B~~ U
14	16.31	249.0	25730	244	980	0.652	4.51	~~B~~ U
15	16.41	257.5	141	~~385~~	1,490	284	1350	~~JB~~ U
16	16.69	257.5	594	633	2,460	152	152	~~B~~ U
17	16.98	257.5	251			330	1430	~~B~~
19	17.41	267.9	5623	36.8	137	1.41	167	~~JB~~
20	17.59	257.5	273	1.05	4.09	0.127	0.129	~~B~~ U
21	17.71	257.5	202	~~222~~	863	135	264	~~JB~~ U
22	17.80	257.5	143			202	202	~~B~~
23	17.99	257.5	37728	187	727	0.960	5.02	~~B~~ U
24	18.04	257.5	16576	73.7	286	1.23	6.43	~~B~~ U
25	18.43	259.5	26209	146	564	0.807	4.84	~~B~~ U
26	18.63	258.7	11542	65.9	255	1.31	3.53	~~B~~ U
27	18.85	292.0	5407	25.1	86.0	0.700	1.09	~~B~~ U
28	18.99	257.5	219	1.87	7.27	1.21	167	J
29	19.13	292.0	957	5.18	17.7	0.780	0.780	~~B~~ U
30	19.26	257.5	522	4.79	18.6	3.21	167	J
31	19.43	292.0	21867	155	532	1.20	5.81	~~B~~ U
32	19.60	292.0	16321	57.8	198	0.339	2.80	~~B~~ U
33	19.71	292.0	15482	39.0	133	0.447	1.22	~~B~~ U
34	19.77	292.0	2907	9.51	32.6	0.375	1.22	~~B~~ U
35	19.92	292.0	254			1.11	167	~~B~~
36	20.00	257.5	125			1.33	167	~~B~~

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	6294	27.4	93.9	0.813	5.24	~~B~~ U
38	20.30	272.4	7206	40.1	147	0.840	3.17	~~B~~ U
39	20.65	292.0	12840	45.4	155	0.987	4.99	~~B~~ U
41	20.81	326.4	1571	~~9.09~~	27.8	1.39	167	~~JB~~ U
42	20.90	292.0	1625	6.33	21.7	0.660	1.15	~~B~~ U
43	21.16	298.9	673	~~2.99~~	10.0	1.47	167	~~JB~~ U
44	21.38	298.9	786	2.26	7.57	0.155	0.268	~~B~~ U
45	21.49	292.0	1443	4.34	14.9	0.767	0.767	~~B~~ U
46	21.66	292.0	4265	9.73	33.3	0.319	2.31	~~B~~ U
47	21.80	292.0	5391	15.1	51.8	0.720	4.14	~~B~~ U
48	21.97	293.5	10531	45.7	156	1.78	8.80	~~B~~ U
49	22.21	324.7	2415	8.56	26.4	0.185	0.621	~~B~~ U
50	22.52	292.0	4067	10.9	37.2	0.577	4.27	~~B~~ U
51	22.78	326.4	4031	28.9	88.7	1.39	2.19	~~B~~ U
52	22.87	326.4	39			0.219	0.244	~~B~~
53	23.01	326.4	2706	9.04	27.7	0.365	2.19	~~B~~ U
54	23.21	326.4	1535	3.25	9.94	0.382	0.900	~~B~~ U
55	23.49	326.4	358	0.497	1.52	0.1000	0.1000	~~B~~ U
56	23.58	326.4	774	2.88	8.82	0.249	0.365	~~B~~ U
57	23.80	326.4	642	1.53	4.70	0.284	0.680	~~B~~ U
58	23.97	326.4	1740	5.02	15.4	0.533	1.41	~~B~~ U
59	24.12	326.4	516	1.19	3.65	0.350	0.853	~~B~~ U
60	24.25	360.9	870	2.69	7.45	0.341	0.913	~~B~~ U
61	24.38	315.8	3334	11.6	36.7	0.512	2.59	~~B~~ U
62	24.62	360.9				2.49	167	
63	24.75	326.4	362	0.672	2.06	0.652	0.652	~~B~~ U
64	25.05	360.9	1556	4.40	12.2	0.335	2.07	~~B~~ U
65	25.18	350.5	855	1.57	4.48	0.1000	0.353	~~B~~ U
66	25.27	360.9	93	~~0.571~~	1.58	0.394	0.733	~~JB~~ U
67	25.31	336.8	424	1.39	4.13	0.264	0.317	~~B~~ U
68	25.39	326.4	17			0.900	167	
69	25.50	337.5	2868	6.99	20.7	0.707	4.87	~~B~~ U
70	25.61	360.9				1.04	167	
71	25.89	347.8	503	1.28	3.69	0.500	0.500	~~B~~ U
72	26.11	336.8	203	0.328	0.974	0.0860	0.0860	~~B~~ U
73	26.39	360.9	619	1.63	4.50	0.173	0.475	~~B~~ U
74	26.52	347.8	1443	2.88	8.27	0.535	1.65	~~B~~ U
75	26.68	360.9	2149	3.95	10.9	0.840	3.59	~~B~~ U
76	26.78	360.9				0.980	167	
77	27.20	360.9	354	~~1.23~~	3.40	0.511	2.07	~~JB~~ U
78	27.27	395.3	290	~~0.876~~	2.22	0.234	1.78	~~JB~~ U
79	27.49	360.9	43	0.192	0.531	0.166	0.183	~~B~~ U
80	27.61	360.9	317	0.461	1.28	0.113	0.317	~~B~~ U
82	27.87	360.9	2203	4.64	12.9	0.787	3.29	~~B~~ U
83	28.05	360.9	194	0.468	1.30	0.407	0.407	~~B~~ U
84	28.22	360.9	94	0.0563	0.156	0.0448	0.0448	~~B~~ U
85	28.60	395.3	360	1.64	4.14	0.602	1.34	~~B~~ U
87	28.86	395.3	69	~~0.313~~	0.791	0.110	0.487	~~JB~~ U
88	29.04	395.3	1217	~~1.70~~	4.31	0.617	4.39	~~JB~~ U
89	29.16	360.9	126			0.223	0.244	~~B~~
90	29.35	395.3	398	~~0.678~~	1.71	0.512	2.07	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.61	360.9	55	0.133	0.368	0.0953	0.119	~~B~~ U
92	29.96	394.3	67			0.177	0.573	~~B~~
93	30.33	394.3	792	~~0.950~~	2.41	0.867	3.90	~~JB~~ U
94	30.59	394.3	570	~~1.40~~	3.54	0.833	2.07	~~JB~~ U
95	30.91	382.2	340	~~0.917~~	2.40	0.623	0.960	~~JB~~ U
96	31.18	429.8	134	~~0.0360~~	0.0838	0.0278	0.0807	~~JB~~ U
98	31.32	395.3	42			0.533	0.533	
99	31.68	429.8	71			0.365	0.475	
100	31.96	395.3				0.375	0.680	
101	32.26	429.8	79			0.733	0.733	~~B~~
102	32.44	395.3	1590			1.09	7.40	~~B~~
103	32.69	395.3	110			0.487	0.512	~~B~~
104	32.95	395.3	34			0.263	0.292	~~B~~
105	33.31	429.8	103	~~0.297~~	0.691	0.165	0.524	~~JB~~ U
106	34.50	395.3	474	~~0.520~~	1.32	0.384	1.56	~~JB~~ U
107	34.76	395.3	184			0.284	0.512	~~B~~
108	35.65	429.8	112			0.295	0.295	~~B~~
109	35.88	429.8	545			1.63	5.12	~~B~~
110	36.42	429.8	718	~~1.31~~	3.06	1.23	5.24	~~JB~~ U
111	37.57	395.3	64			0.227	0.227	
112	39.09	429.8	166			0.328	0.673	~~B~~
113	39.68	464.2	143	~~0.467~~	1.01	0.355	0.601	~~JB~~ U
114	40.63	464.2				0.157	0.227	
115	42.03	429.8	357			0.720	2.19	~~B~~
116	42.95	429.8	72			0.415	0.415	
117	48.10	464.2	138			0.787	0.827	
118	54.16	498.6				0.157	0.157	
						4600	15200	

Concentration = ~~65,900~~ 35,164 ng/L

Total Nanomoles = 321

Average Molecular Weight = 205.2

Number of Calibrated Peaks Found = 104

Internal Standard Retention Time = 46.55 Minutes

Internal Standard Peak Area = 253367.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07365.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02D-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 06:31:10

Total PCBs in sample = ~~12,600~~ ~~10,175~~ 3282 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	26.53	30.94
Di	50.99	50.27
Tri	18.78	16.07
Tetra	2.95	2.23
Penta	0.49	0.33
Hexa	0.16	0.10
Hepta	0.07	0.04
Octa	0.02	0.01
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	3258.2885	92.6	92.5
A1242	23+24/31+28	250.8726	7.1	7.1
A1254SED	61/110	7.8848	0.2	
A1254BIO	***/###	12.5934		0.4
A1260	102/180	1.4917	0.0	0.0
A1268	115/194	0.3160	0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.49

Meta + Para Cl / biphenyl Residue = 0.42

TOTAL Cl / biphenyl Residue = 1.91

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07365.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02D-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 06:31:10
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.71	188.7	1002	3,260	17,300	146	548	~~B~~
3	12.70	188.7				126	5000	
4	12.84	188.7	762	80.1	425	1.59	6.40	~~B~~ U
5	13.44	223.1	4848	4,240	19,000	90.8	155	~~B~~ U
6	14.29	223.1	7020	23.6	106	0.447	1.10	~~B~~ U
7	14.62	223.1	981	373	1,670	47.0	86.8	~~B~~ U
8	14.81	223.1	4974	1,710	7,640	132	640	~~B~~ U
9	15.36	223.1				4.23	125	
10	15.45	257.5	1564	373	1,450	16.5	25.5	~~B~~ U
11	15.93	257.5	110			1.24	125	
12	15.97	223.1	897	22.4	101	1.74	125	J
13	16.16	223.1	1532	7.26	32.5	0.309	0.488	~~B~~ U
14	16.31	249.0	27668	171	687	0.489	3.38	~~B~~ U
15	16.40	257.5	1246	596	2,320	35.5	169	~~B~~ U
16	16.69	257.5	1317	197	765	19.1	19.1	~~B~~ U
17	16.98	257.5	1825	474	1,840	41.3	178	~~B~~ U
19	17.41	267.9	2778	~~11.8~~	44.2	1.06	125	~~JB~~ U
20	17.57	257.5	637	1.59	6.19	0.0950	0.0970	~~B~~ U
21	17.71	257.5	687	133	518	16.9	33.0	~~B~~ U
22	17.79	257.5	370	51.1	199	25.3	25.3	~~B~~ U
23	17.99	257.5	56631	184	713	0.720	3.77	~~B~~ U
24	18.04	257.5	23064	67.2	261	0.920	4.82	~~B~~ U
25	18.42	259.5	23118	83.9	323	0.605	3.63	~~B~~ U
26	18.62	258.7	14576	54.4	210	0.985	2.65	~~B~~ U
27	18.85	292.0	5789	17.5	59.9	0.525	0.815	~~B~~ U
28	18.99	257.5				0.905	125	
29	19.13	292.0	1641	5.81	19.9	0.585	0.585	~~B~~ U
30	19.25	257.5	211			2.41	125	
31	19.43	292.0	22484	104	356	0.900	4.36	~~B~~ U
32	19.60	292.0	22354	51.8	177	0.254	2.10	~~B~~ U
33	19.71	292.0	17544	28.8	98.6	0.336	0.915	~~B~~ U
34	19.77	292.0	3617	7.75	26.5	0.281	0.915	~~B~~ U
35	19.92	292.0	316			0.835	125	~~B~~
36	19.99	257.5	179	~~1.04~~	4.06	1.00	125	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	8014	22.9	78.5	0.610	3.93	~~B~~ U
38	20.30	272.4	7846	28.4	104	0.630	2.38	~~B~~ U
39	20.65	292.0	15970	36.9	126	0.740	3.75	~~B~~ U
41	20.81	326.4	1077	~~4.06~~	12.5	1.05	125	~~JB~~ U
42	20.91	292.0	2859	7.39	25.3	0.495	0.860	~~B~~ U
43	21.15	298.9	732	~~2.12~~	7.10	1.11	125	~~JB~~ U
44	21.33	298.9	767	1.45	4.84	0.116	0.201	~~B~~ U
45	21.49	292.0	1563	3.07	10.5	0.575	0.575	~~B~~ U
46	21.66	292.0	4279	6.29	21.5	0.239	1.74	~~B~~ U
47	21.79	292.0	6294	11.5	39.5	0.540	3.11	~~B~~ U
48	21.97	293.5	11725	33.1	113	1.34	6.60	~~B~~ U
49	22.21	324.7	2591	5.99	18.4	0.139	0.466	~~B~~ U
50	22.52	292.0	5362	9.52	32.6	0.433	3.20	~~B~~ U
51	22.76	326.4	4430	20.7	63.5	1.05	1.65	~~B~~ U
52	22.86	326.4	67			0.164	0.183	~~B~~
53	23.01	326.4	3055	6.65	20.4	0.274	1.65	~~B~~ U
54	23.21	326.4	1917	2.66	8.14	0.287	0.675	~~B~~ U
55	23.49	326.4	335	0.305	0.934	0.0750	0.0750	~~B~~ U
56	23.58	326.4	757	1.84	5.64	0.187	0.274	~~B~~ U
57	23.80	326.4	616	0.945	2.90	0.213	0.510	~~B~~ U
58	23.98	326.4	1794	3.35	10.3	0.400	1.06	~~B~~ U
59	24.13	326.4	591	0.891	2.73	0.263	0.640	~~B~~ U
60	24.25	360.9	905	1.83	5.06	0.256	0.685	~~B~~ U
61	24.38	315.8	3494	7.88	25.0	0.384	1.95	~~B~~ U
62	24.62	360.9				1.87	125	
63	24.74	326.4	392			0.489	0.489	~~B~~
64	25.05	360.9	1384	2.47	6.85	0.251	1.56	~~B~~ U
65	25.18	350.5	655	0.775	2.21	0.0750	0.265	~~B~~ U
66	25.22	360.9	197	0.683	1.89	0.296	0.550	~~B~~ U
67	25.33	336.8	313	0.678	2.01	0.198	0.238	~~B~~ U
68	25.38	326.4	18			0.675	125	
69	25.50	337.5	3486	5.62	16.6	0.530	3.66	~~B~~ U
70	25.61	360.9				0.780	125	
71	25.89	347.8	512	0.855	2.46	0.375	0.375	~~B~~ U
72	26.12	336.8	139	0.147	0.436	0.0645	0.0645	~~B~~ U
73	26.39	360.9	431	0.706	1.96	0.130	0.357	~~B~~ U
74	26.51	347.8	1467	1.89	5.43	0.401	1.24	~~B~~ U
75	26.67	360.9	2882	3.64	10.1	0.630	2.69	~~B~~ U
76	26.78	360.9				0.735	125	
77	27.20	360.9	514	~~1.18~~	3.27	0.384	1.56	~~JB~~ U
78	27.27	395.3	289	~~0.571~~	1.44	0.176	1.34	~~JB~~ U
79	27.47	360.9	81	0.252	0.697	0.125	0.137	~~B~~ U
80	27.64	360.9	420	0.397	1.10	0.0845	0.238	~~B~~ U
82	27.87	360.9	2447	3.34	9.25	0.590	2.47	~~B~~ U
83	28.04	360.9	277	0.429	1.19	0.306	0.306	~~B~~ U
84	28.26	360.9	94	0.0374	0.104	0.0336	0.0336	~~B~~ U
85	28.58	395.3	316	~~0.938~~	2.37	0.452	1.01	~~JB~~ U
87	28.90	395.3	45	~~0.150~~	0.380	0.0825	0.366	~~JB~~ U
88	29.04	395.3	1408	~~1.29~~	3.26	0.463	3.29	~~JB~~ U
89	29.17	360.9	156	~~0.170~~	0.472	0.168	0.183	~~JB~~ U
90	29.35	395.3	718	~~0.952~~	2.41	0.384	1.56	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.64	360.9	114	0.166	0.461	0.0715	0.0895	~~B~~ U
92	29.96	394.3	152			0.133	0.430	~~B~~
93	30.33	394.3	1068	~~0.989~~	2.51	0.650	2.93	~~JB~~ U
94	30.59	394.3	656	~~1.05~~	2.66	0.625	1.56	~~JB~~ U
95	30.90	382.2	430	0.755	1.98	0.467	0.720	~~B~~ U
96	31.17	429.8	195	~~0.0367~~	0.0853	0.0209	0.0605	~~JB~~ U
98	31.35	395.3	44			0.400	0.400	
99	31.71	429.8	94			0.274	0.357	
100	31.96	395.3				0.282	0.510	
101	32.25	429.8	79			0.550	0.550	~~B~~
102	32.44	395.3	2426	~~1.49~~	3.77	0.815	5.55	~~JB~~ U
103	32.69	395.3	103			0.366	0.384	~~B~~
104	33.04	395.3	140	0.282	0.713	0.198	0.219	~~B~~ U
105	33.34	429.8	142	~~0.260~~	0.604	0.124	0.393	~~JB~~ U
106	34.50	395.3	925	~~0.753~~	1.90	0.288	1.17	~~JB~~ U
107	34.77	395.3	399	0.391	0.989	0.213	0.384	~~B~~ U
108	35.67	429.8	84			0.222	0.222	~~B~~
109	35.90	429.8	787	~~1.24~~	2.89	1.22	3.84	~~JB~~ U
110	36.44	429.8	1008	~~1.40~~	3.26	0.925	3.93	~~JB~~ U
111	37.60	395.3				0.170	0.170	
112	39.16	429.8	275			0.246	0.505	~~B~~
113	39.64	464.2	115			0.266	0.451	~~B~~
114	40.63	464.2				0.118	0.170	
115	42.06	429.8	560			0.540	1.65	~~B~~
116	42.95	429.8				0.312	0.312	
117	48.07	464.2	127			0.590	0.620	
118	54.16	498.6				0.118	0.118	
						605	2000	

Concentration = ~~12,600~~ 3282 ng/L

Total Nanomoles = 57.2

Average Molecular Weight = 220.1

Number of Calibrated Peaks Found = 101

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 291435.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07367.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02D-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 07:38:18

Total PCBs in sample = ~~78,400~~ ng/L ~~75,777~~ 40,262

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	53.69	58.27
Di	40.59	37.25
Tri	5.09	4.05
Tetra	0.49	0.35
Penta	0.10	0.06
Hexa	0.03	0.02
Hepta	0.01	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	40195.1133	99.5	99.5
A1242	23+24/31+28	203.3380	0.5	0.5
A1254SED	61/110	9.2552	0.0	
A1254BIO	***/###	10.9104		0.0
A1260	102/180	0.2758	0.0	0.0
A1268	115/194	0.1901	0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.39

Meta + Para Cl / biphenyl Residue = 0.08

TOTAL Cl / biphenyl Residue = 1.47

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07367.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-02D-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 07:38:18
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	1629	40,200	213,000	1160	4380	~~B~~
3	12.73	188.7				126	5000	
4	12.83	188.7	46	~~1,890~~	10,000	636	2560	~~JB~~ U
5	13.47	223.1	4635	30,600	137,000	726	1240	~~B~~ U
6	14.31	223.1	86			179	438	~~B~~
7	14.62	223.1	158			376	694	~~B~~
8	14.81	223.1	710	~~1,140~~	5,110	1060	5120	~~JB~~ U
9	15.36	223.1				4.23	125	
10	15.45	257.5	1053	1,880	7,300	132	204	~~B~~ U
11	15.92	257.5	99			1.24	125	
12	15.97	223.1	2184	55.8	250	1.74	125	J
13	16.16	223.1	2082	10.1	45.2	0.309	0.488	~~B~~ U
14	16.31	249.0	32998	208	837	0.489	3.38	~~B~~ U
15	16.39	257.5	143	~~417~~	1,620	284	1350	~~JB~~ U
16	16.69	257.5	743	837	3,250	152	152	~~B~~ U
17	16.97	257.5	213			330	1430	~~B~~
19	17.41	267.9	7934	~~34.5~~	129	1.06	125	~~JB~~ U
20	17.57	257.5	536	1.37	5.32	0.0950	0.0970	~~B~~ U
21	17.72	257.5	229	280	1,090	135	264	~~B~~ U
22	17.80	257.5	158			202	202	~~B~~
23	17.99	257.5	48250	159	619	0.720	3.77	~~B~~ U
24	18.04	257.5	14973	43.9	170	0.920	4.82	~~B~~ U
25	18.43	259.5	31988	119	458	0.605	3.63	~~B~~ U
26	18.62	258.7	13120	49.9	193	0.985	2.65	~~B~~ U
27	18.85	292.0	6631	20.5	70.2	0.525	0.815	~~B~~ U
28	18.99	257.5	279	1.59	6.16	0.905	125	J
29	19.13	292.0	912	3.27	11.2	0.585	0.585	~~B~~ U
30	19.26	257.5	731	4.46	17.3	2.41	125	J
31	19.43	292.0	28178	133	457	0.900	4.36	~~B~~ U
32	19.60	292.0	20548	48.5	166	0.254	2.10	~~B~~ U
33	19.71	292.0	21438	36.0	123	0.336	0.915	~~B~~ U
34	19.76	292.0	2701	5.81	19.9	0.281	0.915	~~B~~ U
35	19.92	292.0	500	~~1.15~~	3.94	0.835	125	~~JB~~ U
36	19.99	257.5	187	1.11	4.33	1.00	125	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	5138	14.5	49.6	0.610	3.93	~~B~~ U
38	20.29	272.4	7990	29.6	108	0.630	2.38	~~B~~ U
39	20.65	292.0	14044	32.9	113	0.740	3.75	~~B~~ U
41	20.81	326.4	2460	~~9.47~~	29.0	1.05	125	~~JB~~ U
42	20.91	292.0	1383	3.52	12.1	0.495	0.860	~~B~~ U
43	21.16	298.9	931	~~2.75~~	9.21	1.11	125	~~JB~~ U
44	21.37	298.9	987	1.89	6.31	0.116	0.201	~~B~~ U
45	21.49	292.0	1943	3.89	13.3	0.575	0.575	~~B~~ U
46	21.66	292.0	3858	5.72	19.6	0.239	1.74	~~B~~ U
47	21.80	292.0	3636	6.20	21.2	0.540	3.11	~~B~~ U
48	21.97	293.5	10824	31.0	106	1.34	6.60	~~B~~ U
49	22.21	324.7	3383	7.99	24.6	0.139	0.466	~~B~~ U
50	22.51	292.0	2820	4.48	15.3	0.433	3.20	~~B~~ U
51	22.77	326.4	5860	28.1	86.1	1.05	1.65	~~B~~ U
52	22.86	326.4	93	0.215	0.658	0.164	0.183	~~B~~ U
53	23.00	326.4	3169	7.05	21.6	0.274	1.65	~~B~~ U
54	23.21	326.4	1776	2.50	7.66	0.287	0.675	~~B~~ U
55	23.49	326.4	499	0.460	1.41	0.0750	0.0750	~~B~~ U
56	23.58	326.4	1066	2.63	8.06	0.187	0.274	~~B~~ U
57	23.80	326.4	460	0.698	2.14	0.213	0.510	~~B~~ U
58	23.97	326.4	1781	3.39	10.4	0.400	1.06	~~B~~ U
59	24.13	326.4	372	~~0.540~~	1.65	0.263	0.640	~~JB~~ U
60	24.25	360.9	1079	2.22	6.15	0.256	0.685	~~B~~ U
61	24.38	315.8	3998	9.26	29.3	0.384	1.95	~~B~~ U
62	24.66	360.9				1.87	125	
63	24.75	326.4	136			0.489	0.489	~~B~~
64	25.05	360.9	2165	4.15	11.5	0.251	1.56	~~B~~ U
65	25.18	350.5	1271	1.56	4.45	0.0750	0.265	~~B~~ U
66	25.23	360.9	125	~~0.491~~	1.36	0.296	0.550	~~JB~~ U
67	25.33	336.8	574	1.25	3.71	0.198	0.238	~~B~~ U
68	25.38	326.4	53			0.675	125	
69	25.49	337.5	2985	4.72	14.0	0.530	3.66	~~B~~ U
70	25.61	360.9				0.780	125	
71	25.89	347.8	630	1.07	3.07	0.375	0.375	~~B~~ U
72	26.10	336.8	327	0.350	1.04	0.0645	0.0645	~~B~~ U
73	26.38	360.9	868	1.53	4.25	0.130	0.357	~~B~~ U
74	26.52	347.8	1375	1.79	5.16	0.401	1.24	~~B~~ U
75	26.67	360.9	2066	~~2.34~~	6.48	0.630	2.69	~~JB~~ U
76	26.78	360.9				0.735	125	
77	27.20	360.9	274	~~0.605~~	1.68	0.384	1.56	~~JB~~ U
78	27.27	395.3	475	~~0.954~~	2.41	0.176	1.34	~~JB~~ U
79	27.47	360.9	66	0.206	0.571	0.125	0.137	~~B~~ U
80	27.57	360.9	458	0.442	1.22	0.0845	0.238	~~B~~ U
82	27.88	360.9	2705	3.85	10.7	0.590	2.47	~~B~~ U
83	28.06	360.9	160			0.306	0.306	~~B~~
84	28.25	360.9	47			0.0336	0.0336	~~B~~
85	28.59	395.3	440	1.33	3.36	0.452	1.01	~~B~~ U
87	28.90	395.3	63	~~0.198~~	0.502	0.0825	0.366	~~JB~~ U
88	29.05	395.3	1508	~~1.50~~	3.78	0.463	3.29	~~JB~~ U
89	29.18	360.9	151	~~0.169~~	0.467	0.168	0.183	~~JB~~ U
90	29.36	395.3	427	~~0.466~~	1.18	0.384	1.56	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.64	360.9	32			0.0715	0.0895	~~B~~
92	29.93	394.3	88			0.133	0.430	~~B~~
93	30.32	394.3	688			0.650	2.93	~~B~~
94	30.60	394.3	691	~~1.14~~	2.88	0.625	1.56	~~JB~~ U
95	30.91	382.2	363	~~0.651~~	1.70	0.467	0.720	~~JB~~ U
96	31.20	429.8	173	~~0.0321~~	0.0746	0.0209	0.0605	~~JB~~ U
98	31.34	395.3	71			0.400	0.400	
99	31.68	429.8	110			0.274	0.357	
100	31.96	395.3				0.282	0.510	
101	32.30	429.8	47			0.550	0.550	~~B~~
102	32.44	395.3	1656			0.815	5.55	~~B~~
103	32.78	395.3	85			0.366	0.384	~~B~~
104	32.99	395.3	84			0.198	0.219	~~B~~
105	33.30	429.8	101	~~0.200~~	0.466	0.124	0.393	~~JB~~ U
106	34.50	395.3	596	~~0.448~~	1.13	0.288	1.17	~~JB~~ U
107	34.78	395.3	242	~~0.221~~	0.560	0.213	0.384	~~JB~~ U
108	35.67	429.8	24			0.222	0.222	~~B~~
109	35.87	429.8	704			1.22	3.84	~~B~~
110	36.42	429.8	812	~~0.973~~	2.26	0.925	3.93	~~JB~~ U
111	37.59	395.3	50			0.170	0.170	
112	39.13	429.8	112			0.246	0.505	~~B~~
113	39.72	464.2	200	~~0.438~~	0.945	0.266	0.451	~~JB~~ U
114	40.62	464.2				0.118	0.170	
115	42.06	429.8	432			0.540	1.65	~~B~~
116	42.95	429.8				0.312	0.312	
117	48.19	464.2	49			0.590	0.620	
118	54.16	498.6				0.118	0.118	
						5410	18200	

Concentration = ~~78,400~~ 40,262 ng/L

Total Nanomoles = 383

Average Molecular Weight = 204.8

Number of Calibrated Peaks Found = 103

Internal Standard Retention Time = 46.55 Minutes

Internal Standard Peak Area = 291317.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07369.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03D-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 08:45:20

Total PCBs in sample = ~~14,200~~ 14,366 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	30.59	35.31
Di	48.61	47.42
Tri	17.83	15.09
Tetra	2.44	1.83
Penta	0.40	0.27
Hexa	0.10	0.06
Hepta	0.03	0.01
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	4222.2658	94.7	94.6
A1242	23+24/31+28	231.4225	5.2	5.2
A1254SED	61/110	6.6466	0.1	
A1254BIO	***/###	8.2081		0.2
A1260	102/180	0.0553	0.0	0.0
A1268	115/194		0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.46

Meta + Para Cl / biphenyl Residue = 0.39

TOTAL Cl / biphenyl Residue = 1.85

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07369.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03D-S3

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 08:45:20
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.71	188.7	1247	4,220	22,400	146	548	~~B~~
3	12.70	188.7				126	5000	
4	12.84	188.7	1110	122	648	1.59	6.40	~~B~~
5	13.44	223.1	4913	4,450	20,000	90.8	155	~~B~~ U
6	14.29	223.1	7652	27.0	121	0.447	1.10	~~B~~ U
7	14.62	223.1	1061	421	1,890	47.0	86.8	~~B~~ U
8	14.81	223.1	5386	1,920	8,630	132	640	~~B~~ U
9	15.36	223.1				4.23	125	
10	15.45	257.5	1665	412	1,600	16.5	25.5	~~B~~ U
11	15.93	257.5	115			1.24	125	
12	15.97	223.1	927	24.2	109	1.74	125	J
13	16.16	223.1	1698	8.41	37.7	0.309	0.488	~~B~~ U
14	16.30	249.0	27100	175	703	0.489	3.38	~~B~~ U
15	16.39	257.5	1359	676	2,620	35.5	169	~~B~~ U
16	16.69	257.5	1397	217	841	19.1	19.1	~~B~~ U
17	16.98	257.5	1982	539	2,090	41.3	178	~~B~~ U
19	17.41	267.9	3000	~~13.4~~	49.9	1.06	125	~~JB~~ U
20	17.57	257.5	530	1.39	5.38	0.0950	0.0970	~~B~~ U
21	17.72	257.5	631	127	491	16.9	33.0	~~B~~ U
22	17.80	257.5	397	57.4	223	25.3	25.3	~~B~~ U
23	18.00	257.5	1284	~~179~~	693	36.0	188	~~JB~~ U
24	18.03	257.5	17479	52.9	205	0.920	4.82	~~B~~ U
25	18.43	259.5	20155	76.3	294	0.605	3.63	~~B~~ U
26	18.62	258.7	12316	47.9	185	0.985	2.65	~~B~~ U
27	18.85	292.0	5477	17.3	59.2	0.525	0.815	~~B~~ U
28	19.00	257.5	47			0.905	125	
29	19.13	292.0	1537	5.68	19.5	0.585	0.585	~~B~~ U
30	19.26	257.5	186			2.41	125	
31	19.43	292.0	22640	109	375	0.900	4.36	~~B~~ U
32	19.60	292.0	22775	55.1	189	0.254	2.10	~~B~~ U
33	19.71	292.0	18497	31.7	109	0.336	0.915	~~B~~ U
34	19.77	292.0	2703	5.97	20.4	0.281	0.915	~~B~~ U
35	19.92	292.0	262			0.835	125	~~B~~
36	19.99	257.5	69			1.00	125	~~B~~

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	5424	15.8	54.1	0.610	3.93	~~B~~ U
38	20.29	272.4	6022	22.7	83.3	0.630	2.38	~~B~~ U
39	20.64	292.0	13858	33.3	114	0.740	3.75	~~B~~ U
41	20.81	326.4	1197	~~4.72~~	14.5	1.05	125	~~JB~~ U
42	20.91	292.0	2356	6.33	21.7	0.495	0.860	~~B~~ U
43	21.16	298.9	760	~~2.30~~	7.70	1.11	125	~~JB~~ U
44	21.38	298.9	582	1.16	3.87	0.116	0.201	~~B~~ U
45	21.49	292.0	1380	2.83	9.70	0.575	0.575	~~B~~ U
46	21.66	292.0	2802	4.11	14.1	0.239	1.74	~~B~~ U
47	21.80	292.0	3504	6.12	21.0	0.540	3.11	~~B~~ U
48	21.97	293.5	9174	26.6	90.6	1.34	6.60	~~B~~ U
49	22.21	324.7	2634	6.36	19.6	0.139	0.466	~~B~~ U
50	22.52	292.0	2807	4.61	15.8	0.433	3.20	~~B~~ U
51	22.76	326.4	4463	21.8	66.9	1.05	1.65	~~B~~ U
52	22.84	326.4	30			0.164	0.183	~~B~~
53	23.01	326.4	2063	4.57	14.0	0.274	1.65	~~B~~ U
54	23.21	326.4	1347	1.91	5.85	0.287	0.675	~~B~~ U
55	23.49	326.4	308	0.293	0.898	0.0750	0.0750	~~B~~ U
56	23.58	326.4	700	1.78	5.44	0.187	0.274	~~B~~ U
57	23.80	326.4	445	0.692	2.12	0.213	0.510	~~B~~ U
58	23.97	326.4	1346	2.57	7.87	0.400	1.06	~~B~~ U
59	24.13	326.4	366	~~0.547~~	1.68	0.263	0.640	~~JB~~ U
60	24.25	360.9	651	1.38	3.82	0.256	0.685	~~B~~ U
61	24.38	315.8	2841	6.65	21.0	0.384	1.95	~~B~~ U
62	24.62	360.9				1.87	125	
63	24.74	326.4	200			0.489	0.489	~~B~~
64	25.04	360.9	1189	2.18	6.04	0.251	1.56	~~B~~ U
65	25.18	350.5	616	0.761	2.17	0.0750	0.265	~~B~~ U
66	25.22	360.9	78	~~0.358~~	0.993	0.296	0.550	~~JB~~ U
67	25.32	336.8	361	0.812	2.41	0.198	0.238	~~B~~ U
68	25.41	326.4	18			0.675	125	
69	25.49	337.5	2384	~~3.64~~	10.8	0.530	3.66	~~JB~~ U
70	25.61	360.9				0.780	125	
71	25.88	347.8	361	0.636	1.83	0.375	0.375	~~B~~ U
72	26.12	336.8	112	0.125	0.370	0.0645	0.0645	~~B~~ U
73	26.39	360.9	470	0.816	2.26	0.130	0.357	~~B~~ U
74	26.52	347.8	1012	1.31	3.78	0.401	1.24	~~B~~ U
75	26.68	360.9	1834	~~2.04~~	5.66	0.630	2.69	~~JB~~ U
76	26.78	360.9				0.735	125	
77	27.20	360.9	239	~~0.534~~	1.48	0.384	1.56	~~JB~~ U
78	27.27	395.3	163	~~0.338~~	0.855	0.176	1.34	~~JB~~ U
79	27.53	360.9	53	0.164	0.454	0.125	0.137	~~B~~ U
80	27.64	360.9	177	~~0.176~~	0.492	0.0845	0.238	~~JB~~ U
82	27.87	360.9	1888	2.52	6.99	0.590	2.47	~~B~~ U
83	28.05	360.9	114			0.306	0.306	~~B~~
84	28.27	360.9	42			0.0336	0.0336	~~B~~
85	28.60	395.3	328	1.02	2.57	0.452	1.01	~~B~~ U
87	28.90	395.3	41	~~0.146~~	0.369	0.0825	0.366	~~JB~~ U
88	29.04	395.3	1120	~~0.873~~	2.21	0.463	3.29	~~JB~~ U
89	29.13	360.9	191	0.220	0.610	0.168	0.183	~~B~~ U
90	29.34	395.3	383	~~0.411~~	1.04	0.384	1.56	~~JB~~ U

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.59	360.9	33			0.0715	0.0895	~~B~~
92	29.97	394.3	74			0.133	0.430	~~B~~
93	30.33	394.3	570			0.650	2.93	~~B~~
94	30.60	394.3	501	~~0.799~~	2.03	0.625	1.56	~~JB~~ U
95	30.89	382.2	209			0.467	0.720	~~B~~
96	31.21	429.8	121			0.0209	0.0605	~~B~~
98	31.30	395.3	34			0.400	0.400	
99	31.70	429.8	81			0.274	0.357	
100	31.96	395.3				0.282	0.510	
101	32.28	429.8	110			0.550	0.550	~~B~~
102	32.44	395.3	1457			0.815	5.55	~~B~~
103	32.68	395.3	79			0.366	0.384	~~B~~
104	33.01	395.3	43			0.198	0.219	~~B~~
105	33.31	429.8	84	~~0.176~~	0.409	0.124	0.393	~~JB~~ U
106	34.50	395.3	320			0.288	1.17	~~B~~
107	34.77	395.3	140			0.213	0.384	~~B~~
108	35.68	429.8	60			0.222	0.222	~~B~~
109	35.89	429.8	483			1.22	3.84	~~B~~
110	36.43	429.8	568			0.925	3.93	~~B~~
111	37.56	395.3	43			0.170	0.170	
112	39.20	429.8	222			0.246	0.505	~~B~~
113	39.72	464.2	124	~~0.271~~	0.583	0.266	0.451	~~JB~~ U
114	40.63	464.2				0.118	0.170	
115	42.06	429.8	217			0.540	1.65	~~B~~
116	42.95	429.8				0.312	0.312	
117	48.18	464.2	200			0.590	0.620	
118	54.16	498.6				0.118	0.118	
						640	2190	

Concentration = ~~14,200~~ 43,600 ng/L

Total Nanomoles = 65.2

Average Molecular Weight = 217.8

Number of Calibrated Peaks Found = 103

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 279031.0

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC16\AH07371.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03D-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 09:52:31

Total PCBs in sample = ~~86,900~~ ~~83,197~~ 48163 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	55.34	59.87
Di	39.10	35.78
Tri	4.97	3.95
Tetra	0.48	0.34
Penta	0.09	0.06
Hexa	0.02	0.01
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	47579.7405	99.5	99.5
A1242	23+24/31+28	225.8487	0.5	0.5
A1254SED	61/110	8.4449	0.0	
A1254BIO	***/###	4.0954		0.0
A1260	102/180		0.0	0.0
A1268	115/194		0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.39

Meta + Para Cl / biphenyl Residue = 0.06

TOTAL Cl / biphenyl Residue = 1.45

NOTE: Hudson River Bias Correction applied.

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC16\AH07371.ARS

Customer : Blasland, Bouck & Lee
Sample Description : DRET-03D-S4B

Comment : GE Treatability Study; COC 07/17/04
Date Acquired : 07/30/2004 09:52:31
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
2	11.70	188.7	1520	47,600	252,000	1160	4380	~~B~~
3	12.70	188.7				251	10000	
4	12.84	188.7	2277	481	2,550	3.18	12.8	~~B~~
5	13.47	223.1	3827	31,900	143,000	726	1240	~~B~~ U
6	14.29	223.1	11575	78.3	351	0.894	2.19	~~B~~ U
7	14.62	223.1	211	~~630~~	2,820	376	694	~~JB~~ U
8	14.81	223.1	580	~~1,210~~	5,400	1060	5120	~~JB~~ U
9	15.36	223.1				8.45	250	
10	15.45	257.5	882	2,000	7,750	132	204	~~B~~ U
11	15.93	257.5	104			2.47	250	
12	15.97	223.1	789	39.4	177	3.47	250	J
13	16.16	223.1	1234	11.7	52.2	0.617	0.975	~~B~~ U
14	16.31	249.0	19570	241	966	0.978	6.76	~~B~~ U
15	16.39	257.5	15650	266	1,030	1.42	6.76	~~B~~ U
16	16.69	257.5	564	804	3,120	152	152	~~B~~ U
17	16.98	257.5	34859	342	1,330	1.65	7.13	~~B~~ U
19	17.41	267.9	4971	42.3	158	2.12	250	~~JB~~
20	17.58	257.5	205	1.04	4.03	0.190	0.194	~~B~~ U
21	17.72	257.5	166	~~250~~	969	135	264	~~JB~~ U
22	17.79	257.5	5194	27.5	107	1.01	1.01	~~B~~ U
23	17.99	257.5	29502	190	736	1.44	7.53	~~B~~ U
24	18.04	257.5	6695	36.3	141	1.84	9.64	~~B~~ U
25	18.43	259.5	18741	135	522	1.21	7.26	~~B~~ U
26	18.62	258.7	7212	52.9	204	1.97	5.30	~~B~~ U
27	18.85	292.0	4410	26.4	90.4	1.05	1.63	~~B~~ U
28	18.99	257.5	153			1.81	250	
29	19.13	292.0	564	3.92	13.4	1.17	1.17	~~B~~ U
30	19.26	257.5	392			4.81	250	
31	19.43	292.0	17125	157	539	1.80	8.72	~~B~~ U
32	19.60	292.0	12255	56.0	192	0.508	4.20	~~B~~ U
33	19.71	292.0	12752	41.6	142	0.671	1.83	~~B~~ U
34	19.76	292.0	1370	5.38	18.4	0.562	1.83	~~B~~ U
35	19.91	292.0	318			1.67	250	~~B~~
36	20.00	257.5	91			2.00	250	~~B~~

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
37	20.17	292.0	2545	12.5	42.9	1.22	7.86	~~B~~ U
38	20.30	272.4	4163	29.7	109	1.26	4.75	~~B~~ U
39	20.65	292.0	7661	33.7	115	1.48	7.49	~~B~~ U
41	20.81	326.4	1369	~~10.3~~	31.6	2.09	250	~~JB~~ U
42	20.91	292.0	715	3.33	11.4	0.990	1.72	~~B~~ U
43	21.16	298.9	560	~~3.24~~	10.8	2.21	250	~~JB~~ U
44	21.37	298.9	406	1.57	5.25	0.232	0.402	~~B~~ U
45	21.49	292.0	953	3.76	12.9	1.15	1.15	~~B~~ U
46	21.66	292.0	1815	4.60	15.7	0.478	3.47	~~B~~ U
47	21.80	292.0	1450	~~3.08~~	10.6	1.08	6.21	~~JB~~ U
48	21.97	293.5	5534	28.4	96.7	2.67	13.2	~~B~~ U
49	22.21	324.7	1934	8.89	27.4	0.278	0.932	~~B~~ U
50	22.52	292.0	1062	~~1.61~~	5.51	0.865	6.40	~~JB~~ U
51	22.77	326.4	3118	28.9	88.5	2.09	3.29	~~B~~ U
52	22.86	326.4				0.328	0.366	~~B~~
53	23.00	326.4	1411	5.66	17.3	0.548	3.29	~~B~~ U
54	23.21	326.4	769	1.93	5.92	0.573	1.35	~~B~~ U
55	23.50	326.4	228	0.418	1.28	0.150	0.150	~~B~~ U
56	23.58	326.4	607	2.95	9.05	0.373	0.548	~~B~~ U
57	23.80	326.4	232	~~0.599~~	1.83	0.426	1.02	~~JB~~ U
58	23.98	326.4	1003	3.49	10.7	0.799	2.12	~~B~~ U
59	24.12	326.4	173			0.525	1.28	~~B~~
60	24.25	360.9	460	1.88	5.20	0.511	1.37	~~B~~ U
61	24.38	315.8	1942	8.44	26.7	0.768	3.89	~~B~~ U
62	24.62	360.9				3.73	250	
63	24.73	326.4	103			0.978	0.978	~~B~~
64	25.05	360.9	1035	3.50	9.69	0.502	3.11	~~B~~ U
65	25.18	350.5	600	1.41	4.02	0.150	0.530	~~B~~ U
66	25.25	360.9	42			0.591	1.10	~~B~~
67	25.32	336.8	291	1.26	3.74	0.396	0.475	~~B~~ U
68	25.40	326.4	13			1.35	250	
69	25.49	337.5	1198	~~2.10~~	6.24	1.06	7.31	~~JB~~ U
70	25.61	360.9				1.56	250	
71	25.88	347.8	270	0.922	2.65	0.750	0.750	~~B~~ U
72	26.11	336.8	187	0.394	1.17	0.129	0.129	~~B~~ U
73	26.40	360.9	454	1.49	4.13	0.260	0.713	~~B~~ U
74	26.52	347.8	586	~~1.30~~	3.73	0.802	2.48	~~JB~~ U
75	26.68	360.9	502			1.26	5.38	~~B~~
76	26.78	360.9				1.47	250	
77	27.23	360.9	82			0.767	3.11	~~B~~
78	27.27	395.3	189	~~0.748~~	1.89	0.351	2.67	~~JB~~ U
79	27.47	360.9	124	0.796	2.21	0.249	0.274	~~B~~ U
80	27.57	360.9	223	~~0.426~~	1.18	0.169	0.475	~~JB~~ U
82	27.88	360.9	1089	~~1.99~~	5.52	1.18	4.93	~~JB~~ U
83	28.05	360.9	47			0.611	0.611	~~B~~
84	28.27	360.9	35			0.0672	0.0672	~~B~~
85	28.59	395.3	259	~~1.53~~	3.88	0.903	2.01	~~JB~~ U
87	28.86	395.3	36	~~0.258~~	0.654	0.165	0.731	~~JB~~ U
88	29.04	395.3	510			0.926	6.58	~~B~~
89	29.13	360.9	29			0.335	0.366	~~B~~
90	29.33	395.3	136			0.768	3.11	~~B~~

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount ng/L	Picomoles/L Sample	MDL ng/L	RL ng/L	Qual
91	29.64	360.9	56	0.181	0.501	0.143	0.179	~~B~~ U
92	29.94	394.3	66			0.265	0.859	~~B~~
93	30.33	394.3	157			1.30	5.85	~~B~~
94	30.61	394.3	279			1.25	3.11	~~B~~
95	30.90	382.2	148			0.934	1.44	~~B~~
96	31.17	429.8	77			0.0417	0.121	~~B~~
98	31.36	395.3	36			0.799	0.799	
99	31.73	429.8	58			0.547	0.713	
100	31.96	395.3				0.563	1.02	
101	32.24	429.8	47			1.10	1.10	~~B~~
102	32.45	395.3	372			1.63	11.1	~~B~~
103	32.70	395.3	95			0.731	0.768	~~B~~
104	33.02	395.3	21			0.395	0.438	~~B~~
105	33.37	429.8	81	~~0.332~~	0.772	0.247	0.786	~~JB~~ U
106	34.50	395.3	40			0.576	2.34	~~B~~
107	34.76	395.3	40			0.426	0.768	~~B~~
108	35.63	429.8	72			0.443	0.443	~~B~~
109	35.89	429.8	163			2.44	7.68	~~B~~
110	36.45	429.8	210			1.85	7.86	~~B~~
111	37.61	395.3	32			0.340	0.340	
112	39.15	429.8	98			0.492	1.01	~~B~~
113	39.66	464.2	91			0.532	0.902	~~B~~
114	40.63	464.2				0.236	0.340	
115	42.14	429.8	109			1.08	3.29	~~B~~
116	42.95	429.8				0.623	0.623	
117	48.13	464.2				1.18	1.24	
118	54.16	498.6				0.236	0.236	
						3820	12300	

Concentration = 86,900 ng/L

Total Nanomoles = 425

Average Molecular Weight = 204.2

Number of Calibrated Peaks Found = 101

Internal Standard Retention Time = 46.56 Minutes

Internal Standard Peak Area = 297881.0

NOTE: Hudson River Bias Correction applied.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-001 Matrix.....: WATER
Date Sampled...: 07/15/04 Date Received..: 07/19/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	0.31 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJG1A2
		Dilution Factor: 1		Analysis Time..: 11:37	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205038						
Silver	0.23 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AA
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	14400 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AC
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	6.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AD
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	247 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AE
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.78 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AF
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	13400 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AG
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	2.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AH
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	10.4 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AJ
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	77.4 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AK
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	44.1	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AL
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	23000	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AM
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3930	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AN
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5040	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AP
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	498	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AQ
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9210	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AR
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	32.2	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AT
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	77.9	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AU
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.64 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AV
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.48 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AW
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	1.1 B J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1AX
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	31.4 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1A0
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	217 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJG1A1
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-002
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205036						
Silver	0.33 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AA
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	46.7	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AC
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.60 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AD
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	15.0	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AE
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AF
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	10100	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AG
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	ND	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AH
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.31 B	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AJ
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	2.2 ND J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AK
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.2 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AL
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	96.0 ~~J~~	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AM
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	754	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AN
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1580	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AP
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	14.3 ~~J~~,~~E~~	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AQ
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8540	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AR
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	2.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AT
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	0.42 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AU
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AV
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	0.30 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AW
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	0.76 B J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1AX
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1A0
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	8.8 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJJ1A1
		Dilution Factor: 1		Analysis Time..: 12:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJJ1A2
		Dilution Factor: 1		Analysis Time..: 11:37	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-003
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	4.9 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJL1AD
		Dilution Factor: 1		Analysis Time..: 11:39	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205038						
Silver	0.87 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AE
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	20100	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AF
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.5	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AG
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	242	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AH
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.69 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AJ
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	13200	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AK
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	39.1	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AL
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	8.6 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AM
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	604 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AN
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	99.3	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AP
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	19000	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AQ
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2810	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AR
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5140	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AT
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	236	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AU
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9260	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AV
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	26.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AW
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	730	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AX
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.87 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1A0
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.24 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1A1
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	10.4 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1A2
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	72.7 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AA
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	594 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJL1AC
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-004
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205036						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AF
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	63.0 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AG
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	1.1 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AH
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	42.6 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AJ
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AK
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	9430 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AL
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	~~0.30 B,J~~ ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AM
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.20 B J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AN
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	4.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AP
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.8 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AQ
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	210 ~~J~~	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AR
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	745	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AT
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1640	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AU
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	8.6 ~~J~~	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AV
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8850	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AW
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.2	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AX
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	17.7	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1A0
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1A1
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1A2
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	9.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1A3
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	3.9 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AA
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	32.1 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJM1AC
		Dilution Factor: 1		Analysis Time..: 12:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJM1AD
		Dilution Factor: 1		Analysis Time..: 11:38	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-005
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	0.38 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJN1AD
		Dilution Factor: 1		Analysis Time..: 11:41	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205038						
Silver	0.22 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AE
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	13300	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AF
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.7	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AG
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	221	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AH
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.72 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AJ
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	12500	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AK
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	2.0	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AL
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	9.4 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AM
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	71.6	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AN
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	40.9	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AP
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	21200	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AQ
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3700	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AR
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	4700	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AT
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	454	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AU
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8500	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AV
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	30.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AW
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	70.3	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AX
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1A0
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-005

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.18 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1A1
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	0.81 B J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1A2
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	28.0 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AA
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	202 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJN1AC
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-006
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205036						
Silver	ND	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AF
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	133	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AG
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.52 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AH
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	15.4	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AJ
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AK
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	10200	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AL
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	ND	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AM
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.12 B	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AN
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	2.4	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AP
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-006

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AQ
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	201 J	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AR
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	740	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AT
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1590	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AU
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	12.2 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AV
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8430	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AW
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	2.5	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AX
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	0.73 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1A0
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1A1
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1A2
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-006

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	0.54 B J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1A3
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AA
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	10.8 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJP1AC
		Dilution Factor: 1		Analysis Time..: 12:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJP1AD
		Dilution Factor: 1		Analysis Time..: 11:40	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-007
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	5.2 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJQ1AD
		Dilution Factor: 1		Analysis Time..: 11:42	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205038						
Silver	0.95 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AE
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	20700	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AF
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AG
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	250	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AH
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.72 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AJ
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	13100	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AK
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	40.4	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AL
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	8.8 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AM
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	618 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AN
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	101	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AP
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	19200	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AQ
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3050	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AR
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5140	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AT
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	235	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AU
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9000	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AV
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	31.5	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AW
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	750	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AX
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.84 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1A0
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.21 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1A1
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	11.2	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1A2
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	76.3	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AA
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	616	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJQ1AC
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-008
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205036						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AF
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	92.6 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AG
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	1.0 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AH
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	42.6 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AJ
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AK
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	9620 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AL
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	~~0.33 B,J~~ ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AM
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.19 B J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AN
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	5.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AP
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AQ
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	209 ~~J~~	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AR
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	747	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AT
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1670	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AU
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	8.9 ~~J~~	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AV
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9000	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AW
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.4	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AX
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	16.1	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1A0
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1A1
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1A2
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	9.6 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1A3
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	4.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AA
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	31.2 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJR1AC
		Dilution Factor: 1		Analysis Time..: 12:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4211044

Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJR1AD
		Dilution Factor: 1		Analysis Time..: 11:42	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-009
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	0.34 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJT1AD
		Dilution Factor: 1		Analysis Time..: 11:44	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205038						
Silver	0.19 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AE
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	13500	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AF
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.8	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AG
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	217	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AH
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.76 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AJ
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	12900	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AK
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	2.0	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AL
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	9.6 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AM
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-009

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	72.2 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AN
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	41.5	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AP
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	21300	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AQ
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3690	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AR
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	4760	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AT
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	467	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AU
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8880	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AV
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	30.4	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AW
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	71.1	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AX
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.80 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1A0
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S1

TOTAL Metals

Lot-Sample #...: C4G190153-009

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.16 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1A1
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	0.79 B	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1A2
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	27.8	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AA
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	199 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJT1AC
		Dilution Factor: 1		Analysis Time..: 14:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-010
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205036						
Silver	ND	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AF
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	39.7	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AG
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.36 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AH
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	14.7	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AJ
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AK
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	10600	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AL
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	ND	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AM
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.079 B	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AN
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	2.2	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AP
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-010 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.4 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AQ
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	124 ~~J~~	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AR
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	795	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AT
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1670	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AU
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	11.6 ~~J~~	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AV
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9310	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AW
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	2.3	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AX
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	0.74 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1A0
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1A1
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1A2
		Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S1

DISSOLVED Metals

Lot-Sample #...: C4G190153-010

Matrix.....: WATER

PARAMETER	RESULT		REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	0.57 B	J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1A3
			Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
			Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	ND	J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AA
			Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
			Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	9.9	J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJV1AC
			Dilution Factor: 1		Analysis Time..: 12:44	Analyst ID.....: 400149	
			Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044							
Mercury	ND	J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJV1AD
			Dilution Factor: 1		Analysis Time..: 11:43	Analyst ID.....: 031043	
			Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-011
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	5.4 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJW1AD
		Dilution Factor: 1		Analysis Time..: 11:46	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205038						
Silver	0.96 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AE
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	22700	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AF
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	6.1	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AG
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	267	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AH
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.79 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AJ
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	13600	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AK
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	44.5	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AL
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	9.6 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AM
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-011

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	678 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AN
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	108	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AP
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	21000	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AQ
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3150	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AR
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5600	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AT
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	265	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AU
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9630	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AV
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	29.7	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AW
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	818	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AX
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.86 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1A0
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S2

TOTAL Metals

Lot-Sample #...: C4G190153-011

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.21 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1A1
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	11.8	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1A2
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	82.2	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AA
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	648 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJW1AC
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-012
Date Sampled...: 07/15/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205036						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AF
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	92.3 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AG
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.71 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AH
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	45.1 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AJ
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AK
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	9300 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AL
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	~~0.40 B,J~~ ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AM
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.21 B J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AN
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	5.8 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AP
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-012

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	5.0 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AQ
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	201 ~~J~~	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AR
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	754	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AT
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1700	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AU
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	11.0 ~~J~~	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AV
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9000	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AW
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.4	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AX
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	15.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1A0
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1A1
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1A2
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S2

DISSOLVED Metals

Lot-Sample #...: C4G190153-012

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	10.9 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1A3
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	4.1 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AA
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	33.6 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJX1AC
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJX1AD
		Dilution Factor: 1		Analysis Time..: 11:45	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-013
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	2.8 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJ01AD
		Dilution Factor: 1		Analysis Time..: 11:48	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205039						
Silver	0.79 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AE
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	25000	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AF
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.9	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AG
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	272	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AH
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	1.1	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AJ
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	14500	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AK
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	26.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AL
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	11.0 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AM
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-013

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	366 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AN
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	76.1 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AP
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	25000	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AQ
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3460	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AR
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	6410	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AT
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	358	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AU
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9470	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AV
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	27.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AW
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	479	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AX
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.80 B	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01A0
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-013

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.47 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01A1
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	7.8	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01A2
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	60.3	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AA
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	503 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ01AC
		Dilution Factor: 1		Analysis Time..: 14:56	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-014
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205037						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AF
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	142 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AG
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	1.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AH
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	29.4 ~~E~~ J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AJ
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AK
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	8980 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AL
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.48 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AM
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.60 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AN
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	5.3 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AP
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-014

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AQ
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	212 ~~B~~ J	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AR
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	677 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AT
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1630 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AU
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	41.1 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AV
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8850 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AW
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AX
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	7.0 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11A0
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11A1
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	0.30 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11A2
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-014

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	6.1 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11A3
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	2.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AA
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	25.0 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ11AC
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

Prep Batch #...: 4211044

Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJ11AD
		Dilution Factor: 1		Analysis Time..: 11:46	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

E Matrix interference.

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-015
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	7.1 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJ21AD
		Dilution Factor: 1		Analysis Time..: 11:49	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205039						
Silver	1.4 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AE
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	20000	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AF
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AG
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	196	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AH
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.70 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AJ
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	14400	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AK
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	61.2	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AL
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	8.3 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AM
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-015

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	637 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AN
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	98.1 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AP
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	19900	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AQ
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	2620	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AR
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5010	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AT
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	264	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AU
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8810	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AV
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	23.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AW
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	901	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AX
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.60 B	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21A0
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-015

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.21 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21A1
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	15.8	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21A2
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	72.8	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AA
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	750 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ21AC
		Dilution Factor: 1		Analysis Time..: 15:04	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-016
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205037						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AF
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	76.9 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AG
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.70 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AH
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	28.6 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AJ
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AK
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	10100 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AL
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.28 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AM
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.19 B J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AN
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	5.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AP
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-016

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AQ
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	141 J	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AR
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	714 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AT
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1420 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AU
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	8.7 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AV
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8700 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AW
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.1 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AX
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	10.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31A0
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31A1
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31A2
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-01D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-016

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	14.7 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31A3
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	1.6 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AA
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	25.2 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ31AC
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJ31AD
		Dilution Factor: 1		Analysis Time..: 11:51	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-017
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	2.5 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJ41A2
		Dilution Factor: 1		Analysis Time..: 11:57	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205039						
Silver	0.72 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AA
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	24100	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AC
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.8	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AD
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	264	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AE
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.99 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AF
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	14900	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AG
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	25.1	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AH
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	10.2 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AJ
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-017

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	353 ~~J~~ J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AK
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	73.6 ~~J~~	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AL
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	24000	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AM
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3420	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AN
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	6230	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AP
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	339	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AQ
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9960	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AR
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	25.7	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AT
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	456	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AU
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	1.2 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AV
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-017

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.22 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AW
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	7.2	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41AX
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	61.3	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41A0
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	490 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ41A1
		Dilution Factor: 1		Analysis Time..: 15:09	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRBT-02D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-018
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205037						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AF
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	174 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AG
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	1.1 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AH
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	25.4 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AJ
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AK
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	8600 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AL
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.31 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AM
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.21 B J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AN
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	5.8 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AP
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-018

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	3.3 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AQ
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	271 J	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AR
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	674 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AT
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1530 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AU
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	24.8 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AV
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8590 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AW
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.1 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AX
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	8.8 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51A0
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51A1
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51A2
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-018

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	5.1 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51A3
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	2.6 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AA
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	18.6 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ51AC
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJ51AD
		Dilution Factor: 1		Analysis Time..: 11:52	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-019
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	8.4 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDJ71AD
		Dilution Factor: 1		Analysis Time..: 11:58	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205039						
Silver	1.7 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AE
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	25900	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AF
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	7.4	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AG
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	244	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AH
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.93 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AJ
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	16400	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AK
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	78.0	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AL
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	10.4 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AM
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-019

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	811 ~~J~~ J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AN
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	120 ~~J~~	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AP
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	25600	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AQ
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3260	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AR
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	6160	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AT
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	332	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AU
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9730	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AV
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	29.6	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AW
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	1150	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AX
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	1.3 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71A0
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-019

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.24 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71A1
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	19.0 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71A2
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	84.7 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AA
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	931 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ71AC
		Dilution Factor: 1		Analysis Time..: 15:13	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-020
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205037						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AF
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	97.9 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AG
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.68 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AH
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	28.6 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AJ
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AK
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	9710 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AL
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.23 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AM
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.16 B J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AN
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	6.0 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AP
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-020

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.5 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AQ
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	153 J	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AR
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	747 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AT
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1320 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AU
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	8.6 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AV
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8660 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AW
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	1.8 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AX
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	11.7 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81A0
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81A1
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81A2
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-02D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-020

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	16.8 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81A3
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	2.4 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AA
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	22.0 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDJ81AC
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDJ81AD
		Dilution Factor: 1		Analysis Time..: 11:54	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-021
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	2.6 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDKA1AD
		Dilution Factor: 1		Analysis Time..: 12:00	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205039						
Silver	0.66 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AE
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	21800 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AF
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	5.3	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AG
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	240	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AH
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.82 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AJ
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	14500	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AK
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	23.4	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AL
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	9.4 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AM
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-021

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	322 ~~J~~ J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AN
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	68.2 ~~J~~	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AP
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	21900	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AQ
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3110	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AR
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5760	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AT
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	310	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AU
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	9420	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AV
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	24.3	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AW
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	415	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AX
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	0.86 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1A0
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S3

TOTAL Metals

Lot-Sample #...: C4G190153-021

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.20 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1A1
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	6.8 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1A2
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	55.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AA
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	449 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKA1AC
		Dilution Factor: 1		Analysis Time..: 15:17	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-022
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205037						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AF
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	137 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AG
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.96 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AH
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	25.4 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AJ
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AK
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	8740 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AL
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.10 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AM
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.16 B J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AN
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	4.9 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AP
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-022

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.6 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AQ
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	214 J	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AR
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	675 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AT
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1580 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AU
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	20.5 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AV
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8550 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AW
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	0.81 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AX
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	7.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1A0
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1A1
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1A2
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S3

DISSOLVED Metals

Lot-Sample #...: C4G190153-022

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	4.8 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1A3
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	3.4 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AA
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	16.0 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKC1AC
		Dilution Factor: 1		Analysis Time..: 13:35	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDKC1AD
		Dilution Factor: 1		Analysis Time..: 11:55	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-023
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4204056						
Mercury	7.2 J	0.20	ug/L	MCAWW 245.1	07/22/04	GLDKD1AD
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....: 4204031	MDL.....: 0.047	
Prep Batch #...: 4205039						
Silver	1.4 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AE
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	23400	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AF
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	6.0	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AG
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	228	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AH
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	0.83 B	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AJ
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	14800	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AK
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	61.4	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AL
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	9.0 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AM
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-023

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	710 ~~J~~ J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AN
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	
Copper	104 ~~J~~	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AP
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	22700	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AQ
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	3530	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AR
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	5620	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AT
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	288	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AU
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8830	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AV
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	33.3	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AW
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	939	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AX
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	1.1 B J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1A0
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03T-S4

TOTAL Metals

Lot-Sample #...: C4G190153-023

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	0.22 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1A1
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	
Antimony	18.9 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1A2
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	78.2 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AA
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	750 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKD1AC
		Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-024
Date Sampled...: 07/16/04 Date Received..: 07/19/04 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4205037						
Silver	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AF
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.13	
Aluminum	68.9 J	30.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AG
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.1	
Arsenic	0.42 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AH
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.25	
Barium	27.3 J	10.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AJ
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.6	
Beryllium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AK
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.066	
Calcium	9430 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AL
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 13.6	
Cadmium	0.24 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AM
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.072	
Cobalt	0.16 B J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AN
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.030	
Chromium	5.2 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AP
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.31	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-024

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	1.9 B J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AQ
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.19	
Iron	126 J	50.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AR
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 15.3	
Potassium	695 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AT
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 2.8	
Magnesium	1300 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AU
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 1.2	
Manganese	9.5 J	0.50	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AV
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.045	
Sodium	8250 J	100	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AW
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 4.1	
Nickel	0.95 B J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AX
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.17	
Lead	9.3 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1A0
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.074	
Selenium	ND J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1A1
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.40	
Thallium	ND J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1A2
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.082	

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: DRET-03D-S4

DISSOLVED Metals

Lot-Sample #...: C4G190153-024

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	14.6 J	2.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1A3
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.071	
Vanadium	1.8 J	1.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AA
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.50	
Zinc	21.7 J	5.0	ug/L	MCAWW 200.8	07/23-08/06/04	GLDKE1AC
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 400149	
		Instrument ID..: ICPMS		MS Run #.....:	MDL.....: 0.76	
Prep Batch #...: 4211044						
Mercury	ND J	0.20	ug/L	MCAWW 245.1	07/29/04	GLDKE1AD
		Dilution Factor: 1		Analysis Time..: 11:57	Analyst ID.....: 031043	
		Instrument ID..: PS200HG		MS Run #.....:	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
07/22/2004

BBL ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13039
CONTACT: DON SAUDA

MATRIX : WATER

DATE RECEIVED: 07/17/2004 **TIME:** 9:00

SAMPLED BY: P. FILIPPETTI

CUSTOMER PO: N/A

PROJECT: GE HUDSON RIVER TREATABILITY STUDY

LOCATION: HUDSON FALLS, NY

LAB ELAP #: 11078

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	TIME SAMPLED	RESULTS	PQL	UNIT	DATE ANALYZED
Total Suspended Solids								
AH07348	DRET-01T-S1	EPA 160.2	07/15/2004	11:15	415	16.7	mg/L	07/22/2004
AH07350	DRET-01T-S2	EPA 160.2	07/15/2004	16:30	572	20.0	mg/L	07/22/2004
AH07352	DRET-02T-S1	EPA 160.2	07/15/2004	11:20	422	20.0	mg/L	07/22/2004
AH07354	DRET-02T-S2	EPA 160.2	07/15/2004	16:35	560	20.0	mg/L	07/22/2004
AH07356	DRET-03T-S1	EPA 160.2	07/15/2004	11:25	438	20.0	mg/L	07/22/2004
AH07358	DRET-03T-S2	EPA 160.2	07/15/2004	16:40	428	20.0	mg/L	07/22/2004
AH07360	DRET-01T-S3	EPA 160.2	07/16/2004	11:22	662	20.0	mg/L	07/22/2004
AH07362	DRET-01T-S4B	EPA 160.2	07/16/2004	14:02	608	20.0	mg/L	07/22/2004
AH07364	DRET-02T-S3	EPA 160.2	07/16/2004	11:30	606	20.0	mg/L	07/22/2004
AH07366	DRET-02T-S4B	EPA 160.2	07/16/2004	14:10	698	20.0	mg/L	07/22/2004
AH07368	DRET-03T-S3	EPA 160.2	07/16/2004	11:38	580	20.0	mg/L	07/22/2004
AH07370	DRET-03T-S4B	EPA 160.2	07/16/2004	14:18	622	20.0	mg/L	07/22/2004

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

1
DATA SHEET
TOTAL ORGANIC CARBON

LAB NAME: NORTHEAST ANALYTICAL, INC.

LAB CODE: NYS ELAP #11078

SDG No.: AH07348

MATRIX: WATER

INSTRUMENT ID#: HORIBA PIR 2000

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

NEA SAMPLE #	CLIENT SAMPLE #	DATE ANALYZED	DATE RECEIVED	CONC.	C	Q
AH07348	DRET-01T-S1	07/28/2004	07/17/2004	5.05		
AH07349	DRET-01D-S1	07/28/2004	07/17/2004	4.96		
AH07350	DRET-01T-S2	07/28/2004	07/17/2004	9.25		
AH07351	DRET-01D-S2	07/28/2004	07/17/2004	6.84		
AH07352	DRET-02T-S1	07/28/2004	07/17/2004	4.70		
AH07353	DRET-02D-S1	07/28/2004	07/17/2004	5.24		
AH07354	DRET-02T-S2	07/28/2004	07/17/2004	7.51		
AH07355	DRET-02D-S2	07/28/2004	07/17/2004	5.73		
AH07356	DRET-03T-S1	07/28/2004	07/17/2004	4.86		
AH07357	DRET-03D-S1	07/28/2004	07/17/2004	5.04		
AH07358	DRET-03T-S2	07/28/2004	07/17/2004	6.38		
AH07359	DRET-03D-S2	07/28/2004	07/17/2004	6.24		
AH07360	DRET-01T-S3	07/28/2004	07/17/2004	14.1		
AH07361	DRET-01D-S3	07/28/2004	07/17/2004	8.52		
AH07362	DRET-01T-S4B	07/28/2004	07/17/2004	7.96		
AH07363	DRET-01D-S4B	07/28/2004	07/17/2004	6.60		
AH07364	DRET-02T-S3	07/28/2004	07/17/2004	6.57		
AH07365	DRET-02D-S3	07/28/2004	07/17/2004	5.25		
AH07366	DRET-02T-S4B	07/28/2004	07/17/2004	6.00		
AH07367	DRET-02D-S4B	07/28/2004	07/17/2004	4.80		

1
DATA SHEET
TOTAL ORGANIC CARBON

LAB NAME: NORTHEAST ANALYTICAL, INC.

LAB CODE: NYS ELAP #11078

SDG No.: AH07368

MATRIX: WATER

INSTRUMENT ID#: HORIBA PIR 2000

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

NEA SAMPLE #	CLIENT SAMPLE #	DATE ANALYZED	DATE RECEIVED	CONC.	C	Q
AH07368	DRET-03T-S3	07/28/2004	07/17/2004	6.08		
AH07369	DRET-03D-S3	07/28/2004	07/17/2004	5.84		
AH07370	DRET-03T-S4B	07/28/2004	07/17/2004	7.23		
AH07371	DRET-03D-S4B	07/28/2004	07/17/2004	6.71		

Laboratory Narrative

CASE NARRATIVE

BLASLAND, BOUCK & LEE
GE Treatability Study
STL Lot # C4G190153

Sample Receiving:
STL Pittsburgh, PA received samples on July 19, 2004. The cooler was received at 18.6° C.

The samples were filtered and preserved at the laboratory for dissolved metals analysis.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

Metals:
Sample DRET-03T-S4 was digested at 50mL instead of 100mL due to limited sample volume. The reagents and final volume were adjusted accordingly.

The serial dilution percent difference for DRET-01D-S1 was outside control limits for manganese.

The serial dilution percent difference for DRET-01D-S3 was outside control limits for barium and iron.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

For the matrix spike, mercury recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

CASE NARRATIVE

This data summary package is comprised of water and filtered water samples received for analysis on July 17, 2004 (Assigned Sample Delivery Group: 04070081). The samples are from Project Name: GE Hudson River Treatability Study, Project Location: Hudson River, NY. The samples were collected by Blasland, Bouck & Lee, (BBL) on behalf of the General Electric Company on July 15, 2004 and July 16, 2004. Samples were delivered to Northeast Analytical, Inc. (NEA) by UPS courier service on July 17, 2004. All samples were received at the laboratory intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH07348	DRET-01T-S1
AH07349	DRET-01D-S1
AH07350	DRET-01T-S2
AH07351	DRET-01D-S2
AH07352	DRET-02T-S1
AH07353	DRET-02D-S1
AH07354	DRET-02T-S2
AH07355	DRET-02D-S2
AH07356	DRET-03T-S1
AH07357	DRET-03D-S1
AH07358	DRET-03T-S2
AH07359	DRET-03D-S2
AH07360	DRET-01T-S3
AH07361	DRET-01D-S3
AH07362	DRET-01T-S4B
AH07363	DRET-01D-S4B
AH07364	DRET-02T-S3
AH07365	DRET-02D-S3
AH07366	DRET-02T-S4B
AH07367	DRET-02D-S4B
AH07368	DRET-03T-S3
AH07369	DRET-03D-S3
AH07370	DRET-03T-S4B
AH07371	DRET-03D-S4B

Total PCBs by Green Bay Method – NEA SOP NE207_03:

Analysis for Total PCBs was performed by NEA SOP NE207_03. Water samples were extracted by SW-846 Method 3520C, Continuous Liquid/Liquid Extraction (NEA SOP NE114_04). Water samples that required filtration were performed by TCLP Filtration apparatus using 0.7 micron glass fiber filters The following technical and administrative items were noted for the analysis.

1. Due to the high level PCB concentrations that existed in these water samples, many extracts required one or two serial dilations to place analytes within the calibration range.

2. The Method Blank associated with the filtered water samples (NEA ID AH07349B) was contaminated with a PCB Aroclor 1242-like pattern at 707 ng/L. This contamination most likely occurred during TCLP filtration procedures. Sample data was B-flagged. No extra sample was available for re-extraction.

3. The Lab Control Spike associated with the filtered water samples (NEA ID AH07349L) was contaminated with a PCB Aroclor 1242–like pattern. The Lab Control Spike percent recovery was 380%, outside the method defined recovery limits of 60-140%. This contamination most likely occurred during TCLP filtration procedures.

Total Organic Carbon – NEA SOP NE128_03:

Analysis for Total Organic Carbon were performed by NEA SOP NE128_03. The following technical and administrative items were noted for the analysis:

All quality assurance parameters were met for the analysis.

Total Suspended Solids by EPA 160.2 – NEA SOP NE117_02:

Analysis for Total Suspended Solids (TSS) was performed by EPA Method 160.2 (NEA SOP NE117_02). The following technical and administrative items were noted for the analysis:

All quality assurance parameters were met for the analysis.

Qualifier Summary:

The following Organic and Inorganic analysis data qualifiers were used for the analyses.

J- Denotes concentration result reported was less than the Practical Quantitation Limit but greater than the Method Detection Limit.

B- Denotes analyte observed in the associated method blank sample

U- Denotes concentration result was less than the Method Reporting Limit

Respectfully submitted,

Robert E. Wagner
Laboratory Director
S:\forms\catb\casen\qea2004\040904MA_T.doc

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# 04070081

PCB ANALYSES

Analyses performed by:

Northeast Analytical Laboratories
Schenectady, 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# 04070081 for sampling of the GE Hudson Treatability Study. Included with this assessment are the data review checklist 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				
				PAH SVOC	Dioxin	PCB	MET	MISC
S3-05	AH07372	Sediment	07/16/04			x		
S4B-04	AH07373	Sediment	07/16/04			x		
S2-05	AH07374	Sediment	07/15/04			x		
S1-05	AH07375	Sediment	07/15/04			x		

PCB ANALYSES

Introduction

Analyses were performed according to Green Bay Method NEA SOP NE013-07.

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 holding time for sediments is 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the technical 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. 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. Alternatively, calibration curves may be constructed.

The initial calibrations were within control limits.

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.

Recovery for one surrogate was less than the control limits in sample S4B-04. Data were qualified as estimated in the listed sample based on the deviations. All other 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 identified compounds met the specified criteria.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries were acceptable.

8. Matrix Spike Blank

The matrix spike blank recoveries were within control limits.

9. Field Duplicate

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

10. System Performance and Overall Assessment

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

Data Validation Checklist

PCB Data Validation Checklist

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

	YES	NO	NA
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
Aroclor 1016/1260	X		
Aroclors 1221, 1232, 1242, 1248, and 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils,			

	YES	NO	NA
sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?		X	

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*
		Nonachlorobiphenyl
S3-05		
S4B-04		↓
S2-05		
S1-05		
S1-05 MS		
S1-05 MSD		

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.

Corrected Sample Analysis Data Sheets

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC17\AH07372.ARS

Customer : Blasland, Bouck & Lee
Sample Description : S3-05

Comment : GEHR Treatability Study; COC 07/17/2004
Date Acquired : 07/28/2004 16:05:40

Total PCBs in sample = 54.4 µg/g

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	15.37	18.74
Di	50.44	51.97
Tri	24.90	22.24
Tetra	6.65	5.26
Penta	1.73	1.22
Hexa	0.69	0.44
Hepta	0.21	0.12
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount µg/g	Percent Sediment	Percent Biota
A1221	2/001	7.8764	75.6	75.0
A1242	23+24/31+28	2.4008	23.1	22.9
A1254SED	61/110	0.1210	1.2	
A1254BIO	***/###	0.2053		2.0
A1260	102/180	0.0158	0.2	0.2
A1268	115/194		0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 0.75

TOTAL Cl / biphenyl Residue = 2.20

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC17\AH07372.ARS

Customer : Blasland, Bouck & Lee
Sample Description : S3-05

Comment : GEHR Treatability Study; COC 07/17/2004
Date Acquired : 07/28/2004 16:05:40
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
2	14.06	188.7	1475	7.88	41.7	0.0203	0.666	
3	15.08	188.7				0.889	152	
4	15.18	188.7	35	0.480	2.54	0.0242	0.390	
5	15.78	223.1	5060	12.0	53.7	0.00596	0.189	
6	16.62	223.1	284	0.101	0.451	0.00199	0.0666	
7	16.93	223.1	1851	1.40	6.30	0.00353	0.106	
8	17.12	223.1	9518	13.8	61.7	0.0248	0.779	
9	17.68	223.1				0.0258	3.80	
10	17.75	257.5	2940	1.39	5.39	0.000873	0.0156	B
11	18.22	257.5				0.0172	3.80	
12	18.28	223.1				0.0202	3.80	
13	18.48	223.1				0.00575	0.0149	
14	18.60	249.0	1476	0.693	2.78	0.00965	0.206	B
15	18.69	257.5	3409	3.00	11.6	0.00666	0.206	B
16	18.98	257.5	3540	1.04	4.05	0.000478	0.0145	
17	19.27	257.5	5116	2.72	10.6	0.00618	0.217	B
19	19.69	267.9	205	0.0961	0.359	0.0133	3.80	J
20	19.87	257.5				0.00264	0.00295	
21	19.99	257.5	2270	1.01	3.94	0.00180	0.0402	
22	20.07	257.5	1207	0.375	1.46	0.00111	0.0178	
23	20.27	257.5	4423	1.87	7.26	0.00636	0.229	B
24	20.30	257.5	1698	0.532	2.07	0.00788	0.293	
25	20.70	259.5	1329	0.543	2.09	0.00627	0.221	
26	20.89	258.7	881	0.374	1.45	0.00639	0.161	B
27	21.12	292.0	320	0.107	0.367	0.00172	0.0496	B
28	21.26	257.5				0.0250	3.80	
29	21.40	292.0	97	0.0360	0.123	0.000633	0.0222	B
30	21.52	257.5				0.0173	3.80	
31	21.69	292.0	2155	1.14	3.92	0.0190	0.265	
32	21.86	292.0	2327	0.638	2.18	0.00414	0.128	B
33	21.97	292.0	2144	0.418	1.43	0.00187	0.0557	
34	22.02	292.0	172	0.0410	0.140	0.00279	0.0557	J
35	22.17	292.0				0.0135	3.80	
36	22.25	257.5				0.0200	3.80	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
37	22.42	292.0	221	0.0785	0.269	0.00761	0.239	J
38	22.55	272.4	601	0.245	0.901	0.00399	0.145	~~B~~
39	22.89	292.0	1149	0.327	1.12	0.00779	0.228	~~B~~
41	23.06	326.4	139	0.0567	0.174	0.0252	3.80	J
42	23.16	292.0	144	0.0422	0.144	0.00212	0.0523	J
43	23.41	298.9	88	0.0287	0.0959	0.0135	3.80	J
44	23.61	298.9	67	0.0132	0.0442	0.000211	0.00612	
45	23.74	292.0	177	0.0390	0.134	0.000463	0.0117	
46	23.90	292.0	285	0.0577	0.198	0.00402	0.106	J
47	24.03	292.0	206	0.0537	0.184	0.00581	0.189	J~~B~~
48	24.21	293.5	1028	0.370	1.26	0.0112	0.402	J
49	24.45	324.7	389	0.0914	0.282	0.00133	0.0284	~~B~~
50	24.75	292.0	214	0.0534	0.183	0.00530	0.195	J~~B~~
51	25.00	326.4	638	0.349	1.07	0.00332	0.100	~~B~~
52	25.09	326.4				0.00490	0.00557	
53	25.23	326.4	284	0.0812	0.249	0.00578	0.100	J
54	25.44	326.4	138	0.0238	0.0728	0.00165	0.0411	J~~B~~
55	25.72	326.4	74	0.00638	0.0195	0.000773	0.00156	
56	25.80	326.4	86	0.0200	0.0614	0.00539	0.00834	
57	26.02	326.4	82	0.0169	0.0518	0.000895	0.0310	J
58	26.20	326.4	185	0.0448	0.137	0.00236	0.0645	J~~B~~
59	26.33	326.4	33	0.00649	0.0199	0.00117	0.0390	J
60	26.51	360.9	199	0.0491	0.136	0.00148	0.0417	
61	26.59	315.8	423	0.121	0.383	0.00374	0.118	
62	26.88	360.9				0.0186	3.80	
63	26.97	326.4	40	0.00823	0.0252	0.000858	0.0245	J
64	27.26	360.9	215	0.0561	0.155	0.00307	0.0946	J
65	27.40	350.5	162	0.0251	0.0716	0.00117	0.0161	
66	27.45	360.9	7	0.00279	0.00772	0.00113	0.0335	J
67	27.52	336.8	72	0.0192	0.0572	0.000279	0.00721	
68	27.63	326.4	11			0.0162	3.80	
69	27.71	337.5	359	0.0919	0.272	0.00740	0.222	J
70	27.82	360.9				0.0166	3.80	
71	28.09	347.8	64	0.0123	0.0353	0.00700	0.0112	
72	28.31	336.8	61	0.00533	0.0158	0.00173	0.00173	
73	28.56	360.9	158	0.0358	0.0992	0.000788	0.0217	
74	28.70	347.8	205	0.0363	0.104	0.00252	0.0755	J
75	28.85	360.9	217	0.0465	0.129	0.00478	0.164	J
76	28.95	360.9				0.0203	3.80	
77	29.39	360.9	34	0.0104	0.0288	0.00371	0.0946	J
78	29.44	395.3	61	0.0152	0.0384	0.00450	0.0813	J
79	29.63	360.9	33	0.0123	0.0340	0.00282	0.00417	
80	29.72	360.9	57	0.00675	0.0187	0.000514	0.0145	J
82	30.01	360.9	303	0.0669	0.185	0.00435	0.150	J
83	30.18	360.9	26	0.00433	0.0120	0.000648	0.0139	J
84	30.36	360.9				0.000502	0.000718	
85	30.68	395.3	71	0.0265	0.0669	0.00283	0.0612	J
87	30.98	395.3				0.000304	0.0111	
88	31.12	395.3	147	0.0345	0.0872	0.00633	0.200	J
89	31.24	360.9				0.000371	0.00557	
90	31.42	395.3				0.00263	0.0946	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
91	31.67	360.9				0.000307	0.00273	
92	32.00	394.3				0.000843	0.0261	
93	32.36	394.3				0.00481	0.178	
94	32.60	394.3	83	0.0205	0.0521	0.00270	0.0946	J
95	32.91	382.2				0.00222	0.0438	
96	33.16	429.8	65	0.00214	0.00497	0.000145	0.00368	J
98	33.32	395.3				0.00173	0.00212	
99	33.68	429.8				0.000904	0.0217	
100	33.92	395.3				0.00114	0.0310	
101	34.20	429.8				0.000368	0.00612	~~B~~
102	34.37	395.3	71	0.0158	0.0400	0.00965	0.338	J
103	34.61	395.3				0.000998	0.0234	
104	34.91	395.3				0.00450	0.00666	
105	35.24	429.8				0.000892	0.0239	
106	36.34	395.3				0.00221	0.0712	
107	36.61	395.3				0.000791	0.0234	
108	37.44	429.8				0.000295	0.00666	
109	37.67	429.8				0.00764	0.234	
110	38.19	429.8				0.00663	0.239	~~B~~
111	39.30	395.3				0.00243	0.00243	~~B~~
112	40.78	429.8				0.00184	0.0307	
113	41.29	464.2				0.000618	0.0137	
114	42.19	464.2						
115	43.54	429.8				0.00268	0.100	
116	44.40	429.8				0.00254	0.00612	
117	49.33	464.2				0.000138	0.00377	
118	55.07	498.6				0.0000569	0.0000676	
	Concentration = 54.4 µg/g					0.373	9.50	

Total Micromoles = 0.236

Average Molecular Weight = 230.0

Number of Calibrated Peaks Found = 70

Internal Standard Retention Time = 47.85 Minutes

Internal Standard Peak Area = 60361.0

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC17\AH07373DL2.ARS

Customer : Blasland, Bouck & Lee
Sample Description : S4B-04

Comment : GEHR Treatability Study; COC 07/17/2004
Date Acquired : 08/03/2004 23:07:13

Total PCBs in sample = ~~561~~ 557 µg/g

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	28.50	33.24
Di	50.50	49.80
Tri	14.23	12.16
Tetra	3.95	3.00
Penta	1.62	1.09
Hexa	0.80	0.49
Hepta	0.39	0.22
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount µg/g	Percent Sediment	Percent Biota
A1221	2/001	160.0009	93.3	92.7
A1242	23+24/31+28	9.8316	5.7	5.7
A1254SED	61/110	0.8928	0.5	
A1254BIO	***/###	1.9629		1.1
A1260	102/180	0.7186	0.4	0.4
A1268	115/194		0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 0.35

TOTAL Cl / biphenyl Residue = 1.91

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC17\AH07373DL2.ARS

Customer : Blasland, Bouck & Lee
Sample Description : S4B-04

Comment : GEHR Treatability Study; COC 07/17/2004
Date Acquired : 08/03/2004 23:07:13
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
2	14.06	188.7	823	160	848	0.784	25.7	
3	15.08	188.7				34.3	5870	
4	15.18	188.7				0.934	15.0	
5	15.80	223.1	2613	225	1,010	0.230	7.29	
6	16.62	223.1	118	1.52	6.81	0.0767	2.57	J
7	16.93	223.1	211	5.83	26.1	0.136	4.08	
8	17.12	223.1	943	49.7	223	0.956	30.1	
9	17.68	223.1				0.995	147	
10	17.75	257.5	1237	21.3	82.6	0.0337	0.601	B
11	18.22	257.5				0.663	147	
12	18.28	223.1				0.779	147	
13	18.48	223.1				0.222	0.573	
14	18.61	249.0	284	4.86	19.5	0.372	7.94	JB
15	18.69	257.5	232	7.43	28.8	0.257	7.94	JB
16	18.98	257.5	1248	13.4	51.9	0.0184	0.558	
17	19.27	257.5	438	8.47	32.9	0.238	8.38	B
19	19.68	267.9	96	1.62	6.06	0.512	147	J
20	19.87	257.5	36	0.423	1.64	0.102	0.114	
21	19.99	257.5	336	5.47	21.3	0.0693	1.55	
22	20.08	257.5	114	1.29	5.00	0.0428	0.687	
23	20.27	257.5	475	7.31	28.4	0.246	8.85	JB
24	20.30	257.5	221	2.53	9.81	0.304	11.3	J
25	20.70	259.5	317	4.72	18.2	0.242	8.53	J
26	20.89	258.7	130	~~2.02~~	7.79	0.247	6.23	~~JB~~ U
27	21.12	292.0	87	~~1.06~~	3.62	0.0663	1.91	~~JB~~ U
28	21.26	257.5				0.966	147	
29	21.41	292.0	23	~~0.308~~	1.06	0.0244	0.859	~~JB~~ U
30	21.52	257.5				0.670	147	
31	21.69	292.0	343	6.63	22.7	0.732	10.2	J
32	21.86	292.0	273	2.73	9.35	0.160	4.93	JB
33	21.97	292.0	307	2.18	7.45	0.0720	2.15	
34	22.02	292.0	22	0.194	0.664	0.108	2.15	J
35	22.17	292.0				0.519	147	
36	22.25	257.5				0.773	147	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
37	22.41	292.0	51	0.657	2.25	0.294	9.23	J
38	22.54	272.4	133	1.98	7.26	0.154	5.58	JB
39	22.90	292.0	156	1.62	5.54	0.301	8.80	JB
41	23.07	326.4	58			0.973	147	
42	23.17	292.0	34	0.360	1.23	0.0820	2.02	J
43	23.43	298.9	12			0.520	147	
44	23.60	298.9	25	0.177	0.592	0.00814	0.236	J
45	23.73	292.0	42	0.335	1.15	0.0179	0.451	J
46	23.88	292.0	69	0.508	1.74	0.155	4.08	J
47	24.05	292.0	72	~~0.685~~	2.35	0.224	7.29	~~JB~~ U
48	24.21	293.5	179	2.35	8.00	0.431	15.5	J
49	24.45	324.7	116	0.993	3.06	0.0512	1.09	JB
50	24.75	292.0	81	0.741	2.54	0.204	7.52	JB
51	25.01	326.4	162	3.22	9.88	0.128	3.86	JB
52	25.09	326.4				0.189	0.215	
53	25.22	326.4	85	0.889	2.72	0.223	3.86	J
54	25.46	326.4	49	0.310	0.951	0.0637	1.59	JB
55	25.74	326.4	48	0.150	0.461	0.0298	0.0601	
56	25.81	326.4	54	0.453	1.39	0.208	0.322	
57	26.04	326.4	38	0.288	0.884	0.0345	1.20	J
58	26.19	326.4	82	0.720	2.21	0.0913	2.49	JB
59	26.35	326.4	19	0.141	0.431	0.0453	1.50	J
60	26.50	360.9	54	0.486	1.35	0.0571	1.61	J
61	26.61	315.8	86	0.893	2.83	0.144	4.57	J
62	26.88	360.9				0.719	147	
63	26.95	326.4	10	0.0727	0.223	0.0331	0.944	J
64	27.26	360.9	98	0.933	2.59	0.119	3.65	J
65	27.41	350.5	89	0.503	1.43	0.0453	0.623	J
66	27.49	360.9	39	0.539	1.49	0.0437	1.29	J
67	27.52	336.8				0.0108	0.278	
68	27.62	326.4				0.624	147	
69	27.71	337.5	101	0.942	2.79	0.285	8.59	J
70	27.82	360.9				0.643	147	
71	28.07	347.8	31			0.270	0.433	
72	28.30	336.8				0.0668	0.0668	
73	28.58	360.9	48	0.401	1.11	0.0304	0.838	J
74	28.68	347.8	59	0.378	1.09	0.0971	2.91	J
75	28.84	360.9	49	0.379	1.05	0.184	6.32	J
76	28.95	360.9				0.785	147	
77	29.36	360.9				0.143	3.65	
78	29.42	395.3				0.174	3.14	
79	29.63	360.9				0.109	0.161	
80	29.74	360.9	54	0.231	0.640	0.0199	0.558	J
82	30.01	360.9	80	0.641	1.78	0.168	5.79	J
83	30.16	360.9				0.0250	0.537	
84	30.36	360.9				0.0194	0.0277	
85	30.69	395.3				0.109	2.36	
87	30.99	395.3	38	0.405	1.02	0.0117	0.430	J
88	31.13	395.3	45	0.384	0.971	0.244	7.73	J
89	31.24	360.9				0.0143	0.215	
90	31.42	395.3				0.101	3.65	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
91	31.67	360.9				0.0119	0.105	
92	32.00	394.3				0.0325	1.01	
93	32.36	394.3	42	0.361	0.916	0.186	6.87	J
94	32.61	394.3				0.104	3.65	
95	32.91	382.2				0.0859	1.69	
96	33.15	429.8				0.00558	0.142	
98	33.32	395.3				0.0667	0.0816	
99	33.68	429.8				0.0349	0.838	
100	33.92	395.3	32	0.309	0.781	0.0439	1.20	J
101	34.20	429.8				0.0142	0.236	~~B~~
102	34.36	395.3	89	0.719	1.82	0.372	13.0	J
103	34.61	395.3				0.0385	0.902	
104	34.91	395.3				0.174	0.257	
105	35.24	429.8				0.0344	0.923	
106	36.34	395.3				0.0853	2.75	
107	36.61	395.3				0.0305	0.902	
108	37.44	429.8				0.0114	0.257	
109	37.67	429.8				0.295	9.02	
110	38.19	429.8				0.256	9.23	~~B~~
111	39.30	395.3				0.0937	0.0937	~~B~~
112	40.78	429.8				0.0711	1.19	
113	41.29	464.2				0.0238	0.530	
114	42.19	464.2						
115	43.54	429.8				0.103	3.86	
116	44.40	429.8				0.0979	0.236	
117	49.33	464.2				0.00532	0.146	
118	55.07	498.6				0.00220	0.00261	
	Concentration = 561 µg/g					14.4	367	

Total Micromoles = 2.55

Average Molecular Weight = 220.1

Number of Calibrated Peaks Found = 63

Internal Standard Retention Time = 47.85 Minutes

Internal Standard Peak Area = 64452.0

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC17\AH07374.ARS

Customer : Blasland, Bouck & Lee
Sample Description : S2-05

Comment : GEHR Treatability Study; COC 07/17/2004
Date Acquired : 07/28/2004 18:21:25

Total PCBs in sample = ~~132~~ 131.8 µg/g

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	30.39	35.35
Di	48.13	47.33
Tri	14.01	11.94
Tetra	5.03	3.80
Penta	1.58	1.06
Hexa	0.63	0.38
Hepta	0.18	0.10
Octa	0.05	0.03
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount µg/g	Percent Sediment	Percent Biota
A1221	2/001	38.3030	91.6	91.2
A1242	23+24/31+28	3.2247	7.7	7.7
A1254SED	61/110	0.2406	0.6	
A1254BIO	***/###	0.4370		1.0
A1260	102/180	0.0445	0.1	0.1
A1268	115/194		0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.54

Meta + Para Cl / biphenyl Residue = 0.36

TOTAL Cl / biphenyl Residue = 1.90

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC17\AH07374.ARS

Customer : Blasland, Bouck & Lee
Sample Description : S2-05

Comment : GEHR Treatability Study; COC 07/17/2004
Date Acquired : 07/28/2004 18:21:25
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
2	14.06	188.7	3008	38.3	203	0.0486	1.60	
3	15.08	188.7				2.13	365	
4	15.18	188.7	59	1.93	10.2	0.0580	0.933	
5	15.80	223.1	9500	53.6	240	0.0143	0.453	
6	16.62	223.1	519	0.439	1.97	0.00476	0.160	
7	16.93	223.1	534	0.967	4.34	0.00846	0.253	
8	17.12	223.1	2394	8.26	37.0	0.0593	1.87	
9	17.68	223.1				0.0617	9.11	
10	17.75	257.5	4036	4.55	17.7	0.00209	0.0373	~~B~~
11	18.22	257.5				0.0411	9.11	
12	18.28	223.1				0.0483	9.11	
13	18.46	223.1	106	0.156	0.699	0.0138	0.0356	
14	18.60	249.0	979	1.10	4.40	0.0231	0.493	~~B~~
15	18.69	257.5	780	1.64	6.35	0.0160	0.493	~~B~~
16	18.98	257.5	3859	2.71	10.5	0.00114	0.0346	
17	19.27	257.5	1160	1.47	5.71	0.0148	0.520	~~B~~
19	19.70	267.9	316	0.353	1.32	0.0318	9.11	J
20	19.87	257.5				0.00634	0.00707	
21	19.99	257.5	1525	1.63	6.31	0.00430	0.0962	
22	20.07	257.5	449	0.333	1.29	0.00265	0.0426	
23	20.27	257.5	2501	2.52	9.79	0.0152	0.549	~~B~~
24	20.31	257.5	941	0.703	2.73	0.0189	0.703	
25	20.70	259.5	1394	1.36	5.24	0.0150	0.529	
26	20.89	258.7	401	0.406	1.57	0.0153	0.386	~~B~~
27	21.12	292.0	320	0.256	0.876	0.00411	0.119	~~B~~
28	21.26	257.5				0.0599	9.11	
29	21.40	292.0	28	~~0.0249~~	0.0852	0.00152	0.0533	~~JB~~ U
30	21.52	257.5				0.0416	9.11	
31	21.69	292.0	1859	2.35	8.06	0.0454	0.636	
32	21.86	292.0	1638	1.07	3.67	0.00991	0.306	~~B~~
33	21.97	292.0	1197	0.557	1.91	0.00447	0.133	
34	22.02	292.0	133	0.0757	0.259	0.00668	0.133	J
35	22.17	292.0				0.0322	9.11	
36	22.25	257.5				0.0480	9.11	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
37	22.41	292.0	171	0.145	0.497	0.0182	0.573	J
38	22.55	272.4	473	0.460	1.69	0.00955	0.346	~~B~~
39	22.90	292.0	718	0.487	1.67	0.0187	0.546	JB
41	23.06	326.4	152	0.148	0.454	0.0604	9.11	J
42	23.18	292.0	34	0.0235	0.0804	0.00509	0.125	J
43	23.39	298.9	125	0.0977	0.327	0.0323	9.11	J
44	23.61	298.9	88	0.0410	0.137	0.000505	0.0147	
45	23.73	292.0	294	0.155	0.529	0.00111	0.0280	
46	23.90	292.0	233	0.112	0.385	0.00962	0.253	J
47	24.03	292.0	136	~~0.0845~~	0.289	0.0139	0.453	~~JB~~ U
48	24.21	293.5	859	0.738	2.51	0.0268	0.962	J
49	24.44	324.7	291	0.163	0.502	0.00318	0.0679	~~B~~
50	24.74	292.0	119	~~0.0710~~	0.243	0.0127	0.467	~~JB~~ U
51	25.00	326.4	565	0.737	2.26	0.00795	0.240	~~B~~
52	25.09	326.4				0.0117	0.0133	
53	25.23	326.4	283	0.193	0.591	0.0139	0.240	J
54	25.44	326.4	139	0.0571	0.175	0.00395	0.0984	JB
55	25.72	326.4	82	0.0168	0.0514	0.00185	0.00373	
56	25.79	326.4	161	0.0889	0.272	0.0129	0.0200	
57	26.04	326.4	46	0.0226	0.0692	0.00214	0.0744	J
58	26.19	326.4	219	0.127	0.388	0.00566	0.155	JB
59	26.36	326.4	57	0.0269	0.0825	0.00281	0.0933	J
60	26.51	360.9	177	0.104	0.288	0.00354	0.0999	
61	26.60	315.8	353	0.241	0.762	0.00897	0.284	J
62	26.88	360.9				0.0446	9.11	
63	26.97	326.4	13	0.00637	0.0195	0.00206	0.0586	J
64	27.26	360.9	254	0.158	0.438	0.00736	0.227	J
65	27.40	350.5	112	0.0415	0.118	0.00281	0.0386	
66	27.44	360.9	20	0.0183	0.0508	0.00271	0.0802	J
67	27.55	336.8	84	0.0530	0.157	0.000669	0.0173	
68	27.63	326.4	12			0.0387	9.11	
69	27.70	337.5	326	0.199	0.589	0.0177	0.533	J
70	27.82	360.9				0.0399	9.11	
71	28.08	347.8	92	0.0425	0.122	0.0168	0.0269	
72	28.30	336.8	58	0.0122	0.0361	0.00415	0.00415	
73	28.57	360.9	113	0.0614	0.170	0.00189	0.0520	
74	28.69	347.8	136	0.0576	0.166	0.00603	0.181	J
75	28.84	360.9	159	0.0812	0.225	0.0114	0.392	J
76	28.95	360.9				0.0487	9.11	
77	29.36	360.9	31	0.0230	0.0637	0.00889	0.227	J
78	29.43	395.3	45	0.0266	0.0674	0.0108	0.195	J
79	29.61	360.9	22	0.0193	0.0534	0.00677	0.00999	
80	29.74	360.9	27	0.00750	0.0208	0.00123	0.0346	J
82	30.01	360.9	298	0.157	0.435	0.0104	0.359	J
83	30.13	360.9	25	0.0102	0.0282	0.00155	0.0333	J
84	30.39	360.9	48	0.00374	0.0104	0.00120	0.00172	
85	30.70	395.3	79	0.0704	0.178	0.00678	0.147	J
87	30.94	395.3	30	0.0208	0.0527	0.000728	0.0267	J
88	31.12	395.3	140	0.0781	0.198	0.0152	0.480	J
89	31.22	360.9	30	0.00949	0.0263	0.000889	0.0133	J
90	31.42	395.3				0.00629	0.227	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
91	31.67	360.9				0.000736	0.00654	
92	32.00	394.3				0.00202	0.0626	
93	32.36	394.3				0.0115	0.426	
94	32.61	394.3				0.00647	0.227	
95	32.91	382.2				0.00533	0.105	
96	33.15	429.8				0.000346	0.00882	
98	33.32	395.3				0.00414	0.00507	
99	33.68	429.8				0.00217	0.0520	
100	33.92	395.3				0.00273	0.0744	
101	34.20	429.8				0.000882	0.0147	~~B~~
102	34.36	395.3	84	0.0445	0.113	0.0231	0.809	J
103	34.61	395.3				0.00239	0.0560	
104	34.91	395.3				0.0108	0.0160	
105	35.24	429.8				0.00214	0.0573	
106	36.34	395.3				0.00529	0.171	
107	36.61	395.3				0.00190	0.0560	
108	37.44	429.8				0.000706	0.0160	
109	37.69	429.8	88	0.0716	0.166	0.0183	0.560	J
110	38.19	429.8				0.0159	0.573	~~B~~
111	39.30	395.3				0.00582	0.00582	~~B~~
112	40.78	429.8				0.00441	0.0736	
113	41.29	464.2				0.00148	0.0329	
114	42.19	464.2						
115	43.54	429.8				0.00642	0.240	
116	44.40	429.8				0.00607	0.0147	
117	49.33	464.2				0.000330	0.00904	
118	55.07	498.6				0.000136	0.000162	
	Concentration = 132 µg/g					0.895	22.8	

Total Micromoles = 0.603

Average Molecular Weight = 219.5

Number of Calibrated Peaks Found = 73

Internal Standard Retention Time = 47.85 Minutes

Internal Standard Peak Area = 60618.0

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

NEA File Name : M:\MIL2004\LIMSGC17\AH07375.ARS

Customer : Blasland, Bouck & Lee
Sample Description : S1-05

Comment : GEHR Treatability Study; COC 07/17/2004
Date Acquired : 07/28/2004 19:29:27

Total PCBs in sample = ~~7.51~~ 7.50 µg/g

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	12.59	16.04
Di	35.14	37.78
Tri	32.27	30.13
Tetra	15.48	12.81
Penta	3.16	2.34
Hexa	0.99	0.67
Hepta	0.32	0.20
Octa	0.04	0.02
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount µg/g	Percent Sediment	Percent Biota
A1221	2/001	0.8197	52.0	52.0
A1242	23+24/31+28	0.7025	44.6	44.6
A1254SED	61/110	0.0507	3.2	
A1254BIO	***/###	0.0512		3.2
A1260	102/180	0.0032	0.2	0.2
A1268	115/194		0.0	0.0

***/### : 69+75+82/149+153+138

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 1.05

TOTAL Cl / biphenyl Residue = 2.51

Northeast Analytical Inc
2190 Technology Drive
Schenectady , NY 12308
(518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

NEA File Name : M:\MIL2004\LIMSGC17\AH07375.ARS

Customer : Blasland, Bouck & Lee
Sample Description : S1-05

Comment : GEHR Treatability Study; COC 07/17/2004
Date Acquired : 07/28/2004 19:29:27
Type for Mixed Peak Deconvolution = S

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
2	14.06	188.7	805	0.820	4.34	0.00389	0.128	
3	15.08	188.7				0.170	29.2	
4	15.18	188.7	48	0.125	0.664	0.00464	0.0747	
5	15.80	223.1	3019	1.36	6.11	0.00114	0.0362	
6	16.62	223.1	416	0.0281	0.126	0.000381	0.0128	
7	16.93	223.1	1273	0.184	0.826	0.000677	0.0203	
8	17.12	223.1	3568	0.984	4.41	0.00475	0.149	
9	17.68	223.1				0.00494	0.730	
10	17.75	257.5	1819	0.164	0.636	0.000168	0.00299	B
11	18.22	257.5				0.00329	0.730	
12	18.28	223.1				0.00387	0.730	
13	18.46	223.1	134	0.0156	0.0701	0.00110	0.00285	
14	18.60	249.0	2828	0.253	1.02	0.00185	0.0395	B
15	18.69	257.5	1815	0.304	1.18	0.00128	0.0395	B
16	18.98	257.5	2049	0.115	0.447	0.0000916	0.00277	
17	19.27	257.5	2938	0.298	1.16	0.00118	0.0416	B
19	19.70	267.9	156	0.0139	0.0520	0.00254	0.730	J
20	19.86	257.5	48	0.00297	0.0115	0.000507	0.000566	
21	19.99	257.5	1664	0.142	0.550	0.000344	0.00770	
22	20.07	257.5	1162	0.0689	0.268	0.000212	0.00341	
23	20.27	257.5	3819	0.308	1.19	0.00122	0.0439	B
24	20.32	257.5	6607	0.395	1.53	0.00151	0.0563	
25	20.67	259.5	2251	0.175	0.676	0.00120	0.0424	
26	20.90	258.7	2311	0.187	0.723	0.00123	0.0309	B
27	21.12	292.0	526	0.0336	0.115	0.000329	0.00951	B
28	21.26	257.5				0.00480	0.730	
29	21.39	292.0	141	0.00999	0.0342	0.000121	0.00427	B U
30	21.52	257.5				0.00333	0.730	
31	21.69	292.0	2324	0.235	0.806	0.00364	0.0509	
32	21.86	292.0	1982	0.104	0.355	0.000794	0.0245	B
33	21.97	292.0	1136	0.0422	0.145	0.000358	0.0107	
34	22.03	292.0	546	0.0248	0.0850	0.000535	0.0107	
35	22.17	292.0				0.00258	0.730	
36	22.25	257.5				0.00384	0.730	

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
37	22.42	292.0	1808	0.122	0.419	0.00146	0.0459	
38	22.55	272.4	1793	0.140	0.512	0.000765	0.0277	~~B~~
39	22.89	292.0	2565	0.139	0.477	0.00149	0.0437	~~B~~
41	23.05	326.4	83	0.00649	0.0199	0.00483	0.730	J
42	23.15	292.0	460	0.0256	0.0877	0.000407	0.0100	
43	23.40	298.9	94	0.00587	0.0196	0.00259	0.730	J
44	23.59	298.9	134	0.00501	0.0168	0.0000404	0.00117	
45	23.73	292.0	160	0.00672	0.0230	0.0000887	0.00224	
46	23.90	292.0	967	0.0373	0.128	0.000770	0.0203	
47	24.03	292.0	1429	0.0710	0.243	0.00111	0.0362	~~B~~
48	24.15	293.5	2306	0.158	0.539	0.00214	0.0770	
49	24.44	324.7	228	0.0102	0.0315	0.000254	0.00544	~~B~~
50	24.75	292.0	1349	0.0643	0.220	0.00102	0.0374	~~B~~
51	24.98	326.4	498	0.0520	0.159	0.000636	0.0192	~~B~~
52	25.12	326.4	41	0.00172	0.00528	0.000940	0.00107	
53	25.25	326.4	452	0.0247	0.0755	0.00111	0.0192	
54	25.44	326.4	316	0.0104	0.0318	0.000316	0.00788	~~B~~
55	25.72	326.4	62	0.00102	0.00313	0.000148	0.000299	
56	25.81	326.4	118	0.00522	0.0160	0.00103	0.00160	
57	26.03	326.4	201	0.00790	0.0242	0.000172	0.00595	
58	26.19	326.4	408	0.0188	0.0577	0.000454	0.0124	~~B~~
59	26.35	326.4	214	0.00811	0.0249	0.000225	0.00747	
60	26.51	360.9	164	0.00772	0.0214	0.000284	0.00800	J
61	26.60	315.8	931	0.0507	0.161	0.000718	0.0227	
62	26.88	360.9				0.00357	0.730	
63	26.96	326.4	152	0.00604	0.0185	0.000165	0.00469	
64	27.26	360.9	124	0.00615	0.0170	0.000589	0.0182	J
65	27.40	350.5	69	0.00203	0.00580	0.000225	0.00309	J
66	27.44	360.9	51	0.00365	0.0101	0.000217	0.00642	J
67	27.52	336.8	76	0.00386	0.0114	0.0000536	0.00138	
68	27.60	326.4	37			0.00310	0.730	
69	27.72	337.5	623	0.0304	0.0899	0.00142	0.0427	J
70	27.82	360.9				0.00319	0.730	
71	28.09	347.8	39	0.00144	0.00413	0.00134	0.00215	J
72	28.28	336.8	72	0.00120	0.00355	0.000332	0.000332	
73	28.57	360.9	53	0.00229	0.00634	0.000151	0.00416	J
74	28.69	347.8	395	0.0133	0.0384	0.000483	0.0145	J
75	28.84	360.9	160	0.00654	0.0181	0.000916	0.0314	J
76	28.94	360.9	26			0.00390	0.730	
77	29.36	360.9	50	0.00294	0.00814	0.000712	0.0182	J
78	29.42	395.3	8			0.000864	0.0156	
79	29.60	360.9	37	0.00258	0.00715	0.000542	0.000800	
80	29.74	360.9	46	0.00103	0.00286	0.0000986	0.00277	J
82	30.00	360.9	339	0.0143	0.0396	0.000835	0.0288	J
83	30.17	360.9	53	0.00171	0.00473	0.000124	0.00267	J
84	30.36	360.9	35	0.000216	0.000597	0.0000963	0.000138	
85	30.70	395.3	76	0.00539	0.0136	0.000543	0.0117	J
87	30.93	395.3	32	0.00182	0.00461	0.0000583	0.00214	J
88	31.12	395.3	56	0.00251	0.00635	0.00121	0.0384	J
89	31.24	360.9	62	0.00158	0.00438	0.0000712	0.00107	
90	31.39	395.3	25	0.00106	0.00267	0.000504	0.0182	J

DB-1 Peak Number [1]	Retention Time	Molecular Weight	Peak Area	Amount µg/g	Nanomoles/g Sample	MDL µg/g	RL µg/g	Qual
91	31.65	360.9	35	0.00114	0.00315	0.0000589	0.000524	
92	31.96	394.3	40	0.00114	0.00288	0.000162	0.00501	J
93	32.35	394.3	18			0.000922	0.0341	
94	32.62	394.3	43	0.00205	0.00520	0.000518	0.0182	J
95	32.92	382.2	52	0.00227	0.00594	0.000427	0.00840	J
96	33.15	429.8				0.0000277	0.000706	
98	33.32	395.3				0.000332	0.000406	
99	33.67	429.8	25	0.00118	0.00274	0.000173	0.00416	J
100	33.92	395.3				0.000218	0.00595	
101	34.20	429.8				0.0000706	0.00117	~~B~~
102	34.38	395.3	75	0.00318	0.00805	0.00185	0.0648	J
103	34.61	395.3				0.000191	0.00448	
104	34.87	395.3	42	0.00196	0.00495	0.000864	0.00128	
105	35.20	429.8	41	0.00164	0.00382	0.000171	0.00459	J
106	36.36	395.3	57	0.00140	0.00353	0.000424	0.0137	J
107	36.56	395.3	81	0.00237	0.00600	0.000152	0.00448	J
108	37.44	429.8				0.0000565	0.00128	
109	37.67	429.8				0.00146	0.0448	
110	38.19	429.8				0.00127	0.0459	~~B~~
111	39.30	395.3				0.000466	0.000466	~~B~~
112	40.78	429.8				0.000353	0.00589	
113	41.29	464.2				0.000118	0.00263	
114	42.19	464.2						
115	43.54	429.8				0.000514	0.0192	
116	44.40	429.8				0.000486	0.00117	
117	49.33	464.2				0.0000264	0.000724	
118	55.07	498.6				0.0000109	0.0000130	
	Concentration = 7.51 µg/g					0.0716	1.82	

Total Micromoles = 0.031

Average Molecular Weight = 240.5

Number of Calibrated Peaks Found = 86

Internal Standard Retention Time = 47.85 Minutes

Internal Standard Peak Area = 60715.0

Laboratory Narrative

August 27, 2004

CASE NARRATIVE

This data summary package is comprised of sediment samples received for analysis on July 17, 2004 (Assigned Sample Delivery Group: 04070081). The samples are from Project Name: GE Hudson River Treatability Study, Project Location: Hudson River, NY. The samples were collected by Blasland, Bouck & Lee, (BBL) on behalf of the General Electric Company on July 15, 2004 and July 16, 2004. Samples were delivered to Northeast Analytical, Inc. (NEA) by UPS courier service on July 17, 2004. All samples were received at the laboratory intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH07372	S3-05
AH07373	S4B-04
AH07374	S2-05
AH07375	S1-05

Total PCBs by Green Bay Method – NEA SOP NE013_07:

Analysis for Total PCBs was performed by NEA SOP NE013_07. Extraction of the sediment sample was performed by Pressurized Fluid Extraction SW-846 Method 3545 (NEA SOP GEHR3545) The following technical and administrative items were noted for the analysis.

All quality assurance parameters were met for the analysis.

Qualifier Summary:

The following Organic and Inorganic analysis data qualifiers were used for the analyses.

J- Denotes concentration result reported was less than the Practical Quantitation Limit but greater than the Method Detection Limit.

B- Denotes analyte observed in the associated method blank sample

Respectfully submitted,

Robert E. Wagner

Robert E. Wagner
Laboratory Director
S:\forms\catb\casen\qea2004\040827MA.doc

DATA REVIEW FOR

GENERAL ELECTRIC
HUDSON RIVER TREATABILITY STUDY

SDG# 04090122

Semivolatile, PCB and
Miscellaneous Analyses

Analyses performed by:

Northeast Analytical Laboratories
Schenectady, 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# 04090122 for sampling of the GE Hudson Treatability Study. Included with this assessment are the data review checklists 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						
				VOC	PAH SVOC	DIOXIN	PCB	PEST	MET	MISC
H1S3-MMF IN	AH11461	Water	09/09/04		x					x[1]
H1S3-MMF OUT2	AH11462	Water	09/09/04		x					x[1]
H1S3-BET GAC2	AH11463	Water	09/09/04		x					x[1]
H1S3-GAC2OUT2	AH11464	Water	09/09/04		x					x[1]
H1S3-MMF OUT6	AH11465	Water	09/09/04		x					x[1]
H1S3-BET GAC6	AH11466	Water	09/09/04		x					x[1]
H1S3-GAC OUT6	AH11467	Water	09/09/04		x					x[1]
H1S3-MMF OUT10	AH11468	Water	09/09/04		x					x[1]
H1S3-BET GAC10	AH11469	Water	09/09/04		x					x[1]
H1S-GAC2 OUT10	AH11470	Water	09/09/04		x					x[1]
H1S2-MMF OUT RSSCT	AH11491	Water	09/09/04				x			
H1S3-MMF IN(T)	AH11471	Water	09/09/04							x[2]
H1S3-MMF IN(D)	AH11472	Water	09/09/04							x[2]
H1S3-MMF OUT2(T)	AH11473	Water	09/09/04							x[2]
H1S3-MMF OUT2(D)	AH11474	Water	09/09/04							x[2]
H1S3-BET GAC2(T)	AH11475	Water	09/09/04							x[2]
H1S3-BET GAC2(D)	AH11476	Water	09/09/04							x[2]
H1S3-GAC2 OUT2(T)	AH11477	Water	09/09/04							x[2]
H1S3-GAC2 OUT2(D)	AH11478	Water	09/09/04							x[2]
H1S3-MMF OUT6(T)	AH11479	Water	09/09/04							x[2]
H1S3-MMF OUT6(D)	AH11480	Water	09/09/04							x[2]
H1S3-BET GAC6(T)	AH11481	Water	09/09/04							x[2]
H1S3-BET GAC6(D)	AH11482	Water	09/09/04							x[2]
H1S3-GAC2 OUT6(T)	AH11483	Water	09/09/04							x[2]
H1S3-GAC2 OUT6(D)	AH11484	Water	09/09/04							x[2]
H1S3-MMF OUT10(T)	AH11485	Water	09/09/04							x[2]

Sample ID	Lab ID	Matrix	Sample Date	Analysis						
				VOC	PAH SVOC	DIOXIN	PCB	PEST	MET	MISC
H1S3-MMF OUT10(D)	AH11486	Water	09/09/04							x[2]
H1S3-BET GAC10(T)	AH11487	Water	09/09/04							x[2]
H1S3-BET GAC10(D)	AH11488	Water	09/09/04							x[2]
H1S3-GAC2 OUT10(T)	AH11489	Water	09/09/04							x[2]
H1S3-GAC2 OUT10(D)	AH11490	Water	09/09/04							x[2]
PFP-17	AH11456	Sediment	09/08/04							x[2]
PFP-33	AH11457	Sediment	09/08/04							x[2]
PFP-35	AH11458	Sediment	09/08/04							x[2]
PFP-40	AH11459	Sediment	09/08/04							x[2]
PFP-47	AH11460	Sediment	09/08/04							x[2]

1 Miscellaneous parameters include Total Suspended Solids (TSS).
2 Miscellaneous parameters include Total Organic Carbon (TOC).

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270.

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 tose 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 of soil samples is 14 days from sample collection to extraction and 40 from extraction to days to analysis.

All samples were extracted and analyzed within the technical holding time.

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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the 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 within the 15% control limit for all target compounds.

4.2 Continuing Calibration

The response for all target compounds in the continuing calibration standards were within 20% difference (%D) of the initial calibration.

.

5. Surrogates / System Monitoring Compounds

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

All surrogate recoveries were within control limits.

6. Internal Standard Performance

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

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

7. Compound Identification

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 (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method.

No MS/MSD was analyzed on the samples in this data set.

9. Laboratory Control Sample (LCS)

The LCS recoveries were within control limits.

10. Field Duplicate

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

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 Checklist

Semi-volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?		X	
Were matrix spikes analyzed at the required frequency			X
How many spike recoveries were outside of QC limits?			
NA out of NA			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
NA out of NA			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		

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

	YES	NO	NA
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		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?	X		
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
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 ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?		X	

Semi-volatile Qualifier Summary

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		2FP	PHL	NBZ	FBP	TBP	TPH	2CP	DCB	DCB	NPT	ANT	PHN	CRY	PRY
H1S3-MMF IN		--	--			--		--	--						
H1S3-MMF OUT2		--	--			--		--	--						
H1S3-BET GAC2		--	--			--		--	--						
H1S3-GAC2OUT2		--	--			--		--	--						
H1S3-MMF OUT6		--	--			--		--	--						
H1S3-BET GAC6		--	--			--		--	--						
H1S3-GAC OUT6		--	--			--		--	--						
H1S3-MMF OUT10		--	--			--		--	--						
H1S3-BET GAC10		--	--			--		--	--						
H1S-GAC2 OUT10		--	--			--		--	--						

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
↓↓ Response <25%

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

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082.

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 of soil samples is 14 days from sample collection to extraction and 40 from extraction to days to analysis.

All samples were extracted and analyzed within the technical 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. Rinse blanks measure contamination of samples during field operations.

Aroclor 1221 was detected in the method blank. Since the associated samples were at a concentration greater than the blank action level, no data were qualified based on the concentration of the associated 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. Alternatively, calibration curves may be constructed.

Multi-point calibration was performed for Aroclors 1221, 1242 and 1254 only. Single-point calibrations were performed for the remaining 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 identified compounds met the specified criteria.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

No MS/MSD analyses were performed on the samples in this data set.

8. Matrix Spike Blank

The matrix spike blank recoveries were within control limits.

9. Field Duplicate

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

10. System Performance and Overall Assessment

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

Data Validation Checklist

PCB Data Validation Checklist

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

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
Aroclor 1016/1260	X		
Aroclors 1221, 1232, 1242, 1248, and 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			

	YES	NO	NA
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		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?		X	

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*			
		TCX-1	TCX-2	DCB-1	DCB-2
H1S2-MMF OUT RSSCT			--		--

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.

ADDITIONAL PARAMETERS

Introduction

Analyses were performed according to the following methods:

TOC	EPA 415.1
TSS	EPA 160.2

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:

ND The analyte was analyzed for but not detected. The associated value is the analyte reporting limit.

B The reported value was obtained from a reading less than the reporting limit (RL) but greater than or equal to the instrument detection limit (IDL).

J The associated numerical value is an estimated concentration only.

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.

* Duplicate analysis not within control limits.

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

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. Rinse blanks measure contamination of samples during field operations.

No compounds were detected in the blanks.

3. Calibration

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

All calibration data were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

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

The relative percent difference between recoveries was above the control limit for TOC. Data for TOC were qualified as estimated in sample PFP-47.

5. Field Duplicate

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

6. Laboratory Control Sample (LCS)

The 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 Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Percent solids calculation present for soils/sediments?			X
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:		X	
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?	X		
Initial and Continuing Calibration Blanks			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		

	YES	NO	NA
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the RL?	X		
Preparation Blank			
Was one prep. blank analyzed for:			
each batch of digested samples?	X		
each matrix type?	X		
Are all preparation blanks less than the RL?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all results within the control limits?		X	
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Are all values within control limits?		X	
Field Duplicates			
Were field duplicates analyzed?		X	
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		

Corrected Sample Analysis Data Sheets

FORM 1 BBL ENGINEERS INC. SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1S3-MMFIN

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11461

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6092917

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/29/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26 1.05	J u
206-44-0	Fluoranthene	1.20	J
129-00-0	Pyrene	2.25	J
56-55-3	Benzo(a)Anthracene	2.04	J
218-01-9	Chrysene	2.59	J
205-99-2	Benzo(b)fluoranthene	2.23	J
207-08-9	Benzo(k)fluoranthene	2.91	J
50-32-8	Benzo(a)pyrene	2.61	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.53	J
53-70-3	Dibenzo(a,h)anthracene	3.03	J
191-24-2	Benzo(g,h,i)perylene	2.85	J
86-74-8	Carbazole	2.90	J
		9.26	U

note: the lab incorrectly reported "J" values for several compounds

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BBL ENGINEERS INC. SAMPLE NO.

H1S3-MMFOUT2

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11462

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6092918

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/29/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26	U
206-44-0	Fluoranthene	9.26	U
129-00-0	Pyrene	9.26	U
56-55-3	Benzo(a)Anthracene	9.26	U
218-01-9	Chrysene	9.26	U
205-99-2	Benzo(b)fluoranthene	9.26	U
207-08-9	Benzo(k)fluoranthene	9.26	U
50-32-8	Benzo(a)pyrene	9.26	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.26	U
53-70-3	Dibenzo(a,h)anthracene	9.26	U
191-24-2	Benzo(g,h,i)perylene	9.26	U
86-74-8	Carbazole	9.26	U

FORM 1 BBL ENGINEERS INC. SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1S3-BETGAC2

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11463

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6092919

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/29/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26	U
206-44-0	Fluoranthene	9.26	U
129-00-0	Pyrene	9.26	U
56-55-3	Benzo(a)Anthracene	9.26	U
218-01-9	Chrysene	9.26	U
205-99-2	Benzo(b)fluoranthene	9.26	U
207-08-9	Benzo(k)fluoranthene	9.26	U
50-32-8	Benzo(a)pyrene	9.26	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.26	U
53-70-3	Dibenzo(a,h)anthracene	9.26	U
191-24-2	Benzo(g,h,i)perylene	9.26	U
86-74-8	Carbazole	9.26	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BBL ENGINEERS INC. SAMPLE NO.

H1S3-GAC2OUT2

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11464

Sample wt/vol: 1060 (g/mL) ML Lab File ID: M6092920

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/29/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.43	U
91-57-6	2-Methylnaphthalene	9.43	U
208-96-8	Acenaphthylene	9.43	U
83-32-9	Acenaphthene	9.43	U
132-64-9	Dibenzofuran	9.43	U
86-73-7	Fluorene	9.43	U
85-01-8	Phenanthrene	9.43	U
120-12-7	Anthracene	9.43	U
206-44-0	Fluoranthene	9.43	U
129-00-0	Pyrene	9.43	U
56-55-3	Benzo(a)Anthracene	9.43	U
218-01-9	Chrysene	9.43	U
205-99-2	Benzo(b)fluoranthene	9.43	U
207-08-9	Benzo(k)fluoranthene	9.43	U
50-32-8	Benzo(a)pyrene	9.43	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.43	U
53-70-3	Dibenzo(a,h)anthracene	9.43	U
191-24-2	Benzo(g,h,i)perylene	9.43	U
86-74-8	Carbazole	9.43	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BBL ENGINEERS INC. SAMPLE NO.

H1S3-MMFOUT6

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11465

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6092921

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/30/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26	U
206-44-0	Fluoranthene	9.26	U
129-00-0	Pyrene	9.26	U
56-55-3	Benzo(a)Anthracene	9.26	U
218-01-9	Chrysene	9.26	U
205-99-2	Benzo(b)fluoranthene	9.26	U
207-08-9	Benzo(k)fluoranthene	9.26	U
50-32-8	Benzo(a)pyrene	9.26	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.26	U
53-70-3	Dibenzo(a,h)anthracene	9.26	U
191-24-2	Benzo(g,h,i)perylene	9.26	U
86-74-8	Carbazole	9.26	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BBL ENGINEERS INC. SAMPLE NO.

H1S3-BETGAC6

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11466

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6093004

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/30/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26	U
206-44-0	Fluoranthene	9.26	U
129-00-0	Pyrene	9.26	U
56-55-3	Benzo(a)Anthracene	9.26	U
218-01-9	Chrysene	9.26	U
205-99-2	Benzo(b)fluoranthene	9.26	U
207-08-9	Benzo(k)fluoranthene	9.26	U
50-32-8	Benzo(a)pyrene	9.26	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.26	U
53-70-3	Dibenzo(a,h)anthracene	9.26	U
191-24-2	Benzo(g,h,i)perylene	9.26	U
86-74-8	Carbazole	9.26	U

FORM 1 BBL ENGINEERS INC. SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1S3-GAC2OUT6

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11467

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6092925

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/30/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26	U
206-44-0	Fluoranthene	9.26	U
129-00-0	Pyrene	9.26	U
56-55-3	Benzo(a)Anthracene	9.26	U
218-01-9	Chrysene	9.26	U
205-99-2	Benzo(b)fluoranthene	9.26	U
207-08-9	Benzo(k)fluoranthene	9.26	U
50-32-8	Benzo(a)pyrene	9.26	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.26	U
53-70-3	Dibenzo(a,h)anthracene	9.26	U
191-24-2	Benzo(g,h,i)perylene	9.26	U
86-74-8	Carbazole	9.26	U

FORM 1 BBL ENGINEERS INC. SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1S3-MMFOUT10

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11468

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6092926

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/30/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26	U
206-44-0	Fluoranthene	9.26	U
129-00-0	Pyrene	9.26	U
56-55-3	Benzo(a)Anthracene	9.26	U
218-01-9	Chrysene	9.26	U
205-99-2	Benzo(b)fluoranthene	9.26	U
207-08-9	Benzo(k)fluoranthene	9.26	U
50-32-8	Benzo(a)pyrene	9.26	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.26	U
53-70-3	Dibenzo(a,h)anthracene	9.26	U
191-24-2	Benzo(g,h,i)perylene	9.26	U
86-74-8	Carbazole	9.26	U

FORM 1 BBL ENGINEERS INC. SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1S3-BETGAC10

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11469

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6092511

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/25/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26	U
206-44-0	Fluoranthene	9.26	U
129-00-0	Pyrene	9.26 1.08	J U
56-55-3	Benzo(a)Anthracene	0.983	J
218-01-9	Chrysene	1.17	J
205-99-2	Benzo(b)fluoranthene	1.08	J
207-08-9	Benzo(k)fluoranthene	1.41	J
50-32-8	Benzo(a)pyrene	1.20	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.17	J
53-70-3	Dibenzo(a,h)anthracene	1.42	J
191-24-2	Benzo(g,h,i)perylene	1.35	J
86-74-8	Carbazole	1.02	J
		0.942	J

Note: the lab incorrectly reported "J" values for several compounds!

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BBL ENGINEERS INC. SAMPLE NO.

H1S3-GAC2OUT10

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04090122BBL-DS

Matrix: (soil/water) WATER Lab Sample ID: AH11470

Sample wt/vol: 1080 (g/mL) ML Lab File ID: M6092512

Level: (low/med) LOW Date Received: 09/10/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 09/15/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/25/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9.26	U
91-57-6	2-Methylnaphthalene	9.26	U
208-96-8	Acenaphthylene	9.26	U
83-32-9	Acenaphthene	9.26	U
132-64-9	Dibenzofuran	9.26	U
86-73-7	Fluorene	9.26	U
85-01-8	Phenanthrene	9.26	U
120-12-7	Anthracene	9.26	U
206-44-0	Fluoranthene	9.26	U
129-00-0	Pyrene	9.26	U
56-55-3	Benzo(a)Anthracene	9.26	U
218-01-9	Chrysene	9.26	U
205-99-2	Benzo(b)fluoranthene	9.26	U
207-08-9	Benzo(k)fluoranthene	9.26	U
50-32-8	Benzo(a)pyrene	9.26	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.26	U
53-70-3	Dibenzo(a,h)anthracene	9.26	U
191-24-2	Benzo(g,h,i)perylene	9.26	U
86-74-8	Carbazole	9.26	U

1D-1[1]

PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.

ELAP ID No.:	11078	SDG No.:	04090122
Matrix:	WATER	CLIENT ID:	H1S2-MMF OUT RSSCT
Sample wt(Dry)/vol:	1.08 (L)	LAB SAMPLE ID:	AH11491
% Moisture:	0.0	LAB FILE ID:	AH11491
Extraction :	CLLE	DATE RECEIVED:	9/10/2004
Conc. Extract Volume:	5000 (µL)	DATE EXTRACTED:	9/10/2004
Injection Volume:	0.4 (µL)	DATE ANALYZED:	9/10/2004
Method:	GEHR METHOD 8082 (PCB)	DILUTION FACTOR:	2
		SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_090404A_gehr.XLS

NEA File ID: S:\CERT04\04090122_8082W_RUSH.XLS 1D-1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.021	U
11104-28-2	Aroclor 1221	0.24	~~B~~
11141-16-5	Aroclor 1232	0.021	U
53469-21-9	Aroclor 1242	0.021	U
12672-29-6	Aroclor 1248	0.021	U
11097-69-1	Aroclor 1254	0.021	U
11096-82-5	Aroclor 1260	0.021	U
1336-36-3	Total PCB	0.24	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1
DATA SHEET
TOTAL ORGANIC CARBON

LAB NAME: NORTHEAST ANALYTICAL, INC.

LAB CODE: NYS ELAP #11078

SDG No.: AH11471

MATRIX: WATER

INSTRUMENT ID#: HORIBA PIR 2000

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

NEA SAMPLE #	CLIENT SAMPLE #	DATE ANALYZED	DATE RECEIVED	CONC.	C	Q
AH11471	H1S3-MMF IN(T)	09/27/2004	09/10/2004	5.30		
AH11472	H1S3-MMF IN(D)	09/27/2004	09/10/2004	5.78		
AH11473	H1S3-MMF OUT2(T)	09/27/2004	09/10/2004	5.32		
AH11474	H1S3-MMF OUT2(D)	09/27/2004	09/10/2004	5.18		
AH11475	H1S3-BET GAC2(T)	09/27/2004	09/10/2004	ND		
AH11476	H1S3-BET GAC2(D)	09/27/2004	09/10/2004	ND		
AH11477	H1S3-GAC2 OUT2(T)	09/27/2004	09/10/2004	ND		
AH11478	H1S3-GAC2 OUT2(D)	09/27/2004	09/10/2004	ND		
AH11479	H1S3-MMF OUT6(T)	09/27/2004	09/10/2004	5.13		
AH11480	H1S3-MMF OUT6(D)	09/27/2004	09/10/2004	4.74		
AH11481	H1S3-BET GAC6(T)	09/27/2004	09/10/2004	ND		
AH11482	H1S3-BET GAC6(D)	09/27/2004	09/10/2004	ND		
AH11483	H1S3-GAC2 OUT6(T)	09/27/2004	09/10/2004	ND		
AH11484	H1S3-GAC2 OUT6(D)	09/27/2004	09/10/2004	ND		
AH11485	H1S3-MMF OUT10(T)	09/27/2004	09/10/2004	5.21		
AH11486	H1S3-MMF OUT10(D)	09/27/2004	09/10/2004	5.14		
AH11487	H1S3-BET GAC10(T)	09/27/2004	09/10/2004	ND		
AH11488	H1S3-BET GAC10(D)	09/27/2004	09/10/2004	ND		
AH11489	H1S3-GAC2 OUT10(T)	09/27/2004	09/10/2004	ND		
AH11490	H1S3-GAC2 OUT10(D)	09/27/2004	09/10/2004	ND		

S:\METALQC\TOCForms\TOC 2004\DATA14471W.DOC

Form 1
TOTAL ORGANIC CARBON

Lab Name: Northeast Analytical, Inc.

Lab Code: NYS ELAP #11078

SDG Number: 04090122

Instrument ID: DC-80 / Boat Module / Horiba PIR 200

Matrix: Sediment

Units: mg/kg

S:\Data04\[TOC04090122.xls]Form 1

NEA Sample ID	Client Sample ID	Date Received	Date Analyzed	Concentration	Units	Concentration Qualifier	Qualifier
AH11456	PFP-17	9/10/2004	9/22/2004	35000	mg/kg		
AH11457	PFP-33	9/10/2004	9/22/2004	25000	mg/kg		
AH11458	PFP-35	9/10/2004	9/22/2004	59000	mg/kg		
AH11459	PFP-40	9/10/2004	9/22/2004	ND	mg/kg		
AH11460	PFP-47	9/10/2004	9/22/2004	110000 J	mg/kg		

NORTHEAST ANALYTICAL
ENVIRONMENTAL LAB SERVICES
2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS
09/18/2004

BBL ENGINEERS, INC.
6723 TOWPATH ROAD
SYRACUSE, NY 13039
CONTACT: DON SAUDA

MATRIX : WATER
DATE RECEIVED: 09/10/2004 **TIME:** 9:40
SAMPLED BY: P. FILIPPETTI
CUSTOMER PO: N/A

PROJECT: GE HUDSON RIVER TREATABILITY STUDY
LOCATION: HUDSON RIVER
LAB ELAP #: 11078

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	TIME SAMPLED	RESULTS	PQL	UNIT	DATE ANALYZED
Total Suspended Solids								
AH11461	HIS3-MMF IN	EPA 160.2	09/09/2004	N/A	3.69	1.54	mg/L	09/17/2004
AH11462	HIS3-MMF OUT2	EPA 160.2	09/09/2004	N/A	1.37	1.05	mg/L	09/17/2004
AH11463	HIS3-BET GAC2	EPA 160.2	09/09/2004	N/A	1.19	1.08	mg/L	09/17/2004
AH11464	HIS3-GAC2 OUT2	EPA 160.2	09/09/2004	N/A	ND	1.00	mg/L	09/17/2004
AH11465	HIS3-MMF OUT6	EPA 160.2	09/09/2004	N/A	ND	1.05	mg/L	09/17/2004
AH11466	HIS3-BET GAC6	EPA 160.2	09/09/2004	N/A	ND	1.05	mg/L	09/17/2004
AH11467	HIS3-GAC2 OUT6	EPA 160.2	09/09/2004	N/A	ND	1.03	mg/L	09/17/2004
AH11468	HIS3-MMF OUT10	EPA 160.2	09/09/2004	N/A	1.11	1.11	mg/L	09/17/2004
AH11469	HIS3-BET GAC10	EPA 160.2	09/09/2004	N/A	1.60	1.00	mg/L	09/17/2004
AH11470	HIS3-GAC2 OUT10	EPA 160.2	09/09/2004	N/A	ND	1.03	mg/L	09/17/2004

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.

Sample Delivery Group Case Narrative

This sample delivery group consists of water samples received on September 10, 2004 for analysis and includes assigned Sample Delivery Group Number: 04090122. The samples are from Project Name: G.E. Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH11461	H1S3-MMF IN
AH11462	H1S3-MMF OUT2
AH11463	H1S3-BET GAC2
AH11464	H1S3-GAC2 OUT2
AH11465	H1S3-MMF OUT6
AH11466	H1S3-BET GAC6
AH11467	H1S3-GAC2 OUT6
AH11468	H1S3-MMF OUT10
AH11469	H1S3-BET GAC10
AH11470	H1S3-GAC2 OUT10
AH11471	H1S3-MMF IN(T)
AH11472	H1S3-MMF IN(D)
AH11473	H1S3-MMF OUT2(T)
AH11474	H1S3-MMF OUT2(D)
AH11475	H1S3-BET GAC2(T)
AH11476	H1S3-BET GAC2(D)
AH11477	H1S3-GAC2 OUT2(T)
AH11478	H1S3-GAC2 OUT2(D)
AH11479	H1S3-MMF OUT6(T)
AH11480	H1S3-MMF OUT6(D)
AH11481	H1S3-BET GAC6(T)
AH11482	H1S3-BET GAC6(D)
AH11483	H1S3-GAC2 OUT6(T)
AH11484	H1S3-GAC2 OUT6(D)
AH11485	H1S3-MMF OUT10(T)
AH11486	H1S3-MMF OUT10(D)
AH11487	H1S3-BET GAC10(T)
AH11488	H1S3-BET GAC10(D)
AH11489	H1S3-GAC2 OUT10(T)
AH11490	H1S3-GAC2 OUT10(D)
AH11491	H1S2-MMF OUT RSSCT

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by GEHR Method 8082. The Continuous Liquid Liquid Extraction Method (GEHR- Method 3520) was employed for the water samples. The following technical and administrative items were noted for the analysis:

(1.) Concentration results for this SDG are reported to the Method Detection Limit as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan. Concentration results which are greater than the MDL but less than the Practical Quantitation Limit (PQL) are flagged (J) for this methodology.

(2.) Single Column Gas Chromatograph analysis was performed for all samples in this SDG as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan.

Form – 1 Qualifier Summary PCB Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Total Organic Carbon Analysis

Analysis for Total Organic Carbon was performed by EPA Method 415.1 for the aqueous samples. The following technical and administrative items were noted for the analysis:

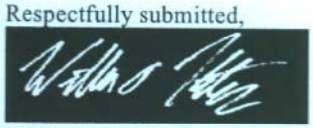
(1.) All quality assurance parameters were met for the analysis.

Total Suspended Solids Analysis

Analysis for TSS was performed by EPA Method 160.2 for the water samples. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,



William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2004\101504C.doc

October 6, 2004

Sample Delivery Group Case Narrative

This sample delivery group consists of water samples received on September 10, 2004 for PCB analysis and includes assigned Sample Delivery Group Number: 04090122. The samples are from Project Name: Hudson River Treatability Study, Project Number 204.32.004. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH11461	H1S3-MMF IN
AH11462	H1S3-MMF OUT2
AH11463	H1S3-BET GAC2
AH11464	H1S3-GAC2 OUT2
AH11465	H1S3-MMF OUT6
AH11466	H1S3-BET GAC6
AH11467	H1S3-GAC2 OUT6
AH11468	H1S3-MMF OUT10
AH11469	H1S3-BET GAC10
AH11470	H1S3-GAC2 OUT10

PAH Analysis by EPA 8270

Analysis for Polynuclear Aromatic Hydrocarbons in water was performed by EPA Method 8270. The continuous liquid liquid extraction method (EPA 3520) was employed for the water samples. The following administrative and technical items were noted for the analysis:

(1.) Sample (NEA ID: AH11470) was partially lost during the extraction procedure after approximately 2 hours of the total 5 hr. extraction time due to continuous liquid liquid apparatus failure.

(2.) The laboratory control spike mixture did not include the components: 2-Methylnapthalene, Dibenzofuran, and Carbazole. These analytes are not reported on the Form 3 LCS summary.

(3.) The response factor Percent Relative Standard Deviation exceeded method specified limits (< 15%) for the surrogate compound Nitrobenzene-d5 for the initial calibration sequence analyzed on 9/25/04. Please see Form 6 for details.

(4.) The response factor Percent Relative Standard Deviation exceeded method specified limits (< 15%) for the surrogate compound Nitrobenzene-d5 for the initial calibration sequence analyzed on 9/29/04. Please see Form 6 for details.

Respectfully submitted,

William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2003\100604C.doc

October 15, 2004

Sample Delivery Group Case Narrative

This sample delivery group consists of sediment samples received on September 10, 2004 for analysis and includes assigned Sample Delivery Group Number: 04090122. The samples are from Project Name: G.E Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH11456	PFP-17
AH11457	PFP-33
AH11458	PFP-35
AH11459	PFP-40
AH11460	PFP-47

Total Organic Carbon Analysis

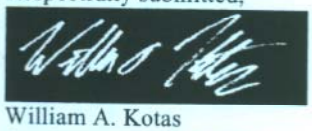
Analysis for Total Organic Carbon was performed by EPA Lloyd Kahn Method for the sediment samples. The following technical and administrative items were noted for the analysis:

(1.) The Laboratory Duplicate Relative Percent Difference exceeded lab established limits for sample (NEA ID: AH11691). Please see Form 5 for details.

Form – 1 Qualifier Summary TOC Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Respectfully submitted,



William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2003\101504E.doc

Laboratory Narrative

August 27, 2004

CASE NARRATIVE

This data summary package is comprised of sediment samples received for analysis on July 17, 2004 (Assigned Sample Delivery Group: 04070081). The samples are from Project Name: GE Hudson River Treatability Study, Project Location: Hudson River, NY. The samples were collected by Blasland, Bouck & Lee, (BBL) on behalf of the General Electric Company on July 15, 2004 and July 16, 2004. Samples were delivered to Northeast Analytical, Inc. (NEA) by UPS courier service on July 17, 2004. All samples were received at the laboratory intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH07372	S3-05
AH07373	S4B-04
AH07374	S2-05
AH07375	S1-05

Total PCBs by Green Bay Method – NEA SOP NE013_07:

Analysis for Total PCBs was performed by NEA SOP NE013_07. Extraction of the sediment sample was performed by Pressurized Fluid Extraction SW-846 Method 3545 (NEA SOP GEHR3545) The following technical and administrative items were noted for the analysis.

All quality assurance parameters were met for the analysis.

Qualifier Summary:

The following Organic and Inorganic analysis data qualifiers were used for the analyses.

J- Denotes concentration result reported was less than the Practical Quantitation Limit but greater than the Method Detection Limit.

B- Denotes analyte observed in the associated method blank sample

Respectfully submitted,

Robert E. Wagner

Robert E. Wagner
Laboratory Director
S:\forms\catb\casen\qea2004\040827MA.doc

DATA REVIEW FOR

General Electric
Hudson River Treatability Study

SDG# 04090339

PCB ANALYSES

Analyses performed by:

Northeast Analytical Laboratories
Schenectady, 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# 04090339 for sampling of the GE Hudson Treatability Study. 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				
				PAH SVOC	Dioxin	PCB	MET	MISC
H1S4A Filtrate-T	AH13754	Water	09/27/04			x		
H1S4A Filtrate-D	AH13755	Water	09/27/04			x		
H1S4A Filtrate-<5um-T	AH13756	Water	09/27/04			x		
H1S4A Filtrate-<5um-D	AH13757	Water	09/27/04			x		

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082.

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 are 7 days from sample receipt 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. Rinse blanks measure contamination of samples during field operations.

Aroclors 1221 and 1242 were detected in the method blank. Since associated sample data were either non-detect or greater than the blank action level, no data were qualified based on the blank content.

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. Alternatively, calibration curves may be constructed.

The initial calibrations were within control limits.

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.

Surrogates were diluted in all samples. No data were qualified based on the diluted surrogates. All other 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 identified compounds met the specified criteria.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD data are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

No MS/MSD analyses were performed on the samples in this data set.

8. Matrix Spike Blank

The matrix spike blank recoveries were within control limits.

9. Field Duplicate

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

10. System Performance and Overall Assessment

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

Data Validation Checklist

PCB Data Validation Checklist

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

	YES	NO	NA
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
peak resolution check		X	
Aroclor 1016/1260	X		
Aroclors 1221, 1232, 1242, 1248, and 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD or r2 for the initial calibration within acceptable limits for all analytes?	X		
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?			X
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) for all continuing calibration standards within acceptable limits?	X		
Analytical Sequence			
Is an analytical sequence summary form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	

	YES	NO	NA
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?		X	

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCMX	DCB
H1S4A Filtrate-T			
H1S4A Filtrate-D			
H1S4A Filtrate-<5um-T			
H1S4A Filtrate-<5um-D			

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.

Corrected Sample Analysis Data Sheets

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04090339
ELAP ID No.:	11078	CLIENT ID:	H1S4A FILTRATE-T
Matrix:	WATER	LAB SAMPLE ID:	AH13754
Sample wt(Dry)/vol:	1.08 (L)	LAB FILE ID:	AH13754
% Moisture:	0.0	DATE RECEIVED:	9/28/2004
Extraction :	CLLE	DATE EXTRACTED:	9/30/2004
Conc. Extract Volume:	5000 (µL)	DATE ANALYZED:	10/1/2004
Injection Volume:	0.4 (µL)	DILUTION FACTOR:	40
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_090404A_gehr.XLS

NEA File ID: S:\CERT04\04090339_8082WATER.XLS 1D-1-1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.42	U
11104-28-2	Aroclor 1221	9.0	
11141-16-5	Aroclor 1232	0.42	U
53469-21-9	Aroclor 1242	0.42	U
12672-29-6	Aroclor 1248	0.42	U
11097-69-1	Aroclor 1254	0.42	U
11096-82-5	Aroclor 1260	0.42	U
1336-36-3	Total PCB	9.0	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.

ELAP ID No.:	11078	SDG No.:	04090339
Matrix:	WATER	CLIENT ID:	H1S4A FILTRATE-D
Sample wt(Dry)/vol:	1.04 (L)	LAB SAMPLE ID:	AH13755
% Moisture:	0.0	LAB FILE ID:	AH13755
Extraction :	CLLE	DATE RECEIVED:	9/28/2004
Conc. Extract Volume:	5000 (µL)	DATE EXTRACTED:	9/30/2004
Injection Volume:	0.4 (µL)	DATE ANALYZED:	10/1/2004
Method:	GEHR METHOD 8082 (PCB)	DILUTION FACTOR:	40
		SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_090404A_gehr.XLS

NEA File ID: S:\CERT04\04090339_8082WATER.XLS 1D-1-2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.42	U
11104-28-2	Aroclor 1221	10	~~B~~
11141-16-5	Aroclor 1232	0.42	U
53469-21-9	Aroclor 1242	0.42	U
12672-29-6	Aroclor 1248	0.42	U
11097-69-1	Aroclor 1254	0.42	U
11096-82-5	Aroclor 1260	0.42	U
1336-36-3	Total PCB	10	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04090339
ELAP ID No.:	11078	CLIENT ID:	H1S4A FILTRATE-<5um-T
Matrix:	WATER	LAB SAMPLE ID:	AH13756
Sample wt(Dry)/vol:	1.06 (L)	LAB FILE ID:	AH13756
% Moisture:	0.0	DATE RECEIVED:	9/28/2004
Extraction :	CLLE	DATE EXTRACTED:	9/30/2004
Conc. Extract Volume:	5000 (µL)	DATE ANALYZED:	10/1/2004
Injection Volume:	0.4 (µL)	DILUTION FACTOR:	60
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_090404A_gehr.XLS

NEA File ID: S:\CERT04\04090339_8082WATER.XLS 1D-1-3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.62	U
11104-28-2	Aroclor 1221	14	
11141-16-5	Aroclor 1232	0.62	U
53469-21-9	Aroclor 1242	0.62	U
12672-29-6	Aroclor 1248	0.62	U
11097-69-1	Aroclor 1254	0.62	U
11096-82-5	Aroclor 1260	0.62	U
1336-36-3	Total PCB	14	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

1D-1[1]
PCB ANALYSIS DATA SHEET

Northeast Analytical Inc.		SDG No.:	04090339
ELAP ID No.:	11078	CLIENT ID:	H1S4A FILTRATE-<5um-D
Matrix:	WATER	LAB SAMPLE ID:	AH13757
Sample wt(Dry)/vol:	1.04 (L)	LAB FILE ID:	AH13757
% Moisture:	0.0	DATE RECEIVED:	9/28/2004
Extraction :	CLLE	DATE EXTRACTED:	9/30/2004
Conc. Extract Volume:	5000 (µL)	DATE ANALYZED:	10/1/2004
Injection Volume:	0.4 (µL)	DILUTION FACTOR:	50
Method:	GEHR METHOD 8082 (PCB)	SULFUR CLEANUP:	YES

GC Column : J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID:0.25mm

NEA Form ID: S:\FORMS\CATB\H2O_GC11_090404A_gehr.XLS

NEA File ID: S:\CERT04\04090339_8082WATER.XLS 1D-1-4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L)	Q
12674-11-2	Aroclor 1016	0.52	U
11104-28-2	Aroclor 1221	11	~~B~~
11141-16-5	Aroclor 1232	0.52	U
53469-21-9	Aroclor 1242	0.52	U
12672-29-6	Aroclor 1248	0.52	U
11097-69-1	Aroclor 1254	0.52	U
11096-82-5	Aroclor 1260	0.52	U
1336-36-3	Total PCB	11	

[1] Form based upon NYS-DEC Form 1-CLP-PEST

FORM I-CLP-PCB (NEA)

Laboratory Narrative

October 5, 2004

Sample Delivery Group Case Narrative

This sample delivery group consists of water samples received on September 28, 2004 for analysis and includes assigned Sample Delivery Group Number: 04090339. The samples are from Project Name: G.E. Hudson River Treatability Study. All samples were shipped to the laboratory from the Waste Stream Technologies Inc. processing facility in Buffalo, NY via UPS delivery service. All samples were received intact and within holding times.

This sample delivery group consists of the following samples:

NEA Sample ID:	Client Sample ID:
AH13754	H1S4A FILTRATE-T
AH13755	H1S4A FILTRATE-D
AH13756	H1S4A FILTRATE-<5um-T
AH13757	H1S4A FILTRATE-<5um-D

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by GEHR Method 8082. The Continuous Liquid Liquid Extraction Method (GEHR- Method 3520) was employed for the water samples. Samples designated for dissolved fraction analysis were filtered by Northeast Analytical Inc. The following technical and administrative items were noted for the analysis:

(1.) Concentration results for this SDG are reported to the Method Detection Limit as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan. Concentration results which are greater than the MDL but less than the Practical Quantitation Limit (PQL) are flagged (J) for this methodology.

(2.) Single Column Gas Chromatograph analysis was performed for all samples in this SDG as per instruction by the General Electric Hudson River Sediment Sampling and Analysis Project Plan.

(3.) The TCMX and DCBP surrogate compounds were diluted out for several samples due to the high concentration of PCB contained in the samples. Please see Form 2F-1 for details.

(4.) The associated method blank sample for the filtered analysis (NEA ID: AH13755B) contained Aroclor 1221 and Aroclor 1242 at concentrations greater than the Method Detection Limit. All associated positive sample concentration results were flagged (B) to denote the observed contamination.

Form – 1 Qualifier Summary PCB Analysis:

J-Denotes concentration result greater than the MDL but less than the PQL
B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL
U-Denotes analyte not observed at a concentration greater than the MDL

Respectfully submitted,

William A. Kotas
Quality Assurance Officer
S:\forms\catb\casen\casen2003\100504B.doc