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REGION	COUNTY	TOWN	NAME
4	Rensselaer	Nassau	Dewey Loeffel

DOCUMENT TYPE (CIRCLE)	PROGRAM (CIRCLE)	SITE NUMBER	DOCUMENT DATE (YYYY-MM-DD)
agreement	.		
application	.		
brief	.		
consent	.		
email	.		
factsheet	.		
image	.		
isr	.		
letter	.		
memo	.		
nov	.		
prap	.		
(report)	.	043. HW_442006_2006-3-28_BBL_2005_Surface_Water_and_Suspended_Sediment_Monitoring.pdf	
rod	.		
siteplan	.		
spcc	.		
stip	.		
var	.		
video	.		
workplan	.		

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Transmitted via Hand Delivery and First Class Mail

March 28, 2006

James N. Ludlam, P.E.
NYSDEC
Department of Environmental Remediation
625 Broadway
12th Floor
Albany, NY 1233-7016

Re: 2005 Surface Water and Suspended Sediment Monitoring
Operable Unit 3, Loeffel Site Environs
Nassau, New York
BBL Project #: 10073.900

Dear Jim:

This letter, provided by Blasland, Bouck & Lee, Inc. (BBL) on behalf of the General Electric Company (GE), presents the results from the 2005 supplemental surface water (SW) and suspended sediment (SS) monitoring events. This sampling was conducted in accordance with the July 2002 Long Term Monitoring Plan (LTMP) and discussions between GE and the New York State Department of Environmental Conservation (NYSDEC). Specifically, and with NYSDEC approval, one base-flow sampling event (September 14, 2005) and one high-flow sampling event (November 14-17, 2005) were conducted at the following three locations (Figure 1):

- In T11A, immediately upstream of the its confluence with the Valatie Kill (Figure 2);
- Immediately downstream of Area 28 in the Valatie Kill (Figure 3); and
- In the Valatie Kill, at the inlet to Nassau Lake (Figure 4).

This letter presents a discussion of the sampling activities and results. Attachments to this letter provide details of the sampling effort (i.e., analytical and field data), laboratory data sheets, and data validation reports.

Summary of Sampling Activities

To evaluate the transport of polychlorinated biphenyls (PCBs) in T11A and the Valatie Kill, whole (i.e., unfiltered) SW and filtered SS samples were collected. One base-flow SW sample and one SS sample were collected from each of the three locations in September 2005. Twelve high-flow SW samples and twelve SS samples were collected from each of the locations in November 2005.

Sampling Methodology

The SW/SS sampling methodology used was consistent with that employed during the 2004 sampling effort:

- SW/SS grab samples were collected mid-stream/mid-depth using pre-cleaned laboratory containers;
- A peristaltic pump with clean Teflon® tubing was used to pump water to the containers for each sampling location;
- For each SS sample, five 1-gallon, pre-cleaned, amber jugs were filled (approximately 19 liters);
- Water for SS sampling was passed through a stainless steel 142-millimeter pressure filter-holder containing a pre-weighed 0.7-micron pore glass fiber filter using pressurized nitrogen;
- During sampling activities, water quality parameters (pH, turbidity, temperature, dissolved oxygen, conductivity, oxidation-reduction potential, and total dissolved solids) were periodically measured; and
- The filter apparatus was decontaminated and new filters were installed prior to each sample.

Assessment of Flow Conditions

To ensure that sampling occurred during the appropriate stage conditions, stage data were collected from the Valatie Kill at Area 28 and the headwaters of T11A. Base-flow conditions were assessed by observing flow rates at the United States Geological Survey (USGS) gauging station 01360640 on the Valatie Kill, and the stream gauge at the headwaters of T11A (installed June 30, 2004).

The flow observed immediately prior to September 14, 2005 at the USGS gauge was 5.7 cubic feet per second (cfs), which was at or below the mean flow value for the month of September for the years 1991 to 2004 of 5.7 cfs (Figure 5). Using the USGS stream gauge-to-T11A-flow ratio (T11A flow = USGS stream gauge flow ÷ 9.34)[1], the flow at T11A on September 14, 2005 was estimated to be 0.61 cfs.

The high-flow sampling event was conducted during a period of significant rainfall. The rising, peak, and falling limbs of the storm hydrograph were observed on November 16 and 17, 2005 using an uncalibrated staff gage installed at the mouth of T11A[2], and the stream gage at the headwaters of T11A. According to these gages, the peak flow during the high-flow event was approximately 59% greater than initial conditions that day.

Sample Analysis

SW Samples

The base-flow SW samples from the September 14, 2005 event were submitted to SGS Environmental Services (SGS) of Charleston, West Virginia for PCB, total organic carbon (TOC), total suspended solids (TSS) and chlorophyll-*a* analysis.

[1] The USGS stream gauge-to-T11A-flow ratio was presented in Attachment G of BBL's October 19, 2004 letter to NYSDEC.

[2] GE is in the process of obtaining USGS data-logger stream-flow information taken from the last quarter of 2005. Once this data is available, specific and detailed flow information from the sampling activities will be provided.

High flow SW samples from November 14-17, 2005 were submitted to SGS for PCB, TOC, TSS and chlorophyll-*a* analyses. The data are presented in the following section.

SS Samples

The base-flow and high-flow SS samples were submitted to SGS for PCB and TOC analysis. The data are presented in the following section.

All analytical data were validated by BBL, and the data validation reports are presented in Attachment A. Chain-of-Custody records for each sampling event are presented in Attachment B.

Analytical Results

Base-flow Event, September 14, 2005

During this base-flow event, grab samples were collected from each of the following locations:

- At the mouth of T11A, immediately upstream of its confluence with the Valatie Kill (T11A-01);
- Immediately downstream of Area 28 in the Valatie Kill (A28-01); and
- At the inlet to Nassau Lake in the Valatie Kill (NL/VK-01).

The base-flow SW samples T11A-01, A28-01, and NL/VK-01 had reported PCB concentrations of 0.071, ND(0.065), and ND(0.065) micrograms per liter (µg/L) respectively (see Tables 1 and 2). The duplicate result from A28-01 was 0.35J. This estimated duplicate value appears anomalous relative to the historical data set for this location, and is also inconsistent with the original sample result of ND (0.065).

Three SS samples were collected during the base-flow event. Based on the difference calculations, one of the SS samples (A28-01) had a mass of 0.009 gram. The masses of the two remaining SS samples (T11A-01 and NL/VK-01) were negative (-0.01 and -0.004 gram, respectively), indicating filter mass loss during filtering of sampled water. As per BBL's letter to NYSDEC of April 1, 2005 regarding 2004 Supplemental Surface Water and Suspended Sediment Monitoring, SS samples where less than 1 gram of sediment was collected were not analyzed for PCBs. Calculated sample masses are presented in Table 3.

The validated analytical results are provided in Attachment A. Water quality parameters measured during SS/SW sampling are presented in Table 1.

High-Flow Event, November 14-17,2005

During the high-flow event, grab samples were collected before the storm, and during the rising, peak, and falling limbs of the storm hydrograph from the same three locations listed above for the base-flow event. Twelve SW samples (not including quality assurance/quality [QA/QC] samples) were collected during the high-flow event. The SW sample concentrations were as follows:

Sample Location	Sample ID	Concentration (µg/L)	Conditions
T11A	T11A-02	ND(0.065)	Initial[3]
	T11A-02	0.032 J	Rising Limb
	T11A-03	0.056 J	Peak
	T11A-04	0.073	Falling Limb
Area 28	A28-01	ND(0.065)	Initial[3]
	A28-02	ND(0.065)	Rising Limb
	A28-03	ND(0.065)	Peak
	A28-04	ND(0.065)	Falling Limb
Nassau Lake/Valatie Kill	NL/VK-01	ND(0.065)	Initial[3]
	NL/VK-02	ND(0.065)	Rising Limb
	NL/VK-03	ND(0.065)	Peak
	NL/VK-04	ND(0.065)	Falling Limb

Twelve SS samples were collected during the high-flow event. Based on the difference calculations, two of the twelve SS samples collected had a mass greater than 1 gram: T11A-02 and T11A-03, 3.5 and 2.2 grams respectively. Therefore, the two samples were analyzed for PCBs. The validated concentrations for the SS sampling results were ND(0.28) mg/kg (T11A-02, rising limb) and ND(0.46) mg/kg (T11A-03, peak; Table 2). Water quality parameters measured during sampling are presented in Table 1.

2006 SW/SS Monitoring Scope

Additional SW/SS monitoring is proposed for 2006, as described below.

SW/SS sampling will be conducted at three locations consistent with previous sampling events associated with the RI, RAs, and LMTP, including:

- In the mouth of T11A at the Valatie Kill;
- Downstream of the Area 28 reach of the Valatie Kill; and
- In the mouth of the Valatie Kill inlet at Nassau Lake.

Samples will be collected during one base-flow and one high-flow event. One sample per location will be collected during the base-flow event for a total of three SW samples and three SS samples (not including QA/QC samples). During the high-flow event, three sets of samples will be taken per location. Each set will target a specific flow condition: the rising limb, the peak, and the falling limb of the event's hydrograph. As such, a total of nine SW samples and nine SS samples will be collected during the high flow event (not including QA/QC samples).

The 2006 SS/SW sampling will be conducted as approved by NYSDEC and in general accordance with the methods presented in:

- Area 28 Sampling Protocol;
- The LTMP; and

[3] The initial sample was collected just prior to the beginning of the rainfall event.

- Existing project support documents such as the *1992 RI Sampling and Analysis Plan Volume 2: Field Sampling Plan* and the associated Quality Assurance Project Plan (QAPP).

All 2006 SW samples will be analyzed for unfiltered PCB Aroclors and chlorophyll *a*. In addition, during sampling, water quality parameters (pH, temperature, specific conductivity, dissolved oxygen [DO], turbidity, oxidation-reduction potential [ORP], total dissolved solids [TDS]) as well as flow rate will be measured.

All 2006 SS samples will be analyzed for filtered solids including PCB Aroclors and total organic carbon (TOC), if sufficient SS volume is obtained[4].

The 2006 SW/SS data set will be validated for inclusion in ongoing trend analyses. The results of the 2006 SW/SS sampling will be used to refine the scope future SW/SS sampling efforts, as warranted.

Please contact me at (508) 992-3609 if you have any questions.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Mark P. Brown, Ph.D
Senior Vice President

MPB/jap

cc: Michael Komoroske, P.E., NYSDEC
Alan Belensz, Environmental Protection Bureau
Russell Shaver, NYSDEC
Michael Elder, Esq., General Electric Company
Edward LaPoint, P.E., General Electric Company
J. Paul Doody, P.E., Blasland, Bouck & Lee, Inc.
Christopher Torell, P.G., Blasland, Bouck & Lee, Inc.
Kimberly Powell, Blasland, Bouck & Lee, Inc.

[4] If insufficient SS is obtained to run TOC analyses, the corresponding SW samples will be analyzed for unfiltered TOC.

Tables

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TABLE 1
2005 Surface Water and Suspended Sediment Monitoring

Loeffel Site Environs
Nassau, NY

Tributary T11A and the Valatie Kill

Surface Water Total PCB Results and Water Quality Parameters

Date	Time	Sample Location	Sample ID	Surface Water Total PCB (µg/L)	Flow (cfs)	Water Quality Measurements							Comments
						pH	Turbidity (NTU)	Temp (°C)	DO (mg/L)	Specific Conductivity (mS/cm)	ORP (mV)	TDS (g/L)	
9/14/2005	14:50	T11A	T11A-01	0.071	0.32	8.1	19	17	14	0.09	117	0.06	Baseflow
9/14/2005	14:55				0.32	8.0	13	17	14	0.09	123	0.06	
9/14/2005	15:00				0.32	8.0	14	17	14	0.09	127	0.06	
11/14/2005	18:40	T11A	T11A-01	ND(0.065)	8.54	6.5	2	7	12	0.10	208	0.07	Initial
11/14/2005	18:48				8.54	7.0	2	7	12	0.09	212	0.06	
11/14/2005	19:11				8.79	7.4	2	7	12	0.09	217	0.06	
11/16/2005	18:00	T11A	T11A-02	0.032 J	23.09	6.2	280	10	10	0.11	180	0.07	Rising Limb
11/16/2005	18:05				23.09	6.2	280	10	10	0.10	181	0.06	
11/16/2005	18:15				25.89	6.2	180	10	10	0.07	186	0.05	
11/16/2005	19:50	T11A	T11A-03	0.056 J	61.19	6.5	35	8	10	0.06	170	0.03	Peak
11/16/2005	20:00				64.48	6.5	38	8	10	0.05	167	0.03	
11/16/2005	20:10				68.74	6.5	31	8	10	0.05	172	0.03	
11/17/2005	7:51	T11A	T11A-04	0.073	72.27	6.6	15	5	9	0.06	161	0.04	Falling Limb
11/17/2005	7:56				71.38	6.7	13	6	9	0.06	156	0.04	
11/17/2005	8:06				71.38	6.7	10	5	9	0.06	154	0.04	
9/14/2005	12:17	A28	A28-01	ND(0.065) [0.35 J]	0.32	7.6	**128**	19	14	0.14	122	0.09	Baseflow
9/14/2005	12:30				0.32	7.5	**135**	21	14	0.15	117	0.10	
9/14/2005	12:45				0.32	7.6	**190**	22	14	0.15	115	0.10	
9/14/2005	13:00				0.32	7.8	**248**	22	15	0.15	114	0.10	
11/14/2005	20:35	A28	A28-01	ND(0.065)	8.79	7.1	6	7	12	0.11	129	0.07	Initial
11/14/2005	20:40				8.79	7.1	4	7	12	0.11	126	0.07	
11/14/2005	20:47				8.54	7.2	4	7	12	0.11	120	0.07	
11/16/2005	18:00	A28	A28-02	ND(0.065)	23.09	6.3	7	11	10	0.09	163	0.06	Rising Limb
11/16/2005	18:05				23.09	6.3	7	11	10	0.10	163	0.06	
11/16/2005	18:14				25.89	6.4	8	11	10	0.09	158	0.06	
11/16/2005	20:30	A28	A28-03	ND(0.065)	72.27	6.9	55	10	13	0.08	167	0.05	Peak
11/16/2005	20:39				75.90	6.9	50	10	13	0.08	164	0.05	
11/16/2005	20:55				80.59	7.0	56	9	12	0.08	158	0.05	
11/17/2005	14:10	A28	A28-04	ND(0.065) [ND (0.065)]	55.68	6.8	18	7	12	0.08	249	0.05	Falling Limb
11/17/2005	14:35				56.45	7.3	6	7	11	0.08	133	0.05	
11/17/2005	15:00				54.92	7.2	10	7	13	0.08	142	0.05	
9/14/2005	11:00	NL/VK	NL/VK-01	ND(0.065)	0.32	7.4	65	19	12	0.16	113	NM	Baseflow
9/14/2005	11:02				0.32	8.7	56	19	12	0.16	114	NM	
9/14/2005	11:15				0.32	7.6	16	19	12	0.16	115	NM	
11/14/2005	18:35	NL/VK	NL/VK-01	ND(0.065)	8.54	5.6	8	8	10	0.19	215	0.12	Initial
11/14/2005	18:45				8.54	5.4	8	8	10	0.15	229	0.10	
11/14/2005	18:55				8.54	5.7	7	8	10	0.14	219	0.09	
11/16/2005	17:30	NL/VK	NL/VK-02	ND(0.065)	18.44	6.1	9	11	10	0.14	164	0.09	Rising Limb
11/16/2005	17:40				20.47	5.9	8	10	11	0.13	155	0.08	
11/16/2005	17:50				20.47	5.9	10	10	10	0.13	198	0.09	
11/16/2005	20:30	NL/VK	NL/VK-03	ND(0.065)	72.27	6.4	200	10	10	0.11	172	0.07	Peak
11/16/2005	20:40				75.90	6.4	190	10	10	0.11	177	0.07	
11/16/2005	20:50				80.59	6.4	170	10	10	0.11	177	0.07	
11/17/2005	14:00	NL/VK	NL/VK-04	ND(0.065)	55.68	6.5	12	6	10	2.08	146	0.05	Falling Limb
11/17/2005	14:10				55.68	6.7	11	7	10	0.09	146	0.06	
11/17/2005	14:25				56.45	6.7	11	7	10	0.09	148	0.06	

See Notes on Page 2.

TABLE 1
2005 Surface Water and Suspended Sediment Monitoring

Loeffel Site Environs
Nassau, NY

Tributary T11A and the Valatie Kill

Surface Water Total PCB Results and Water Quality Parameters

Notes:

1. Sample Location: T11A = At the mouth of T11A, immediately upstream of its confluence with the Valatie Kill; A28 = Immediately downstream of Area 28 in the Valatie Kill; and NL/VK = At the inlet to Nassau Lake in the Valatie Kill. See Figures 2-4 for sample locations.
2. PCB = polychlorinated biphenyls; Temp = temperature; DO = dissolved oxygen; ORP = oxidation-reduction potential; TDS = total dissolved solids; µg/L = micrograms per liter; mg/L = milligram per Liter; NTU = nephelometric turbidity unit; °C = degrees Celsius; mS/cm = milliSiemens per centimeter; mV = millivolts; g/L = grams per liter; cfs = cubic feet per second.
3. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, NY. All samples were analyzed by SGS Environmental Services in Charleston West Virginia. Analytical data from 2005 were validated by BBL.
4. Values have been rounded to two significant figures, except in the case of PCB water concentrations, which have been rounded to 3 significant figures.
5. Samples collected in September and November 2005 were obtained in accordance with the July 2002 Long Term Monitoring Plan.
6. Values in bold are questionable; meter may have been malfunctioning.

NM = Parameter not measured.

TABLE 2
2005 Surface Water and Suspended Sediment Monitoring

Loeffel Site Environs
Nassau, NY

Tributary T11A and the Valatie Kill

Surface Water and Suspended Sediment Sampling Results

Date	Time	Sample Location	Sample ID	Surface Water Total PCB (µg/L)	Suspended Sediment Total PCB (mg/kg)	Total Organic Carbon (TOC) (mg/L)	TSS (mg/L)	Chlorophyll - a (mg/m^3)	Comments
9/14/2005	15:00	T11A	T11A-01	0.071	--	ND (1.0)	ND(5.0)	11	Baseflow
11/14/2005	18:40		T11A-01	ND(0.065)	--	8.1	ND(5.0)	ND(6.0)	Initial
11/16/2005	18:00		T11A-02	0.032 J	ND (0.28)	7	150	9	Rising Limb
11/16/2005	19:50		T11A-03	0.056 J	ND (0.46)	8.8	20.0	ND(6.0)	Peak
11/17/2005	7:50		T11A-04	0.073	--	4.5	ND(5.0)	ND(6.0)	Falling Limb
9/14/2005	12:30	A28	A28-01	ND(0.065) [0.35 J]	--	1.7 [1.7]	ND(5.0)[ND(5.0)]	14 J [ND(6.0 J)]	Baseflow
11/14/2005	20:35		A28-01	ND(0.065)	--	3.4	ND(5.0)	ND(6.0)	Initial
11/16/2005	18:00		A28-02	ND(0.065)	--	4	10	9	Rising Limb
11/16/2005	20:30		A28-03	ND(0.065)	--	5.8	41	14	Peak
11/17/2005	14:10		A28-04	ND(0.065) [ND(0.065)]	--	5.1 [5.5]	ND(5.0)[ND(5.0)]	ND(6.0) [ND(6.0)]	Falling Limb
9/14/2005	11:00	NL/VK	NL/VK-01	ND(0.065)	--	1.7	ND(5.0)	12	Baseflow
11/14/2005	18:35		NL/VK-01	ND(0.065)	--	3.2	ND(5.0)	ND(6.0)	Initial
11/16/2005	17:30		NL/VK-02	ND(0.065)	--	3.4	ND(5.0)	ND(6.0)	Rising Limb
11/16/2005	20:30		NL/VK-03	ND(0.065)	--	5.1	82	15	Peak
11/17/2005	14:00		NL/VK-04	ND(0.065)	--	5.7	ND(5.0)	ND(6.0)	Falling Limb

Notes:

1. Sample Location: T11A = At the mouth of T11A, immediately upstream of its confluence with the Valatie Kill; A28 = Immediately downstream of Area 28 in the Valatie Kill; and NL/VK = At the inlet to Nassau Lake in the Valatie Kill. See Figures 2-4 for sample locations.
2. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, NY. All samples were analyzed by SGS Environmental Services in Charleston West Virginia. Analytical data from 2005 were validated by BBL (Attachment A).
3. 0.034 [0.35] = The associated value in parentheses is a blind duplicate.
4. Values have been rounded to two significant figures, except in the case of PCB water concentrations, which have been rounded to three significant figures.
5. Samples collected on September 14, 2005 and November 14-17, 2005 were obtained in accordance with the July 2002 Long Term Monitoring Plan.
6. September 14, 2005 SS samples, and select November 14-17, 2005 have been rejected as invalid. The analytical results are provided in Attachment A.

TABLE 3
2005 Surface Water and Suspended Sediment Monitoring

Loeffel Site Environs
Nassau, NY

Tributary T11A and the Valatie Kill

Suspended Sediment Masses

Date	Time	Sample Location	Sample ID	Sample Mass (mg)[1]	Comments
9/14/2005	15:00	T11A	T11A-01	-10	Baseflow
11/14/2005	18:40	T11A	T11A-01	-4	Initial
11/16/2005	18:00	T11A	T11A-02 (1)	157	Rising Limb
			T11A-02 (2)	269	
			T11A-02 (3)	185	
			T11A-02 (4)	194	
			T11A-02 (5)	431	
			T11A-02 (6)	3,540	
			T11A-02 (7)	408	
			T11A-02 (8)	180	
			T11A-02 (9)	318	
11/16/2005	19:50	T11A	T11A-03 (1)	91	Peak
			T11A-03 (2)	87	
			T11A-03 (3)	80	
			T11A-03 (4)	2,179	
11/17/2005	7:50	T11A	T11A-04	42	Falling Limb
9/14/2005	12:30	A28	A28-01	9	Baseflow
11/14/2005	20:35	A28	A28-01	-7	Initial
11/16/2005	18:00	A28	A28-02 (1)	68	Rising Limb
			A28-02 (2)	27	
11/16/2005	20:30	A28	A28-03 (1)	127	Peak
			A28-03 (2)	117	
			A28-03 (3)	151	
			A28-03 (4)	97	
11/17/2005	14:10	A28	A28-04	38	Falling Limb
			A28-04 MS	107	
			A28-04 MSD	-6	
9/14/2005	11:00	NL/VK	NL/VK-01	-4	Baseflow
11/14/2005	18:35	NL/VK	NL/VK-01	5	Initial
11/16/2005	17:30	NL/VK	NL/VK-02	17	Rising Limb
11/16/2005	20:30	NL/VK	NL/VK-03 (1)	165	Peak
			NL/VK-03 (2)	224	
			NL/VK-03 (3)	168	
			NL/VK-03 (4)	269	
			NL/VK-03 (5)	136	
			NL/VK-03 (6)	253	
			NL/VK-03 (7)	123	
			NL/VK-03 (8)	273	
			NL/VK-03 (9)	149	
			NL/VK-03 (10)	271	
11/17/2005	14;00	NL/VK	NL/VK-04 (1)	36	Falling Limb
			NL/VK-04 (2)	4	
9/14/2005	12:30	A28	DUP-01 (A28-01)	5	Baseflow
11/17/2005	15:00	A28	DUP-01 (A28-04)	57	Falling Limb

Note:
1. Values are the result of difference calculations. Values less than 1 gram are considered unusable.

Figures

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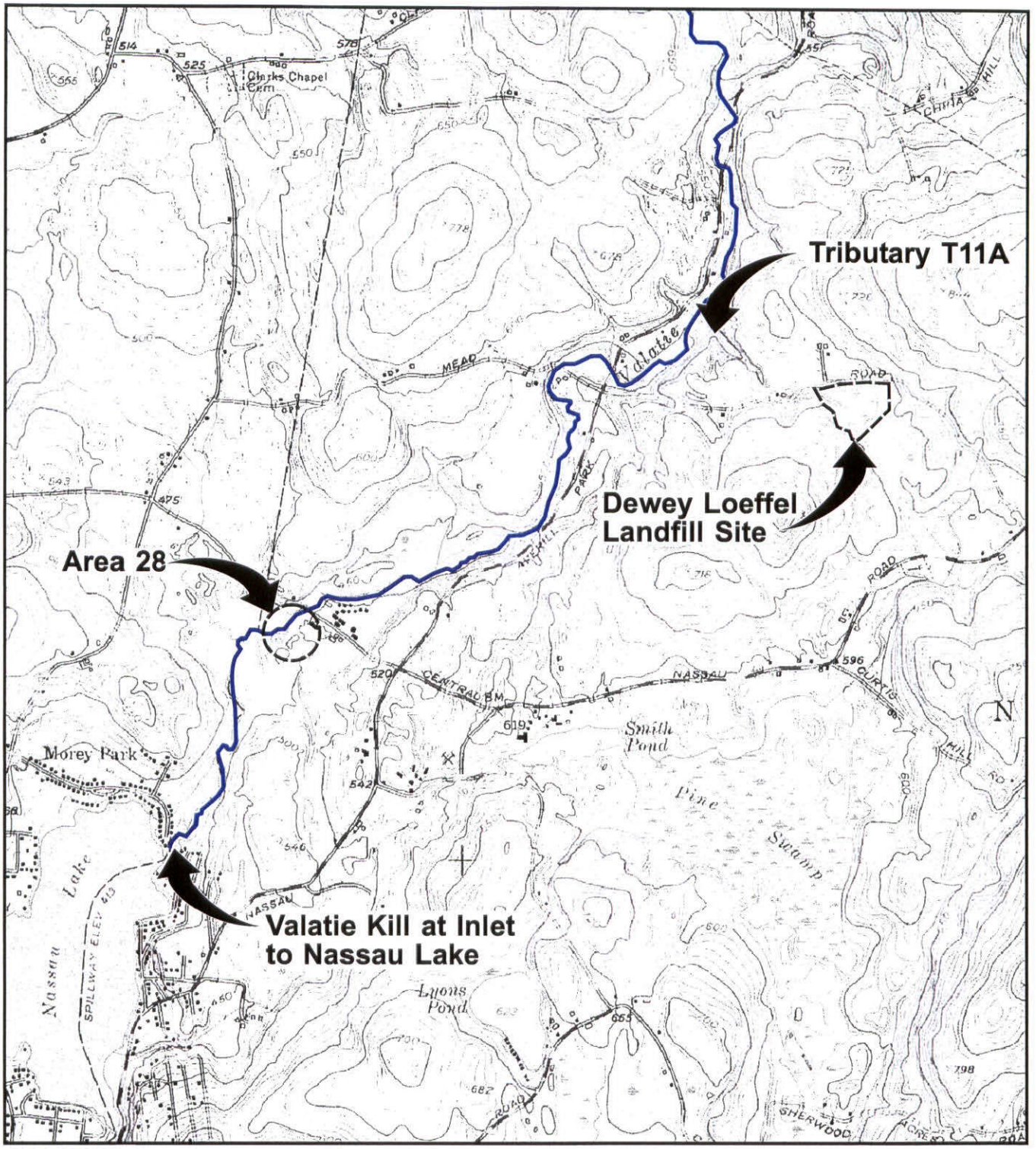

REFERENCE: Base Map Source, USGS 7.5 Min. Topo. Quad., Nassau, New York, 1953.

2000' 0 2000'

Approximate Scale: 1" = 2000'

03/27/06 SYR-D85-DJH
C/10073900/cdr/10073n01.cdr

GENERAL ELECTRIC COMPANY
LOEFFEL SITE ENVIRONS
2005 SURFACE WATER AND SUSPENDED SEDIMENT MONITORING

SITE LOCATION MAP

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FIGURE 1

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM FIELD SURVEY PERFORMED MARCH 20, 2002 THROUGH APRIL 5, 2002 BY BBL.
2. BASE MAP INFORMATION AT THE EXTREME EAST PORTION OF THE SITE FROM FIGURE BY CLOUGH, HARBOUR & ASSOCIATES LLP. AT A SCALE OF 1"=20', DATED 1/15/2002.
3. ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4. HORIZONTAL DATUM BASED ON NEW YORK STATE PLANE COORDINATE SYSTEM OF 1927, EAST ZONE.
5. CONTOUR INTERVAL = 2 FEET.
6. SAMPLE LOCATION IS APPROXIMATE.
7. LATITUDE AND LONGITUDE OBTAINED BY FIELD GPS UNIT WITH AN ACCURACY OF ±9-49 FEET. SAMPLE LOCATIONS ARE DEPICTED BASED ON FIELD OBSERVATIONS.

0 60' 120'
GRAPHIC SCALE

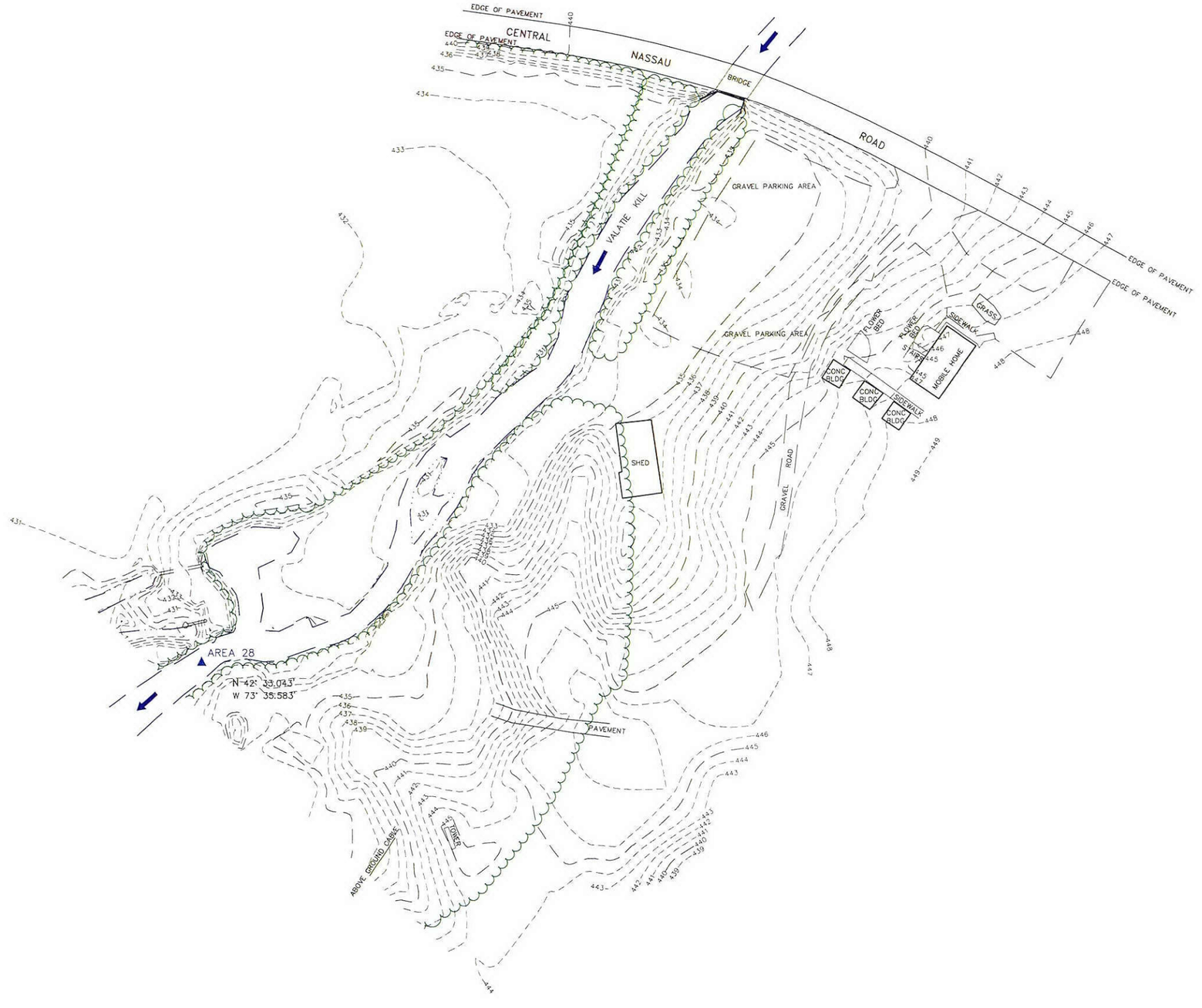
GENERAL ELECTRIC COMPANY
LOEFFEL SITE ENVIRONS
2005 SURFACE WATER AND SUSPENDED SEDIMENT MONITORING

T11A DOWNSTREAM SURFACE WATER AND SUSPENDED SEDIMENT SAMPLING LOCATION - 2005

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

FIGURE
2

X: 10073X00, X01.DWG
L: ON=*, OFF=*REF*
P: PAGESET/PLT-DL
3/27/06 SYR-85-NES LAF KEW
C/10073900/SWSSM/10073G01.DWG



LEGEND:

- EDGE OF WATER (DASHED WHERE APPROXIMATED)
- DIRECTION OF FLOW
- INTERMEDIATE ELEVATION CONTOUR
- INDEX ELEVATION CONTOUR
- TREES
- SAMPLE LOCATION

NOTES:

1. BASE MAP PREPARED FROM SURVEY INFORMATION GENERATED BY BBL, DATED APRIL 25, 2002.
2. SAMPLE LOCATIONS ARE APPROXIMATE.
3. LATITUDE AND LONGITUDE OBTAINED BY FIELD GPS UNIT WITH AN ACCURACY OF ±9-49 FEET. SAMPLE LOCATIONS ARE DEPICTED BASED ON FIELD OBSERVATIONS.
4. ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM 1929 AND HORIZONTAL NY SPC 27.

0 40' 80'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
LOEFFEL SITE ENVIRONS

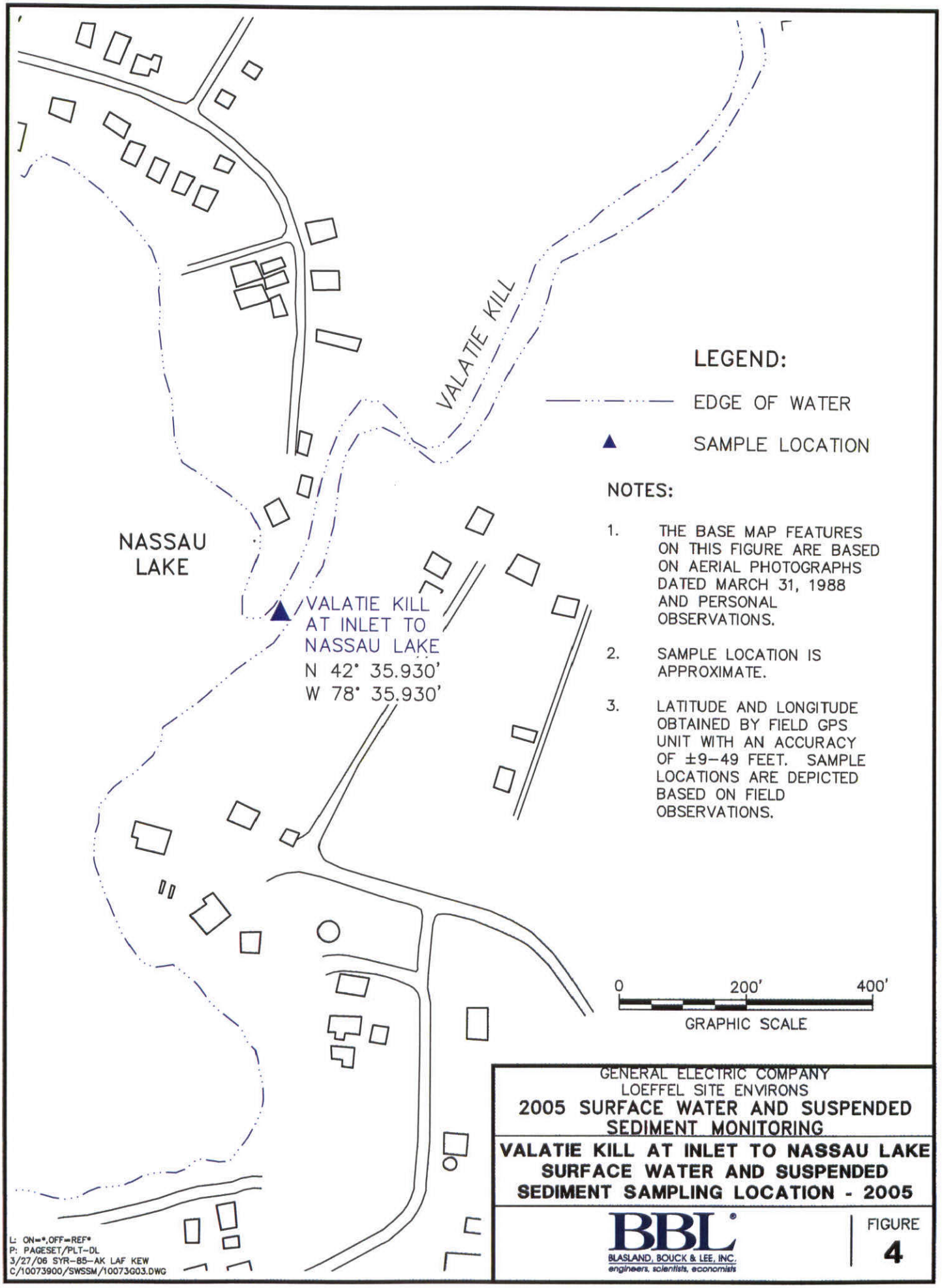
2005 SURFACE WATER AND SUSPENDED SEDIMENT MONITORING

AREA 28 DOWNSTREAM SURFACE WATER AND SUSPENDED SEDIMENT SAMPLING LOCATION - 2005

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

FIGURE 3

X: 10073X00.DWG
L: ON=*, OFF=REF*
P: PAGESET/PLT-DL
3/27/06 SYR-85-LJP LAF KEW
C/10073900/SWSSM/10073G02.DWG



GENERAL ELECTRIC COMPANY
LOEFFEL SITE ENVIRONS

2005 SURFACE WATER AND SUSPENDED SEDIMENT MONITORING

VALATIE KILL AT INLET TO NASSAU LAKE SURFACE WATER AND SUSPENDED SEDIMENT SAMPLING LOCATION - 2005

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

FIGURE **4**

L: ON=*,OFF=REF*
P: PAGESET/PLT-DL
3/27/06 SYR-85-AK LAF KEW
C/10073900/SWSSM/10073G03.DWG

FIGURE 5

USGS GAGING STATION 0130640 VALATIE KILL NEAR NASSAU, NY

Rensselaer County, New York
Hydrologic Unit Code 02020006
Latitude 42°33'07", Longitude 73°35'31" NAD27
Drainage area 9.48 square miles
Gage datum 450 feet above sea level NGVD29

YEAR	Monthly mean streamflow, in ft^3/s											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1990										12.6	21.6	23.3
1991	8.70	12.7	23.2	16.7	13.2	1.49	.32	2.06	2.61	16.6	26.5	17.8
1992	8.40	3.80	13.1	20.6	10.9	3.66	2.63	2.02	.66	1.73	9.58	15.2
1993	16.3	3.44	36.1	52.7	6.29	1.51	.52	.43	.95	2.03	12.4	18.9
1994	4.88	12.8	44.0	45.8	14.2	5.13	1.73	6.34	2.28	1.91	1.75	8.43
1995	15.9	5.05	34.2	12.6	4.05	1.13	1.20	1.95	.49	7.91	23.5	5.55
1996	40.1	13.9	18.1	49.4	41.7	14.1	14.8	1.66	7.89	8.37	10.5	39.2
1997	9.61	13.3	18.8	28.8	18.7	2.10	2.80	1.12	.91	1.26	14.3	13.9
1998	29.4	15.3	28.2	15.0	15.9	25.1	4.15	.83	.52	2.26	2.46	2.32
1999	30.4	14.8	28.5	7.70	19.2	1.69	2.00	3.22	22.7	20.5	15.1	11.0
2000	10.9	29.7	28.3	29.8	23.7	47.9	10.9	29.7	5.85	5.18	7.71	25.2
2001	4.52	11.5	24.7	44.4	3.51	7.19	1.19	.46	1.27	.78	1.48	4.74
2002	4.38	12.1	20.5	14.7	17.6	26.0	2.11	.82	1.72	8.42	20.5	28.1
2003	16.0	9.15	50.9	24.2	14.4	9.22	10.8	24.0	10.2	32.8	29.1	52.1
2004	10.2	3.01	24.9	21.6	12.3	5.57	3.66	6.94	22.1			
Mean of monthly streamflows	15.0	11.5	28.1	27.4	15.4	10.8	4.20	5.83	5.73	8.74	14.0	19.0

http://nwis.waterdata.usgs.gov/ny/nwis/monthly/?site_no=01360640&agency_cd=USGS

Attachment A

Data Validation Reports and Analytical Data

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

DATA VALIDATION REPORT

GENERAL ELECTRIC
LOEFFEL

SDG# TA5-I0-P333

PCB, TOC
AND TSS ANALYSES

Analyses performed by:

SGS Environmental Services, Inc.
Charleston, West Virginia

Review performed by:

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

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

Summary

The following is an assessment of sample delivery group (SDG) TA5-I0-P333 for sampling at the General Electric Loeffel site in Nassau, NY. 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	Sample Delivery Group	Lab ID	Matrix	Sample Date	Analysis			
					VOC	SVOC	PCB	MISC[2]
NL/VK-01	TA5-I0-P333	TA5I0P333001	Water	09/14/05			x	x
T11A-01	TA5-I0-P333	TA5I0P333002	Water	09/14/05			x	x
A28-01[1]	TA5-I0-P333	TA5I0P333003	Water	09/14/05			x	x
DUP-01	TA5-I0-P333	TA5I0P333006	Water	09/14/05			x	x
FEB-01	TA5-I0-P333	TA5I0P333007	Water	09/14/05			x	

1 Matrix spike/matrix spike duplicate (MS/MSD) analyses performed on sample.
2 Miscellaneous parameters include Total Organic Carbon (TOC), Total Suspended Solids (TSS) and Chlorophyll-a.

Note: Chlorophyll-a analyses were subcontracted to Martel Laboratories, Inc of Baltimore, Maryland

PCB ANALYSES

Introduction

Analyses were performed according to the United States Environmental Protection Agency (USEPA) Method 8082.

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 the USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound reporting 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.

P The difference in the quantitated results for the two columns was greater than 25%. The reported value may be biased.

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 reporting 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. Due to significant quality control (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. Second, 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 PCB analyses of samples are 7 days from sample collection to extraction and 40 days from extraction to analysis.

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

2. Blank Contamination

Quality assurance blanks, i.e., method 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 1254 was detected in the equipment blank. Sample results associated with sample locations NL/VK-01, T11A-01 and A28-01 exhibited Aroclor 1254 concentrations less than the blank action level and were qualified as nondetect.

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 instruments daily performance is satisfactory.

4.1 Initial Calibration

Method 8082 allows a maximum RSD of 20% or, alternately, calibration curves may be constructed.

Multi-point calibrations were performed for Aroclors 1016, 1254 and 1260 only. One-point calibrations were provided for the remaining Aroclors.

All initial calibrations were acceptable.

4.2 Continuing Calibration

The method allows a maximum %D of 15. The project-specified maximum %D is 25.

All continuing calibration standards were acceptable.

5. Surrogates / System Monitoring Compounds

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

All 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 secondary columns.

All quantitated peaks fell within the appropriate retention time windows.

7. MS/MSD Analysis

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

The MS/MSD recoveries exhibited associated with sample location A28-01a relative percent difference (RPD) greater than the control limit for Aroclor 1254. The Sample result for Aroclor 1254 was nondetect in the associated sample; therefore; no data were qualified based on the deviation.

8. Laboratory Control Sample (LCS) Analysis

All LCS recoveries were within control limits.

9. Field Duplicate Analysis

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
A28-01 / DUP-01	Aroclor 1254	ND (0.065)	0.35	200.0%

ND Not detected.
AC The field duplicate relative percent difference (RPD) is acceptable when the RPD between parent sample and field duplicate sample is less than one times the reporting limit (RL) and where the parent sample and/or duplicate concentration is less than five times RL.

The RPD results were unacceptable for Aroclor 1254. Sample results for Aroclor 1254 were qualified as estimated associated with sample locations A28-01 and DUP-01.

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.

SUPPLEMENTAL PARAMETERS

Introduction

Analyses were performed according to the following methods:

TSS	EPA 160.2
TOC	EPA 415.1
Chlorophyll-a	SM 10200H2

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 USEPA National Functional Guidelines:

U 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 but greater than or equal to the instrument detection limit (IDL).

J 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 inorganic analyses are as follows. All holding times are measured from date of collection.

TSS	7 days
TOC	14 days
Chlorophyll-a	21 days

All samples were 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. Field and rinse blanks measure contamination of samples during field operations.

All blanks were found to be acceptable, with no analytes detected above the reporting limits.

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.

The calibrations were acceptable.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

4.1 MS

The MS exhibited acceptable recoveries.

4.2 Laboratory Duplicate

The laboratory duplicate exhibited acceptable results.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
A28-01 / DUP-01	TOC	1.7	1.7	0.0%
	TSS	ND (5)	ND (5)	AC
	Chlorophyll-a	14	ND (6)	80.0%

ND not detected.
AC The field duplicate relative percent difference (RPD) is acceptable when the RPD between parent sample and field duplicate sample is less than one times the reporting limit (RL) and where the parent sample and/or duplicate concentration is less than five times RL.

The duplicate results were unacceptable for Chlorophyll-a. Sample results for Chlorophyll-a were qualified as estimated associated with sample locations A28-01 and DUP-01.

6. LCS Analysis

All LCS exhibited acceptable recoveries.

7. General Comments

No raw data was provided for Chlorophyll-a analyses. Therefore, an accurate assessment of Chlorophyll-a sample analyses could not be determined.

8. 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.

Corrected Sample Analysis Data Sheets

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: NL/VK-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 11:00
SGS Lab Number: TA5I0P333001 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 09/20/05 12:45 Preparation Batch: 118818 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 09/20/05 12:45 Analytical Batch: 118818 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	Total Suspended Solids		ND	5.0 U	mg/L	5.0						

SGS - Environmental Services

1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**

ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 11:00

SGS Lab Number: TA5I0P333001 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 09/20/05 19:25 Preparation Batch: 118925 Analyst: TL Report Basis: N/A

Run#: 001 Method Code: EPA415.1 Analyzed: 09/20/05 19:25 Analytical Batch: 118925 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon	<Hit>	1.7		mg/L	1.0						

SGS - Environmental Services

1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**

ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 11:00

SGS Lab Number: TA5I0P333001 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 09/16/05 15:00 Preparation Batch: 118668 Analyst: bcl Report Basis: N/A

Run#: 001 Method Code: SW8082 Analyzed: 09/19/05 18:14 Analytical Batch: 118762 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	<Hit>	~~0.061 J~~ U		ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.17		ug/L		66	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.18		ug/L		74	0.25	30 to 132			877-09-8

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: T11A-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 15:00
SGS Lab Number: TA5I0P333002 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 09/20/05 12:45 Preparation Batch: 118818 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 09/20/05 12:45 Analytical Batch: 118818 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0						

SGS - Environmental Services

1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**

ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 15:00

SGS Lab Number: TA5I0P333002 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 09/20/05 19:25 Preparation Batch: 118925 Analyst: TL Report Basis: N/A

Run#: 001 Method Code: EPA415.1 Analyzed: 09/20/05 19:25 Analytical Batch: 118925 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	Total Organic Carbon		ND	1.0 U	mg/L	1.0						

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 15:00
SGS Lab Number: TA5I0P333002 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 09/16/05 15:00 Preparation Batch: 118668 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 09/19/05 18:31 Analytical Batch: 118762 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	<Hit>	0.081	U	ug/L	~~0.065~~						11097-69-1
Analyte....	AROCLOR-1260	<Hit>	0.071		ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.18		ug/L		72	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.18		ug/L		74	0.25	30 to 132			877-09-8

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: A28-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 12:30
SGS Lab Number: TA5I0P333003 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2	Prepared: 09/20/05 12:45	Preparation Batch: 118818	Analyst: NBU	Report Basis: N/A
Run#: 001 Method Code: EPA160.2	Analyzed: 09/20/05 12:45	Analytical Batch: 118818	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0						

SGS - Environmental Services

1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**

ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 12:30

SGS Lab Number: TA5I0P333003 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1	Prepared: 09/20/05 19:25	Preparation Batch: 118925	Analyst: TL	Report Basis: N/A
Run#: 001 Method Code: EPA415.1	Analyzed: 09/20/05 19:25	Analytical Batch: 118925	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	1.7	mg/L	1.0						

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 510P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 12:30
SGS Lab Number: TA510P333003 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 09/16/05 15:00 Preparation Batch: 118668 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 09/19/05 18:47 Analytical Batch: 118762 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	<Hit>	~~0.034~~ J	WJ	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.13		ug/L		52	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.13		ug/L		53	0.25	30 to 132			877-09-8

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: DUP-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 00:00
SGS Lab Number: TA5I0P333006 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2		Prepared: 09/20/05 12:45		Preparation Batch: 118818			Analyst: NBU			Report Basis: N/A		
Run#: 001 Method Code: EPA160.2		Analyzed: 09/20/05 12:45		Analytical Batch: 118818			Dilution Factor: 1.00			Analytical Run Type: 00		
Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits		RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0							

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: DUP-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 00:00
SGS Lab Number: TA5I0P333006 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 09/20/05 19:25 Preparation Batch: 118925 Analyst: TL Report Basis: N/A
Run#: 001 Method Code: EPA415.1 Analyzed: 09/20/05 19:25 Analytical Batch: 118925 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon	<Hit>	1.7		mg/L	1.0						

SGS - Environmental Services

1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**

ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: DUP-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 00:00

SGS Lab Number: TA5I0P333006 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 09/16/05 15:00 Preparation Batch: 118668 Analyst: bcl Report Basis: N/A

Run#: 001 Method Code: SW8082 Analyzed: 09/19/05 19:36 Analytical Batch: 118762 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	<Hit>	0.35	J	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.12		ug/L		48	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.10		ug/L		41	0.25	30 to 132			877-09-8

SGS - Environmental Services

1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5I0P333 **Chain of Custody Number: 046097** **Received by SGS 09/16/05 09:35**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: FEB-01 Description: GRAB GE LOEFFEL SITE ENVIRONS Matrix: WATER Sampled: 09/14/05 00:00
SGS Lab Number: TA5I0P333007 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 09/16/05 15:00 Preparation Batch: 118668 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 09/19/05 19:53 Analytical Batch: 118762 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RE	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	<Hit>	0.038	J	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.12		ug/L		49	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.11		ug/L		45	0.25	30 to 132			877-09-8

MARTEL

Sensible Scientific Solutions

Certificate of Analysis

Tuesday, September 27, 2005

Prepared expressly for:

SGS
1258 Greenbrier Street

Charleston, WV 25311

Attention: Barbara Hensley

Report for Lab No: 29868.
Samples received by Martel.
Project Identification: Chlorophyll A Analysis.
Filters received 9/20/05.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
29868	000001	TAS-I0-P333-1	09/14/2005 11:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Chlorophyll (a)	12	mg/m^3	SM 10200H2	6	09/16/2005 13:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
29868	000002	TAS-I0-P333-2	09/14/2005 15:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Chlorophyll (a)	11	mg/m^3	SM 10200H2	6	09/16/2005 13:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
29868	000003	TAS-I0-P333-3	09/14/2005 12:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Chlorophyll (a)	14 J	mg/m^3	SM 10200H2	6	09/16/2005 13:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
29868	000004	TAS-I0-P333-4	09/14/2005 12:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Chlorophyll (a)	11*	mg/m^3	SM 10200H2	6	09/16/2005 13:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
29868	000005	TAS-I0-P333-5	09/14/2005 12:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Chlorophyll (a)	16*	mg/m^3	SM 10200H2	6	09/16/2005 13:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
29868	000006	TAS-I0-P333-6	09/14/2005 00:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Chlorophyll (a)	<6 J	mg/m^3	SM 10200H2	6	09/16/2005 13:15 CB

DATA USABILITY SUMMARY REPORT

GENERAL ELECTRIC

LOEFFEL

SDG#TA5-K0-P322

PCB, TOC, TSS AND CHLOROPHYLL-A ANALYSES

Analyses performed by:

SGS Environmental Services
Charleston, West Virginia

Review performed by:

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

Summary

The following is an assessment of the data package for Sample Delivery Group (SDG)#TA5-K0-P322 for sampling from the GE Loeffel Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample Id ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC
NL/VK-01	TA5K0P322001	Water	11/14/2005			X		X
T11A-01	TA5K0P322002	Water	11/14/2005			X		X
A28-01	TA5K0P322003	Water	11/14/2005			X		X

Notes:

1. Miscellaneous parameters include Total Organic Carbon (TOC), Total Suspended Solids (TSS) and Chlorophyll-a analyses

POLYCHLORINATED BIPHENYLS (PCBs) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8082. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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 USEPA 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 quality control (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 Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method 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. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No compounds 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 relative standard deviation (RSD) of 20% is allowed. Multiple-point calibrations were performed for Aroclors 1016, 1254 and 1260 only. Single-point calibrations were performed for the remaining Aroclors.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (15%).

All calibration criteria were within the control limits.

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. PCB analysis requires that one of the two PCB surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries reported from the primary column were within control limits.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries within the control limits.

7. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

No field duplicates were included with this SDG.

9. 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 detected in the samples.

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.

SUPPLEMENTAL PARAMETERS

Introduction

Analyses were performed according to the following USEPA methods:

TOC	EPA 415.1
TSS	EPA 160.2
Chlorophyll-a	SM10200H2

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.

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 Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
EPA 415.1	Water	14 days from collection to analysis	Cooled @ 4 °C
EPA 160.2	Water	7 days from collection to analysis	Cooled @ 4 °C
SM 10200H2	Water	21 days from collection to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

QA blanks (i.e., method 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. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No compounds were detected above the 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.

Calibration data were acceptable.

5. MS/MSD Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries.

6. LCS Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

No field duplicates were included in this SDG.

8. General Comments

No raw data was provided for Chlorophyll-a analyses. Therefore, a complete data assessment of Chlorophyll-a analyses could not be determined.

9. System Performance and Overall Assessment

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

Corrected Sample Analysis Data Sheets

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 **Chain of Custody Number: 046107** **Received by SGS 11/16/05 10:20**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 18:35
SGS Lab Number: TA5K0P322001 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/21/05 15:00 Preparation Batch: 121693 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/21/05 22:41 Analytical Batch: 121639 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.20		ug/L		80	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.14		ug/L		58	0.25	30 to 132			877-09-8

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 **Chain of Custody Number: 046107** **Received by SGS 11/16/05 10:20**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: T11A-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 18:40
SGS Lab Number: TA5K0P322002 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/21/05 15:00 Preparation Batch: 121693 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/21/05 22:57 Analytical Batch: 121639 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.14		ug/L		55	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.099		ug/L		40	0.25	30 to 132			877-09-8

SGS - Environmental Servic
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 **Chain of Custody Number: 046107** **Received by SGS 11/16/05 10:20**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: A28-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 20:35
SGS Lab Number: TA5K0P322003 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/21/05 15:00 Preparation Batch: 121693 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/21/05 23:14 Analytical Batch: 121639 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.13		ug/L		53	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.11		ug/L		45	0.25	30 to 132			877-09-8

SGS Environmental Service
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 **Chain of Custody Number: 046107** **Received by SGS 11/16/05 10:20**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 18:35
SGS Lab Number: TA5K0P322001 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/17/05 14:45 Preparation Batch: 121505 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/17/05 14:45 Analytical Batch: 121505 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0						

SGS - Environmental Service
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 **Chain of Custody Number: 046107** **Received by SGS 11/16/05 10:20**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 18:40
SGS Lab Number: TA5K0P322002 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/17/05 14:45 Preparation Batch: 121505 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/17/05 14:45 Analytical Batch: 121505 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	Total Suspended Solids		ND	5.0 U	mg/L	5.0						

SGS Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 **Chain of Custody Number: 046107** **Received by SGS 11/16/05 10:20**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 20:35
SGS Lab Number: TA5K0P322003 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/17/05 14:45 Preparation Batch: 121505 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/17/05 14:45 Analytical Batch: 121505 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0						

SGS Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 **Chain of Custody Number: 046107** **Received by SGS 11/16/05 10:20**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 18:35
SGS Lab Number: TA5K0P322001 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1	Prepared: 11/17/05 11:05	Preparation Batch: 121468	Analyst: TL	Report Basis: N/A
Run#: 001 Method Code: EPA415.1	Analyzed: 11/17/05 11:05	Analytical Batch: 121468	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	3.2	mg/L	1.0						

SGS - Environmental Servic
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 Chain of Custody Number: 046107 Received by SGS 11/16/05 10:20
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: T11A-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 18:40
SGS Lab Number: TA5K0P322002 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 11/17/05 11:05 Preparation Batch: 121468 Analyst: TL Report Basis: N/A
Run#: 001 Method Code: EPA415.1 Analyzed: 11/17/05 11:05 Analytical Batch: 121468 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	Total Organic Carbon	<Hit>	8.1		mg/L	1.0						

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P322 **Chain of Custody Number: 046107** **Received by SGS 11/16/05 10:20**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: A28-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/14/05 20:35
SGS Lab Number: TA5K0P322003 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 11/17/05 11:05 Preparation Batch: 121468 Analyst: TL Report Basis: N/A
Run#: 001 Method Code: EPA415.1 Analyzed: 11/17/05 11:05 Analytical Batch: 121468 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	Total Organic Carbon	<Hit>	3.4		mg/L	1.0						

MARTEL *Sensible Scientific Solutions*

Certificate of Analysis

Friday, December 2, 2005

Prepared expressly for:

SGS
1258 Greenbrier Street

Charleston, WV 25311

Attention: Barbara Hensley

Report for Lab No: 31648.
Samples Received By Martel
Project Identification: Chlorophyll A Analysis
Filters Received 11/17/05

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31648	000001	TA5-KO-P322-001	11/14/2005 18:35

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	11/22/2005 12:45 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31648	000002	TA5-KO-P322-002	11/14/2005 18:40

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	11/22/2005 12:45 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31648	000003	TA5-KO-P322-003	11/14/2005 20:35

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	11/22/2005 12:45 CB

DATA USABILITY SUMMARY REPORT

GENERAL ELECTRIC

LOEFFEL

SDG#TA5-K0-P425

PCB, TOC, TSS AND CHLOROPHYLL-A ANALYSES

Analyses performed by:

SGS Environmental Services
Charleston, West Virginia

Review performed by:

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

Summary

The following is an assessment of the data package for Sample Delivery Group (SDG)#TA5-K0-P425 for sampling from the GE Loeffel Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC
T11A-02	TA5K0P425001	Water	11/16/2005			X		X
NV/VK-02	TA5K0P425002	Water	11/16/2005			X		X
A28-02	TA5K0P425003	Water	11/16/2005			X		X
T11A-03	TA5K0P425004	Water	11/16/2005			X		X
NL/VK-03	TA5K0P425005	Water	11/16/2005			X		X
A28-03	TA5K0P425006	Water	11/16/2005			X		X
T11A-04	TA5K0P425007	Water	11/17/2005			X		X
NL/VK-04	TA5K0P425008	Water	11/17/2005			X		X
A28-04[1]	TA5K0P425009	Water	11/17/2005			X		X
DUP-1	TA5K0P425013	Water	11/17/2005			X		X
T11A-02 (06)	TA5K0P425022	Filter	11/16/2005			X		
T11A-03 (04)	TA5K0P425043	Filter	11/16/2005			X		
FEB-01	TA5K0P425045	Filter	11/17/2005			X		

Notes:

1. Matrix spike/matrix spike duplicate (MS/MSD) performed on sample
2. Miscellaneous parameters include Total Organic Carbon (TOC), Total Suspended Solids (TSS) and Chlorophyll-a analyses

POLYCHLORINATED BIPHENYLS (PCBs) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8082. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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 USEPA 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 quality control (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 Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method 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. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No compounds 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 relative standard deviation (RSD) of 20% is allowed. Multiple-point calibrations were performed for Aroclors 1016, 1254 and 1260 only. Single-point calibrations were performed for the remaining Aroclors.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (15%).

All calibration criteria were within the control limits.

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. PCB analysis requires that one of the two PCB surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries reported from the primary column were within control limits.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries within the control limits.

7. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
A28-04 / DUP-1	All compounds	ND	ND	AC

Notes:
ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD were acceptable.

9. 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.

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.

SUPPLEMENTAL PARAMETERS

Introduction

Analyses were performed according to the following USEPA methods:

TOC	EPA 415.1
TSS	EPA 160.2
Chlorophyll-a	SM10200H2

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.

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 Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
EPA 415.1	Water	14 days from collection to analysis	Cooled @ 4 °C
EPA 160.2	Water	7 days from collection to analysis	Cooled @ 4 °C
SM 10200H2	Water	21 days from collection to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method 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. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No compounds were detected above the 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.

Calibration data were acceptable.

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries

must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix Interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
A28-04 / DUP-1	TOC	5.1	5.5	7.5%
	TSS	ND (5.0)	ND (5.0)	AC
	Chloropyhll-a	ND (6)	ND (6)	AC

Notes:
ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD were acceptable.

8. General Comments

No raw data was provided for Chlorophyll-a analyses. Therefore, a complete data assessment of Chlorophyll-a analyses could not be determined.

9. System Performance and Overall Assessment

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

Corrected Sample Analysis Data Sheets

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 18:00
SGS Lab Number: TA5K0P425001 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/22/05 13:15 Preparation Batch: 121719 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/22/05 13:15 Analytical Batch: 121719 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		<Hit>	150	mg/L	5.0						

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: T11A-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 18:00
SGS Lab Number: TA5K0P425001 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1	Prepared: 11/21/05 14:40	Preparation Batch: 121651	Analyst: TL	Report Basis: N/A
Run#: 001 Method Code: EPA415.1	Analyzed: 11/21/05 14:40	Analytical Batch: 121651	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	7.0	mg/L	1.0						

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: T11A-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 18:00
SGS Lab Number: TA5K0P425001 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 18:26 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	<Hit>	0.032	J	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.15		ug/L		60	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.12		ug/L		47	0.25	30 to 132			877-09-8

SGS Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 17:30
SGS Lab Number: TA5K0P425002 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/22/05 13:15 Preparation Batch: 121719 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/22/05 13:15 Analytical Batch: 121719 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	Total Suspended Solids		ND	5.0 U	mg/L	5.0						

SGS · Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 17:30
SGS Lab Number: TA5K0P425002 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 11/21/05 14:40 Preparation Batch: 121651 Analyst: TL Report Basis: N/A
Run#: 001 Method Code: EPA415.1 Analyzed: 11/21/05 14:40 Analytical Batch: 121651 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	Total Organic Carbon	<Hit>	3.4		mg/L	1.0						

5 of 5

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 17:30
SGS Lab Number: TA5K0P425002 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 18:43 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.14		ug/L		58	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.11		ug/L		44	0.25	30 to 132			877-09-8

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: A28-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 18:00
SGS Lab Number: TA5K0P425003 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/22/05 13:15 Preparation Batch: 121719 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/22/05 13:15 Analytical Batch: 121719 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	Total Suspended Solids		<Hit>	10	mg/L	5.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 18:00
SGS Lab Number: TA5K0P425003 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 11/21/05 14:40 Preparation Batch: 121651 Analyst: TL Report Basis: N/A
Run#: 001 Method Code: EPA415.1 Analyzed: 11/21/05 14:40 Analytical Batch: 121651 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	4.0	mg/L	1.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: A28-02 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 18:00
SGS Lab Number: TA5K0P425003 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 19:00 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.19		ug/L		75	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.14		ug/L		57	0.25	30 to 132			877-09-8

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 19:50
SGS Lab Number: TA5K0P425004 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2	Prepared: 11/22/05 13:15	Preparation Batch: 121719	Analyst: NBU	Report Basis: N/A
Run#: 001 Method Code: EPA160.2	Analyzed: 11/22/05 13:15	Analytical Batch: 121719	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		<Hit>	20	mg/L	5.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: T11A-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 19:50
SGS Lab Number: TA5K0P425004 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1		Prepared: 11/21/05 14:40		Preparation Batch: 121651		Analyst: TL			Report Basis: N/A		
Run#: 001 Method Code: EPA415.1		Analyzed: 11/21/05 14:40		Analytical Batch: 121651		Dilution Factor: 1.00			Analytical Run Type: 00		
Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	8.8	mg/L	1.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: T11A-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 19:50
SGS Lab Number: TA5K0P425004 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 19:17 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	<Hit>	0.056	J	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.14		ug/L		56	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.14		ug/L		55	0.25	30 to 132			877-09-8

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: NL/VK-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 20:30
SGS Lab Number: TA5K0P425005 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2		Prepared: 11/22/05 14:30	Preparation Batch: 121720		Analyst: NBU				Report Basis: N/A			
Run#: 001 Method Code: EPA160.2		Analyzed: 11/22/05 14:30	Analytical Batch: 121720		Dilution Factor: 1.00				Analytical Run Type: 00			
Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number	
Analyte.... Total Suspended Solids		<Hit>	82	mg/L	5.0							

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 20:30
SGS Lab Number: TA5K0P425005 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 11/21/05 14:40 Preparation Batch: 121651 Analyst: TL Report Basis: N/A
Run#: 001 Method Code: EPA415.1 Analyzed: 11/21/05 14:40 Analytical Batch: 121651 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	5.1	mg/L	1.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 20:30
SGS Lab Number: TA5K0P425005 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 19:34 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.16		ug/L		66	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.14		ug/L		57	0.25	30 to 132			877-09-8

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 20:30
SGS Lab Number: TA5K0P425006 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/22/05 14:30 Preparation Batch: 121720 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/22/05 14:30 Analytical Batch: 121720 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		<Hit>	41	mg/L	5.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 20:30
SGS Lab Number: TA5K0P425006 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1	Prepared: 11/21/05 14:40	Preparation Batch: 121651	Analyst: TL	Report Basis: N/A
Run#: 001 Method Code: EPA415.1	Analyzed: 11/21/05 14:40	Analytical Batch: 121651	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	Qf	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	5.8	mg/L	1.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** Received by SGS 11/19/05 10:50
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-03 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/16/05 20:30
SGS Lab Number: TA5K0P425006 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 19:51 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.16		ug/L		64	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.15		ug/L		62	0.25	30 to 132			877-09-8

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 07:50
SGS Lab Number: TA5K0P425007 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2	Prepared: 11/22/05 14:30	Preparation Batch: 121720	Analyst: NBU	Report Basis: N/A
Run#: 001 Method Code: EPA160.2	Analyzed: 11/22/05 14:30	Analytical Batch: 121720	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 07:50
SGS Lab Number: TA5K0P425007 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1	Prepared: 11/21/05 14:40	Preparation Batch: 121651	Analyst: TL	Report Basis: N/A
Run#: 001 Method Code: EPA415.1	Analyzed: 11/21/05 14:40	Analytical Batch: 121651	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	4.5	mg/L	1.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 07:50
SGS Lab Number: TA5K0P425007 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 20:08 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016		ND	0.065 U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221		ND	0.065 U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232		ND	0.065 U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242		ND	0.065 U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248		ND	0.065 U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254		<Hit>	0.073	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260		ND	0.065 U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL		qc	0.15	ug/L		60	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE		qc	0.14	ug/L		55	0.25	30 to 132			877-09-8

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 14:00
SGS Lab Number: TA5K0P425008 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2	Prepared: 11/22/05 14:30	Preparation Batch: 121720	Analyst: NBU	Report Basis: N/A
Run#: 001 Method Code: EPA160.2	Analyzed: 11/22/05 14:30	Analytical Batch: 121720	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 14:00
SGS Lab Number: TA5K0P425008 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 11/21/05 14:40 Preparation Batch: 121651 Analyst: TL Report Basis: N/A
Run#: 001 Method Code: EPA415.1 Analyzed: 11/21/05 14:40 Analytical Batch: 121651 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	5.7	mg/L	1.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: NL/VK-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 14:00
SGS Lab Number: TA5K0P425008 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 20:25 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.19		ug/L		75	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.15		ug/L		60	0.25	30 to 132			877-09-8

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Sample Delivery Group: 5K0P425 Chain of Custody Number: 047062 Received by SGS 11/19/05 10:50
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: A28-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 14:10
SGS Lab Number: TA5K0P425009 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/22/05 14:30 Preparation Batch: 121720 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/22/05 14:30 Analytical Batch: 121720 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 14:10
SGS Lab Number: TA5K0P425009 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1	Prepared: 11/21/05 14:40	Preparation Batch: 121651	Analyst: TL	Report Basis: N/A
Run#: 001 Method Code: EPA415.1	Analyzed: 11/21/05 14:40	Analytical Batch: 121651	Dilution Factor: 1.00	Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	5.1	mg/L	1.0						

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Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: A28-04 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 14:10
SGS Lab Number: TA5K0P425009 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 21:15 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016		ND	0.065 U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221		ND	0.065 U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232		ND	0.065 U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242		ND	0.065 U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248		ND	0.065 U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254		ND	0.065 U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260		ND	0.065 U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL		qc	0.15	ug/L		61	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE		qc	0.16	ug/L		62	0.25	30 to 132			877-09-8

15 of 41

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: DUP-1 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 00:00
SGS Lab Number: TA5K0P425013 Percent Solids: N/A Sample Type: F

Prep Code: EPA160.2 Prepared: 11/22/05 14:30 Preparation Batch: 121720 Analyst: NBU Report Basis: N/A
Run#: 001 Method Code: EPA160.2 Analyzed: 11/22/05 14:30 Analytical Batch: 121720 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Suspended Solids		ND	5.0 U	mg/L	5.0						

15GG

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: DUP-1 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 00:00
SGS Lab Number: TA5K0P425013 Percent Solids: N/A Sample Type: F

Prep Code: EPA415.1 Prepared: 11/21/05 14:40 Preparation Batch: 121651 Analyst: TL Report Basis: N/A
Run#: 001 Method Code: EPA415.1 Analyzed: 11/21/05 14:40 Analytical Batch: 121651 Dilution Factor: 1.00 Analytical Run Type: 00

Type..... Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte.... Total Organic Carbon		<Hit>	5.5	mg/L	1.0						

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: DUP-1 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 00:00
SGS Lab Number: TA5K0P425013 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 22:06 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.18		ug/L		72	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.16		ug/L		66	0.25	30 to 132			877-09-8

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-02 (06) Description: COMPOSITE GE LOEFFEL HIGH FLOW SAMPLING Matrix: SED Sampled: 11/16/05 18:00
SGS Lab Number: TA5K0P425022 Percent Solids: N/A Sample Type: F

Prep Code: SW3541C Prepared: 11/30/05 13:00 Preparation Batch: 121993 Analyst: bcl Report Basis: Wet
Run#: 001 Method Code: SW8082 Analyzed: 12/01/05 15:42 Analytical Batch: 122004 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.28	U	mg/Kg	0.28						12674-11-2
Analyte....	AROCLOR-1221	ND	0.28	U	mg/Kg	0.28						11104-28-2
Analyte....	AROCLOR-1232	ND	0.28	U	mg/Kg	0.28						11141-16-5
Analyte....	AROCLOR-1242	ND	0.28	U	mg/Kg	0.28						53469-21-9
Analyte....	AROCLOR-1248	ND	0.28	U	mg/Kg	0.28						12672-29-6
Analyte....	AROCLOR-1254	ND	0.28	U	mg/Kg	0.28						11097-69-1
Analyte....	AROCLOR-1260	ND	0.28	U	mg/Kg	0.28						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.17		mg/Kg		59	0.28	50 to 150			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.14		mg/Kg		48	0.28	27 to 132			877-09-8

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell **BLASLAND, BOUCK & LEE, INC.** **SYRACUSE NY**

Reference: T11A-03 (04) Description: COMPOSITE GE LOEFFEL HIGH FLOW SAMPLING Matrix: SED Sampled: 11/16/05 19:50
SGS Lab Number: TA5K0P425043 Percent Solids: N/A Sample Type: F

Prep Code: SW3541C Prepared: 11/30/05 15:00 Preparation Batch: 121992 Analyst: bcl Report Basis: Wet
Run#: 001 Method Code: SW8082 Analyzed: 12/01/05 15:59 Analytical Batch: 122004 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.46	U	mg/Kg	0.46						12674-11-2
Analyte....	AROCLOR-1221	ND	0.46	U	mg/Kg	0.46						11104-28-2
Analyte....	AROCLOR-1232	ND	0.46	U	mg/Kg	0.46						11141-16-5
Analyte....	AROCLOR-1242	ND	0.46	U	mg/Kg	0.46						53469-21-9
Analyte....	AROCLOR-1248	ND	0.46	U	mg/Kg	0.46						12672-29-6
Analyte....	AROCLOR-1254	ND	0.46	U	mg/Kg	0.46						11097-69-1
Analyte....	AROCLOR-1260	ND	0.46	U	mg/Kg	0.46						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.39		mg/Kg		84	0.46	50 to 150			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.36		mg/Kg		78	0.46	27 to 132			877-09-8

15KK

SGS - Environmental Services
1258 Greenbrier Street Charleston WV 25311

Sample Delivery Group: 5K0P425 **Chain of Custody Number: 047062** **Received by SGS 11/19/05 10:50**
ATTN: Chris Torell BLASLAND, BOUCK & LEE, INC. SYRACUSE NY

Reference: FEB-01 Description: GRAB GE LOEFFEL HIGH FLOW SAMPLING Matrix: WATER Sampled: 11/17/05 00:00
SGS Lab Number: TA5K0P425045 Percent Solids: N/A Sample Type: F

Prep Code: SW3510C Prepared: 11/23/05 13:30 Preparation Batch: 121767 Analyst: bcl Report Basis: N/A
Run#: 001 Method Code: SW8082 Analyzed: 11/25/05 22:23 Analytical Batch: 121821 Dilution Factor: 1.00 Analytical Run Type: 00

Type.....	Parameter Name	QF	Result	RF	Units	PQL	%REC	Spk Amt	Spk Limits	RPD	PDHi	CAS Number
Analyte....	AROCLOR-1016	ND	0.065	U	ug/L	0.065						12674-11-2
Analyte....	AROCLOR-1221	ND	0.065	U	ug/L	0.065						11104-28-2
Analyte....	AROCLOR-1232	ND	0.065	U	ug/L	0.065						11141-16-5
Analyte....	AROCLOR-1242	ND	0.065	U	ug/L	0.065						53469-21-9
Analyte....	AROCLOR-1248	ND	0.065	U	ug/L	0.065						12672-29-6
Analyte....	AROCLOR-1254	ND	0.065	U	ug/L	0.065						11097-69-1
Analyte....	AROCLOR-1260	ND	0.065	U	ug/L	0.065						11096-82-5
Surrogate..	DECACHLOROBIPHENYL	qc	0.20		ug/L		80	0.25	36 to 144			2051-24-3
Surrogate..	TETRACHLORO-M-XYLENE	qc	0.17		ug/L		66	0.25	30 to 132			877-09-8

5 of 5

MARTEL

Sensible Scientific Solution

Certificate of Analysis

Friday, December 2, 2005

Prepared expressly for:

SGS
1258 Greenbrier Street

Charleston, WV 25311

Attention: Jeannie Milholland

Report for Lab No: 31763.
Samples Received By Martel
Project Identification: Chlorophyll A Analysis
Filters Recieved 11/22/05

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000001	TA5-KO-P425-001	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	9	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000002	TA5-KO-P425-002	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000003	TA5-KO-P425-003	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	9	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000004	TA5-KO-P425-004	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000005	TA5-KO-P425-005	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	15	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000006	TA5-KO-P425-006	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	14	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000007	TA5-KO-P425-007	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000008	TA5-KO-P425-008	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000009	TA5-KO-P425-009	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000010	TA5-KO-P425-013	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000011	TA5-KO-P425-010	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
31763	000012	TA5-KO-P425-011	11/21/2005 00:00

Compound	Test Value	Test Unit	Method	Analysis Date/Time/Initial
Chlorophyll (a)	<6	mg/m^3	SM 10200H2	12/01/2005 12:15 CB

Attachment B

Chain-of-Custody Records

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

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
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046097

(1)
CLIENT: BBL, Inc.
CONTACT: Chris Torell PHONE NO: (315) 446-9120
PROJECT: GE Loeffel Site Environs SITE/PWSID#: 100.73
REPORTS TO: Chris Torell FAX NO.: (315) 446-9161
INVOICE TO: Chris Torell QUOTE #
P.O. NUMBER —

SGS Reference:

PAGE 1 OF 2

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP G=GRAB)	Preservatives Used	H2SO4	-	-	-	-	-				
							Analysis Required (3)	TOC	TSS	Chlorophyll a	PCBs (Aroclor) Suspended Sediment	TOC Suspended Sediment	PCB				REMARKS
	NL/VK-01	9/14/05	1100	Water	5	G		X	X	X	X						
	T11A-01	9/14/05	1500	Water	5	G		X	X	X	X						
	A28-01	9/14/05	1230	Water	5	G		X	X	X	X						
	A28-01-MS	9/14/05	1230	Water	5	G		X	X	X	X						
	A28-01-MSD	9/14/05	1230	Water	5	G		X	X	X	X						
	DUP-01	9/14/05	—	Water	5	G		X	X	X	X						
	FEB-01	9/14/05	—	Water	1	G					X						
	NL/VK-01	9/14/05	1100	Filter	1	C						X	X	7			
	T11A-01	9/14/05	1500	Filter	1	C						X	X	7	call	bb	w/ture
	A28-01	9/14/05	1230	Filter	1	C						X	X	7	before extraction		

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[illegible]	9/15/05	900	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature °C: _____ . _____
Special Deliverable Requirements:
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

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046106

(1)

CLIENT: BBL, Inc.

CONTACT: Chris Torell PHONE NO: (315) 446-9120

PROJECT: GE Loeffel Site Environ SITE/PWSID#: —

REPORTS TO: Chris Torell FAX NO.: (315) 445-9161

INVOICE TO: Chris Torell QUOTE #

P.O. NUMBER 10073.

SGS Reference:

PAGE 2 OF 2

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used	(3) Analysis Required: Suspended Sediment - TOC	Suspended Sediment - PCB	REMARKS
	A28-01-MS	9/14/05	1230	Filter	1	C		X	X	call BBL w/ tare before extraction
	A28-01-MSD	9/14/05	1230	Filter	1	C		X	X	
	DUP-01	9/14/05	—	Filter	1	C		X	X	

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	9/15/05	900	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:	Samples Received Cold? (Circle) YES NO
Shipping Ticket No:	Temperature °C: ____
Special Deliverable Requirements:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time and Special Instructions:	

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046107

(1)

CLIENT: BBL, Inc.

CONTACT: Chris Tarell PHONE NO:(315) 446-9120

PROJECT: High Flow Sampling SITE/PWSID#: GE Lockfel

REPORTS TO: Chris Tarell FAX NO.:(315) 446-9161

INVOICE TO: Chris Tarell QUOTE # P.O. NUMBER 100.73.900

SGS Reference:

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used: H_2SO_4 - - - - -	Analysis Required (3): TOC	TSS	chlorophyll a	PCBs (Aroclor)	suspended Sediment - TOC	Sediment - TOC	Sediment - PCB	REMARKS
	NL/VK-01	11/14/05	1835	Water	4	G		X	X	X	X				
	T11A-01	11/14/05	1840	Water	4	G		X	X	X	X				
	A28-01	11/14/05	2035	Water	4	G		X	X	X	X				
	NL/VK-01	11/14/05	1835	Filter	1	C						X	X		call bbl w/tare before extraction
	T11A-01	11/14/05	1840	Filter	1	C						X	X		
	A28-01	11/14/05	2035	Filter	1	C						X	X		

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
Jack Plotkin 3	11/15/05	1600	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C: _____ . _____

Special Deliverable Requirements:

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

Standard Turnaround Time

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047062

(1)

CLIENT: BBL Inc

CONTACT: Chris Torell PHONE NO: 315 446-9120

PROJECT: High Flow Sampling SITE/PWSID#: GE Laffel

REPORTS TO: Chris Torell FAX NO.: (315) 446-9161

INVOICE TO: Chris Torell QUOTE #

P.O. NUMBER 100.73.900

SGS Reference:

PAGE 1 OF

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used: H2SO4	–	–	–	Analysis Required (3): TOC	TSS	Chlorophyll a	PCBs (Aroclors) Suspended Sediment - TOC	PCBs (Aroclors) Suspended Sediment - PCB	REMARKS
	TIIA-02	11/16/05	1800	Water	4	G					1	1	1	1		
	~~AT~~ NL/VK-02	11/16/05	1730		4	G					1	1	1	1		
	A28-02	11/16/05	1800		4	G					1	1	1	1		
	TIIA-03	11/16/05	1950		4	G					1	1	1	1		
	NL/VK-03	11/16/05	2030		4	G					1	1	1	1		
	A28-03	11/16/05	2030		4	G					1	1	1	1		
	TIIA-04	11/17/05	750		4	G					1	1	1	1		
	NL/VK-04	11/17/05	1400		4	G					1	1	1	1		
	A28-04	11/17/05	1410		4	G					1	1	1	1		
	A28-04-MS	11/17/05	1410	↓	4	G					1	1	1	1		

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11/18/05	1400	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C: ____ • ____

Special Deliverable Requirements:

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

Standard Turn Around Time

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047061

(1)

CLIENT: BBL, Inc.

CONTACT: Chris Tarell PHONE NO:(315) 446-9120

PROJECT: High Flow Sampling SITE/PWSID#: GE Loeffel

REPORTS TO: Chris Tarell FAX NO.:(315) 445-9161

INVOICE TO: Chris Tarell QUOTE # P.O. NUMBER 100.73.900

SGS Reference:

PAGE 2 OF

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP G=GRAB)	Preservatives Used: H2SO4 – – – –	Analysis Required (3): TOC	TSS	Chlorophyll a	PCBs (Aroclors) Suspended Sediment - TOC	PCBs (Aroclors) Suspended Sediment - PCB	REMARKS
	A28-04-MSD	11/17/05	1410	Water	4	G	X	X	X	X			
	DUP-01	11/17/05	—	Water	4	G	X	X	X	X			
	A28-02(01)	11/16/05	1600	Filter	1	C					X	X	
	A28-02(02)	11/16/05	1600	Filter	1	C					X	X	Call BBL w/ Tare before extraction
	NL/VK-02	11/16/05	1730	Filter	1	C					X	X	
	T11A-02(01)	11/16/05	1800	Filter	1	C					X	X	
	(02)				1	C					X	X	
	(03)				1	C					X	X	
	(04)				1	C					X	X	
	(05)				1	C					X	X	

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11/18/05	1400	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C: ____ . ____

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

Standard TurnAround Time

SGS

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
- Alaska
- Maryland
- Hawaii
- West Virginia
- New Jersey

www.us.sgs.com

046112

(1)

CLIENT: BBL, Inc

CONTACT: Chris Tarell PHONE NO: (315) 446-9120

PROJECT: Highflow Sampling SITE/PWSID#: GE Loeffel

REPORTS TO: Chris Tarell FAX NO.: (315) 445-9116

INVOICE TO: Chris Tarell QUOTE # P.O. NUMBER 100.73.900

SGS Reference:

PAGE 3 OF ____

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used: HCl	Analysis Required (3): Suspended Sediment - TOC; Suspended Sediment - PAH	REMARKS
	T11A-02(06)	11/16/05	1800	Filter	1	C	X	X	Call BBL w/tare before extraction
	(07)	↓	↓	↓	1	C	X	X	
	(08)				1	C	X	X	
	(09)				1	C	X	X	
	A28-03(01)	11/16/05	2030	Filter	1	C	X	X	
	(02)				1	C	X	X	
	(03)				1	C	X	X	
	(04)				1	C	X	X	
	NL/NK-03(01)	11/16/05	2030	Filter	1	C	X	X	
	" (02)	11/16/05	2030	↓	1	C	X	X	

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11/17/05	[illegible]	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier: Samples Received Cold? (Circle) YES NO

Shipping Ticket No: Temperature °C: ____ • ____

Special Deliverable Requirements: Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

Standard Turnaround Time

200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab
Yellow - Returned with Report

SGS

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
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- Maryland
- Hawaii
- West Virginia
- New Jersey

www.us.sgs.com

046110

(1)

CLIENT: BBL, Inc.

CONTACT: Chris Torell PHONE NO: (315) 446-9120

PROJECT: High Flow Sampling SITE/PWSID#: GE Loeffel

REPORTS TO: Chris Torell FAX NO.: (315) 445-9161

INVOICE TO: Chris Torell QUOTE # P.O. NUMBER 100.73.900

SGS Reference:

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(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used	Analysis Required (3): Suspected Sediment - TOC	Analysis Required (3): Suspected Sediment - PCB	REMARKS
	NL/NK-03 (03)	11/16/05	2030	Filter	1	C		X	X	
	(04)				1	C		X	X	Call BBL w/ tare before extraction
	(05)				1	C		X	X	
	(06)				1	C		X	X	
	(07)				1	C		X	X	
	(08)				1	C		X	X	
	(09)				1	C		X	X	
	(10)				1	C		X	X	
	T11A-03 (01)	11/16/05	1950	Filter	1	C		X	X	
	T11A-03 (02)	11/16/05	1950	Filter	1	C		X	X	

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
	11/17/05	1400	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C: _____ . _____

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

Standard Turnaround Time

SGS

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SGS Environmental Services Inc.

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- Hawaii
- West Virginia
- New Jersey

www.us.sgs.com

047063

(1)

CLIENT: B&L, Inc.

CONTACT: Chris Tarell PHONE NO:(315) 446-9120

PROJECT: HighFlow Sampling SITE/PWSID#: GE Loeffel

REPORTS TO: Chris Tarell FAX NO.:(315) 445-9161

INVOICE TO: Chris Tarell QUOTE # P.O. NUMBER 100.73

SGS Reference:

PAGE 5 OF _____

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used											REMARKS
							Analysis Required (3)	Suspended Sediment - TOC	Suspended Sediment - PCB									
	T11A-03 (03)	11/16/05	1950	Filter	1	C	X	X										
	T11A-03 (04)	11/16/05	1950	Filter	1	C	X	X										
	T11A-04 (01)	11/17/05	750	Filter	1	C	X	X										Call BBL w/ tare before extraction
	FEB-01	11/17/05	—	Water	1	G												
	NL/UK-04-(01)	11/17/05	1400	Filter	1	C	X	X										
	NL/UK-04-(02)	11/17/05	1400	Filter	1	C	X	X										
	A28-04	11/17/05	1410	Filter	1	C	X	X										
	A28-04 MS	11/17/05	1410	Filter	1	C	X	X										
	A28-04 MSD	11/17/05	1410	Filter	1	C	X	X										
	ΔUP-01	11/17/05	—	Filter	1	C	X	X										

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11/17/05	1400	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:	Samples Received Cold? (Circle) YES NO
Shipping Ticket No:	Temperature °C: _____ . _____
Special Deliverable Requirements:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

Standard TurnAround Time

BBL®

BLASLAND, BOUCK & LEE, INC.

engineers, scientists, economists