LABELLA Associates, P.C.

Engineering
Architecture
Environmental
Planning

REMEDIAL INVESTIGATION (RI) REPORT

VOLUME II: Data Usability Summary Reports (DUSRs)

15-ACRE PRAXAIR SITE
137 47TH STREET
NIAGARA FALLS, NEW YORK

Abridged version due to web site limitations. For complete document visit the document repository

Prepared for:

Covanta Niagara, L.P.
100 Energy Boulevard at 56th Street
Niagara Falls, New York 14304

March 2013

REMEDIAL INVESTIGATION OF 15-ACRE PRAXAIR SITE
137 47th STREET
NIAGARA FALLS, NEW YORK
RI REPORT VOLUME II
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COVANTA RECOVERY SITE

SOIL SAMPLES COLLECTED MAY 2012

SDG 12:2132, 12:2150
Volatile Organics, Semivolatile Organics
Pesticides, PCB, Metals

Prepared for:

LABELLA ASSOCIATES, P.C.
Olympic Towers
300 Pearl Street, Suite 325
Buffalo, NY 14202

Prepared by:

DATAVAL, Inc.
518 Hooper Rd., PMB 283
Endwell, NY 13760

SECTION 1.1

Volatiles

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2132 - 2150
Sampled May 2012

VOLATILE ORGANICS

TP-01-1'-3'	(12:2132-01)	TP-02-6"	(12:2132-02)
TP-18-1'-2'	(12:2132-03)	TP-18-2'-2.75'	(12:2132-04)
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TP-10-4'-6'	(12:2132-07)	TP-20-1'-2'	(12:2132-08)
TP-22-1'-2.5'	(12:2132-09)	TP-22-1'2.5'	(12:2132-16)
TP-30-2.5'-4'	(12:2150-01)	TP-30-4'-5'	(12:2150-02)
TP-23-2.5'-3.5'	(12:2150-03)	TP-28-3.5'-4'	(12:2150-04)
TP-26-1.5'-2.5'	(12:2150-05)	TP-24-2.75'-3.5'	(12:2150-06)

DATA ASSESSMENT

A volatile organics data package containing analytical results for sixteen soil samples was received from Labella Associates, P.C. on 16Jul12. The ASP Category B deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-24, Rev. #2, August 2008, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B) was used as a technical reference.

Acetone should be interpreted as undetected in this group of samples. Acetone concentrations, when present, are assumed to represent laboratory artifacts.

The acetone and methylene chloride results reported from this project have been qualified as estimations due to poor calibration performance.

The results reported from TP-18-1'-2', TP-15-6"-1.25', TP-20-1'-2', TP-22-1'-2.5', TP-22-1'-2.5DUP and TP-26-1.5'-2.5' have been qualified as estimations due to poor surrogate standard recoveries.

The TIC's reported from TP-14-2.5'-5.5' and TP-30-2.5'-4' have been flagged as presumptive identifications and estimated concentrations because mass spectra references were not provided to confirm these identifications.

CORRECTNESS AND USABILITY

It is noted that the laboratory did not consistently report analyte concentrations between the method detection limit and the reporting limit as present. The detection limits, as reported, are correct, but concentrations below this level may be present.

It is also noted that the laboratory included analytes that were not targeted by this program in its instrument calibrations. When detected in samples, these analytes were not reported on Form 1 because they were not targeted by this program. They were also not reported as TIC's because they were included in the instrument calibration.

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 22 July 12
James B. Baldwin

Sample History
Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the Verified Time of Sample Receipt (VTSR). Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOA samples must be analyzed within 12 days of VTSR, unpreserved samples within 5 days. The holding time for soils is 12 days.

This sample delivery group contained sixteen soil samples that were collected from the Covanta Recovery site between 14May12 and 16May12. Ten samples were collected on 14May12 and 15May12. They were shipped to the laboratory, via a laboratory courier on 15May12, arriving the next day. The final six samples were collected on 16May12. They were shipped to the laboratory on the day of collection and received on 17May12. Both shipments of samples arrived intact and properly chilled, with custody seals in place. Cooler temperatures of 1°C and 3°C were recorded at the time of sample receipt. The analysis of each sample was completed by 22May12, satisfying the ASP holding time limitations.

Blanks
Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Two method blanks were analyzed with this group of samples. Although both of these blanks demonstrated acceptable chromatography, both contained traces of acetone. Similar artifacts were found throughout this group of samples. Acetone should be considered undetected in this group of samples. Detection limits equaling PQL or the reported concentration, which ever is larger, should be assumed.

MS Tuning
Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations
Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range

through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration was performed on 11May12. Standards of 1, 5, 20, 50, 100, 150 and 200 µg/l were included. This calibration incorporated a heated purge. With the exception of acetone and methylene chloride, each analyte targeted by this program produced the required levels of instrument response and demonstrated an acceptable degree of linearity. Although methylene chloride standards produced the required levels of response, they demonstrated poor linearity. Although errors might be expected in measurements of methylene chloride, it may be assumed that this analyte would be detected if present in samples. Because methylene chloride was not found in samples, data qualifications are not required.

Acetone also demonstrated poor linearity. The acetone concentrations found in this group of samples have been qualified as estimations based on this performance.

Calibration check standards were analyzed on 18May12 and 22May12, prior to each 12-hour period of instrument operation that included samples from this program. When compared to the initial calibrations, both checks demonstrated unacceptably large shifts in the response of acetone and methylene chloride. The acetone and methylene chloride results reported from this group of samples have been qualified as estimations based on this performance.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Although Surrogate Summary Sheets were properly prepared, the laboratory applied its own acceptance criteria. When compared to the ASP requirements, unacceptably low recoveries were reported for the toluene-d8 additions to TP-18-1'-2', TP-15-6"-1.25', TP-20-1'-2', TP-22-1'-2.5', TP-22-1'-2.5DUP and TP-26-1.5'-2.5'. The results reported from these samples have been qualified as estimations due to this indication of negative bias.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was demonstrated by the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

TP-02-6" was selected for matrix spiking. The correct mixture of analytes was added to two portions of this sample. The recoveries reported for these additions demonstrated acceptable levels of measurement accuracy and precision.

Two spiked soil blanks (LCS) were also analyze with this group of samples. Both of these LCS produced acceptable analyte recoveries.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Field split duplicates of TP-22-1'-2.5' were included in this delivery group. A trace of carbon disulfide was present in TP-22-1'-2.5' but absent in the duplicate. Acetone was present in both samples, but assumed to represent a laboratory artifact. Both samples were otherwise negative.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples. Reported concentrations have been adjusted to reflect sample size and moisture content.

Although Tentatively Identified Compounds (TIC) were reported, mass spectra references were not provided to support the laboratory's identifications. Although most of these identifications appear to be appropriate, this cannot be confirmed without the missing spectra references. The TIC's reported from TP-14-2.5'-5.5' and TP-30-2.5'-4' have been qualified as "NJ" to indicate an estimated concentration and a presumptive identification.

It is noted that the laboratory did not consistently report analyte concentrations between the method detection limit and the reporting limit as present. The detection limits, as reported, are correct, but concentrations below this level may be present.

It is also noted that the laboratory included analytes that were not targeted by this program in its instrument calibrations. When detected in samples, these analytes were not reported on Form 1 because they were not targeted by this program. They were also not reported as TIC's because they were included in the instrument calibration.

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		BLANK ACETONE	CALIBRATE ACETONE	CALIBRATE METHCL	SUROGATES	CONFIRM TIC
TP-01-1'-3'	(12:2132-01)	119U	119UJ	8.63UJ		
TP-02-6"	(12:2132-02)	17.2U	17.2UJ	8.62UJ		
TP-18-1'-2'	(12:2132-03)	58.1U	58.1UJ	10.8UJ	ALL J/UJ	
TP-18-2'-2.75'	(12:2132-04)		21.8UJ	10.9UJ		
TP-15-6"-1.25'	(12:2132-05)	25.7U	25.7UJ	12.8UJ	ALL UJ	
TP-14-2.5'-5.5'	(12:2132-06)	27.6U	27.6UJ	10.7UJ		ALL NJ
TP-10-4'-6'	(12:2132-07)	58.2U	58.2UJ	11.8UJ		
TP-20-1'-2'	(12:2132-08)		22.6UJ	11.3UJ	ALL UJ	
TP-22-1'-2.5'	(12:2132-09)	30.4U	30.4UJ	11.6UJ	ALL J/UJ	
TP-22-1'2.5'	(12:2132-16)	20.0U	20.0UJ	10.0UJ	ALL UJ	
TP-30-2.5'-4'	(12:2150-01)	400U	400UJ	36.1UJ		ALL NJ
TP-30-4'-5'	(12:2150-02)	75.3U	75.3UJ	11.0UJ		
TP-23-2.5'-3.5'	(12:2150-03)	96.2J	96.2UJ	10.7UJ		
TP-28-3.5'-4'	(12:2150-04)	142U	142UJ	13.9UJ		
TP-26-1.5'-2.5'	(12:2150-05)	47.5U	47.5UJ	10.8UJ	ALL J/UJ	
TP-24-2.75'-3.5'	(12:2150-06)	63.3U	63.3UJ	11.9UJ		

SECTION 1.2

Semivolatiles

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2132 - 2150
Sampled May 2012

SEMIVOLATILE ORGANICS

TP-01-1'-3'	(12:2132-01)	TP-02-6"	(12:2132-02)
TP-18-1'-2'	(12:2132-03)	TP-18-2'-2.75'	(12:2132-04)
TP-15-6"-1.25'	(12:2132-05)	TP-14-2.5'-5.5'	(12:2132-06)
TP-10-4'-6'	(12:2132-07)	TP-20-1'-2'	(12:2132-08)
TP-22-1'-2.5'	(12:2132-09)	SS-1	(12:2132-10)
SS-2	(12:2132-11)	SS-3	(12:2132-12)
SS-4	(12:2132-13)	SS-5	(12:2132-14)
SS-6	(12:2132-15)	TP-22-1'2.5'DUP	(12:2132-16)
SS-1DUP	(12:2132-17)	TP-30-2.5'-4'	(12:2150-01)
TP-30-4'-5'	(12:2150-02)	TP-23-2.5'-3.5'	(12:2150-03)
TP-28-3.5'-4'	(12:2150-04)	TP-26-1.5'-2.5'	(12:2150-05)
TP-24-2.75'-3.5'	(12:2150-06)		

DATA ASSESSMENT

A semivolatile organics data package containing analytical results for twenty-three soil samples was received from Labella Associates, P.C. on 16Jul12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8270, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-22, Rev. #4, August 2008, Validating Semivolatile Organic Compounds by Gas Chromatography / Mass Spectrometry SW-846 Method 8270D was used as a technical reference.

The bis(2-ethylhexyl)phthalate concentrations from SS-4 and TP-22-1'-2.5'DUP, and the di-n-octylphthalate result from TP-18-1'2' have been flagged as estimations because they may represent laboratory artifacts.

The 2-chloronaphthalene, indeno(1,2,3-cd)pyrene, atrazine and benzaldehyde results from this project; and the di-n-octylphthalate and caprolactam results from SS-4 and SS-1DUP have been qualified as estimations due to poor calibration performance.

The organic acids reported from TP-18-1'-2', TP-14-2.5'-5.5' and TP-30-2.5'-4' have been qualified as estimations due to low surrogate standard recoveries.

The naphthalene results from SS-1 and SS-1DUP have been rejected due to a poor agreement between field split duplicate samples. The fluoranthene and phenanthrene results from SS-1 and SS-1DUP have been qualified as estimations.

The identifications of dibenz(a,h)anthracene in TP-14-2.5'-5.5', SS-1, SS-2 and SS-1DUP were not conclusive based on the mass spectra references included in the raw data. Dibenz(a,h)-anthracene should be considered undetected in these samples.

The Tentatively Identified Compounds (TIC) reported from this project have been flagged as presumptive identifications and estimated concentrations because mass spectra references were not provided to confirm these identifications.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "J" or "UJ". Data felt to be unreliable has been identified with a

single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B Baldwin Date: 22 July 12
James B. Baldwin

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		CALIBRATE BENZALDE	CALIBRATE DI-N-OCTPHTH	CALIBRATE CAPROLACTAM	SURROGATES ACIDS*	DUPE NAPHLENE	DUPE FLUORANTH.
TP-01-1'-3'	(12:2132-01)	324UJ					
TP-02-6"	(12:2132-02)	302UJ					
TP-18-1'-2'	(12:2132-03)	339UJ			ALL 848UJ		
TP-18-2'-2.75'	(12:2132-04)	356UJ					
TP-15-6"-1.25'	(12:2132-05)	366UJ					
TP-14-2.5'-5.5'	(12:2132-06)	731UJ			ALL 1830UJ		
TP-10-4'-6'	(12:2132-07)	373UJ					
TP-20-1'-2'	(12:2132-08)	669UJ					
TP-22-1'-2.5'	(12:2132-09)	359UJ					
SS-1	(12:2132-10)	1620UJ				REJECT	18400J
SS-2	(12:2132-11)	366UJ					
SS-3	(12:2132-12)	324UJ					
SS-4	(12:2132-13)	385UJ	385UJ	385UJ			
SS-5	(12:2132-14)	368UJ					
SS-6	(12:2132-15)	355UJ					
TP-22-1'2.5'DUP	(12:2132-16)	359UJ					
SS-1DUP	(12:2132-17)	6520UJ	5620UJ	5620UJ		REJECT	33100J
TP-30-2.5'-4'	(12:2150-01)	540UJ			ALL 540UJ		
TP-30-4'-5'	(12:2150-02)	337UJ					
TP-23-2.5'-3.5'	(12:2150-03)	327UJ					
TP-28-3.5'-4'	(12:2150-04)	408UJ					
TP-26-1.5'-2.5'	(12:2150-05)	316UJ					
TP-24-2.75'-3.5'	(12:2150-06)	390UJ					

ACIDS = 4-chloro-3-methylphenol, 2-chlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 4,6-dinitro-2-methylphenol, 2-methylphenol, 3&4-methylphenol, pentachlorophenol, phenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,3,4,6-tetrachlorophenol

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		BLANKS BIS(2ETHHEX)PHTH	BLANKS DI-N-OCTPHTH	CALIBRATE 2-CLNAPHTH	CALIBRATE IND(123CD)PYR	CALIBRATE ATRAZINE
TP-01-1'-3'	(12:2132-01)			324UJ	324UJ	324UJ
TP-02-6"	(12:2132-02)			302UJ	302UJ	302UJ
TP-18-1'-2'	(12:2132-03)		210J	339UJ	339UJ	339UJ
TP-18-2'-2.75'	(12:2132-04)			356UJ	356UJ	356UJ
TP-15-6"-1.25'	(12:2132-05)			366UJ	388J	366UJ
TP-14-2.5'-5.5'	(12:2132-06)			731UJ	2260J	731UJ
TP-10-4'-6'	(12:2132-07)			373UJ	373UJ	373UJ
TP-20-1'-2'	(12:2132-08)			669UJ	501J	669UJ
TP-22-1'-2.5'	(12:2132-09)			359UJ	359UJ	359UJ
SS-1	(12:2132-10)			1620UJ	23100J	1620UJ
SS-2	(12:2132-11)			366UJ	1540J	366UJ
SS-3	(12:2132-12)			324UJ	677J	324UJ
SS-4	(12:2132-13)	464J		385UJ	647J	385UJ
SS-5	(12:2132-14)			368UJ	236J	368UJ
SS-6	(12:2132-15)			355UJ	296J	355UJ
TP-22-1'-2.5'DUP	(12:2132-16)	231J		359UJ	359UJ	359UJ
SS-1DUP	(12:2132-17)			6520UJ	33100J	6520UJ
TP-30-2.5'-4'	(12:2150-01)			540UJ	540UJ	540UJ
TP-30-4'-5'	(12:2150-02)			337UJ	337UJ	337UJ
TP-23-2.5'-3.5'	(12:2150-03)			327UJ	327UJ	327UJ
TP-28-3.5'-4'	(12:2150-04)			408UJ	408UJ	408UJ
TP-26-1.5'-2.5'	(12:2150-05)			316UJ	316UJ	316UJ
TP-24-2.75'-3.5'	(12:2150-06)			390UJ	390UJ	390UJ

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		DUPES PHENANTH	SPECTRA ID DIBENZ(AH)ANTH	MS ID TIC
TP-01-1'-3'	(12:2132-01)			ALL NJ
TP-02-6"	(12:2132-02)			ALL NJ
TP-18-1'-2'	(12:2132-03)			
TP-18-2'-2.75'	(12:2132-04)			
TP-15-6"-1.25'	(12:2132-05)			ALL NJ
TP-14-2.5'-5.5'	(12:2132-06)		731U	ALL NJ
TP-10-4'-6'	(12:2132-07)			
TP-20-1'-2'	(12:2132-08)			ALL NJ
TP-22-1'-2.5'	(12:2132-09)			ALL NJ
SS-1	(12:2132-10)	10700J	1620U	ALL NJ
SS-2	(12:2132-11)		366U	ALL NJ
SS-3	(12:2132-12)			ALL NJ
SS-4	(12:2132-13)			ALL NJ
SS-5	(12:2132-14)			ALL NJ
SS-6	(12:2132-15)			ALL NJ
TP-22-1'2.5'DUP	(12:2132-16)			ALL NJ
SS-1DUP	(12:2132-17)	22000J	6520U	ALL NJ
TP-30-2.5'-4'	(12:2150-01)			ALL NJ
TP-30-4'-5'	(12:2150-02)			
TP-23-2.5'-3.5'	(12:2150-03)			ALL NJ
TP-28-3.5'-4'	(12:2150-04)			ALL NJ
TP-26-1.5'-2.5'	(12:2150-05)			ALL NJ
TP-24-2.75'-3.5'	(12:2150-06)			ALL NJ

SECTION 1.3

Pesticides

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2132 - 2150
Sampled May 2012

PESTICIDES

SS-1	(12:2132-10)	SS-2	(12:2132-11)
SS-3	(12:2132-12)	SS-4	(12:2132-13)
SS-5	(12:2132-14)	SS-6	(12:2132-15)
SS-1DUP	(12:2132-17)	TP-30-2.5'-4'	(12:2150-01)
TP-30-4'-5'	(12:2150-02)	TP-23-2.5'-3.5'	(12:2150-03)
TP-28-3.5'-4'	(12:2150-04)	TP-26-1.5'-2.5'	(12:2150-05)
TP-24-2.75'-3.5'	(12:2150-06)		

DATA ASSESSMENT

A Pesticide data package containing analytical results for thirteen soil samples was received from Labella Associates on 16Jul12. The ASP Category B deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8081, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-44, Rev. #1, October 2006, Validating Pesticide Compounds by Gas Chromatography SW-846 Method 8081B was used as a technical reference.

The positive pesticide results from this project have been qualified as estimations because the calculations could not be duplicated.

The 4,4'-DDE concentration from SS-2 and the 4,4'-DDD result from SS-6 have been qualified as estimations due to poor peak resolution.

The Endrin Ketone concentration from SS-1 and the 4,4'-DDT result from SS-1DUP have been qualified as estimations due to differences observed in field split duplicate samples.

Analyte concentrations throughout this report have been qualified as J, NJ or Reject, based to the level of agreement between results from two different chromatographic columns.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "J". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

ANALYTE IDENTIFICATIONS

Analytes must be detected at similar concentrations on two different chromatography columns to be considered present. The quality of the identification is based on the percent difference (%D) between this pair of measurements. The laboratory, however, reported the Relative Percent Difference (%RPD) in the raw data. The laboratory's results have been edited where the correction affects the interpretation of data. Data qualifications based on these checks is tabulated below.

SAMPLE	DATA QUALIFICATIONS	
SS-1	Gamma-Chlordane	REJECT
SS-2	4,4'-DDE	REJECT
	Heptachlor Epoxide	5.36J
ss-4	Alpha-BHC	14.1J
	Beta-BHC	8.04J
	Delta-BHC	REJECT
	Gamma-BHC	5.52J
	Dieldrin	3.08NJ
	Endosulfan I	74.4NJ
	Endosulfan II	9.65J
	Heptachlor Epoxide	9.19J
SS-5	4,4'-DDT	REJECT
SS-6	Gamma-BHC	1.95J
	4,4'-DDD	11.3NJ
	4,4'-DDT	3.01NJ
	Endosulfan I	14.1NJ
	Endosulfan Sulfate	4.04J
SS-1DUP	Endrin Aldehyde	REJECT
TP-26-1.5'-2.5'	Delta-BHC	2.81J
	Endosulfan II	REJECT

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		CALIBRATE	RESOLUTION 4,4'-DDE	RESOLUTION 4,4'-DDD	DUPE ENDRIN KETONE	DUPES 4,4'-DDT	CONF ID G-CHLORDANE
SS-1	(12:2132-10)	ALL POS J			7.73J		REJECT
SS-2	(12:2132-11)	ALL POS J	19.3J				
SS-3	(12:2132-12)	ALL POS J					
SS-4	(12:2132-13)	ALL POS J					
SS-5	(12:2132-14)	ALL POS J					
SS-6	(12:2132-15)	ALL POS J		11.3J			
SS-1DUP	(12:2132-17)	ALL POS J				8.14J	
TP-30-2.5'-4'	(12:2150-01)						
TP-30-4'-5'	(12:2150-02)						
TP-23-2.5'-3.5'	(12:2150-03)						
TP-28-3.5'-4'	(12:2150-04)						
TP-26-1.5'-2.5'	(12:2150-05)	ALL POS J					
TP-24-2.75'-3.5'	(12:2150-06)						

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		CONF ID 4,4'DDE	CONF ID HEPT EPOX	CONF ID A-BHC	CONF ID B-BHC	CONF ID D-BHC	CONF ID G-BHC	CONF ID DIELDRIN
SS-1	(12:2132-10)							
SS-2	(12:2132-11)	REJECT	5.36J					
SS-3	(12:2132-12)							
SS-4	(12:2132-13)		9.19J	14.1J	8.04J	REJECT	5.52J	3.08NJ
SS-5	(12:2132-14)							
SS-6	(12:2132-15)						1.95J	
SS-1DUP	(12:2132-17)							
TP-30-2.5'-4'	(12:2150-01)							
TP-30-4'-5'	(12:2150-02)							
TP-23-2.5'-3.5'	(12:2150-03)							
TP-28-3.5'-4'	(12:2150-04)							
TP-26-1.5'-2.5'	(12:2150-05)					2.81J		
TP-24-2.75'-3.5'	(12:2150-06)							

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		CONFIRM ID ENDOSULFAN I	CONFIRM ID ENDOSULFAN II	CONF ID 4,4'DDT	CONF ID 4,4'DDD	CONFIRM ID ENDOSULFAN SO4
SS-1	(12:2132-10)					
SS-2	(12:2132-11)					
SS-3	(12:2132-12)					
SS-4	(12:2132-13)	74.4NJ	9.65J			
SS-5	(12:2132-14)			REJECT		
SS-6	(12:2132-15)	14.1NJ		3.01NJ	11.3NJ	4.04J
SS-1DUP	(12:2132-17)					
TP-30-2.5'-4'	(12:2150-01)					
TP-30-4'-5'	(12:2150-02)					
TP-23-2.5'-3.5'	(12:2150-03)					
TP-28-3.5'-4'	(12:2150-04)					
TP-26-1.5'-2.5'	(12:2150-05)		REJECT			
TP-24-2.75'-3.5'	(12:2150-06)					

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

	CONFIRM ID	ENDRIN ALDEHYDE
SS-1	(12:2132-10)	
SS-2	(12:2132-11)	
SS-3	(12:2132-12)	
SS-4	(12:2132-13)	
SS-5	(12:2132-14)	
SS-6	(12:2132-15)	
SS-1DUP	(12:2132-17)	REJECT
TP-30-2.5'-4'	(12:2150-01)	
TP-30-4'-5'	(12:2150-02)	
TP-23-2.5'-3.5'	(12:2150-03)	
TP-28-3.5'-4'	(12:2150-04)	
TP-26-1.5'-2.5'	(12:2150-05)	
TP-24-2.75'-3.5'	(12:2150-06)	

SECTION 1.4

PCBs

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2132 - 2150
Sampled May 2012

PCB

TP-01-1'-3'	(12:2132-01)	TP-02-6"	(12:2132-02)
TP-18-1'-2'	(12:2132-03)	TP-18-2'-2.75'	(12:2132-04)
TP-15-6"-1.25'	(12:2132-05)	TP-14-2.5'-5.5'	(12:2132-06)
TP-10-4'-6'	(12:2132-07)	TP-20-1'-2'	(12:2132-08)
TP-22-1'-2.5'	(12:2132-09)	SS-1	(12:2132-10)
SS-2	(12:2132-11)	SS-3	(12:2132-12)
SS-4	(12:2132-13)	SS-5	(12:2132-14)
SS-6	(12:2132-15)	TP-22-1'2.5'DUP	(12:2132-16)
SS-1DUP	(12:2132-17)		

DATA ASSESSMENT

A PCB data package containing analytical results for seventeen soil samples was received from Labella Associates, P.C. on 16Jul12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8082, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-45, Rev. #1, October 2006, Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A) was used as a technical reference.

The concentrations of AR1254 found in this group of samples have been qualified as estimations due to poor calibration performance.

The AR-1254 concentrations from SS-1 and TP-22-1'2.5'DUP have been qualified as estimations due to poor agreement between field split duplicate samples.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "J". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 22 Jul 12

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled May 2012

		CALIBRATE AR-1254	FIELD DUPLICATES AR-1254
TP-01-1'-3'	(12:2132-01)		
TP-02-6"	(12:2132-02)	0.0195J	
TP-18-1'-2'	(12:2132-03)		
TP-18-2'-2.75'	(12:2132-04)		
TP-15-6"-1.25'	(12:2132-05)		
TP-14-2.5'-5.5'	(12:2132-06)		
TP-10-4'-6'	(12:2132-07)		
TP-20-1'-2'	(12:2132-08)		
TP-22-1'-2.5'	(12:2132-09)		
SS-1	(12:2132-10)	0.0381J	0.0381J
SS-2	(12:2132-11)	0.493J	
SS-3	(12:2132-12)		
SS-4	(12:2132-13)		
SS-5	(12:2132-14)		
SS-6	(12:2132-15)		
TP-22-1'2.5'DUP	(12:2132-16)	0.0516J	0.0516J
SS-1DUP	(12:2132-17)		

SECTION 1.5

Metals

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2132 - 2150
Sampled May 2012

METALS

TP-01-1'-3'	(12:2132-01)	TP-02-6"	(12:2132-02)
TP-18-1'-2'	(12:2132-03)	TP-18-2'-2.75'	(12:2132-04)
TP-15-6"-1.25'	(12:2132-05)	TP-14-2.5'-5.5'	(12:2132-06)
TP-10-4'-6'	(12:2132-07)	TP-20-1'-2'	(12:2132-08)
TP-22-1'-2.5'	(12:2132-09)	SS-1	(12:2132-10)
SS-2	(12:2132-11)	SS-3	(12:2132-12)
SS-4	(12:2132-13)	SS-5	(12:2132-14)
SS-6	(12:2132-15)	TP-22-1'2.5'DUP	(12:2132-16)
SS-1DUP	(12:2132-17)	TP-30-2.5'-4'	(12:2150-01)
TP-30-4'-5'	(12:2150-02)	TP-23-2.5'-3.5'	(12:2150-03)
TP-28-3.5'-4'	(12:2150-04)	TP-26-1.5'-2.5'	(12:2150-05)
TP-24-2.75'-3.5'	(12:2150-06)		

DATA ASSESSMENT

An inorganics data package containing analytical results for twenty-three soil samples was received from Labella Associates, P.C. on 16Jul12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Methods 6010 and 7471 addressed Target Analyte List metals. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOW HW-2, Rev. 13, Sep. 2005, Evaluation of Metals Data for the Contract Laboratory Program) was used as a technical reference.

The antimony, arsenic, barium, chromium, cobalt, lead, magnesium, mercury, nickel, thallium and zinc results from this group of samples have been qualified as estimations due to unacceptable matrix spike recoveries. The chromium result from SS-3 and the mercury results from SS-3 and TP-02-6" have been rejected.

With two exceptions, the cadmium, chromium, cobalt, copper, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, vanadium and zinc results from this project have been qualified as estimations due to large differences between laboratory and field split duplicate samples. The potassium concentrations reported from SS-1 and SS-1DUP have been rejected.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

It is noted that the laboratory analyzed interference check standards at the beginning of each ICP sequence, but not at the

end of the run as required by ASP protocol. CRDL and serial dilution samples were omitted. The laboratory should be warned of such omissions. They are required elements of an ASP data package. Data has been evaluated based on the information that was provided.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 22 July 12

James B. Baldwin

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		SPIKES ANTIMONY	SPIKES ARSENIC	SPIKES BARIUM	SPIKES CHROMIUM	SPIKES COBALT	SPIKE LEAD
TP-01-1'-3'	(12:2132-01)	6.78UJ	7.40J	79.6J	102J	11.5J	60.9J
TP-02-6"	(12:2132-02)	5.88UJ	26.1J	1350J	285J	53.7J	722J
TP-18-1'-2'	(12:2132-03)	8.46J	74.6J	163J	1230J	22.4J	65.5J
TP-18-2'-2.75'	(12:2132-04)	6.39UJ	5.77J	51.5J	28.3J	6.48J	6.45J
TP-15-6"-1.25'	(12:2132-05)	7.34UJ	10.5J	495J	823J	18.9J	157J
TP-14-2.5'-5.5'	(12:2132-06)	4.91J	9.36J	126J	2230J	226J	156J
TP-10-4'-6'	(12:2132-07)	6.63UJ	5.18J	59.4J	51.2J	8.77J	9.83J
TP-20-1'-2'	(12:2132-08)	5.95UJ	7.38J	491J	1320J	3.99J	24.2J
TP-22-1'-2.5'	(12:2132-09)	7.57UJ	3.85J	2210J	83.8J	22.5J	35.5J
SS-1	(12:2132-10)	5.83UJ	36.2J	918J	214J	34.5J	253J
SS-2	(12:2132-11)	6.41UJ	10.2J	646J	426J	70.5J	124J
SS-3	(12:2132-12)	6.42UJ	1.07UJ	2140J	REJECT	86.4J	185J
SS-4	(12:2132-13)	7.91UJ	10.7J	936J	441J	147J	197J
SS-5	(12:2132-14)	5.78J	6.71J	156J	63.7J	5.62UJ	95.4J
SS-6	(12:2132-15)	6.71UJ	39.2J	348J	321J	23.0J	102J
TP-22-1'2.5'DUP	(12:2132-16)	6.67UJ	4.38J	2400J	95.5J	25.5J	35.6J
SS-1DUP	(12:2132-17)	6.60UJ	51.6J	1560J	270J	54.0J	228J
TP-30-2.5'-4'	(12:2150-01)	10.9UJ	22.2J	89.3J	109J	10.9J	8.46J
TP-30-4'-5'	(12:2150-02)	6.53UJ	4.07J	43.6J	10.5J	4.69J	4.13J
TP-23-2.5'-3.5'	(12:2150-03)	6.92UJ	1.73J	42.3J	8.95J	3.12J	2.85J
TP-28-3.5'-4'	(12:2150-04)	7.69UJ	7.28J	150J	102J	4.37J	113J
TP-26-1.5'-2.5'	(12:2150-05)	5.88UJ	8.55J	173J	1570J	15.9J	196J
TP-24-2.75'-3.5'	(12:2150-06)	7.93UJ	4.44J	81.6J	38.9J	5.78J	22.0J

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		SPIKES MAGNESIUM	SPIKE MERCURY	SPIKES NICKEL	SPIKES THALLIUM	SPIKE ZINC	DUPES CADMIUM
TP-01-1'-3'	(12:2132-01)	5200J	0.0765J	22.0J	2.82UJ	90.0J	0.819J
TP-02-6"	(12:2132-02)	689J	REJECT	136J	2.45UJ	35.5J	0.695J
TP-18-1'-2'	(12:2132-03)	31300J	0.0054J	45.9J	2.71UJ	31.2J	1.17J
TP-18-2'-2.75'	(12:2132-04)	2710J	0.0339J	17.0J	2.66UJ	46.7J	0.809J
TP-15-6"-1.25'	(12:2132-05)	10800J	0.0091UJ	40.8J	3.05UJ	121J	0.655J
TP-14-2.5'-5.5'	(12:2132-06)	30400J	0.0057J	63.1J	2.82UJ	148J	2.00J
TP-10-4'-6'	(12:2132-07)	3670J	0.0218J	20.8J	2.77UJ	63.1J	0.884J
TP-20-1'-2'	(12:2132-08)	30400J	0.0085UJ	24.9J	2.48UJ	33.5J	0.602J
TP-22-1'-2.5'	(12:2132-09)	57400J	0.0084UJ	75.8J	3.16UJ	43.0J	0.795J
SS-1	(12:2132-10)	44400J	0.0424J	65.6J	2.42UJ	326J	1.91J
SS-2	(12:2132-11)	18800J	0.0324J	110J	2.67UJ	153J	1.49J
SS-3	(12:2132-12)	19300J	REJECT	105J	2.67UJ	236J	3.10J
SS-4	(12:2132-13)	4680J	0.702J	231J	3.30UJ	286J	2.36J
SS-5	(12:2132-14)	75100J	0.225J	19.8J	2.81UJ	316J	2.92J
SS-6	(12:2132-15)	7880J	0.580J	50.7J	2.80UJ	188J	1.72J
TP-22-1'2.5'DUP	(12:2132-16)	48900J	0.0101uJ	71.1J	2.77UJ	43.4J	0.840J
SS-1DUP	(12:2132-17)	32000J	0.0650J	83.2J	2.75UJ	300J	2.13J
TP-30-2.5'-4'	(12:2150-01)	9210J	0.0184J	21.6J	4.55UJ	34.8J	0.910UJ
TP-30-4'-5'	(12:2150-02)	12600J	0.0093J	14.3J	2.72UJ	39.0J	0.643J
TP-23-2.5'-3.5'	(12:2150-03)	1250J	0.0167J	5.81J	2.89UJ	27.2J	0.577UJ
TP-28-3.5'-4'	(12:2150-04)	4110J	0.0638J	17.9J	3.21UJ	143J	0.738J
TP-26-1.5'-2.5'	(12:2150-05)	40500J	0.0082UJ	48.1J	2.45UJ	170J	1.54J
TP-24-2.75'-3.5'	(12:2150-06)	3900J	0.0283J	16.3J	3.30UJ	69.1J	0.725J

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled May 2012

		DUPES CHROMIUM	DUPES COBALT	DUPES COPPER	DUPES LEAD	DUPES MAGNESIUM	DUPES MANGANESE	DUPES MERCURY
TP-01-1'-3'	(12:2132-01)	102J	11.5J	20.7J	60.9J	5200J	915J	0.0756J
TP-02-6"	(12:2132-02)	285J	53.7J	62.3J	722J	689J	343000J	
TP-18-1'-2'	(12:2132-03)	1230J	22.4J	23.3J	65.5J	31300J	927J	0.0054J
TP-18-2'-2.75'	(12:2132-04)	28.3J	6.48J	12.4J	6.45J	2710J	170J	0.0339J
TP-15-6"-1.25'	(12:2132-05)	823J	18.9J	68.4J	157J	10800J	10500J	0.0091UJ
TP-14-2.5'-5.5'	(12:2132-06)	2230J	226J	1400J	156J	30400J	3420J	0.0057J
TP-10-4'-6'	(12:2132-07)	51.2J	8.77J	13.6J	9.83J	3670J	522J	0.0218J
TP-20-1'-2'	(12:2132-08)	1320J	3.99J	41.2J	24.2J	30400J	1790J	0.0085UJ
TP-22-1'-2.5'	(12:2132-09)	83.8J	22.5J	44.4J	35.5J	57400J	108000J	0.0084UJ
SS-1	(12:2132-10)	214J	34.5J	28.8J	253J	44400J	34000J	0.0424J
SS-2	(12:2132-11)	426J	70.5J	84.9J	124J	18800J	25400J	0.0324J
SS-3	(12:2132-12)		86.4J	68.9J	185J	19300J	107000J	
SS-4	(12:2132-13)	441J	147J	92.3J	197J	4680J	56600J	0.702J
SS-5	(12:2132-14)	63.7J	5.62UJ	62.5J	95.4J	75100J	4390J	0.225J
SS-6	(12:2132-15)	321J	23.0J	70.9J	102J	7880J	9070J	0.580J
TP-22-1'2.5'DUP	(12:2132-16)	95.5J	25.5J	40.6J	35.6J	48900J	131000J	0.0101UJ
SS-1DUP	(12:2132-17)	270J	54.0J	49.6J	228J	32000J	61700J	0.0650J
TP-30-2.5'-4'	(12:2150-01)	109J	10.9J	21.8J	8.46J	9210J	536J	0.0184J
TP-30-4'-5'	(12:2150-02)	10.5J	4.69J	12.6J	4.13J	12600J	432J	0.0093J
TP-23-2.5'-3.5'	(12:2150-03)	8.95J	3.12J	2.49J	2.85J	1250J	51.7J	0.0167J
TP-28-3.5'-4'	(12:2150-04)	102J	4.37J	250J	113J	4110J	279J	0.0638J
TP-26-1.5'-2.5'	(12:2150-05)	1570J	15.9J	82.9J	196J	40500J	6370J	0.0082UJ
TP-24-2.75'-3.5'	(12:2150-06)	38.9J	5.78J	11.3J	22.0J	3900J	338J	0.0283J

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled May 2012

		DUPES NICKEL	DUPES POTASSIUM	DUPES SELENIUM	DUPES SILVER	DUPES SODIUM	DUPES VANADIUM	DUPES ZINC
TP-01-1'-3'	(12:2132-01)	22.0J	1200J	1.13UJ	1.13UJ	351J	25.4J	90.0J
TP-02-6"	(12:2132-02)	136J	1720J	127J	57.5J	1040J	104J	35.5J
TP-18-1'-2'	(12:2132-03)	45.9J	643J	1.08UJ	1.08UJ	228J	142J	31.2J
TP-18-2'-2.75'	(12:2132-04)	17.0J	865J	1.06UJ	1.06UJ	266UJ	22.6J	46.7J
TP-15-6"-1.25'	(12:2132-05)	40.8J	1040J	2.02J	1.68J	336J	62.9J	121J
TP-14-2.5'-5.5'	(12:2132-06)	63.1J	367J	1.13UJ	1.13UJ	6050J	53.2J	148J
TP-10-4'-6'	(12:2132-07)	20.8J	1120J	1.11UJ	1.11UJ	159J	23.5J	63.1J
TP-20-1'-2'	(12:2132-08)	24.9J	1160J	0.992UJ	0.992UJ	293J	25.1J	33.5J
TP-22-1'-2.5'	(12:2132-09)	75.8J	1720J	32.7J	17.7J	2570J	60.5J	43.0J
SS-1	(12:2132-10)	65.6J	REJECT	6.26J	7.69J	954J	82.6J	326J
SS-2	(12:2132-11)	110J	1440J	4.39J	5.19J	579J	316J	153J
SS-3	(12:2132-12)	105J	1620J	26.0J	21.0J	1340J	281J	236J
SS-4	(12:2132-13)	231J	1060J	19.8J	11.5J	545J	358J	286J
SS-5	(12:2132-14)	19.8J	1470J	1.12UJ	2.24J	495J	45.5J	316J
SS-6	(12:2132-15)	50.7J	1660J	1.09J	2.23J	375J	127J	188J
TP-22-1'2.5'DUP	(12:2132-16)	71.1J	1700J	36.1J	20.7J	2270J	136J	43.4J
SS-1DUP	(12:2132-17)	83.2J	REJECT	16.6J	13.3J	1730J	96.8J	300J
TP-30-2.5'-4'	(12:2150-01)	21.6J	455UJ	1.82UJ	1.82UJ	791J	11.2J	34.8J
TP-30-4'-5'	(12:2150-02)	14.3J	865J	1.09UJ	1.09UJ	308J	16.5J	39.0J
TP-23-2.5'-3.5'	(12:2150-03)	5.81J	534J	1.15UJ	1.15UJ	289UJ	14.8J	27.2J
TP-28-3.5'-4'	(12:2150-04)	17.9J	1520J	7.38J	1.28UJ	193J	23.7J	143J
TP-26-1.5'-2.5'	(12:2150-05)	48.1J	867J	0.979UJ	1.17J	1180J	140J	170J
TP-24-2.75'-3.5'	(12:2150-06)	16.3J	1220J	1.32UJ	1.32UJ	213J	24.9J	69.1J

SECTION 2

MAY 2012 SOIL SAMPLES-SDG 12:2186, 12:2251

DATA USABILITY SUMMARY REPORT

COVANTA RECOVERY SITE

SOIL SAMPLES COLLECTED MAY 2012

SDG 12:2186, 12:2251
Volatile Organics, Semivolatile Organics
PCB, Metals

Prepared for:

LABELLA ASSOCIATES, P.C.
Olympic Towers
300 Pearl Street, Suite 325
Buffalo, NY 14202

Prepared by:

DATAVAL, Inc.
518 Hooper Rd., PMB 283
Endwell, NY 13760

SECTION 2.1

Volatiles

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2186 - 2251
Sampled May 2012

VOLATILE ORGANICS

GP-03-5' (12:2186-01)
GP-05-5' (12:2186-03)
GP-07-2' (12:2186-05)
GP-09-1'-2' (12:2186-07)
GP-14-7' (12:2186-09)
GP-15-5'-6' (12:2186-11)
GP-18-2'-4' (12:2186-13)
GP-02-3.5'-4' (12:2186-15)
Trip Blank (12:2186-17
C4R-MW-02-2'-6' (12:2251-02)
C4R-MW-05-4'-10' (12:2251-04)
C4R-MW-05-4'-10'DUP (12:2251-06)
GP-03-7' (12:2186-02)
GP-06-5' (12:2186-04)
GP-07-6' (12:2186-06)
GP-11-4'-5' (12:2186-08)
GP-16-3' (12:2186-10)
GP-15-7.5' (12:2186-12)
GP-22-6' (12:2186-14)
GP-05-5'DUP (12:2186-16)
C4R-MW-01-6'-8' (12:2251-01)
C4R-MW-03-6'-10' (12:2251-03)
C4R-MW-06-4'-10' (12:2251-05)

DATA ASSESSMENT

A volatile organics data package containing analytical results for twenty-two soil samples and a trip blank was received from Labella Associates, P.C. on 27Jul12. The ASP Category B deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260, addressed STARS and Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-24, Rev. #2, August 2008, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B) was used as a technical reference.

Acetone should be interpreted as undetected in this group of samples. Acetone concentrations, when present, are assumed to represent laboratory artifacts.

The acetone and methylene chloride results reported from this project have been qualified as estimations due to poor calibration performance. The trichloroethene results from C4R-MW-01-6'-8', C4R-MW-02-2'-6', C4R-MW-03-6'-10', C4R-MW-05-4'-10', C4R-MW-06-4'-10' and C4R-MW-05-4'-10'DUP have been similarly qualified.

The positive results reported from C4R-MW-01-6'-8' and C4R-MW-05-4'-10'DUP, and all of the results from GP-03-7' and GP-02-3.5'-4' have been qualified as estimations due to unacceptable surrogate standard recoveries.

The n-butylbenzene and naphthalene results from GP-03-7', GP-18-2'-4' and GP-02-3.5'-4' have been qualified as estimations due to poor internal standard performance.

The chlorobenzene results from C4R-MW-01-6'-8', C4R-MW-02-2'-6', C4R-MW-03-6'-10', C4R-MW-05-4'-10', C4R-MW-06-4'-10' and C4R-MW-05-4'-10'DUP have been qualified as estimations due to low matrix spike recoveries.

The TIC's reported from GP-16-3' and C4R-MW-05-4'-10' have been flagged as presumptive identifications and estimated concentrations because mass spectra references were not provided to confirm these identifications.

The identifications of sec-butylbenzene (S-BUTBENZ) in GP-09-1'-2'; o-xylene in GP-03-7'; ethylbenzene (ETHBENZ) and o-xylene in GP-18-2'-4'; and n-butylbenzene (N-BUTBENZ), 1,2,4-trimethylbenzene (124TMB), m+p-xylene and o-xylene in GP-02-3.5'-4' were not conclusive based on the mass spectra references

included in the raw data. These analytes should be interpreted as undetected in the affected samples.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 02 Aug 12

SUMMARY OF QUALIFIED DATA

SAMPLED: May 2012

COVANTA RECOVERY SITE

		BLANK ACETONE	CALIBRATE ACETONE	CALIBRATE METH CL	CALIBRATE TCE	SURROGATES	INT STD IS3
GP-03-5′	(12:2186-01)					ALL J/UJ	ALL J/UJ
GP-03-7′	(12:2186-02)						
GP-05-5′	(12:2186-03)						
GP-06-5′	(12:2186-04)						
GP-07-2′	(12:2186-05)						
GP-07-6′	(12:2186-06)						
GP-09-1′-2′	(12:2186-07)						
GP-11-4′-5′	(12:2186-08)						
GP-14-7′	(12:2186-09)						
GP-16-3′	(12:2186-10)	378U	378UJ	189UJ			
GP-15-5′-6′	(12:2186-11)						
GP-15-7.5′	(12:2186-12)						ALL J/UJ
GP-18-2′-4′	(12:2186-13)						
GP-22-6′	(12:2186-14)					ALL J/UJ	ALL UJ
GP-02-3.5′-4′	(12:2186-15)						
GP-05-5′DUP	(12:2186-16)						
Trip Blank	(12:2186-17)						
C4R-MW-01-6′-8′	(12:2251-01)	53.5U	53.5UJ	12.0UJ	4.78UJ	ALL POS J	
C4R-MW-02-2′-6′	(12:2251-02)	34.4U	34.4UJ	9.18UJ	3.67UJ		
C4R-MW-03-6′-10′	(12:2251-03)		21.0UJ	10.5UJ	4.20UJ		
C4R-MW-05-4′-10′	(12:2251-04)		18.0UJ	9.01UJ	3.60UJ		
C4R-MW-06-4′-10′	(12:2251-05)		20.6UJ	10.3UJ	4.12UJ		
C4R-MW-05-4′-10′DUP	(12:2251-06)		22.0UJ	11.0UJ	4.40UJ	ALL POS J	

IS3 = n-butylbenzene, naphthalene

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		SPIKES CLBENZ	SPECTRA TIC	MS ID S-BUTBENZ	MS ID O-XYLENE	MS ID ETHBENZ	MS ID N-BUTBENZ
GP-03-5'	(12:2186-01)						
GP-03-7'	(12:2186-02)				4.14UJ		
GP-05-5'	(12:2186-03)						
GP-06-5'	(12:2186-04)						
GP-07-2'	(12:2186-05)						
GP-07-6'	(12:2186-06)						
GP-09-1'-2'	(12:2186-07)			4.10U			
GP-11-4'-5'	(12:2186-08)						
GP-14-7'	(12:2186-09)						
GP-16-3'	(12:2186-10)		ALL NJ				
GP-15-5'-6'	(12:2186-11)						
GP-15-7.5'	(12:2186-12)						
GP-18-2'-4'	(12:2186-13)				12.4U	12.4U	
GP-22-6'	(12:2186-14)						
GP-02-3.5'-4'	(12:2186-15)				4.26UJ		4.26UJ
GP-05-5'DUP	(12:2186-16)						
Trip Blank	(12:2186-17)						
C4R-MW-01-6'-8'	(12:2251-01)	4.78UJ					
C4R-MW-02-2'-6'	(12:2251-02)	3.67UJ					
C4R-MW-03-6'-10'	(12:2251-03)	4.20UJ					
C4R-MW-05-4'-10'	(12:2251-04)	3.60UJ	ALL NJ				
C4R-MW-06-4'-10'	(12:2251-05)	4.12UJ					
C4R-MW-05-4'-10'DUP	(12:2251-06)	4.40UJ					

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		MS ID 124-TMB	MS ID M+P-XYLENE
GP-03-5′	(12:2186-01)		
GP-03-7′	(12:2186-02)		
GP-05-5′	(12:2186-03)		
GP-06-5′	(12:2186-04)		
GP-07-2′	(12:2186-05)		
GP-07-6′	(12:2186-06)		
GP-09-1′-2′	(12:2186-07)		
GP-11-4′-5′	(12:2186-08)		
GP-14-7′	(12:2186-09)		
GP-16-3′	(12:2186-10)		
GP-15-5′-6′	(12:2186-11)		
GP-15-7.5′	(12:2186-12)		
GP-18-2′-4′	(12:2186-13)		
GP-22-6′	(12:2186-14)		
GP-02-3.5′-4′	(12:2186-15)	4.26UJ	4.26UJ
GP-05-5′DUP	(12:2186-16)		
Trip Blank	(12:2186-17)		
C4R-MW-01-6′-8′	(12:2251-01)		
C4R-MW-02-2′-6′	(12:2251-02)		
C4R-MW-03-6′-10′	(12:2251-03)		
C4R-MW-05-4′-10′	(12:2251-04)		
C4R-MW-06-4′-10′	(12:2251-05)		
C4R-MW-05-4′-10′DUP	(12:2251-06)		

SECTION 2.2

Semivolatiles

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2186 - 2251
Sampled May 2012

SEMIVOLATILE ORGANICS

GP-03-5' (12:2186-01)	GP-03-7' (12:2186-02)
GP-05-5' (12:2186-03)	GP-06-5' (12:2186-04)
GP-07-2' (12:2186-05)	GP-07-6' (12:2186-06)
GP-09-1'-2' (12:2186-07)	GP-11-4'-5' (12:2186-08)
GP-14-7' (12:2186-09)	GP-16-3' (12:2186-10)
GP-15-5'-6' (12:2186-11)	GP-15-7.5' (12:2186-12)
GP-18-2'-4' (12:2186-13)	GP-22-6' (12:2186-14)
GP-02-3.5'-4' (12:2186-15)	GP-05-5'DUP (12:2186-16)
C4R-MW-01-6'-8'(12:2251-01)	C4R-MW-02-2'-6' (12:2251-02)
C4R-MW-03-6'-10'(12:2251-03)	C4R-MW-05-4'-10' (12:2251-04)
C4R-MW-06-4'-10'(12:2251-05)	C4R-MW-05-4'-10'DUP (12:2251-06)

DATA ASSESSMENT

A semivolatile organics data package containing analytical results for twenty-two soil samples was received from Labella Associates, P.C. on 27Jul12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8270, addressed Target Compound List and STARS list analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-22, Rev. #4, August 2008, Validating Semivolatile Organic Compounds by Gas Chromatography / Mass Spectrometry SW-846 Method 8270D was used as a technical reference.

A TIC eluting at 17.94 minutes has been removed from the reports of C4R-MW-01-6'-8', C4R-MW-02-2'-6', C4R-MW-03-6'-10', C4R-MW-05-4'-10', C4R-MW-06-4'-10' and C4R-MW-05-4'-10'DUP because it is assumed to represent a laboratory artifact.

The indeno(1,2,3-cd)pyrene results from each program sample and the 2-chloronaphthalene, atrazine and benzaldehyde results from C4R-MW-01-6'-8', C4R-MW-02-2'-6', C4R-MW-03-6'-10', C4R-MW-05-4'-10', C4R-MW-06-4'-10' and C4R-MW-05-4'-10'DUP have been qualified as estimations due to poor calibration performance.

The identifications of acenaphthene in GP-03-7' and anthracene in GP-15-5'-6' and GP-18-2'-4' were not conclusive based on the mass spectra references included in the raw data. Acenaphthene and anthracene should be interpreted as undetected in the affected samples.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data

assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 02 Aug 12
James B. Baldwin

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		BLANK TIC	CALIBRATE IND(123CD)PYR	CALIBRATE 2-CLNAPH	CALIBRATE ATRAZINE	CALIBRATE BENZALDE	MS ID ACENAPH .
GP-03-5'	(12:2186-01)		354UJ				
GP-03-7'	(12:2186-02)		337UJ				337U
GP-05-5'	(12:2186-03)		360UJ				
GP-06-5'	(12:2186-04)		335UJ				
GP-07-2'	(12:2186-05)		3310UJ				
GP-07-6'	(12:2186-06)		349UJ				
GP-09-1'-2'	(12:2186-07)		341UJ				
GP-11-4'-5'	(12:2186-08)		339UJ				
GP-14-7'	(12:2186-09)		345UJ				
GP-16-3'	(12:2186-10)		332UJ				
GP-15-5'-6'	(12:2186-11)		345UJ				
GP-15-7.5'	(12:2186-12)		342UJ				
GP-18-2'-4'	(12:2186-13)		364UJ				
GP-22-6'	(12:2186-14)		344UJ				
GP-02-3.5'-4'	(12:2186-15)		343UJ				
GP-05-5'DUP	(12:2186-16)		337UJ				
C4R-MW-01-6'-8'	(12:2251-01)	REMOVE	358UJ	358UJ	358UJ	358UJ	
C4R-MW-02-2'-6'	(12:2251-02)	REMOVE	345UJ	345UJ	345UJ	345UJ	
C4R-MW-03-6'-10'	(12:2251-03)	REMOVE	354UJ	354UJ	354UJ	354UJ	
C4R-MW-05-4'-10'	(12:2251-04)	REMOVE	358UJ	358UJ	358UJ	358UJ	
C4R-MW-06-4'-10'	(12:2251-05)	REMOVE	345UJ	346UJ	346UJ	346UJ	
C4R-MW-05-4'-10'DUP	(12:2251-06)	REMOVE	362UJ	362UJ	362UJ	362UJ	

SUMMARY OF QUALIFIED DATA

CONTRA RECOVERY SITE

SAMPLED: May 2012

		MS ID ANTHRACENE
GP-03-5'	(12:2186-01)	
GP-03-7'	(12:2186-02)	
GP-05-5'	(12:2186-03)	
GP-06-5'	(12:2186-04)	
GP-07-2'	(12:2186-05)	
GP-07-6'	(12:2186-06)	
GP-09-1'-2'	(12:2186-07)	
GP-11-4'-5'	(12:2186-08)	
GP-14-7'	(12:2186-09)	
GP-16-3'	(12:2186-10)	
GP-15-5'-6'	(12:2186-11)	345U
GP-15-7.5'	(12:2186-12)	
GP-18-2'-4'	(12:2186-13)	364U
GP-22-6'	(12:2186-14)	
GP-02-3.5'-4'	(12:2186-15)	
GP-05-5'DUP	(12:2186-16)	
Trip Blank	(12:2186-17)	
C4R-MW-01-6'-8'	(12:2251-01)	
C4R-MW-02-2'-6'	(12:2251-02)	
C4R-MW-03-6'-10'	(12:2251-03)	
C4R-MW-05-4'-10'	(12:2251-04)	
C4R-MW-06-4'-10'	(12:2251-05)	
C4R-MW-05-4'-10'DUP	(12:2251-06)	

SECTION 2.3

PCBs

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2186 - 2251
Sampled May 2012

PCB

GP-07-2'	(12:2186-05)	GP-07-6'	(12:2186-06)
C4R-MW-01-6'-8'	(12:2251-01)	C4R-MW-02-2'-6'	(12:2251-02)
C4R-MW-03-6'-10'	(12:2251-03)	C4R-MW-05-4'-10'	(12:2251-04)
C4R-MW-06-4'-10'	(12:2251-05)	C4R-MW-05-4'-10'DUP	(12:2251-06)

DATA ASSESSMENT

A PCB data package containing analytical results for eight soil samples was received from Labella Associates, P.C. on 27Jul12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8082, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-45, Rev. #1, October 2006, Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A) was used as a technical reference.

CORRECTNESS AND USABILITY

Reported data should be considered complete, technically defensible, completely usable, and without qualifications in its present form. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 02AUG12

James B. Baldwin

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled May 2012

GP-07-2'	(12:2186-05)
GP-07-6'	(12:2186-06)
C4R-MW-01-6'-8'	(12:2251-01)
C4R-MW-02-2'-6'	(12:2251-02)
C4R-MW-03-6'-10'	(12:2251-03)
C4R-MW-05-4'-10'	(12:2251-04)
C4R-MW-06-4'-10'	(12:2251-05)
C4R-MW-05-4'-10'DUP	(12:2251-06)

SECTION 2.4

Metals

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Soil Samples
SDG: 12:2186 - 2251
Sampled May 2012

METALS

C4R-MW-01-6'-8'	(12:2251-01)	C4R-MW-02-2'-6'	(12:2251-02)
C4R-MW-03-6'-10'	(12:2251-03)	C4R-MW-05-4'-10'	(12:2251-04)
C4R-MW-06-4'-10'	(12:2251-05)	C4R-MW-05-4'-10'DUP	(12:2251-06)

DATA ASSESSMENT

An inorganics data package containing analytical results for six soil samples was received from Labella Associates, P.C. on 27Jul12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Methods 6010 and 7471 addressed Target Analyte List metals. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOW HW-2, Rev. 13, Sep. 2005, Evaluation of Metals Data for the Contract Laboratory Program) was used as a technical reference.

The antimony and potassium results from this group of samples have been qualified as estimations due to unacceptable matrix spike recoveries.

The arsenic, lead, cobalt and manganese results from this project have been qualified as estimations due to large differences between laboratory and field split duplicate samples.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

It is noted that the laboratory analyzed interference check standards at the beginning of each ICP sequence, but not at the end of the run as required by ASP protocol. CRDL and serial dilution samples were omitted. The laboratory should be warned of such omissions. They are required elements of an ASP data package. Data has been evaluated based on the information that was provided.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be

guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B Baldwin Date: 02Aug12

James B. Baldwin

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled May 2012

		SPIKES ANTIMONY	SPIKE POTASSIUM	DUPE ARSENIC	DUPES LEAD	DUPES MANGANESE	DUPES COBALT
C4R-MW-01-6'-8'	(12:2251-01)	7.35UJ	3860J	5.91J	4.47J	675J	10.2J
C4R-MW-02-2'-6'	(12:2251-02)	6.82UJ	931J	3.08J	3.72J	128J	4.72J
C4R-MW-03-6'-10'	(12:2251-03)	6.83UJ	4230J	7.24J	5.62J	675J	8.48J
C4R-MW-05-4'-10'	(12:2251-04)	7.28UJ	4650J	6.23J	5.86J	526J	11.1J
C4R-MW-06-4'-10'	(12:2251-05)	6.93UJ	3480J	3.28J	6.00J	540J	8.80J
C4R-MW-05-4'-10'DUP	(12:2251-06)	6.93UJ	4950J	8.16J	6.57J	1060J	20.2J

SECTION 3

MAY 2012 AQUEOUS SAMPLES-SDG 12:2285-2308

DATA USABILITY SUMMARY REPORT

COVANTA RECOVERY SITE

AQUEOUS SAMPLES COLLECTED MAY 2012

SDG 12:2285, 12:2308
Volatile Organics, Semivolatile Organics
PCB, Metals

Prepared for:

LABELLA ASSOCIATES, P.C.
Olympic Towers
300 Pearl Street, Suite 325
Buffalo, NY 14202

Prepared by:

DATAVAL, Inc.
518 Hooper Rd., PMB 283
Endwell, NY 13760

SECTION 3.1

Volatiles

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2285 - 2308
Sampled May 2012

VOLATILE ORGANICS

C4R-MW-02	(12:2285-01)	C4R-MW-03	(12:2285-02)
C4R-MW-05	(12:2285-03)	C4R-MW-06	(12:2285-04)
C4R-MW-06DUP	(12:2285-05)	TRIP BLANK	(12:2285-06)
GP-MW-01	(12:2285-07)	GP-MW-02	(12:2285-08)
GP-MW-03	(12:2285-09)	GP-MW-02DUP	(12:2285-10)
MW-A4-1	(12:2308-01)	C4R-MW-01	(12:2308-02)
MW-A19-1	(12:2308-03)		

DATA ASSESSMENT

A volatile organics data package containing analytical results for twelve aqueous samples and a trip blank was received from Labella Associates, P.C. on 09Aug12. The ASP Category B deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260, addressed STARS and Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-24, Rev. #2, August 2008, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B) was used as a technical reference.

With the exception of the concentration reported from C4R-MW-01, acetone should be interpreted as undetected in this group of samples. Acetone concentrations, when present, are assumed to represent laboratory artifacts. The result from C4R-MW-01 has been qualified as an estimation.

The positive acetone results reported from this project have been qualified as estimations due to poor calibration performance. The trichloroethene result from each sample has been similarly qualified.

The positive results from C4R-MW-05, C4R-MW-06, C4R-MW-06DUP, GP-MW-01 and GP-MW-03 have been qualified as estimations due to high surrogate standard recoveries.

The identification of n-butylbenzene in GP-MW-03 was not conclusive, based on the mass spectra reference included in the raw data. N-butylbenzene should be interpreted as undetected in this sample.

The TIC's reported from MW-A19-1 have been edited, where necessary, to provide more appropriate identifications.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be

guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 16 Aug 12

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		BLANK ACETONE	CALIBRATE ACETONE	CALIBRATE TCE	SURROGATES	SPECTRA ID N-BUTBENZ	MS ID TIC
C4R-MW-02	12:2285-01)	16.4U	16.4UJ	2.0UJ			
C4R-MW-03	(12:2285-02)	30.0U	30.0UJ	2.0UJ			
C4R-MW-05	(12:2285-03)	15.0U	15.0UJ	2.0UJ	ALL POS J		
C4R-MW-06	(12:2285-04)	44.7U	44.7UJ	2.0UJ	ALL POS J		
C4R-MW-06DUP	(12:2285-05)	44.3U	44.3UJ	2.0UJ	ALL POS J		
GP-MW-01	(12:2285-07)				ALL POS J		
GP-MW-02	(12:2285-08)						
GP-MW-03	(12:2285-09)				ALL POS J	2.0U	
GP-MW-02DUP	(12:2285-10)						
MW-A4-1	(12:2308-01)			2.0UJ			
C4R-MW-01	(12:2308-02)	164J	164J	2.0UJ			
MW-A19-1	(12:2308-03)	27.0U	27.0UJ	2.0UJ			EDIT

SECTION 3.2

Semivolatiles

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2285 - 2308
Sampled May 2012

SEMIVOLATILE ORGANICS

C4R-MW-02	(12:2285-01)	C4R-MW-03	(12:2285-02)
C4R-MW-05	(12:2285-03)	C4R-MW-06	(12:2285-04)
C4R-MW-06DUP	(12:2285-05)	GP-MW-01	(12:2285-07)
GP-MW-02	(12:2285-08)	GP-MW-03	(12:2285-09)
GP-MW-02DUP	(12:2285-10)	MW-A4-1	(12:2308-01)
C4R-MW-01	(12:2308-02)	MW-A19-1	(12:2308-03)

DATA ASSESSMENT

A semivolatile organics data package containing analytical results for twelve aqueous samples was received from Labella Associates, P.C. on 09Aug12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8270, addressed Target Compound List and STARS list analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-22, Rev. #4, August 2008, Validating Semivolatile Organic Compounds by Gas Chromatography / Mass Spectrometry SW-846 Method 8270D was used as a technical reference.

A TIC eluting at 17.94 minutes (triphenylphosphine oxide) has been removed from the reports of C4R-MW-02, C4R-MW-03, C4R-MW-05, C4R-MW-06 and C4R-MW-06DUP because it is assumed to represent a laboratory artifact.

The indeno(1,2,3-cd)pyrene, 2-chloronaphthalene and atrazine results from this project have been qualified as estimations due to poor calibration performance.

The results reported from GP-MW-02 have been qualified as estimations due to low internal standard recoveries.

The 4-nitrophenol results from this project have been qualified as estimations due to low matrix spike recoveries. It is noted that the result from MW-4A-1 has been left unqualified.

Where necessary, the TIC's reported from this project have been edited to provide more appropriate identifications.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data

assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 16 Aug 12

James B. Baldwin

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: May 2012

		BLANK TIC PPO	CALIBRATE IND(123CD)PYR	CALIBRATE 2-CLNAPH	CALIBRATE ATRAZINE	INT STD	SPIKES 4-NITPHEN	MS ID TIC
C4R-MW-02	(12:2285-01)	REMOVE	10UJ	10UJ	10UJ		25UJ	EDIT
C4R-MW-03	(12:2285-02)	REMOVE	10UJ	10UJ	10UJ		25UJ	EDIT
C4R-MW-05	(12:2285-03)	REMOVE	10UJ	10UJ	10UJ		25UJ	EDIT
C4R-MW-06	(12:2285-04)	REMOVE	10UJ	10UJ	10UJ		25UJ	
C4R-MW-06DUP	(12:2285-05)	REMOVE	10UJ	10UJ	10UJ		25UJ	EDIT
GP-MW-01	(12:2285-07)		10UJ					
GP-MW-02	(12:2285-08)		10UJ			ALL UJ		
GP-MW-03	(12:2285-09)		10UJ					
GP-MW-02DUP	(12:2285-10)		10UJ					
MW-A4-1	(12:2308-01)		10UJ	10UJ	10UJ			
C4R-MW-01	(12:2308-02)		10UJ	10UJ	10UJ		25UJ	EDIT
MW-A19-1	(12:2308-03)		10UJ	10UJ	10UJ		25UJ	EDIT

SECTION 3.3

PCBs

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2285 - 2308
Sampled May 2012

PCB

C4R-MW-02	(12:2285-01)	C4R-MW-03	(12:2285-02)
C4R-MW-05	(12:2285-03)	C4R-MW-06	(12:2285-04)
C4R-MW-06DUP	(12:2285-05)	MW-A4-1	(12:2308-01)
C4R-MW-01	(12:2308-02)	MW-A19-1	(12:2308-03)

DATA ASSESSMENT

A PCB data package containing analytical results for eight aqueous samples was received from Labella Associates, P.C. on 09Aug12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8082, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-45, Rev. #1, October 2006, Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A) was used as a technical reference.

CORRECTNESS AND USABILITY

Reported data should be considered complete, technically defensible, completely usable, and without qualifications in its present form. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 16 Aug 12

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled May 2012

C4R-MW-02	(12:2285-01)
C4R-MW-03	(12:2285-02)
C4R-MW-05	(12:2285-03)
C4R-MW-06	(12:2285-04)
C4R-MW-06DUP	(12:2285-05)
MW-A4-1	(12:2308-01)
C4R-MW-01	(12:2308-02)
MW-A19-1	(12:2308-03)

SECTION 3.4

Metals

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2285 - 2308
Sampled May 2012

METALS

C4R-MW-02	(12:2285-01)	C4R-MW-03	(12:2285-02)
C4R-MW-05	(12:2285-03)	C4R-MW-06	(12:2285-04)
C4R-MW-06DUP	(12:2285-05)	MW-A4-1	(12:2308-01)
C4R-MW-01	(12:2308-02)	MW-A19-1	(12:2308-03)

DATA ASSESSMENT

An inorganics data package containing analytical results for eight aqueous samples was received from Labella Associates, P.C. on 09Aug12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Methods 6010 and 7471 addressed Target Analyte List metals. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOW HW-2, Rev. 13, Sep. 2005, Evaluation of Metals Data for the Contract Laboratory Program) was used as a technical reference.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible, completely usable, and without qualifications in its present form. A detailed discussion of the review process follows.

It is noted that the laboratory analyzed interference check standards at the beginning of each ICP sequence, but not at the end of the run as required by ASP protocol. CRDL and serial dilution samples were omitted. The laboratory should be warned of such omissions. They are required elements of an ASP data package. Data has been evaluated based on the information that was provided.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B Baldwin Date: 16 Aug 12

James B. Baldwin

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled May 2012

C4R-MW-02	(12:2285-01)
C4R-MW-03	(12:2285-02)
C4R-MW-05	(12:2285-03)
C4R-MW-06	(12:2285-04)
C4R-MW-06DUP	(12:2285-05)
MW-A4-1	(12:2308-01)
C4R-MW-01	(12:2308-02)
MW-A19-1	(12:2308-03)

SECTION 4

JUNE 2012 AQUEOUS SAMPLES-SDG 12:2354

DATA USABILITY SUMMARY REPORT

COVANTA RECOVERY SITE

AQUEOUS SAMPLES COLLECTED JUNE 2012

SDG 12:2354
Volatile Organics, Semivolatile Organics
Pesticides, PCB, Metals

Prepared for:

LABELLA ASSOCIATES, P.C.
Olympic Towers
300 Pearl Street, Suite 325
Buffalo, NY 14202

Prepared by:

DATAVAL, Inc.
518 Hooper Rd., PMB 283
Endwell, NY 13760

SECTION 4.1

Volatiles

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2354
Sampled June 2012

VOLATILE ORGANICS

C4R-MH-01	(12:2354-1)	C4R-MH-03	(12:2354-2)
C4R-MH-02	(12:2354-3)	TRIP BLANK	(12:2354-4)

DATA ASSESSMENT

A volatile organics data package containing analytical results for three aqueous samples and a trip blank was received from Labella Associates, P.C. on 09Aug12. The ASP Category B deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260, addressed STARS and Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-24, Rev. #2, August 2008, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B) was used as a technical reference.

The trichloroethene results reported from this project have been qualified as estimations due to poor calibration performance.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 15AUG12

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: June 2012

	CALIBRATE TCE
C4R-MH-01 (12:2354-1)	2.0UJ
C4R-MH-03 (12:2354-2)	2.0UJ
C4R-MH-02 (12:2354-3)	2.0UJ

SECTION 4.2

Semivolatiles

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2354
Sampled June 2012

SEMIVOLATILE ORGANICS

C4R-MH-01 (12:2354-1) C4R-MH-03 (12:2354-2)
C4R-MH-02 (12:2354-3)

DATA ASSESSMENT

A semivolatile organics data package containing analytical results for three aqueous samples was received from Labella Associates, P.C. on 09Aug12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8270, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-22, Rev. #4, August 2008, Validating Semivolatile Organic Compounds by Gas Chromatography / Mass Spectrometry SW-846 Method 8270D was used as a technical reference.

The indeno(1,2,3-cd)pyrene, 2-chloronaphthalene and atrazine results from this project have been qualified as estimations due to poor calibration performance.

One of the TIC's reported from C4R-MH-02 has been edited to provide a more appropriate identification.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 15 AUG 12
James B. Baldwin

SUMMARY OF QUALIFIED DATA

COVANTA RECOVERY SITE

SAMPLED: June 2012

	CALIBRATE IND(123CD)PYR	CALIBRATE 2-CLNAPH	CALIBRATE ATRAZINE	MS ID TIC
C4R-MH-01 (12:2354-1)	10UJ	10UJ	10UJ	
C4R-MH-03 (12:2354-2)	10UJ	10UJ	10UJ	
C4R-MH-02 (12:2354-3)	10UJ	10UJ	10UJ	EDIT

SECTION 4.3

Pesticides

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2354
Sampled June 2012

PESTICIDES

C4R-MH-01 (12:2354-1) C4R-MH-03 (12:2354-2)
C4R-MH-02 (12:2354-3)

DATA ASSESSMENT

A Pesticide data package containing analytical results for three aqueous samples was received from Labella Associates on 09Aug12. The ASP Category B deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8081, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-44, Rev. #1, October 2006, Validating Pesticide Compounds by Gas Chromatography SW-846 Method 8081B was used as a technical reference.

The pesticide results from this group of samples have been qualified as estimations because the analytical sequence was not terminated with a calibration check standard.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 15AUG12

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

SAMPLED: June 2012

	CALIBRATE	CALIBRATE a-BHC	CALIBRATE d-BHC
C4R-MH-01 (12:2354-1)	ALL UJ		
C4R-MH-2 (12:2354-2)	ALL UJ		
C4R-MH-03 (12:2354-3)	ALL J/UJ	0.111J	0.109J

SECTION 4.4

PCBs

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2354
Sampled June 2012

PCB

C4R-MH-01 (12:2354-1) C4R-MH-03 (12:2354-2)
C4R-MH-02 (12:2354-3)

DATA ASSESSMENT

A PCB data package containing analytical results for three aqueous samples was received from Labella Associates, P.C. on 09Aug12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8082, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-45, Rev. #1, October 2006, Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A) was used as a technical reference.

CORRECTNESS AND USABILITY

Reported data should be considered complete, technically defensible, completely usable, and without qualifications in its present form. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 15AUG12

James B. Baldwin

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled June 2012

C4R-MH-01 (12:2354-1)
C4R-MH-03 (12:2354-2)
C4R-MH-02 (12:2354-3)

SECTION 4.5

Metals

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 Pearl Street, Suite 325

Buffalo, NY 14202

COVANTA RECOVERY SITE
Aqueous Samples
SDG: 12:2354
Sampled June 2012

METALS

C4R-MH-01 (12:2354-1) C4R-MH-03 (12:2354-2)
C4R-MH-02 (12:2354-3)

DATA ASSESSMENT

An inorganics data package containing analytical results for three aqueous samples was received from Labella Associates, P.C. on 09Aug12. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Covanta Recovery site, were identified by Chain of Custody documents and traceable through the work of Paradigm Environmental Services, the laboratory contracted for analysis. Analyses, performed according to SW-846 Methods 6010 and 7471 addressed Target Analyte List metals. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOW HW-2, Rev. 13, Sep. 2005, Evaluation of Metals Data for the Contract Laboratory Program) was used as a technical reference.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible, completely usable, and without qualifications in its present form. A detailed discussion of the review process follows.

It is noted that the laboratory analyzed interference check standards at the beginning of each ICP sequence, but not at the end of the run as required by ASP protocol. CRDL and serial dilution samples were omitted. The laboratory should be warned of such omissions. They are required elements of an ASP data package. Data has been evaluated based on the information that was provided.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 15AUG-12

DATA QUALIFICATIONS

COVANTA RECOVERY SITE

Sampled June 2012

C4R-MH-01 (12:2354-1)
C4R-MH-03 (12:2354-2)
C4R-MH-02 (12:2354-3)