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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	.	2004_SW_and_SS_and_2004_Biota	
(report)	.	hw442006.003_2004-10-19_BBL_1_Post_Remedial_Monitoring_and_Long_Term_Monitoring_Plan_Environs	
rod	.		
siteplan	.		
spcc	.		
stip	.		
var	.		
video	.		
workplan	.		

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Transmitted Via Hand Delivery

October 19, 2004

James N. Ludlam, P.E.
NYSDEC
Department of Environmental Remediation
625 Broadway
12th Floor
Albany, NY 12233-7016

Re: Post-Remedial Monitoring & Long-Term Monitoring Plan
Operable Unit 3, Loeffel Site Environs
Nassau, New York
2004 Surface Water and Suspended Sediment Monitoring
2004 Biota Sampling
Proposed 2005 Monitoring
BBL Project #: 10073.900

Dear Jim:

On behalf of the General Electric Company (GE), this letter provides the following:

1) Results from 2004 surface water and suspended sediment (SW/SS) monitoring;
2) A discussion of New York State Department of Environmental Conservation (NYSDEC) 2004 biota samples; and
3) GE's plans for 2005 long-term monitoring activities.

Surface Water and Suspended Sediment Sampling

Background

This report compiles data previously collected during the RI effort and more recently collected RA-related data. The RI data were first presented in the April 1995 Phase I Report and the pre-2004 RA-related data was originally presented in GE's April 29, 2004 letter report (Attachment A).

From 1992 through 2003, 15 sampling events were conducted at Operable Unit 3 (OU-3; Figure 1) by Blasland, Bouck & Lee, Inc. (BBL) to support the Remedial Investigation (RI) and Remedial Actions (RAs). Ten of these events were conducted during the RI and the remaining five events were conducted in association with the RAs. Sampling was conducted under a variety of flow conditions (i.e., base-flow, high-flow, snow melt), and, collectively, generated over 200 SW samples from 21 locations and more than 30 SS samples from six locations.

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2004 Surface Water and Suspended Sediment Sampling

Two SW/SS sampling events were conducted in 2004: a base-flow event on August 4, 2004 and a high-flow event on August 30 and 31, 2004[1]. SW/SS samples were collected in the mouth of T11A at the Valatie Kill, upstream, within, and downstream of the Area 28 reach of the Valatie Kill and in the mouth of the Valatie Kill inlet at Nassau Lake (Figures 2 through 5). The SW sampling at the three Area 28 locations during base-flow and the high-flow event fulfilled two purposes. It satisfied the requirement for post-construction sampling at Area 28, required by the Area 28 Protocol, and it served as part of the 2004 post-remedial long-term monitoring.

The 2004 SW/SS sampling activities were conducted pursuant to:

- The NYSDEC-approved February 18, 2003 letter from GE to NYSDEC titled, "Revised Schedule, Pre- and Post-Construction Surface Sampling Protocol and Conceptual Access Road and Staging Area" (Attachment B);
- The portion of NYSDEC's Long-Term Monitoring Plan (LTMP) approval letter regarding SW/SS sampling, dated March 30, 2004 (Attachment C); and
- GE's April 30, 2004 response letter to NYSDEC's March 30, 2004 letter (Attachment D).

Methods

SW/SS sampling methods were consistent with the 2004 LTMP, Area 28 Protocol, and 1994 RI Work Plan. Specifically, SW/SS grab samples were collected at midstream/mid-depth using pre-cleaned laboratory containers. For SS samples, five one-gallon bottles (approximately 19 liters total) were filled per location, similar to the methods followed for the RI.

To obtain SS samples, the water was pumped with nitrogen assistance through a stainless steel 142-millimeter (mm) pressure filter holder containing a pre-weighed 0.7-micron pore glass fiber filter. The amount of water filtered and the number of filters used varied due to total suspended solids concentrations.

SW samples were submitted to Adirondack Environmental Services, Inc. (AES) of Albany, New York for PCB, TOC[2], and TSS analyses and to Northeast Analytical, Inc. (NEA) of Schenectady, New York for chlorophyll-a analysis. The SS samples were submitted to AES for PCB analysis. The chain-of-custody records are presented in Attachment E.

SW duplicate samples were taken at the mouth of the Valatie Kill inlet at Nassau Lake, but due to insufficient SS volume, no duplicate SS analysis was conducted. The 2004 analytical data were validated by BBL, and the data validation report is presented in Attachment F. The data are discussed below, and are presented in tables.

[1] In addition to the two sampling events, SW samples were collected in the mouth of T11A on August 8, 2003 and June 30, 2004.

[2] Insufficient SS volume during collection of all samples prevented both TOC and PCB analyses from being conducted. Since PCBs are the constituent of concern, unfiltered TOC analysis was run on corresponding SW samples, so that all SS sample volumes remained available for PCB analysis.

Assessment of Flow Conditions

To ensure initiation of sampling activities during the appropriate stage conditions, flow data was collected from the Valatie Kill at Area 28 and the headwaters of T11A, as described below.

Base-flow conditions were assessed by observing flow rates at the United States Geological Survey (USGS) gaging station on the Valatie Kill and the stream stage on the gage at the headwaters of T11A (installed June 30, 2004). The observed flow during sampling at the USGS gage was 3.1 cubic feet per second (cfs), which was below August's mean flow (5.7 cfs) for the years of 1991 through 2003 (Figure 6). The T11A gage indicated a stream height of 0.32 feet (ft), as discussed in Attachment G, the flow at T11A was estimated to be 0.34 cfs during base-flow sampling.

Flow conditions for the high-flow event were evaluated using the same approach as the base-flow event, further described in Attachment G. Using the stream stage readings from the T11A gage as an approximate stream condition indicator, it was determined that the rising limb of the hydrograph had already passed by the time the field crew arrived on-site, despite rapid efforts to mobilize at the onset of the high-flow event. However, a significant increase in flow had occurred relative to the event and the peak and falling limbs of the event were captured. The observed flows at Area 28 for the peak and falling limb were 6.5 and 5.1 cfs; and the interpolated flows at T11A were 0.69 and 0.55, respectively (Attachment G). The base-flow prior to the Area 28 event was measured to be 2.2 cfs. The T11A base-flow was calculated to have been 0.24 cfs.

Analytical Results

Base-Flow Event

During the base-flow event, five SW and five SS samples were collected and analyzed (not including QA/QC samples).

The reported PCB concentration for the T11A SW sample was 0.08 micrograms per liter (µg/L) (Tables 1 and 2) while the SW samples from Area 28 and the Valatie Kill inlet at Nassau Lake all had reported PCB concentrations reported below the 0.014 µg/L practical quantitation limit (PQL) (Tables 5, 6, 9, 10, and 14).

The SS samples from T11A and the Valatie Kill inlet at Nassau Lake had reported PCB concentrations of 52 and 2.1 milligrams per kilogram (mg/kg), respectively (Tables 4 and 12, respectively), and Area 28 samples had a PCB concentration range of 2.3 to 4.2 mg/kg (Table 8).

High-Flow Event

A total of ten SW and ten SS samples (5 SW/SS samples during peak flow and 5 SW/SS samples during falling limb) were collected during the high-flow event and analyzed (not including QA/QC samples).

The Area 28 and the Valatie Kill inlet at Nassau Lake SW samples all had reported PCB concentrations below the 0.014 µg/L PQL during both flow stages), except for the Area 28 midstream sample under the falling limb condition (Tables 5, 7, 11, and 14). The SW samples from T11A had PCB concentrations of 0.29 and 0.10 µg/L for the peak and falling limb stages, respectively (Tables 1, 3, and 4).

Of the ten SS samples collected, four required multiple filters (Sample ID: T11A-DS-02, A28-US-02, VK/NL-DS-02, and 03) to obtain sufficient SS sample volume. All filters were extracted individually by the laboratory prior to analysis. To be consistent with laboratory sample preparation methods used during the RI (i.e., multiple filters combined for extraction prior to analysis), it is reasonable to use a mass weight calculation to interpret the 2004 results. For the T11A-DS-02 sample, this mass-weighting calculation yielded a result of 6 mg/kg (Table 13), as two filters were required for this sample collection. The falling limb stage sample from T11A had a reported result of 77 mg/kg (Table 4).

The mid- and downstream SS PCB concentrations at Area 28 were 1.8 mg/kg during peak flow. The upstream sample requiring two filters and its mass weighted result is 1.8 mg/kg (individual results of 1.7 and 1.9 mg/kg; Tables 8 and 13). During the falling limb stage, the PCB concentrations were 5.0, 2.7, and 2.6 mg/kg for the up, mid- and downstream samples, respectively (Table 8).

Both SS samples at the Valatie Kill inlet at Nassau Lake location required multiple filters and the results were consequently mass-weighted. The calculated peak flow stage PCB concentration was 1.7 mg/kg and the falling limb stage calculation yielded PCB concentration of 1.9 mg/kg (Tables 12 and 13).

2005 SW/SS Monitoring Scope

Additional SW/SS monitoring is proposed for 2005, 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, one high-flow, and one snow-melt 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 snow-melt and high-flow events, 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 each event (18 total samples, not including QA/QC samples).

The 2005 SS/SW sampling will be conducted in general accordance with the methods presented in:

- Area 28 Sampling Protocol;
- The LTMP; and
- 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 2005 SW samples will be analyzed for:

- Laboratory Analyses:
  - Unfiltered PCB Aroclors;
  - Chlorophyll *a*;

- Field Analyses:
  - pH
  - Temperature;
  - Specific conductivity;
  - Dissolved oxygen (DO) ;
  - Turbidity;
  - Oxidation reduction potential (ORP);
  - Total dissolved solids (TDS); and
  - Approximate flow rate.

All 2005 SS samples will be analyzed for:

- Filtered solids including PCB Aroclors and Total Organic Carbon (TOC), (if sufficient SS volume is obtained[3], laboratory).

The 2005 SW/SS data set will be validated for inclusion in ongoing trend analyses. The results of the 2005 SW/SS sampling will be used to refine the scope future SW/SS sampling efforts, as warranted.

2004 Biota Sampling

During June and July 2004, NYSDEC collected (with GE's assistance) a total of 217 biota samples from locations in the OU-3 drainage way, including T11A, the Valatie Kill, and Nassau Lake. A summary of the biota samples is presented in the attached table (Table 15). The biota samples are currently stored frozen at NYSDEC's Hale Creek Field Station. It is GE's understanding that NYSDEC is in the process of procuring funds to send the samples to EnChem Laboratories Inc. (EnChem) in Green Bay, Wisconsin for PCB analysis.

GE has evaluated the 2004 sample set to identify which samples best meet the objectives of the LTMP (i.e., monitoring the rate of decline in fish PCB levels and/or evaluating fish consumption advisories). Based on this evaluation, 76 of the 217 samples are consistent with the samples originally proposed in the LTMP (BBL, 2002), a total of 159 samples (or 73% of samples) are considered to be useful. The remaining 58 samples are considered by GE to have little value for meeting the objectives of the LTMP because they are from species that have not previously been sampled frequently and/or samples that were collected from areas that are not part of the LTMP scope (e.g., T11A).

As such, GE proposes to cover the cost of analysis for 159 of the 217 samples. These samples are identified in Table 15. GE will coordinate with NYSDEC for sample preparation and shipment of the samples to EnChem. It is anticipated that this laboratory will be used for all biota sample analysis during the OU-3 long-term monitoring.

2005 Biota Sampling

GE proposes to conduct or assist NYSDEC in the 2005 sampling effort for the Site. The objectives of the biota sampling will be consistent with the objectives stated in the ROD, including the determination of PCB trends in fish and reevaluation of the consumption advisory. In general, the scope of the biota sampling proposed for 2005 expands significantly upon the scope presented in the LTMP and includes

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

most of the sample locations, target species, and sample numbers that were proposed in the NYSDEC (2004) fish sampling program.

The proposed biota sampling will be conducted at the following locations:

- Valatie Kill upstream of T11A (China Hill Road);
- Valatie Kill below confluence with T11A;
- Valatie Kill upstream of Area 28 (Central Nassau Road);
- Valatie Kill within Area 28;
- Valatie Kill downstream of Area 28;
- The northeastern portion of Nassau Lake; and
- Valatie Kill below Nassau Lake (above County Route 7).

These sampling locations are generally consistent with the locations used in the most recent NYSDEC biota sampling.

Consistent with previous NYSDEC sampling events, the 2005 biota sampling event will target both edible-size fish and forage fish. In addition, young-of-year (YOY) fish will also be collected from Nassau Lake. YOY fish have historically been collected (1994 and 1996) and may provide additional data that will be useful for determining trends in PCB bioavailability.

The target number of samples will include the following:

- Valatie Kill locations - five samples from each of two species of forage fish and five samples from each of two edible-size fish (a total of 20 samples per location). (Note: The specific target species will be identified by GE in the field, and will depend on historic target species and annual availability).
- Nassau Lake – 15 samples of edible-size fish from each of four species (largemouth bass, yellow perch, brown bullhead, and pumpkinseed). In addition, five samples of YOY fish from each of two species (largemouth bass and yellow perch).

Collectively, the proposed Valatie Kill and Nassau Lake samples add up to a total of 190 samples (not including MS/MSD samples). The samples will consist of standard fillets for edible-size fish and whole body for forage and YOY fish. The biota sampling will take place in the late spring/early summer for adult fish and in the fall for YOY fish. GE will coordinate with NYSDEC for oversight of the biota sampling events. The samples will be analyzed by EnChem for PCB Aroclors and lipid content.

It is important to note that the 2005 sampling scope may be adjusted (as appropriate) based on the data obtained from analysis of the aforementioned 2004 biota samples. Additionally, the scope for future sampling (beyond 2005) may be similarly adjusted.

Future Activities

As discussed above, both SW/SS and biota sampling will be conducted in 2005 to further assess PCB concentration trends in these medias over time. The results of the 2005 sampling will be used to refine future sampling scopes for these media.

In the interim, GE will expeditiously process and submit for analyses at EnChem the 159 of 217 2004 biota samples discussed above. GE requests NYSDEC's assistance in facilitating this process:

- coordinating for sample transfer to GE for processing;
- providing sampling activities logs and other field data; and
- providing input as prudent regarding the processing and analysis tasks.

In summary, the proposed future long-term monitoring general schedule is presented on Figure 7. The schedule proposed above may be modified, with GE and NYSDEC agreement, based on field conditions, weather or other unforeseen factors.

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

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Mark P. Brown, Ph.D
Senior Vice President

CRT/mad

cc: Michael Komoroske, P.E., NYSDEC
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Tables

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TABLE 1
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Tributary T11A, Downstream

Surface Water Sampling and Water Quality Parameters

Date	Time	Sample Location	Sample ID	Total PCB (µg/L)	TOC (mg/L)	TSS (mg/L)	Chlorophyll - a (corrected) (mg/L)	Water Quality Measurements							Flow (cfs)	GPS (Lat-Long) #	Comments
								pH	Turbidity (NTU)	Temp (°C)	DO (mg/L)	Specific Conductivity (mS/cm)	ORP (mV)	TDS (g/L)			
10/16/2002	7:25 AM	DS	BASE-DS	ND (0.065)	a	a	a	a	a	a	a	a	a	a	NA	NA	Base-Flow
10/16/2002	2:30 PM	DS	PEAK-DS-2	0.24	a	a	a	a	a	a	a	a	a	a	0.20	NA	Rising Limb
10/16/2002	10:35 PM	DS	PEAK-DS-5	0.40	a	a	a	a	a	a	a	a	a	a	3.7	NA	Peak Flow
10/16/2002	11:45 PM	DS	FALLING-DS-2	0.39	a	a	a	a	a	a	a	a	a	a	2.5	NA	Falling Limb
6/12/2003	5:20 PM	DS	DS-T11A	0.14	a	a	a	7.3	42	16	10	0.11	NA	NA	NA	NA	Base-Flow
8/8/2003*	12:05 AM	DS	T11A DS-1	0.16	a	a	a	7.7	225 b	19	9.8	0.09	170	0.06	NA	NA	Base-Flow
8/11/2003	6:35 PM	DS	T11A DS-2	a	a	a	a	7.8	47	20	9.5	0.11	230	0.07	NA	NA	Base-Flow
8/11/2003	9:20 PM	DS	T11A DS-3	a	a	a	a	7.8	16	20	9.5	0.11	200	0.07	NA	NA	Base-Flow
8/22/2003	3:00 PM	DS	T11A DS-1	0.73	a	a	a	7.3	45	19	9.3	0.10	230	NA	0.55	NA	Rising Limb
8/22/2003	3:30 PM	DS	T11A DS-2	1.9 [1.6]	a	a	a	7.3	33	19	11	0.11	210	NA	0.53	NA	Peak Flow
8/22/2003	6:00 PM	DS	T11A DS-3	0.15	a	a	a	7.3	5	21	11	0.16	230	NA	0.20	NA	Falling Limb
6/30/2004*	3:30 PM	DS	T11A-DS-BASE	0.094	a	2.0	a	7.2	492 b	15	11	0.14	90	0.09	NA	NA	Base-Flow
8/4/2004	6:50 PM	DS	T11A-D-01	0.080	1.2	1.0	< 0.1	7.5	78	15	7.5	0.00	-120	0.07	0.34 c	NA	Base-Flow
8/30/2004	11:10 PM	DS	T11A-DS-02	0.29	5.0	13.0	0.8	b	25	19	9.4	0.16	210	NA	0.65 c	N 42° 33' 48.5" W 73° 34' 12.3"	Peak Flow
8/31/2004	10:39 AM	DS	T11A-DS-03	0.10	2.3	1.0	0.1	6.02	0.30	16	10	0.15	200	NA	0.45 c	N 42° 33' 48.5" W 73° 34' 12.3"	Falling Limb

1. Sample Location: DS = Downstream in T11A at approximately three feet upstream of confluence with Valatie Kill. See Figure 2 for sample location.
2. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, NY. Chlorophyll-a samples were analyzed by Northeast Analytical, Inc. in Schenectady, New York. Chlorophyll-a corrected: analysis has removed the pheophytin pigment by acid extraction. All other samples were analyzed by Adirondack Environmental Services, Inc. in Albany, New York. Analytical data from 2004 were validated by BBL. (Attachment F).
3. PCB = polychlorinated biphenyls; TOC = total organic carbon; TSS = total suspended solids; Temp = temperature; DO = dissolved oxygen; ORP = oxidation-reduction potential; TDS = total dissolved solids; GPS = global positioning system; Lat = latitude; Long = longitude; 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.
4. # GPS accuracy (+/-) 9 - 49 ft.
5. 1.9 [1.6] = The associated value in parenthesis is a blind duplicate.
6. NA = Not available.
7. a Sample was not analyzed.
8. b Meter malfunction.
9. c flows calculated per Attachment G.
10. Values have been rounded to two significant figures.

* Sample collected for informational purposes.

Table 2
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

T11A, Downstream, Base-Flow

Surface Water Sampling

Location	Date	Sample ID	Flow Condition	Condition	Total PCB Result (µg/L)
Valatie Kill at Mead Road (DS)	10/14/1992	SWN005S	Base	Pre-Construction	ND (0.090)
DS	5/12/1993	SWN005S	Base	Pre-Construction	ND (0.090)
DS	8/30/1993	SWN005S	Base	Pre-Construction	ND (0.090)
DS	11/2/1993	SWN005S	Base	Pre-Construction	ND (0.090)
DS	11/2/1993	SWN005SF	Base	Pre-Construction	ND (0.090)
DS	12/28/1993	SWN005S	Base	Pre-Construction	ND (0.090)
MEAD ROAD POND IRM COMPLETED (2001)					
DS	10/16/2002	BASE-DS	Base	Pre-Construction	0.060 J
T11A RA COMPLETED (2002/2003)					
DS	6/12/2003	DS-T11A	Base	Post-Construction	0.14
DS	8/8/2003*	T11A DS-1	Base	Post-Construction	0.16
DS	6/30/2004*	T11A-DS-Base	Base	Post-Construction	0.09
DS	8/4/2004	T11A-D-01	Base	Post-Construction	0.08
DS	2005 (Long-Term Monitoring)	TBD	Base	Post-Construction	TBD
DS	2006 (Long-Term Monitoring)	TBD	Base	Post-Construction	TBD
DS	2007 (Long-Term Monitoring)	TBD	Base	Post-Construction	TBD

1. 1992 and 1993 samples were collected at Valatie Kill and Mead Road, downstream of T11A or inlet of T11A to Valatie Kill.
2. 2002 and later samples were collected downstream in T11A at approximately three feet upstream of confluence with Valatie Kill (DS). See Figure 2 for sample location.
3. Total PCB Samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, NY and analyzed by Aquatec, Inc., Colchester, VT (1992, 1993, and 1994) and Adirondack Environmental Services, Inc. (AES), Albany, NY (2002-2004). Analytical data from 2004 were validated by BBL (Attachment F).
4. µg/L = micrograms per liter.
5. ND (0.090) = The compound was analyzed for but not detected. The associated numerical value in parenthesis is the practical quantitation limit (PQL) for PCB Aroclors.
6. The samples with an "F" at the end of the identification number are filtered analyses. All other samples are unfiltered.
7. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
8. * Sample collected for informational purposes.
9. TBD = To be determined.
10. Values have been rounded to two significant figures.

Table 3
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

T11A, Downstream, High-Flow

Surface Water Sampling

Location	Date	Sample ID	Flow Condition	Condition	Total PCB Result (µg/L)
Valatie Kill at Mead Road (DS)	3/29/1993	SWN005S (SWN523S)	High	Pre-Construction	ND (0.090) [ND (0.090)]
DS	3/29/1993	SWN005SF (SWN523SF)	High	Pre-Construction	ND (0.090) [ND (0.090)]
DS	4/26/1993	SWN005S (SW523S)	High	Pre-Construction	ND (0.090) [ND (0.090)]
DS	4/26/1993	SWN005SF (SW523SF)	High	Pre-Construction	ND (0.090) [ND (0.090)]
DS	6/15/1993	SWN005AS	Rising	Pre-Construction	0.022 J
DS	6/16/1993	SWN005BS (SW526S)	Peak	Pre-Construction	0.025 J [0.023 J]
DS	6/16/1993	SWN005CS	Falling	Pre-Construction	ND (0.090)
DS	11/17/1993	SWN005AS	Rising	Pre-Construction	0.037 J
DS	11/18/1993	SWN005BS	Peak	Pre-Construction	0.027 J
DS	11/18/1993	SWN005CS	Falling	Pre-Construction	ND (0.090)
MEAD ROAD POND IRM COMPLETED (2001)					
DS	10/16/2002	PEAK-DS-2	Rising	Pre-Construction	0.22
DS	10/16/2002	PEAK-DS-5	Peak	Pre-Construction	0.37
DS	10/16/2002	FALLING-DS-2	Falling	Pre-Construction	0.36
T11A RA COMPLETED (2002/2003)					
DS	8/22/2003	T11A DS-1	Rising	Post-Construction	0.73
DS	8/22/2003	T11A DS-2	Peak	Post-Construction	1.9 [1.6]
DS	8/22/2003	T11A DS-3	Falling	Post-Construction	0.15
DS	8/30/2004	T11A-DS-02	Peak	Post-Construction	0.29
DS	8/31/2004	T11A-DS-03	Falling	Post-Construction	0.10
DS	2005 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	TBD
DS	2006 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	TBD
DS	2007 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	TBD

1. 1992 and 1993 samples were collected at Valatie Kill and Mead Road, downstream of T11A or inlet of T11A to Valatie Kill.
2. 2002 and later samples were collected downstream in T11A at approximately three feet upstream of confluence with Valatie Kill (DS). See Figure 2 for sample location.
3. Total PCB Samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, NY and analyzed by Aquatec, Inc., Colchester, VT (1992, 1993, and 1994) and Adirondack Environmental Services, Inc. (AES), Albany, NY (2002-2004). Analytical data from 2004 were validated by BBL (Attachment F).
4. µg/L = micrograms per liter.
5. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
6. ND (0.090) = The compound was analyzed for but not detected. The associated numerical value in parenthesis is the practical quantitation limit (PQL) for PCB Aroclors.
7. The samples with an "F" at the end of the identification number are filtered analyses. All other samples are unfiltered.
8. 0.025 J [0.023 J] = The associated value in parenthesis is a blind duplicate.
9. TBD = To be determined.
10. Values have been rounded to two significant figures.

TABLE 4
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Tributary T11A, Downstream

Filtered Suspended Sediments

Location	Date	Sample ID	Flow Condition	Condition	Filtered Volume (L)	Sample Mass (g)	Total PCB Result (mg/kg)
T11A Above Valatie Kill (DS)	3/30/1994	SWN004	High	Pre-Construction	120	10	8.7 J
DS	12/5/1994	SWN004-1	Base	Pre-Construction	1.2	0.21	5.0
DS	12/5/1994	SWN004-2	Base	Pre-Construction	1.7	0.14	3.5
DS	12/6/1994	SWN004-3	Base	Pre-Construction	2.2	0.13	5.8
MEAD ROAD POND IRM AND T11A RA COMPLETED 2001 AND 2002/2003							
DS	8/4/2004	T11A-D-01-A	Base	Post-Construction	19	9.1	52
DS	8/30/2004	T11A-D-02-A	Peak	Post-Construction	19	23	6.0*
DS	8/30/2004	T11A-D-02-B	Peak	Post-Construction			
DS	8/31/2004	T11A-D-03-A	Falling	Post-Construction	19	6.6	77
DS	2005 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD
DS	2006 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD
DS	2007 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD

1. 1994 samples were collected at Valatie Kill and Mead Road, downstream of T11A or inlet of T11A to Valatie Kill.
2. 2004 samples were collected downstream in T11A at approximately three feet upstream of confluence with Valatie Kill (DS). See Figure 2 for sample location.
3. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York, and analyzed by Aquatec, Inc., Colchester, VT (1994) and Adirondack Environmental Services, Inc. (AES), Albany, NY (2004). Analytical data from 2004 were validated by BBL (Attachment F).
4. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
5.* Sample consisted of two filters; mass weighted average PCB result is presented. Mass Weighted Average PCB = [([PCB]1 * Mass1) + ([PCB]2 * Mass2)] / Total Mass (See Table 13).
6. TBD = To be determined.
7. Values have been rounded to two significant figures.

TABLE 5
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Area 28

Surface Water Sampling Results and Water Quality Parameters

Date	Time	Sample Location[1]	Sample ID	Total PCB (µg/L)	TOC (mg/L)	TSS (mg/L)	Chlorophyll-a (corrected)[11] (µg/l)	Water Quality Measurements: pH	Turbidity (NTU)	Temp (°C)	DO (mg/L)	Specific Conductivity (mS/cm)	ORP (mV)	TDS (g/L)	Flow (cfs)[10]	GPS (Lat, Long) #[4]	Comments
6/12/2003	4:55 PM	US	US-Area 28	ND (0.065)	a	a	a	6.7	11	18	9.4	0.16	NA	NA	8.9	NA	Base-Flow
6/12/2003	4:45 PM	MS	MS-Area 28	ND (0.065)	a	a	a	6.9	12	18	9.1	0.16	NA	NA	8.9	NA	Base-Flow
6/12/2003	4:35 PM	DS	DS-Area 28	ND (0.065)	a	a	a	6.9	89	18	9.4	0.16	NA	NA	8.9	NA	Base-Flow
8/11/2003	8:51 PM	US	A28 US-2	0.032 J	a	a	a	7.5	6.9	22	8.5	0.14	160	0.09	18 b	NA	Rising Limb
8/11/2003	8:40 PM	MS	A28 MS-2	0.040 J	a	a	a	7.5	7.8	22	8.4	0.14	160	0.09	18	NA	Rising Limb
8/11/2003	8:30 PM	DS	A28 DS-2	0.023 J	a	a	a	7.6	7.3	22	8.4	0.14	190	0.09	18 b	NA	Rising Limb
8/11/2003	10:27 PM	US	A28 US-3	a	a	a	a	7.6	7.4	22	8.3	0.14	110	0.09	19 b	NA	Rising Limb
8/11/2003	10:17 PM	MS	A28 MS-3	a	a	a	a	7.5	7.4	22	8.6	0.14	150	0.09	20	NA	Rising Limb
8/11/2003	10:12 PM	DS	A28 DS-3	a	a	a	a	7.5	7.0	22	8.5	0.14	180	0.09	19 b	NA	Rising Limb
8/12/2003	1:43 AM	US	A28 US-4	a	a	a	a	7.5	7.5	22	8.5	0.14	140	0.09	19 b	NA	First Peak
8/12/2003	1:22 AM	DS	A28 DS-4	a	a	a	a	7.5	8.2	22	8.3	0.14	110	0.15	19 b	NA	First Peak
8/12/2003	2:41 PM	US	A28 US-5	0.064 J	a	a	a	c							60 b	NA	First Peak
8/12/2003	2:30 PM	MS	A28 MS-5	0.060 J	c	c	c	c							67	NA	First Peak
8/12/2003	1:38 PM	DS	A28 DS-5	0.061 J	a	a	a	c							63 b	NA	First Peak
8/12/2003	4:31 PM	US	A28 US-6	a	a	a	a	c							57 b	NA	Second Peak/Falling Limb
8/12/2003	4:23 PM	MS	A28 MS-6	a	a	a	a	c							63	NA	Second Peak/Falling Limb
8/12/2003	4:16 PM	DS	A28 DS-6	a	a	a	a	c							57 b	NA	Second Peak/Falling Limb
8/13/2003	7:50 AM	US	A28 US-7	0.025 J	a	a	a	c							77 b	NA	Second Peak/Falling Limb
8/13/2003	7:40 AM	MS	A28 MS-7	0.059 J	a	a	a	c							86	NA	Second Peak/Falling Limb
8/13/2003	7:30 AM	DS	A28 DS-7	0.030 J [0.024 J]	a	a	a	c							78 b	NA	Second Peak/Falling Limb
8/13/2003	5:00 PM	US	A28 US-8	a	a	a	a	c							57 b	NA	Falling Limb
8/13/2003	4:50 PM	MS	A28 MS-8	a	a	a	a	c							62	NA	Falling Limb
8/13/2003	4:45 PM	DS	A28 DS-8	a	a	a	a	c							57 b	NA	Falling Limb
8/4/2004	9:12 PM	US	A28-U-01	0.010 J	4.8	4.0	0.6	6.0	82	21	9.4	0.22	NA	NA	3.1	NA	Base-Flow
8/4/2004	8:34 PM	MS	A28-M-01	0.011 J	5.1	4.0	0.6	7.8	11	21	9.2	0.17	10	0.11	3.1	NA	Base-Flow
8/4/2004	8:15 PM	DS	A28-D-01	0.013 J	4.7	3.0	1.2	7.9	19	21	8.6	0.17	-4.0	0.11	3.1	NA	Base-Flow
8/31/2004	1:55 AM	US	A28-US-02	0.010 J	4.1	3.0	0.4	5.3	1.9	21	8.1	0.18	230	NA	5.5	N 42° 33' 8.2" W 73° 35' 22.3"	Peak Flow
8/31/2004	1:58 AM	MS	A28-MS-02	0.011 J	4.3	7.0	0.3	6.0	7.8	21	7.7	0.19	190	NA	5.5	N 42° 33' 4.4" W 73° 35' 32.5"	Peak Flow
8/31/2004	1:06 AM	DS	A28-DS-02	0.011 J	3.9	9.0	2.5	6.0	9.9	21	7.8	0.19	200	NA	5.3	N 42° 33' 2.6" W 73° 35' 35"	Peak Flow
8/31/2004	12:26 PM	US	A28-US-03	0.011 J	3.9	1.5	0.7	5.2	c	21	8.3	0.2	190	NA	4.9	N 42° 33' 8.2" W 73° 35' 22.3"	Falling Limb
8/31/2004	12:06 PM	MS	A28-MS-03	0.018 J	5.1	1.5	0.8	6.1	2.5	21	8.3	0.21	200	NA	4.7	N 42° 33' 4.4" W 73° 35' 32.5"	Falling Limb
8/31/2004	11:51 AM	DS	A28-DS-03	0.010 J	4.7	3.0	0.8	6.2	2.8	21	8.7	0.21	190	NA	4.9	N 42° 33' 2.6" W 73° 35' 35"	Falling Limb

1. Sample Locations: US = Upstream of Area 28 (A28) at approximately center stream across from the USGS staff gage; DS = Downstream boundary of Area 28; MS = approximately 10 feet downstream of gravel bar (2003) and just upstream of transverse bar (2004). See Figures 3 and 4 for sampling locations.

2. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York. Chlorophyll-a samples were analyzed by Northeast Analytical, Inc. in Schenectady, New York. Chlorophyll-a corrected: analysis has removed the pheophytin pigment by acid extraction. All other samples were analyzed by Adirondack Environmental Services, Inc. in Albany, New York. Analytical data from 2003-2004 were validated by BBL (Attachment F).

3. PCB = polychlorinated biphenyls; TOC = total organic carbon; TSS = total suspended solids; Temp = temperature; DO = dissolved oxygen; ORP = oxidation-reduction potential; TDS = total dissolved solids; GPS = global positioning system; Lat = latitude; Long = longitude; 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.

4. # GPS accuracy (+/-) 9 - 49 ft.

5. NA = Not available.

6. ND (0.065) = The compound was analyzed for but not detected. The associated numerical value in parenthesis is the practical quantitation limit (PQL) for PCB Aroclors.

7. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

8. 0.030 J [0.024 J] = The associated value in parenthesis is a blind duplicate.

9. a Sample was not analyzed.

10. b Flow measured at USGS gaging station during sampling. All other came from the USGS telemetry database..

11. c Meter malfunction.

12. Values have been rounded to two significant figures.

Table 6
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Area 28, Base-Flow

Surface Water Sampling

Location	Date	Sample ID	Flow Condition	Condition	Total PCB Result (µg/L)		
					US	MS	DS
Area 28 Outlet (DS)	10/14/1992	SWT017S	Base	Pre-Construction	a	a	ND (0.090)
DS	5/12/1993	SWT017S	Base	Pre-Construction	a	a	ND (0.090)
Upstream at USGS gage (US), Downstream at Gravel Bar (MS), DS	6/12/2003	US-Area 28, MS-Area 28, DS-Area 28	Base	Pre-Construction	ND (0.065)	ND (0.065)	ND (0.065)
AREA 28 RA COMPLETED (2003)							
US, MS, and DS	8/4/2004	A28-U-01, A28-M-01, A28-D-01	Base	Post-Construction	0.010 J	0.011 J	0.013 J
DS	2005 (Long-Term Monitoring)	TBD	Base	Post-Construction	b	b	TBD
DS	2006 (Long-Term Monitoring)	TBD	Base	Post-Construction	b	b	TBD
DS	2007 (Long-Term Monitoring)	TBD	Base	Post-Construction	b	b	TBD

1. Sample Locations: US = Upstream of Area 28 (A28) at approximately center stream across from the USGS staff gage; DS = Downstream boundary of Area 28; MS = approximately 10 feet downstream of gravel bar (2003) and just upstream of transverse bar (2004). See Figures 4 and 5 for sampling locations.
2. Samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York, and analyzed by Aquatec, Inc., Colchester, VT (1992, 1993, and 1994) and Adirondack Environmental Services, Inc. (AES), Albany, NY (2002, 2003, and 2004). Analytical data from 2004 were validated by BBL (Attachment F).
3. µg/L = micrograms per liter.
4. a Sample was not analyzed.
5. b Not in scope.
6. ND (0.065) = The compound was analyzed for but not detected. The associated numerical value in parenthesis is the practical quantitation limit (PQL) for PCB Aroclors.
7. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
8. TBD = To be determined.

Table 7
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Area 28, High-Flow

Surface Water Sampling

Location	Date	Sample ID	Flow Condition	Condition	Total PCB Result (µg/L)		
					US	MS	DS
Upstream at USGS gage (US), Downstream at Gravel Bar (MS), Area 28 Outlet (DS)	8/11/2003	US-2, MS-2, DS-2	Rising	Pre-Construction	0.032 J	0.04 J	0.023 J
US, MS, and DS	8/12/2003	US-5, MS-5, DS-5	Peak	Pre-Construction	0.064 J	0.06 J	0.061 J
US, MS, and DS	8/13/2003	US-7, MS-7, DS-7	Falling	Pre-Construction	0.025 J	0.059 J	0.030 J [0.024 J]
AREA 28 RA COMPLETED (2003)							
US, MS, and DS	8/31/2004	A28-US-02, A28-MS-02, A28-DS-02	Peak	Post-Construction	0.010 J	0.010 J	0.010 J
US, MS, and DS	8/31/2004	A28-US-03, A28-MS-03, A28-DS-03	Falling	Post-Construction	0.010 J	0.020 J	0.010 J
DS	2005 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	a	a	TBD
DS	2006 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	a	a	TBD
DS	2007 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	a	a	TBD

1. Sample Locations: US = Upstream of Area 28 (A28) at approximately center stream across from the USGS staff gage; DS = Downstream boundary of Area 28; MS = approximately 10 feet downstream of gravel bar (2003) and just upstream of transverse bar (2004). See Figures 4 and 5 for sampling locations.
2. Samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York, and analyzed by Adirondack Environmental Services, Inc. (AES), Albany, NY (2003, and 2004). Analytical data from 2003 and 2004 were validated by BBL (Attachment F).
3. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
4. 0.030 J [0.024 J] = The associated value in parenthesis is a blind duplicate.
5. a Not in scope.
6. TBD = To be determined.

TABLE 8
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Area 28

Filtered Suspended Sediments

Location	Date	Sample ID	Flow Condition	Condition	Filtered Volume (L)	Sample Mass (g)	Total PCB Result (mg/kg)
AREA 28 RA COMPLETED 2003							
US (near USGS gaging station)	8/4/2004	A28-U-01-A	Base	Post-Construction	19	7.4	2.3
MS (near Transverse Bar)	8/4/2004	A28-M-01-A	Base	Post-Construction	19	6.6	4.2
DS (at Area 28 Outlet)	8/4/2004	A28-D-01-A	Base	Post-Construction	19	7.4	2.9
US	8/31/2004	A28-US-02-A	Peak	Post-Construction	19	14.7	1.8*
US	8/31/2004	A28-US-02-B	Peak	Post-Construction			
MS	8/31/2004	A28-MS-02-A	Peak	Post-Construction	19	10	1.8
DS	8/31/2004	A28-DS-02-A	Peak	Post-Construction	19	11	1.8
US	8/31/2004	A28-US-03-A	Falling	Post-Construction	19	8.3	5.0
MS	8/31/2004	A28-MS-03-A	Falling	Post-Construction	19	8.7	2.7
DS	8/31/2004	A28-DS-03-A	Falling	Post-Construction	19	7.5	2.6
DS	2005 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD
DS	2006 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD
DS	2007 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD

1. Sample Locations: US = Upstream of Area 28 (A28) at approximately center stream across from the USGS staff gage; DS = Downstream boundary of Area 28; MS = approximately 10 feet downstream of gravel bar (2003) and just upstream of transverse bar (2004). See Figures 4 and 5 for sampling locations.

2. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York, and analyzed by Adirondack Environmental Services, Inc. (AES), Albany, NY (2004). Analytical data from 2004 were validated by BBL (Attachment F).

3.* Sample consisted of two filters; filtered water mass weighted average PCB result is presented. Mass Weighted Average PCB = [([PCB]1 * Mass1) + ([PCB]2 * Mass2)] / Total Mass (See Table 13).

4. TBD = To be determined.

5. Values have been rounded to two significant figures.

TABLE 9
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Valatie Kill Inlet to Nassau Lake

Surface Water Sampling and Water Quality Parameters

Date	Time	Sample Location	Sample ID	Total PCB (µg/L)	TOC (mg/L)	TSS (mg/L)	Chlorophyll - a (corrected) (µg/l)	Water Quality Measurements							Flow (cfs)	GPS (Lat-Long) #	Comments
								pH	Turbidity (NTU)	Temp (°C)	DO (mg/L)	Specific Conductivity (mS/cm)	ORP (mV)	TDS (g/L)			
8/4/2004	7:44 PM	DS	NL/VK-U-01	0.011 J [0.011 J]	4.2	1.0	0.7 [0.4]	6.4	93	22	8.0	0.23	N/A	0.07	NA	N/A	Base-Flow
8/31/2004	1:05 AM	DS	VK/NL-DS-02	0.010 J [0.007 J]	3.6 [3.6]	3.5 [3]	0.3 [0.3]	5.8	a	22	8.1	0.23	210	NA	6.1	N 42° 32' 31.8" W 73° 35' 55.8"	Peak Flow
8/31/2004	11:30 AM	DS	VK/NL-DS-03 CC	0.008 J	4.4	3.0	1.7	5.0	a	21	0.2	0.22	190	NA	0.4	N 42° 32' 31.8" W 73° 35' 55.8"	Falling Limb

1. Sample Location: DS = Valatie Kill at inlet to Nassau Lake. See Figure 5 for sampling location.

2. PCB = polychlorinated biphenyls; TOC = total organic carbon; TSS = total suspended solids; Temp = temperature; DO = dissolved oxygen; ORP = oxidation-reduction potential; TDS = total dissolved solids; GPS = global positioning system; Lat = latitude; Long = longitude; 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, New York. Chlorophyll-a samples were analyzed by Northeast Analytical, Inc. in Schenectady, New York. Chlorophyll-a corrected: analysis has removed the pheophytin pigment by acid extraction.All other samples were analyzed by Adirondack Environmental Services, Inc. in Albany, New York. Analytical data from 2004 were validated by BBL (Attachment F).

4. # GPS accuracy (+/-) 9 - 49 ft.

5. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

6. 0.011 J [0.011 J] = The associated value in parenthesis is a blind duplicate.

7. NA = Not available.

8. a Meter malfunction.

9. Values have been rounded to two significant figures.

Table 10
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Valatie Kill Inlet to Nassau Lake, Base-Flow

Surface Water Sampling

Location	Date	Sample ID	Flow Condition	Condition	Total PCB Result (µg/L)
Valatie Kill Inlet to Nassau Lake (NL/VK)	10/13/1992	SWN006AS	Base	Pre-Construction	ND (0.090)
NL/VK	10/14/1992	SWN006BS	Base	Pre-Construction	ND (0.090)
NL/VK	10/15/1992	SWN006CS	Base	Pre-Construction	ND (0.090)
NL/VK	5/11/1993	SWN006AS	Base	Pre-Construction	ND (0.090)
NL/VK	5/12/1993	SWN006BS	Base	Pre-Construction	ND (0.090)
NL/VK	5/13/1993	SWN006CS	Base	Pre-Construction	ND (0.090)
NL/VK	8/30/1993	SWN006AS	Base (A)	Pre-Construction	ND (0.090)
NL/VK	8/30/1993	SWN006ASF	Base (B)	Pre-Construction	ND (0.090)
NL/VK	8/30/1993	SWN006BS	Base (C)	Pre-Construction	ND (0.090)
NL/VK	8/30/1993	SWN006BSF	Base (A)	Pre-Construction	ND (0.090)
NL/VK	8/30/1993	SWN006CS	Base (B)	Pre-Construction	ND (0.090)
NL/VK	8/30/1993	SWN006CSF	Base (C)	Pre-Construction	ND (0.090)
NL/VK	11/2/1993	SWN006AS	Base (A)	Pre-Construction	ND (0.090)
NL/VK	11/2/1993	SWN006ASF	Base (B)	Pre-Construction	ND (0.090)
NL/VK	11/2/1993	SWN006BS	Base (C)	Pre-Construction	ND (0.090)
NL/VK	11/2/1993	SWN006BSF	Base (A)	Pre-Construction	ND (0.090)
NL/VK	11/2/1993	SWN006CS	Base (B)	Pre-Construction	ND (0.090)
NL/VK	11/2/1993	SWN006CSF	Base (C)	Pre-Construction	ND (0.090)
NL/VK	12/28/1993	SWN006AS	Base (A)	Pre-Construction	ND (0.090)
NL/VK	12/28/1993	SWN006ASF	Base (B)	Pre-Construction	ND (0.090)
NL/VK	12/28/1993	SWN006BS	Base (C)	Pre-Construction	ND (0.090)
NL/VK	12/28/1993	SWN006BSF	Base (A)	Pre-Construction	ND (0.090)
NL/VK	12/28/1993	SWN006CS	Base (B)	Pre-Construction	ND (0.090)
NL/VK	12/28/1993	SWN006CSF	Base (C)	Pre-Construction	ND (0.090)
MEAD ROAD POND IRM COMPLETED (2001)					
T11A RA COMPLETED (2002/2003)					
AREA 28 RA COMPLETED (2003)					
NL/VK	8/4/2004	NL/VK-U-01	Base	Post-Construction	0.011 J [0.011 J]
NL/VK	2005 (Long-Term Monitoring)	TBD	Base	Post-Construction	TBD
NL/VK	2006 (Long-Term Monitoring)	TBD	Base	Post-Construction	TBD
NL/VK	2007 (Long-Term Monitoring)	TBD	Base	Post-Construction	TBD

1. Sample Location: DS = Valatie Kill at inlet to Nassau Lake. See Figure 5 for sampling location.
2. All Samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York, and analyzed by Aquatec, Inc., Colchester, VT (1992 and 1993) and Adirondack Environmental Services, Inc. (AES), Albany, NY (2004). Analytical data from 2004 were validated by BBL (Attachment F).
3. µg/L = micrograms per liter.
4. ND (0.090) = The compound was analyzed for but not detected. The associated numerical value in parenthesis is the practical quantitation limit (PQL) for PCB Aroclors.
5. A, B and C: Samples were collected three times during the day (morning, afternoon, and evening).
6. The samples with an "F" at the end of the identification number are filtered analyses. All other samples are unfiltered.
7. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
8. 0.011 J [0.011 J] = The associated value in parenthesis is a blind duplicate.
9. TBD = To be determined.

Table 11
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Valatie Kill Inlet to Nassau Lake, High-Flow

Surface Water Sampling

Location	Date	Sample ID	Flow Condition	Condition	Total PCB Result (µg/L)
Valatie Kill inlet to Nassau Lake (NL/VK)	3/29/1993	SWN006AS	High	Pre-Construction	0.068 J
NL/VK	3/29/1993	SWN006ASF	High	Pre-Construction	ND (0.090)
NL/VK	3/29/1993	SWN006BS	High	Pre-Construction	ND (0.090)
NL/VK	3/29/1993	SWN006BSF	High	Pre-Construction	ND (0.090)
NL/VK	3/29/1993	SWN006CS	High	Pre-Construction	0.023 J
NL/VK	3/29/1993	SWN006CSF	High	Pre-Construction	ND (0.090)
NL/VK	4/26/1993	SWN006AS	High	Pre-Construction	ND (0.090)
NL/VK	4/26/1993	SWN006ASF	High	Pre-Construction	ND (0.090)
NL/VK	4/26/1993	SWN006BS	High	Pre-Construction	ND (0.090)
NL/VK	4/26/1993	SWN006BSF	High	Pre-Construction	ND (0.090)
NL/VK	4/26/1993	SWN006CS	High	Pre-Construction	ND (0.090)
NL/VK	4/26/1993	SWN006CSF	High	Pre-Construction	ND (0.090)
NL/VK	6/15/1993	SWN006AS	High	Pre-Construction	0.022 J
NL/VK	6/16/1993	SWN006BS	High	Pre-Construction	ND (0.090)
NL/VK	6/16/1993	SWN006CS	High	Pre-Construction	0.024 J
NL/VK	11/17/1993	SWN006AS	High	Pre-Construction	ND (0.090)
NL/VK	11/17/1993	SWN006BS	High	Pre-Construction	ND (0.090)
NL/VK	11/18/1993	SWN006CS	High	Pre-Construction	0.053 J
NL/VK	11/18/1993	SWN006DS	High	Pre-Construction	0.058 J
NL/VK	11/18/1993	SWN006ES [SWN538S]	High	Pre-Construction	ND (0.090) [ND (0.090)]
MEAD ROAD POND IRM COMPLETED (2001)					
T11A RA COMPLETED (2002/2003)					
AREA 28 RA (2003)					
NL/VK	8/31/2004	VK/NL-DS-02	Peak	Post-Construction	0.010 J [0.007 J]
NL/VK	8/31/2004	VK/NL-DS-03	Falling	Post-Construction	0.008 J
NL/VK	2005 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	TBD
NL/VK	2006 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	TBD
NL/VK	2007 (Long-Term Monitoring)	TBD	Snowmelt & High-Flow	Post-Construction	TBD

1. Sample Location: DS = Valatie Kill at inlet to Nassau Lake. See Figure 5 for sample location.
2. All Samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York, and analyzed by Aquatec, Inc., Colchester, VT (1993) and Adirondack Environmental Services, Inc. (AES), Albany, NY (2004). Analytical data from 2004 were validated by BBL (Attachment F).
3. µg/L = micrograms per liter.
4. A, B and C: Samples were collected three times during the day (morning, afternoon, and evening).
5. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
6. The samples with an "F" at the end of the identification number are filtered analyses. All other samples are unfiltered.
7. ND (0.090) = The compound was analyzed for but not detected. The associated numerical value in parenthesis is the practical quantitation limit (PQL) for PCB Aroclors.
8. ND (0.090) [ND (0.090)] = The associated value in parenthesis is a blind duplicate.
9. TBD = To be determined.

TABLE 12
Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Valatie Kill Inlet to Nassau Lake

Filtered Suspended Sediments

Location	Date	Sample ID	Flow Condition	Condition	Filtered Volume (L)	Sample Mass (g)	Total PCB Result (mg/kg)
Valatie Kill Inlet to Nassau Lake (NL/VK)	3/30/1994	SWN006	High	Pre-Construction	160	6.6	1.5
(NL/VK)	12/5/1994	SWN006-1	Base	Pre-Construction	4.6	0.18	1.7
(NL/VK)	12/5/1994	SWN006-2	Base	Pre-Construction	3.0	0.12	1.5
(NL/VK)	12/6/1994	SWN006-3	Base	Pre-Construction	4.6	0.11	1.6
(NL/VK)	8/4/2004	NL/VK-U-01-A	Base	Post-Construction	19	9.0	2.1
(NL/VK)	8/31/2004	VK/NL-DS-02-A	Peak	Post-Construction	19	19	1.7*
(NL/VK)	8/31/2004	VK/NL-DS-02-B	Peak	Post-Construction			
(NL/VK)	8/31/2004	VK/NL-DS-03-A	Falling	Post-Construction	19	16	1.9*
(NL/VK)	8/31/2004	VK/NL-DS-03-B	Falling	Post-Construction			
(NL/VK)	2005 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD
(NL/VK)	2006 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD
(NL/VK)	2007 (Long-Term Monitoring)	TBD	Base-, Snowmelt & High-Flow	Post-Construction	TBD	TBD	TBD

1. Sample Location: DS = Valatie Kill at inlet to Nassau Lake. See Figure 5 for sampling location.
2. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York and analyzed by Aquatec, Inc., Colchester, VT (1994) and Adirondack Environmental Services, Inc. (AES), Albany, NY (2004). Analytical data from 2004 were validated by BBL (Attachment F).
3. * Sample consisted of two filters; the mass weighted average PCB result is presented. Mass Weighted Average PCB = [([PCB]1 * Mass1) + ([PCB]2 * Mass2)] / Total Mass (See Table 13).
4. TBD = To be determined.
5. Values have been rounded to two significant figures.

Table 13
Total PCB Concentrations Volume Weighted

Post-Remedial Monitoring-Operable Unit 3

Loeffel Site Environs
Nassau, NY

Filtered Suspended Sediments

Location	Sample ID	Date	Flow Condition	Volume Filtered (L)	Mass Captured (g)	Total PCB (mg/kg)	Mass Weighted Average PCB (mg/kg)
T11A	T11A-DS-02A	8/30/2004	Peak	11	14	0.72	6.0
T11A	T11A-DS-02B	8/30/2004	Peak	7.6	9.1	14	
A28	A28-US-02A	8/31/2004	Peak	14	7.6	1.9	1.8
A28	A28-US-02B	8/31/2004	Peak	4.7	7.1	1.7	
NL/VK	VK/NL-DS-02A	8/31/2004	Peak	15	9.8	1.2	1.7
NL/VK	VK/NL-DS-02B	8/31/2004	Peak	3.8	8.9	2.2	
NL/VK	VK/NL-DS-03A	8/31/2004	Falling	11	8.3	1.7	1.8
NL/VK	VK/NL-DS-03B	8/31/2004	Falling	7.6	7.9	2.0	

1. 2004 T11A samples were collected downstream in T11A at approximately three feet upstream of confluence with Valatie Kill (DS), Area 28 US samples were collected at approximately center stream across from the USGS staff gage and the NL/VK samples were collected at the Valatie Kill inlet to Nassau Lake. See Figures 2, 4, and 5 for sampling locations.
2. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, New York. Samples were analyzed by Adirondack Environmental Services, Inc. in Albany, New York. Analytical data from 2004 were validated by BBL (Attachment F).
3. Mass Weighted Average PCB = [([PCB]1 * Mass1) + ([PCB]2 * Mass2)] / Total Mass.
4. Values have been rounded to two significant figures.

TABLE 14
Master Surface Water Sampling Table

Loeffel Site Environs
Nassau, NY

Surface Water Monitoring PCB Results

Location	Sample Identification	Date	PCB Results						
			Aroclor 1016 (ug/L)	Aroclor 1221 (ug/L)	Aroclor 1232 (ug/L)	Aroclor 1242 (ug/L)	Aroclor 1248 (ug/L)	Aroclor 1254 (ug/L)	Aroclor 1260 (ug/L)
FALL SEASONAL SURFACE WATER MONITORING DATA									
Low Area Northwest of Site	SWN001S (SW505S)	10/22/1992	ND (0.090J) [ND (0.090)]	ND (0.090J) [ND (0.090)]	ND (0.090J) [ND (0.090)]	ND (0.090J) [ND (0.090)]	ND (0.090J) [ND (0.090)]	ND (0.090J) [ND (0.090)]	ND (0.090J) [ND (0.090)]
Northwest Drainage Above Mead Road Pond	SWN002S	10/16/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Mead Road Pond Outlet	SWN003S (SW501S)	10/16/1992	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.12 [0.12]
Valatie Kill at Mead Road	SWN005S	10/14/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Inlet to Nassau Lake	SWN006AS	10/13/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Inlet to Nassau Lake	SWN006BS	10/14/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Inlet to Nassau Lake	SWN006CS	10/15/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Nassau Lake	SWN007-1S	10/14/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Nassau Lake	SWN007-2S	10/14/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Nassau Lake	SWN007-3S	10/14/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Nassau Lake	SWN007-4S (SW500S)	10/14/1992	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valatie Kill Outlet from Nassau Lake	SWN008S	10/13/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Sweets Crossing	SWN009SS	10/13/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Lyons Pond	SWR018S	10/27/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Kinderhook Tributary	SWR019S	10/15/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at China Hill Road	SWR020S	10/13/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Southeast Drainage Just Below Loeffel Site	SWS010S	10/19/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Southeast Drainage Near Valley Stream	SWS011S	10/19/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valley Stream Inlet to Nassau Lake	SWS013S	10/14/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Mud Pond Outlet	SWT014S	10/15/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Tributary T8 at Central Nassau Road	SWT017S	10/14/1992	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
SURFACE WATER MONITORING RELATED TO MARCH 1993 SNOWMELT EVENT									
Mead Road Pond Outlet	SWN003S	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.081 J
Mead Road Pond Outlet	SWN003SF	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.042 J
Valatie Kill Inlet to Nassau Lake	SWN005S (SWN523S)	3/29/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valatie Kill Inlet to Nassau Lake	SWN005SF (SWN523SF)	3/29/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valatie Kill Inlet to Nassau Lake	SWN006AS	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.068 J
Valatie Kill Inlet to Nassau Lake	SWN006ASF	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BS	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BSF	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CS	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.023 J
Valatie Kill Inlet to Nassau Lake	SWN006CSF	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet to Nassau Lake	SWN008S	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet to Nassau Lake	SWN008SF	3/29/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
SURFACE WATER MONITORING DATA RELATED TO APRIL 1993 HIGHFLOW EVENT									
Mead Road Pond Outlet	SWN003S	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.064 J
Mead Road Pond Outlet	SWN003SF	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.036 J
Valatie Kill at Mead Road	SWN005S (SW523S)	4/26/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valatie Kill at Mead Road	SWN005SF (SW523SF)	4/26/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valatie Kill Inlet to Nassau Lake	SWN006AS	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006ASF	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BS	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BSF	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CS	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CSF	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet to Nassau Lake	SWN008S	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet to Nassau Lake	SWN008SF	4/26/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)

TABLE 14
Master Surface Water Sampling Table

Loeffel Site Environs
Nassau, NY

Surface Water Monitoring PCB Results

Location	Sample Identification	Date	PCB Results						
			Aroclor 1016 (ug/L)	Aroclor 1221 (ug/L)	Aroclor 1232 (ug/L)	Aroclor 1242 (ug/L)	Aroclor 1248 (ug/L)	Aroclor 1254 (ug/L)	Aroclor 1260 (ug/L)
SPRING SEASONAL SURFACE WATER MONITORING DATA									
Low Area Northwest of Site	SWN001S	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Northwest Drainage Above Mead Road Pond	SWN002S	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.023 K	ND (0.090)	0.11
Mead Road Pond Outlet	SWN003S (SW501S)	5/12/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.13 [0.12]
Mead Road Pond Outlet	SWN003SF (SW501SF)	5/12/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.07 J [0.058 J]
T11A Tributary Below Mead Road Pond	SWN004S	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.11
Valatie Kill at Mead Road	SWN005S	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Inlet to Nassau Lake	SWN006AS	5/11/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Inlet to Nassau Lake	SWN006BS	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Inlet to Nassau Lake	SWN006CS	5/13/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Nassau Lake	SWN007-1S	5/11/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Nassau Lake	SWN007-2S	5/11/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Nassau Lake	SWN007-3S (SW500S)	5/11/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Nassau Lake	SWN007-4S	5/11/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008S	5/11/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Sweets Crossing	SWN009S	5/10/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
SPRING SEASONAL SURFACE WATER MONITORING DATA (cont'd)									
Lyons Pond	SWR018S	5/13/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Kinderhook Tributary	SWR019S	5/14/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at China Hill Road	SWR020S	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at T14 Tributary	SWR021S	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Southeast Drainage Just Below Loeffel Site	SWS010S	5/14/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Southeast Drainage near Valley Stream	SWS011S	5/14/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Smith Pond	SWS012S (SW502S)	5/13/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valley Stream Inlet to Nassau Lake	SWS013S	5/11/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Mud Pond Outlet	SWT014S	5/13/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
P36B	SWT015S	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Tributary T8 at Central Nassau Road	SWT017S	5/12/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
SURFACE WATER MONITORING DATA RELATED TO SEDIMENT TRAP PLACEMENT									
Mead Road Pond Outlet	SWN003S (SW525S)	5/27/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.25 J [0.23 J]
Mead Road Pond Outlet	SWN003SF (SW525SF)	5/27/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.096 J [0.076 J]
Valatie Kill at Mead Road	SWN005S	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill at Mead Road	SWN005SF	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill Inlet to Nassau Lake	SWN006AS	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill Inlet to Nassau Lake	SWN006ASF	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill Inlet to Nassau Lake	SWN006BS	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill Inlet to Nassau Lake	SWN006BSF	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill Inlet to Nassau Lake	SWN006CS	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill Inlet to Nassau Lake	SWN006CSF	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill Outlet from Nassau Lake	SWN008S	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Valatie Kill Outlet from Nassau Lake	SWN008SF	5/27/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
SURFACE WATER MONITORING DATA RELATED TO JUNE 1993 RAINFALL EVENT									
Mead Road Pond Outlet	SWN003AS (SW527S)	6/15/1993	ND (0.11) [ND (0.11)]	ND (0.11) [ND (0.11)]	ND (0.11) [ND (0.11)]	ND (0.11) [ND (0.11)]	ND (0.11) [ND (0.11)]	ND (0.11) [ND (0.11)]	0.22 J [0.24 J]
Mead Road Pond Outlet	SWN003BS	6/16/1993	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.20 J
Mead Road Pond Outlet	SWN003CS	6/16/1993	ND (0.225)	ND (0.225)	ND (0.225)	ND (0.225)	ND (0.225)	ND (0.225)	0.26 J
Valatie Kill at Mead Road	SWN005AS	6/15/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.022 J
Valatie Kill at Mead Road	SWN005BS (SW526S)	6/16/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.025 J [0.023 J]
Valatie Kill at Mead Road	SWN005CS	6/16/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Gaging Station	SWN024S	6/16/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006AS	6/15/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.022 J
Valatie Kill Inlet to Nassau Lake	SWN006BS	6/16/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CS	6/16/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.033 KJ	ND (0.090)	0.024 J
Valatie Kill Outlet from Nassau Lake	SWN008AS	6/16/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008BS	6/16/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008CS	6/16/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)

TABLE 14
Master Surface Water Sampling Table

Loeffel Site Environs
Nassau, NY

Surface Water Monitoring PCB Results

Location	Sample Identification	Date	PCB Results						
			Aroclor 1016 (ug/L)	Aroclor 1221 (ug/L)	Aroclor 1232 (ug/L)	Aroclor 1242 (ug/L)	Aroclor 1248 (ug/L)	Aroclor 1254 (ug/L)	Aroclor 1260 (ug/L)
AUGUST 1993 LOW-FLOW EVENT									
Valatie Kill at Mead Road	SWN005S	8/30/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Mead Road	SWN005SF	8/30/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006AS	8/30/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BS	8/30/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BS	8/30/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BSF	8/30/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CS	8/30/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CSF	8/30/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008S (SWN536S)	8/30/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valatie Kill Outlet from Nassau Lake	SWN008SF (SWN536SF)	8/30/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
NOVEMBER 1993 ADDITIONAL SAMPLING EVENT									
Northwest Drainage Upstream of Loeffel Site Culvert	SWN024S	11/3/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Northwest Drainage Upstream of Loeffel Site Culvert	SWN024SF	11/3/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Loeffel Site Culvert	SWN023S	11/3/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Loeffel Site Culvert	SWN023SF	11/3/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090 J)
Mead Road Pond Outlet	SWN003S (SW537S)	11/2/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.11 [0.12]
Mead Road Pond Outlet	SWN003SF (SW537SF)	11/2/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.029 J [0.023 J]
Valatie Kill at Mead Road	SWN005S	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at Mead Road	SWN005SF	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006AS	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006ASF	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BS	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BSF	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CS	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CSF	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008S	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008SF	11/2/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
NOVEMBER 1993 RAINFALL EVENT									
Loeffel Site Culvert	SWN025AS	11/17/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.029 J
Loeffel Site Culvert	SWN025BS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Loeffel Site Culvert	SWN025CS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.028 J
Northwest Drainage Upstream of Loeffel Site Culvert	SWN026AS	11/17/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Northwest Drainage Upstream of Loeffel Site Culvert	SWN026BS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Northwest Drainage Upstream of Loeffel Site Culvert	SWN026CS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Mead Road Pond	SWN003AS	11/17/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.075 J
Mead Road Pond	SWN003BS (SW534S)	11/18/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.071 J [0.083 J]
Mead Road Pond	SWN003CS (SW535S)	11/18/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.076 J [0.088 J]
Valatie Kill at Mead Road	SWN005AS	11/17/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.037 J
Valatie Kill at Mead Road	SWN005BS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.027 J
Valatie Kill at Mead Road	SWN005CS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill at USGS Gaging Station	SWN024S	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.082 J
Valatie Kill Inlet to Nassau Lake	SWN006AS	11/17/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BS	11/17/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.053 J
Valatie Kill Inlet to Nassau Lake	SWN006DS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	0.058 J
Valatie Kill Inlet to Nassau Lake	SWN006ES (SW538S)	11/18/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valatie Kill Outlet from Nassau Lake	SWN008AS	11/17/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008BS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008CS	11/18/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)

TABLE 14
Master Surface Water Sampling Table

Loeffel Site Environs
Nassau, NY

Surface Water Monitoring PCB Results

Location	Sample Identification	Date	PCB Results						
			Aroclor 1016 (ug/L)	Aroclor 1221 (ug/L)	Aroclor 1232 (ug/L)	Aroclor 1242 (ug/L)	Aroclor 1248 (ug/L)	Aroclor 1254 (ug/L)	Aroclor 1260 (ug/L)
DECEMBER 1993 LATE FALL BASE-FLOW EVENT									
Mead Road Pond Outlet	SWN003S (SW539S)	12/28/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	0.09 J [0.095 J]
Mead Road Pond Outlet	SWN003SF (SW539SF)	12/28/1993	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]	ND (0.090) [ND (0.090)]
Valatie Kill at Mead Road	SWN005S	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006AS	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006ASF	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BS	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006BSF	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CS	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Inlet to Nassau Lake	SWN006CSF	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008S	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
Valatie Kill Outlet from Nassau Lake	SWN008SF	12/28/1993	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)	ND (0.090)
TRIBUTARY T11A (T11A) PRE-CONSTRUCTION SAMPLING									
Culvert of Northwest Drainage Ditch - Base Flow	BASE-NWDD	10/16/2002	ND (0.076)	ND (0.076)	ND (0.076)	ND (0.076)	ND (0.076)	ND (0.076)	ND (0.076)
Upstream of T11A at Mead Road Pond Outlet - Base Flow	BASE-US	10/16/2002	ND (0.075)	ND (0.075)	ND (0.075)	ND (0.075)	ND (0.075)	ND (0.075)	0.091
T11A at Confluence with Valatie Kill - Base Flow	BASE-DS	10/16/2002	ND (0.078)	ND (0.078)	ND (0.078)	ND (0.078)	ND (0.078)	ND (0.078)	0.06 J
Culvert of Northwest Drainage Ditch - Rising Limb	PEAK-NWDD-3	10/16/2002	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)
Upstream of T11A at Mead Road Pond Outlet - Rising Limb	PEAK-US-1	10/16/2002	ND (0.068) [ND (0.068)]	ND (0.068) [ND (0.068)]	ND (0.068) [ND (0.068)]	ND (0.068) [ND (0.068)]	ND (0.068) [ND (0.068)]	ND (0.068) [ND (0.068)]	ND (0.068) [ND (0.068)]
T11A at Confluence with Valatie Kill - Rising Limb	PEAK-DS-2	10/16/2002	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	0.22
Culvert of Northwest Drainage Ditch - Peak	PEAK-NWDD-6	10/16/2002	ND (0.069)	ND (0.069)	ND (0.069)	ND (0.069)	ND (0.069)	ND (0.069)	ND (0.069)
Upstream of T11A at Mead Road Pond Outlet - Peak	PEAK-US-4	10/16/2002	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)
T11A at Confluence with Valatie Kill - Peak	PEAK-DS-5	10/16/2002	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	0.37
Culvert of Northwest Drainage Ditch - Falling Limb	FALLING-NWDD-3	10/16/2002	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)
Upstream of T11A at Mead Road Pond Outlet - Falling Limb	FALLING-US-1	10/16/2002	ND (0.069)	ND (0.069)	ND (0.069)	ND (0.069)	ND (0.069)	ND (0.069)	ND (0.069)
T11A at Confluence with Valatie Kill - Falling Limb	FALLING-DS-2	10/16/2002	ND (0.070)	ND (0.070)	ND (0.070)	ND (0.070)	ND (0.070)	ND (0.070)	0.36
T11A POST-CONSTRUCTION SAMPLING									
Culvert of Northwest Drainage Ditch - Base Flow	US-T11A	6/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)
Upstream of T11A at Mead Road Pond Outlet - Base Flow	MS-T11A	6/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)
T11A at Confluence with Valatie Kill - Base Flow	DS-T11A	6/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.14
T11A at Confluence with Valatie Kill - Base Flow	DS-1	8/8/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.16
Culvert of Northwest Drainage Ditch - Rising Limb	US-1	8/22/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.046 J
Upstream of T11A at Mead Road Pond Outlet - Rising Limb	MS-1	8/22/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.06 J
T11A at Confluence with Valatie Kill - Rising Limb	DS-1	8/22/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.73
Culvert of Northwest Drainage Ditch - Peak	US-2	8/22/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.019 J
Upstream of T11A at Mead Road Pond Outlet - Peak	MS-2	8/22/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.044 J
T11A at Confluence with Valatie Kill - Peak	DS-2	8/22/2003	ND (0.033) [ND (0.033)]	ND (0.033) [ND (0.033)]	ND (0.033) [ND (0.033)]	ND (0.033) [ND (0.033)]	ND (0.033) [ND (0.033)]	ND (0.033) [ND (0.033)]	1.9 [1.6]
Culvert of Northwest Drainage Ditch - Falling Limb	US-3	8/22/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.017 J
Upstream of T11A at Mead Road Pond Outlet - Falling Limb	MS-3	8/22/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)
T11A at Confluence with Valatie Kill - Falling Limb	DS-3	8/22/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.15
T11A at Confluence with Valatie Kill - Base Flow	T11A-DS-Base	6/30/2004	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	ND (0.068)	0.094
T11A at Confluence with Valatie Kill - Base Flow	T11A-D-01	8/4/2004	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	0.080
T11A at Confluence with Valatie Kill - Peak Flow	T11A-DS-02	8/30/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.29
T11A at Confluence with Valatie Kill - Falling Limb	T11A-DS-03	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.10

TABLE 14
Master Surface Water Sampling Table

Loeffel Site Environs
Nassau, NY

Surface Water Monitoring PCB Results

Location	Sample Identification	Date	PCB Results						
			Aroclor 1016 (ug/L)	Aroclor 1221 (ug/L)	Aroclor 1232 (ug/L)	Aroclor 1242 (ug/L)	Aroclor 1248 (ug/L)	Aroclor 1254 (ug/L)	Aroclor 1260 (ug/L)
AREA 28 PRE-CONSTRUCTION SAMPLING									
Upstream of Area 28 at USGS gage - Base Flow	US-Area 28	6/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)
Area 28 Downstream of Gravel Bar - Base Flow	MS-Area 28	6/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)
Area 28 Outlet - Base Flow	DS-Area 28	6/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)
Upstream of Area 28 at USGS gage - Rising Limb	US-2	8/11/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.032 J
Area 28 Downstream of Gravel Bar - Rising Limb	MS-2	8/11/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.04 J
Area 28 Outlet - Rising Limb	DS-2	8/11/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.023 J
Upstream of Area 28 at USGS gage - Peak	US-5	8/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.064 J
Area 28 Downstream of Gravel Bar - Peak	MS-5	8/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.06 J
Area 28 Outlet - Peak	DS-5	8/12/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.061 J
Upstream of Area 28 at USGS gage -Falling Limb	US-7	8/13/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.025 J
Area 28 Downstream of Gravel Bar - Falling Limb	MS-7	8/13/2003	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	ND (0.065)	0.059 J
Area 28 Outlet - Falling Limb	DS-7	8/13/2003	ND (0.065) [ND (0.065)]	ND (0.065) [ND (0.065)]	ND (0.065) [ND (0.065)]	ND (0.065) [ND (0.065)]	ND (0.065) [ND (0.065)]	ND (0.065) [ND (0.065)]	0.03 J [0.024 J]
AREA 28 POST-CONSTRUCTION SAMPLING									
Upstream of Area 28 at USGS gage - Base Flow	A28-U-01	8/4/2004	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	0.010 J
Area 28 Downstream of Gravel Bar - Base Flow	A28-M-01	8/4/2004	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	0.011 J
Area 28 Outlet - Base Flow	A28-D-01	8/4/2004	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	0.013 J
Upstream of Area 28 at USGS gage - Peak Flow	A28-US-02	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.010 J
Area 28 Downstream of Gravel Bar - Peak Flow	A28-MS-02	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.011 J
Area 28 Outlet - Base Flow	A28-DS-02	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.011 J
Upstream of Area 28 at USGS gage - Falling Limb	A28-US-03	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.011 J
Area 28 Downstream of Gravel Bar - Falling Limb	A28-MS-03	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.018 J
Area 28 Outlet - Falling Limb	A28-DS-03	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.010 J
VALATIE KILL INLET TO NASSAU LAKE POST-CONSTRUCTION SAMPLING									
Valatie Kill Inlet to Nassau Lake - Base Flow	NL/VK-U-01	8/4/2004	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	0.011 J [0.011 J]
Valatie Kill Inlet to Nassau Lake - Peak Flow	VK/NL-DS-02	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.010 J [0.007 J]
Valatie Kill Inlet to Nassau Lake - Falling Limb	VK/NL-DS-03	8/31/2004	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	0.008 J

Notes:
1. All samples were collected by Blasland, Bouck & Lee, Inc. in Syracuse, NY and analyzed by Aquatec, Inc., Colchester, VT (1992, 1993) and Adirondack Environmental Services, Inc. (AES), Albany, NY (2002, 2003, and 2004). 1992 data summarized from Interim Loeffel Site Environs, Remedial Investigation Phase I Report, October 1993; 1993 data summarized from Loeffel Site Environs, Remedial Investigation Phase I Report, April 1995. 2002 data summarized (with subsequent validation) from the October 30, 2002 letter to Michael Komoroske, P.E. regarding October Monthly Progress Report for T11A Remedial Action. June and August 2003 data are validated and summarized in the Pre- and Post-Construction Surface Water Sampling Results - T11A and Area 28 letter to NYSDEC (Attachment A) . 2004 data validated by BBL, Inc. (Attachment F).
2. For all 2002 samples, the PQL ranged between 0.075 and 0.068 ug/L. MDL was 0.014 ug/L. One value was estimated.
3. For all 2003 and 2004 samples, the PQL was 0.065 ug/L. MDL was 0.014/0.013 ug/L. Several values were estimated.
4. PCB = polychlorinated biphenyl and µg/L = micrograms per liter.
5. ND (0.090) = The compound was analyzed for but not detected. The associated numerical value in parenthesis is the practical quantitation limit (PQL) for PCB Aroclors.
6. ND (0.022) [ND (0.022)] = The associated value in parenthesis is a blind duplicate.
7. The samples with an "F" at the end of the identification number are filtered analyses. All other samples are unfiltered.
8. J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

Table 15

Loeffel Site Environs
Nassau, New York

Summary of NYSDEC 2004 Biota Samples Currently Stored at Hale Creek Field Station

NYSDEC Tag No.	Species	Collection Date	No. of Individuals	Size Range (mm)	Sample Proposed for Analysis
T11A					
Wetland Above Former Mead Road Pond					
0061347	Green Frog (Tadpoles)	6/30/2004	3	--	*
0061348	Green Frog	6/30/2004	5	--	*
0061349	Green Frog	6/30/2004	4	--	*
0061350	Green Frog	6/30/2004	5	--	*
0061351	Green Frog	6/30/2004	5	--	*
0061352	Green Frog	6/30/2004	5	--	*
Upper Third of T11A (Former Mead Road Pond to Culvert)					
0061332	Blacknose dace	6/30/2004	10	54-74	*
0061333	Blacknose dace	6/30/2004	10	60-76	*
0061334	Creek chub	6/30/2004	58	--	*
0061335	Blacknose dace	6/30/2004	10	64-74	*
0061336	Blacknose dace	6/30/2004	10	52-65	*
0061337	Blacknose dace	6/30/2004	10	55-71	*
0061338	Creek chub	6/30/2004	4	61-75	*
0061339	Creek chub	6/30/2004	3	64-65	*
0061340	Predaceous Diving Beetle	6/30/2004	1	44	*
0061341	Green Frog (Tadpoles)	6/30/2004	5	--	*
0061342	Green Frog (Tadpoles)	6/30/2004	6	--	*
0061343	Green Frog	6/30/2004	7	--	*
0061344	Green Frog	6/30/2004	6	--	*
0061345	Green Frog	6/30/2004	4	--	*
0061346	Crayfish spp.	6/30/2004	4	--	*
Lower Third of T11A					
0061317	Crane Fly (Larvae)	6/30/2004	2	--	*
0061318	Brook trout	6/30/2004	3	65-71	*
0061319	Brook trout	6/30/2004	3	74-76	*
0061320	Brook trout	6/30/2004	3	73-75	*
0061321	Brook trout	6/30/2004	2	80-81	*
0061322	Brook trout	6/30/2004	2	79-81	*
0061323	Blacknose dace	6/30/2004	8	60-74	*
0061324	Blacknose dace	6/30/2004	8	61-68	*
0061325	Blacknose dace	6/30/2004	8	64-79	*
0061326	Blacknose dace	6/30/2004	8	55-68	*
0061327	Blacknose dace	6/30/2004	8	59-63	*
0061328	Creek chub	6/30/2004	1	64	*
0061329	Crayfish spp.	6/30/2004	1	19	*
0061330	Crayfish spp.	6/30/2004	2	12-15	*
0061331	Green frog	6/30/2004	2	31-33	*
Valatie Kill					
Valatie Kill at Confluence with T14 (China Hill Road)					
0003708	Brook trout	6/29/2004	1	177	*
0003709	Brook trout	6/29/2004	1	196	*
0003710	Brook trout	6/29/2004	1	207	*
0003711	Brook trout	6/29/2004	1	211	F
0003712	Brook trout	6/29/2004	1	213	F
0003713	Brook trout	6/29/2004	1	231	F
0003714	Brook trout	6/29/2004	1	252	F
0003715	Brook trout	6/29/2004	1	274	F
0003716	White sucker	6/29/2004	1	236	F
0003717	White sucker	6/29/2004	1	270	F
0003718	White sucker	6/29/2004	1	195	F
0003719	White sucker	6/29/2004	1	174	F
0003720	White sucker	6/29/2004	1	172	F
0003721	Blacknose dace	6/29/2004	10	59-65	W
0003722	Blacknose dace	6/29/2004	10	61-72	W
0003723	Blacknose dace	6/29/2004	10	60-72	W
0003724	Blacknose dace	6/29/2004	10	60-72	W
0003725	Blacknose dace	6/29/2004	10	64-71	W
0003726	Creek chub	6/29/2004	6	54-70	W
0003727	Creek chub	6/29/2004	4	91-108	W
0003728	White sucker	6/29/2004	5	93-136	W
0003729	White sucker	6/29/2004	6	119-135	W
0003730	White sucker	6/29/2004	8	133-148	W
Valatie Kill Below Confluence with T11A					
0003731	Brook trout	6/29/2004	1	164	F
0003732	Brook trout	6/29/2004	1	195	F
0003733	Brook trout	6/29/2004	1	190	F
0003734	Brook trout	6/29/2004	1	205	F
0003735	White sucker	6/29/2004	1	225	F
0003736	White sucker	6/29/2004	1	191	F
0003737	White sucker	6/29/2004	1	173	F
0003738	White sucker	6/29/2004	1	160	F
0003739	White sucker	6/29/2004	1	173	F
0003740	Blacknose dace	6/29/2004	10	58-73	W
0003741	Blacknose dace	6/29/2004	10	57-73	W
0003742	Blacknose dace	6/29/2004	10	57-64	W
0003743	Blacknose dace	6/29/2004	10	59-68	W
0003744	Blacknose dace	6/29/2004	10	68-78	W
0003745	White sucker	6/29/2004	7	80-92	W
0003746	White sucker	6/29/2004	6	109-124	W
0003747	White sucker	6/29/2004	6	112-124	W
0003748	Common shiner	6/29/2004	10	74-89	W
0003749	Common shiner	6/29/2004	10	100-114	W

Table 15

Loeffel Site Environs
Nassau, New York

Summary of NYSDEC 2004 Biota Samples Currently Stored at Hale Creek Field Station

NYSDEC Tag No.	Species	Collection Date	No. of Individuals	Size Range (mm)	Sample Proposed for Analysis
Valatie Kill near Camp Schodack (Central Nassau Road)					
0003647	Brown bullhead	6/16/2004	1	277	F
0003648	Brown bullhead	6/16/2004	1	148	F
0003649	Brown bullhead	6/16/2004	1	106	*
0003650	Yellow perch	6/16/2004	1	122	F
0003651	Yellow perch	6/16/2004	1	106	F
0003652	Bluegill	6/16/2004	1	91	F
0003653	Brook trout	6/16/2004	1	206	F
0003654	Brook trout	6/16/2004	1	210	F
0003655	Brook trout	6/16/2004	1	237	F
0003656	Brook trout	6/16/2004	1	252	F
0003657	Brook trout	6/16/2004	1	256	F
0003658	Blacknose dace	6/16/2004	6	74-79	W
0003659	Blacknose dace	6/16/2004	5	68-72	W
0003660	Blacknose dace	6/16/2004	6	66-77	W
0003661	Blacknose dace	6/16/2004	5	60-65	W
0003662	Blacknose dace	6/16/2004	5	66-71	W
0003663	Longnose dace	6/16/2004	2	106-124	W
0003664	Longnose dace	6/16/2004	3	86-100	W
0003665	Longnose dace	6/16/2004	6	64-77	W
0003666	Longnose dace	6/16/2004	6	73-89	W
0003667	Longnose dace	6/16/2004	11	59-65	W
Valatie Kill Area 28					
0003668	White sucker	6/16/2004	2	127-131	*
0003669	White sucker	6/16/2004	1	95	*
0003670	White sucker	6/16/2004	1	180	F
0003671	White sucker	6/16/2004	1	154	F
0003672	White sucker	6/16/2004	1	157	F
0003673	Yellow bullhead	6/16/2004	1	165	F
0003674	Brown bullhead	6/16/2004	1	161	F
0003675	Blacknose dace	6/16/2004	10	68-75	W
0003676	Blacknose dace	6/16/2004	10	66-79	W
0003677	Blacknose dace	6/16/2004	10	64-72	W
0003678	Blacknose dace	6/16/2004	10	68-75	W
0003679	Blacknose dace	6/16/2004	10	65-76	W
0003680	Longnose dace	6/16/2004	5	89-93	W
0003681	Longnose dace	6/16/2004	7	72-83	W
0003682	Longnose dace	6/16/2004	9	59-68	W
0003683	Longnose dace	6/16/2004	10	62-72	W
0003684	Longnose dace	6/16/2004	9	70-84	W
0003685	Creek chub	6/16/2004	3	76-88	*
0003686	Creek chub	6/16/2004	3	75-79	*
0003687	Tesselated darter	6/16/2004	6	60-74	*
0003688	Tesselated darter	6/16/2004	8	52-63	*
Valatie Kill Below Tributary 8 (Downstream of Area 28)					
0003689	Brook trout	6/16/2004	1	212	F
0003690	Red-breasted sunfish	6/16/2004	1	130	F
0003691	Red-breasted sunfish	6/16/2004	1	109	F
0003692	Yellow bullhead	6/16/2004	1	169	F
0003693	Yellow perch	6/16/2004	1	178	F
0003694	Yellow perch	6/16/2004	1	165	F
0003695	Yellow perch	6/16/2004	1	145	F
0003696	White sucker	6/16/2004	1	242	F
0003697	White sucker	6/16/2004	1	232	F
0003698	White sucker	6/16/2004	1	194	F
0003699	White sucker	6/16/2004	1	182	F
0003700	White sucker	6/16/2004	2	175-178	W
0003701	Longnose dace	6/16/2004	10	62-77	W
0003702	Longnose dace	6/16/2004	9	75-91	W
0003703	Longnose dace	6/16/2004	10	61-74	W
0003704	Longnose dace	6/16/2004	10	65-74	W
0003705	Longnose dace	6/16/2004	4	95-116	W
0003706	Blacknose dace	6/16/2004	8	41-53	W
0003707	Blacknose dace	6/16/2004	3	74-75	W
Valatie Kill below Nassau Lake (Above County Route 7)					
0003750	Yellow perch	6/29/2004	1	205	F
0003751	Yellow perch	6/29/2004	1	169	F
0003752	Yellow perch	6/29/2004	1	192	F
0003753	Yellow perch	6/29/2004	1	200	F
0003754	Yellow perch	6/29/2004	1	181	F
0003755	Rock bass	6/29/2004	1	160	F
0003756	Rock bass	6/29/2004	1	160	F
0003757	Rock bass	6/29/2004	1	163	F
0003758	Rock bass	6/29/2004	1	178	F
0003759	Rock bass	6/29/2004	1	167	F
0003760	Yellow bullhead	6/29/2004	1	230	*
0061301	Yellow bullhead	6/29/2004	1	171	*
0061302	Yellow bullhead	6/29/2004	1	228	*
0061303	Longnose dace	6/29/2004	10	95-108	W
0061304	Longnose dace	6/29/2004	10	91-101	W
0061305	Longnose dace	6/29/2004	10	85-104	W
0061306	Longnose dace	6/29/2004	10	72-89	W
0061307	Longnose dace	6/29/2004	10	75-87	W
0061308	White sucker	6/29/2004	2	119-123	W
0061309	White sucker	6/29/2004	2	132-166	W
0061310	Cutlips minnow	6/30/2004	5	93-105	*
0061311	Cutlips minnow	6/30/2004	4	113-122	*
0061312	Cutlips minnow	6/30/2004	4	117-128	*
0061313	White sucker	6/30/2004	1	165	W
0061314	White sucker	6/30/2004	2	108-111	W
0061315	Fallfish	6/30/2004	1	166	W
0061316	Fallfish	6/30/2004	3	93-108	W

Table 15

Loeffel Site Environs
Nassau, New York

Summary of NYSDEC 2004 Biota Samples Currently Stored at Hale Creek Field Station

NYSDEC Tag No.	Species	Collection Date	No. of Individuals	Size Range (mm)	Sample Proposed for Analysis
	Nassau Lake				
Nassau Lake					
0061353	Largemouth bass	7/9/2004	1	377	F
0061354	Largemouth bass	7/9/2004	1	342	F
0061355	Largemouth bass	7/9/2004	1	370	F
0061356	Largemouth bass	7/9/2004	1	376	F
0061357	Largemouth bass	7/9/2004	1	403	F
0061358	Largemouth bass	7/9/2004	1	365	F
0061359	Largemouth bass	7/9/2004	1	383	F
0061360	Largemouth bass	7/9/2004	1	439	F
0061361	Largemouth bass	7/9/2004	1	380	F
0061362	Largemouth bass	7/9/2004	1	377	F
0061363	Largemouth bass	7/9/2004	1	396	F
0061364	Largemouth bass	7/9/2004	1	359	F
0061365	Largemouth bass	7/9/2004	1	415	F
0061366	Largemouth bass	7/9/2004	1	409	F
0061367	Largemouth bass	7/9/2004	1	436	F
0061368	Brown bullhead	7/9/2004	1	280	F
0061369	Brown bullhead	7/9/2004	1	370	F
0061370	Brown bullhead	7/9/2004	1	328	F
0061371	Brown bullhead	7/9/2004	1	327	F
0061372	Brown bullhead	7/9/2004	1	287	F
0061373	Brown bullhead	7/9/2004	1	261	F
0061374	Brown bullhead	7/9/2004	1	333	F
0061375	Brown bullhead	7/9/2004	1	280	F
0061376	Brown bullhead	7/9/2004	1	291	F
0061377	Brown bullhead	7/9/2004	1	316	F
0061378	Brown bullhead	7/9/2004	1	313	F
0061379	Brown bullhead	7/9/2004	1	318	F
0061380	Brown bullhead	7/9/2004	1	318	F
0061381	Brown bullhead	7/9/2004	1	237	F
0061382	Brown bullhead	7/9/2004	1	265	F
0061383	Yellow perch	7/9/2004	1	273	F
0061384	Yellow perch	7/9/2004	1	240	F
0061385	Yellow perch	7/9/2004	1	255	F
0061386	Yellow perch	7/9/2004	1	246	F
0061387	Yellow perch	7/9/2004	1	247	F
0061388	Yellow perch	7/9/2004	1	212	F
0061389	Yellow perch	7/9/2004	1	240	F
0061390	Yellow perch	7/9/2004	1	193	F
0061391	Yellow perch	7/9/2004	1	250	F
0061392	Yellow perch	7/9/2004	1	263	F
0061393	Yellow perch	7/9/2004	1	243	F
0061394	Yellow perch	7/9/2004	1	234	F
0061395	Yellow perch	7/9/2004	1	229	F
0061396	Yellow perch	7/9/2004	1	248	F
0061397	Yellow perch	7/9/2004	1	194	F
0061398	American eel	7/9/2004	1	616	*
0061399	American eel	7/9/2004	1	573	*
0061400	American eel	7/9/2004	1	573	*
9954801	American eel	7/9/2004	1	665	*
9954801	American eel	7/9/2004	1	621	*
9954801	American eel	7/9/2004	1	397	*

Notes:
* This sample is not targetted for analysis.
W = Sample to be analyzed as whole body (i.e., forage fish sample).
F = Sample to be analyzed as fillet (i.e., edible-size fish sample).

Figures

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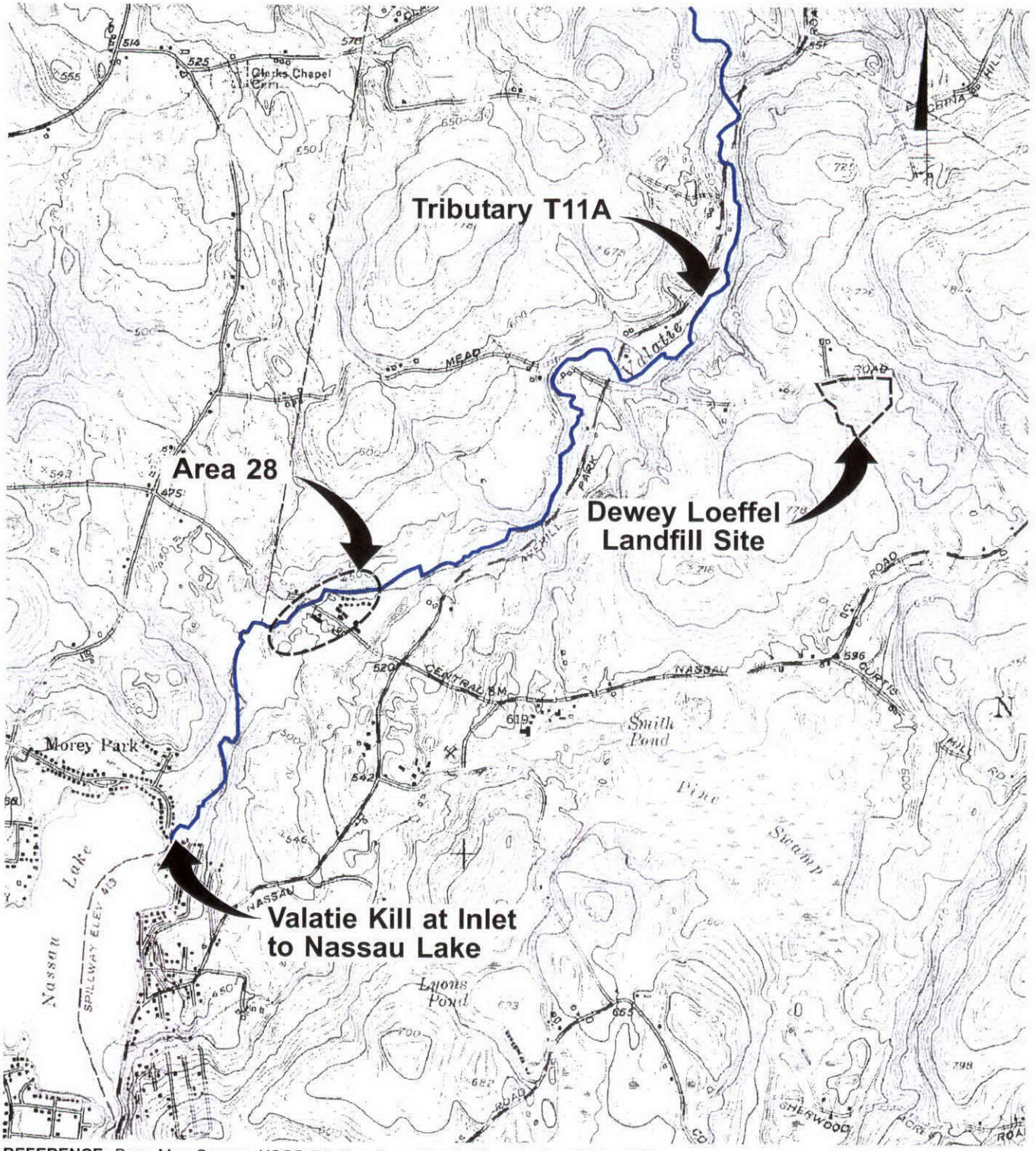

REFERENCE: Base Map Source, USGS 7.5 Min. Topo. Quad., Nassau, New York, 1953.

CONFIDENTIAL SETTLEMENT COMMUNICATION
SUBMITTED FOR SETTLEMENT PURPOSES ONLY
WITHOUT PREJUDICE

2000' 0 2000'

Approximate Scale: 1" = 2000'

10/19/04 SYR-D54-LBR LAS-KLS
C/10073700/cdr/10073n01.cdr

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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
POST-REMEDIAL MONITORING

T11A DOWNSTREAM SURFACE WATER AND SUSPENDED SEDIMENT SAMPLING LOCATION - 2004

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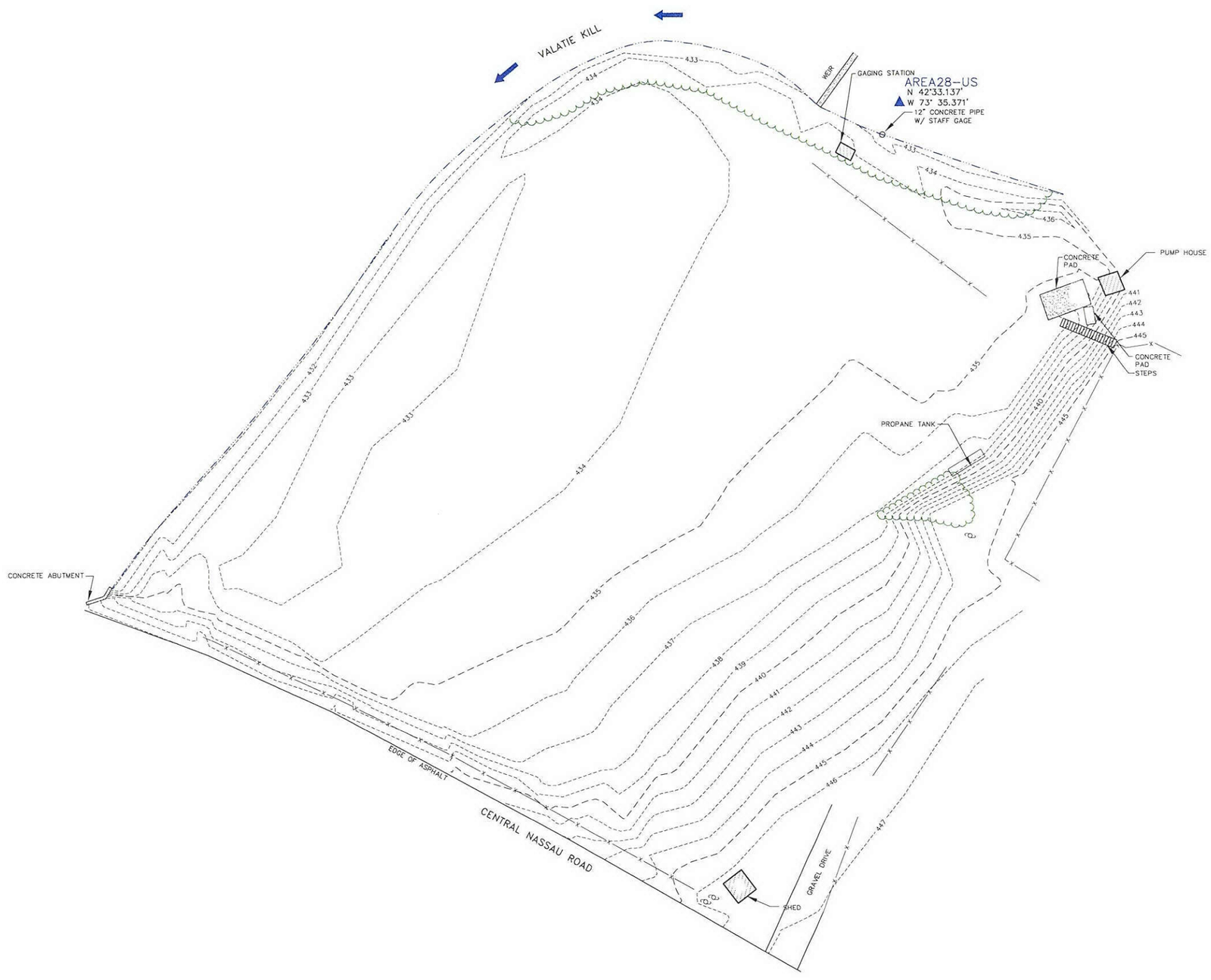
FIGURE 2

X: 10073X00, X01.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL
10/19/04 SYR-54-NES KMD KLS
C/10073900/POSTREM/10073G01.DWG



LEGEND:

- EXISTING UTILITY POLE
- EXISTING CHAIN LINK FENCE
- EDGE OF WATER
- DIRECTION OF FLOW
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE LOCATION OF TREE LINE
- SAMPLE LOCATION

NOTES:

1. BASE MAP PREPARED FROM SURVEY INFORMATION GENERATED BY BLASLAND, BOUCK & LEE, INC. DATED MARCH 1, 1999 AT A SCALE OF 1"=20'.
2. ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 AND HORIZONTAL NY SPC 27.
3. SAMPLE LOCATION IS APPROXIMATE.
4. LATITUDE AND LONGITUDE OBTAINED BY FIELD GPS UNIT WITH AN ACCURACY OF ±9-49 FEET. SAMPLE LOCATIONS ARE DEPICTED BASED ON FIELD OBSERVATIONS.

0 20' 40'
GRAPHIC SCALE

X: 10073X00, X02.DWG
L: ON=*, OFF=REF*
P: PAGESET: SYR-DL
10/19/04 SYR-54-NES KMD KLS
C/10073900/POSTREM/10073G02.DWG

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AREA 28 UPSTREAM SURFACE WATER AND SUSPENDED SEDIMENT SAMPLING LOCATION - 2004

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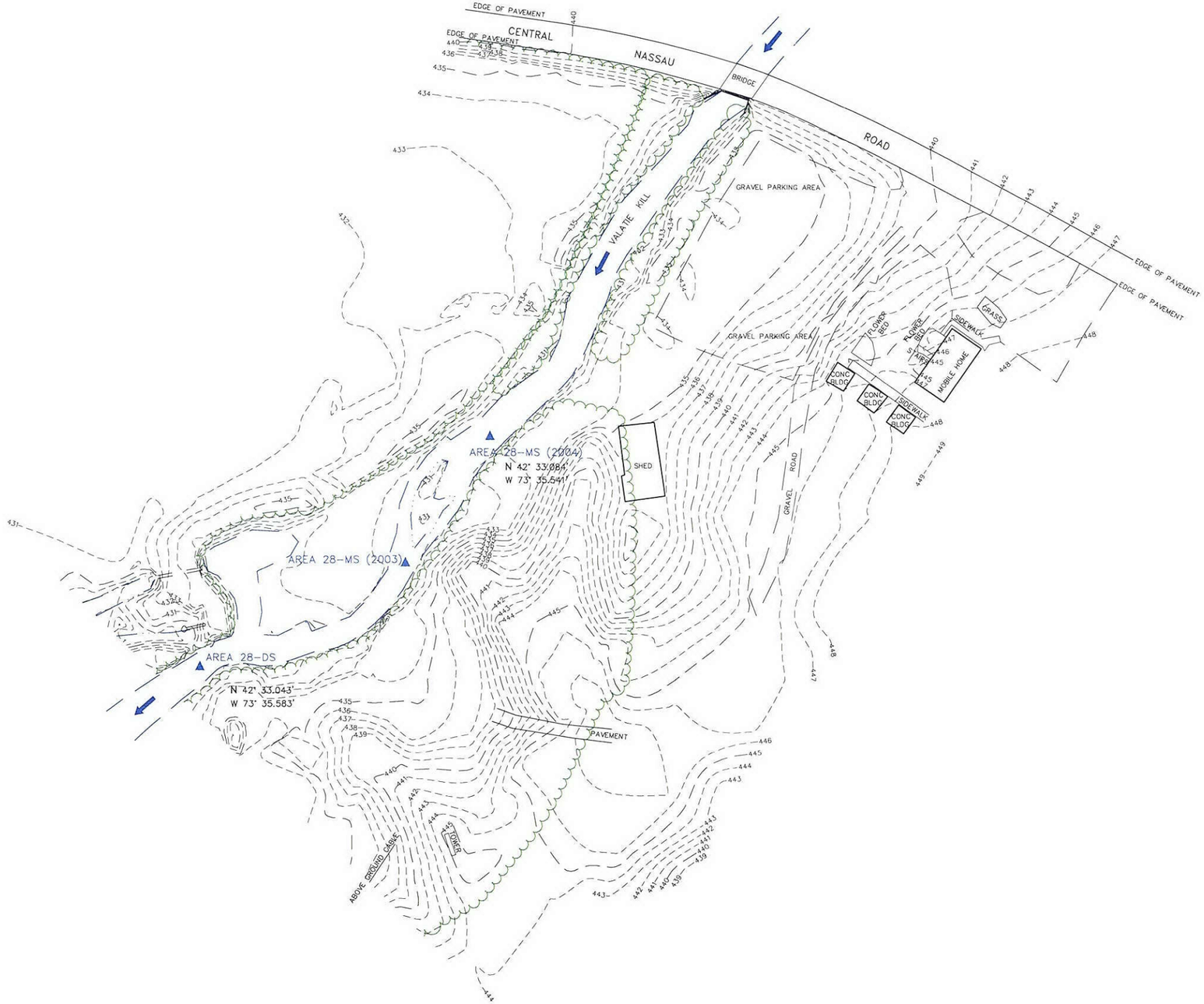
FIGURE
3



LEGEND:

- EDGE OF WATER (DASHED WHERE APPROXIMATED)
- DIRECTION OF FLOW
- 432 INTERMEDIATE ELEVATION CONTOUR
- 430 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

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POST-REMEDIAL MONITORING

AREA 28 MIDSTREAM AND DOWNSTREAM SURFACE WATER AND SUSPENDED SEDIMENT SAMPLING LOCATIONS - 2004

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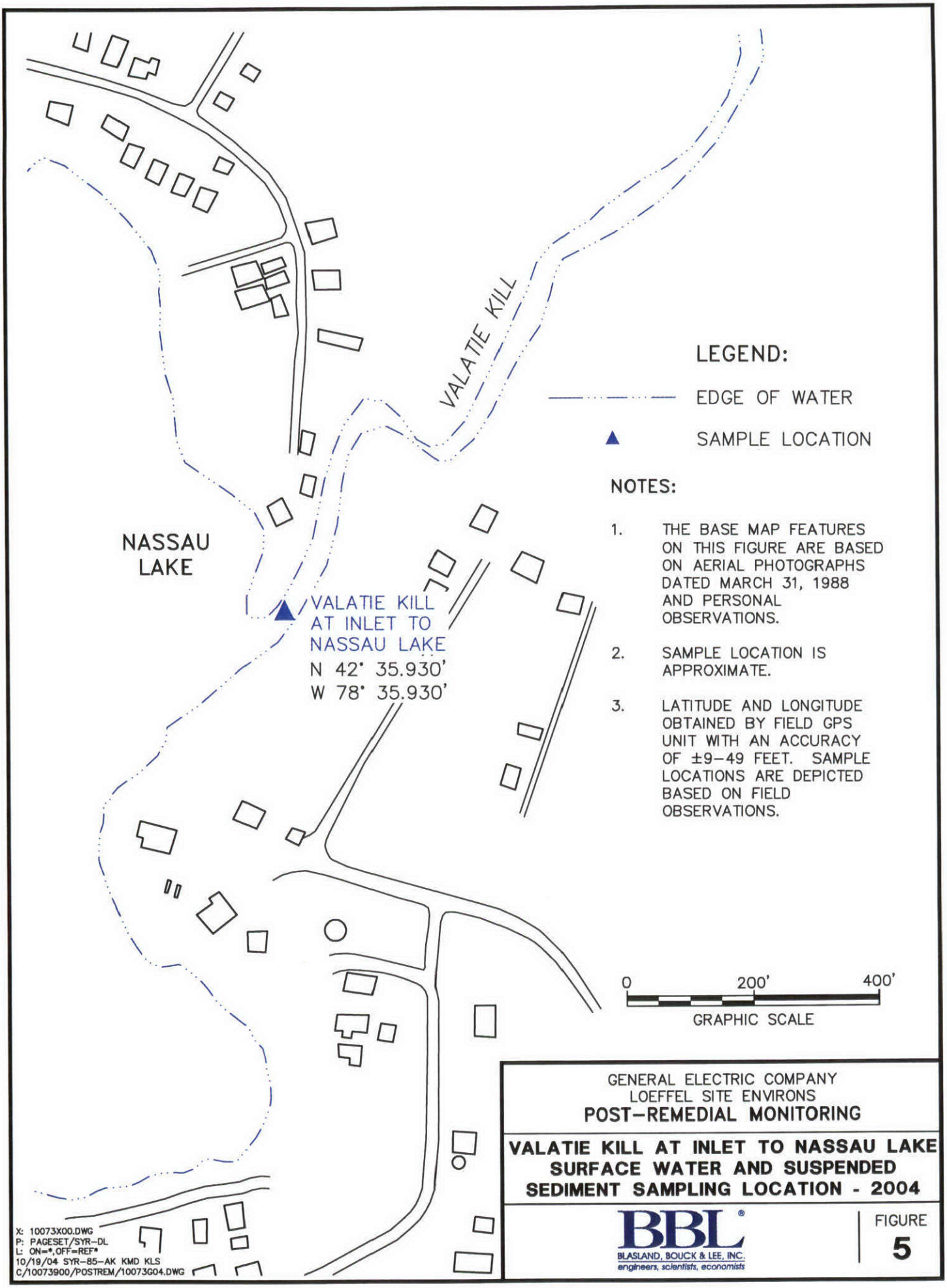
FIGURE 4

X: 10073X00.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL
10/19/04 SYR-54-LJP KMD KLS
C/10073900/POSTREM/10073G03.DWG



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POST-REMEDIAL MONITORING

VALATIE KILL AT INLET TO NASSAU LAKE SURFACE WATER AND SUSPENDED SEDIMENT SAMPLING LOCATION - 2004

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FIGURE 5

Figure 6

USGS 01360640 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	**Output formats** HTML table of all data Tab-separated data Reselect output format

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			
Mean of monthly streamflows	15.3	12.1	28.4	27.9	15.6	11.2	4.24	5.74	4.47	6.89	12.9	16.4

http://nwis.waterdata.usgs.gov/nwis/monthly/?site_no=01360640

Work Activity	2004		2005											
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004 Biota Processing and Analysis														
2004 Biota Data Validation, Analysis, and Reporting[1]														
Biota Collection														
- Adult														
- YoY														
- Data Analysis, Validation and Reporting														
SW/SS Sampling														
- Snowmelt														
- High-Flow Event														
- Base-Flow Event														
SW/SS Data Analysis Validation, and Reporting														

NOTES:

1. 2004 Biota analytical data may be used to refine the 2005 biota monitoring scope, as warranted.

2. The schedule proposed may be modified with GE and NYSDEC agreement, based on field conditions, weather or other unforeseen factors.

GENERAL ELECTRIC COMPANY
LOEFFEL SITE ENVIRONS
POST-REMEDIAL MONITORING

LOEFFEL SITE ENVIRONS - OU-3
PROPOSED 2004/2005 LONG-TERM MONITORING SCHEDULE

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FIGURE 7

10/15/04 SYR-D85-DJH
C/10073900/10073j01.cr

Attachment A

Hand Delivered

October 18, 2004

James N. Ludlam, P.E.
NYSDEC
Department of Environmental Remediation
625 Broadway
12th Floor
Albany, NY 12233-7016

Re: Pre- and Post-Construction Surface Water Sampling Results - T11A and Area 28
Compilation of Environs Surface Water Data and
2004 Suspended Sediment and Surface Water Sampling Plan
Loeffel Site Environs, Nassau, New York
BBL Project #: 100.73

Dear Jim:

On behalf of the General Electric Company (GE), this letter presents the results of pre- and post-construction surface water sampling conducted at Area 28 and T11A. Additionally, a summary of all surface water data collected from the Environs to date is included. Finally, this letter provides the plan for 2004 suspended sediment and surface water sampling.

The sampling results presented in the summary were generated in support of:

1. The Environs Remedial Investigation/Feasibility Study (RI/FS) for Operable Unit 3 (OU-3);
2. The OU-3 remedial actions as presented in the January 2002 Record of Decision (ROD); and
3. The July 2002 Proposed Long Term Monitoring Plan (LTMP) submitted by GE.

Surface water samples were collected to assess potential transport of polychlorinated biphenyls (PCBs) in the OU-3 drainageway before and after the Remedial Actions (RAs) and to provide baseline information to support the LTMP.

The remainder of this attachment describes:
1. The recent surface water sampling conducted during base-flow and storm-event conditions at T11A and Area 28;
2. Comparison of Method Detection Limit (MDL) studies conducted by two laboratories during the project (i.e., from 1992 to the present);
3. Field data and PCB analytical results; and
4. The 2004 Suspended Sediment and Surface Water Sampling Plan.

Sampling Activities - Background

The RI included surface water sampling during 10 events between October 1992 and December 1993. During these events, over 150 samples were collected for PCB analysis. Up to 15 locations were sampled per event. The sampling events were conducted under a variety of flow conditions (i.e., base-flow, snowmelt event, and rainfall event). RI sampling was conducted in accordance with the 1992 Sampling and Analysis Plan, and all results were summarized in the April 1995 Phase I Report.

The RI data were used to support the Feasibility Study, which recommended a remedy for the OU-3 portion of the Environs and was submitted to the New York State Department of Environmental Conservation (NYSDEC) in June 1999.

The requirements of a ROD issued in January 2002 for OU-3 included remedial actions at three upstream parts of the OU-3 drainageway (Mead Pond, T11A and Area 28), and continued monitoring of the effectiveness of these RAs.

In response to the ROD, Remedial Action Work Plans (RAWPs) for T11A and Area 28, as well as the LTMP, were submitted to NYSDEC in July 2002[1]. NYSDEC's approval letters issued for each RAWP required pre- and post-construction water sampling. The pre-construction surface water sampling for the T11A RA was conducted on October 16, 2002 in accordance with the LTMP and the results were reported in the October 30, 2002 OU-3 Monthly Progress Report[2]. The T11A RA post-construction and Area 28 pre-construction sampling, described below, were also conducted in general accordance with the LTMP and the Pre- and Post-Construction Surface Water Sampling Protocol for Area 28, submitted to the NYSDEC on February 18, 2003 and subsequently approved.

Post-Construction Sampling Activities – T11A

Base-flow surface water sampling was conducted at T11A on June 12, 2003. An additional base-flow surface water sample was collected at T11A on August 8, 2003. Storm-event surface water samples were collected on August 22, 2003 at T11A.

The base-flow and high-flow samples were collected from three locations at T11A where pre-construction surface water samples had been collected in October 2002: 1) at the eastern culvert at the beginning of the Northwest Drainage Ditch (Sample ID T11A-US), 2) in the upstream waters of T11A at the former Mead Road Pond outlet (Sample ID T11A-MS), and 3) in the downstream waters of T11A approximately 3 feet upstream of the confluence between T11A and the Valatie Kill (Sample ID T11A-DS). These three locations are depicted on Figures 1 through 3, respectively.

A total of 16 unfiltered surface water samples (including one duplicate) were collected at the three sampling locations during the sampling events using precleaned, 1-liter glass laboratory containers. Fourteen of these samples were retained for analysis, as described below.

Base-flow conditions were assessed by observing the flow conditions at the United States Geological Survey (USGS) gaging station on the Valatie Kill. As the observed flow of 8.9 cubic feet per second (cfs) was near June's median flow (2 cfs) for the years of 1991 through 2001 and below the mean flow for June 2003 (9.8 cfs) (see Figure A-2 in Attachment A), the base-flow samples at T11A were collected on June

[1] Mead Road Pond was remediated as an interim remedial measure prior to the ROD issuance.
[2] The date from this event is included on Table 3.

12, 2003. An additional downstream base-flow sample was collected at T11A on August 8, 2003 to confirm the initial downstream analytical result, as discussed below.

During high-flow sampling, one sample was collected from each location (i.e., US, MS, and DS) during the rising, peak, and falling hydrograph conditions (10 total samples, including a duplicate sample). All of the collected samples were analyzed. The rising, peak, and falling conditions were determined by observations of stream flow at a weir that was constructed at the former Mead Road Pond outlet (depicted on Figure 2 and detailed on Figure A-1), as further described in Attachment A. The August 22, 2003 storm hydrograph at the T11A weir and the USGS hydrograph at stream gaging station 01360640 on the Valatie Kill are presented in Attachment A (Figure A-4).

In addition to collecting grab samples, water quality parameters were measured using a pre-calibrated Horiba U-22 XD. Water quality measurements included pH, temperature, dissolved oxygen (DO), specific conductivity, turbidity, oxidation-reduction potential (ORP), and total dissolved solids (TDS), and were collected during the base-flow sampling event and during the storm sampling event. Post-RI water quality data for T11A is presented in Table 1.

PCB Analytical Results – T11A

Each surface water grab sample designated for analysis was submitted to Adirondack Environmental Services, Inc. (AES) of Albany, New York for PCB analysis using United States Environmental Protection Agency (USEPA) Method 608. The analytical data were validated by Blasland, Bouck & Lee, Inc. (BBL). The results are presented in Table 1.

Of the 14 samples (including one duplicate) from T11A that were analyzed, six samples had reported PCB concentrations greater than the 0.065 micrograms per liter (µg/L) practical quantitation limit (PQL), five had reported estimated concentrations less than the PQL, and PCBs were not detected in three samples (Table 1). All of the detections above the PQL (six samples) were at the sample location in the downstream portion of T11A (DS), while three of the estimated values were reported for the upstream location (US) and two of the estimated values were reported for the headwaters of T11A (MS). Of these detections, both downstream base-flow samples exhibited similar PCB concentrations (0.14 µg/L and 0.16 µg/L).

The tables below present the post-construction data and the pre-construction data, as well as historical RI data, under high-flow conditions (all sample results presented from unfiltered samples). The tables also indicate samples that will be collected in the future.

T11A, UPSTREAM, HIGH-FLOW

Location	Date	Condition	Total PCB Result (ppb)*
MS (i.e., just upstream of T11A)	3/29/93	Pre-construction	0.081J
MS	4/26/93	Pre-construction	0.064J
MS	6/15/93	Pre-construction, rising	0.22J [0.24J]
MS	6/16/93	Pre-construction, peak	0.20J
MS	6/16/93	Pre-construction, falling	0.26J
MS	11/2/93	Pre-construction	0.11 [0.12]
MS	11/17/93	Pre-construction, rising	0.075J [0.083J]
MS	11/18/93	Pre-construction, peak	0.071J [0.083J]
MS	11/18/93	Pre-construction, falling	0.076J [0.083J]
MEAD ROAD POND IRM COMPLETED (2001)			
MS	10/16/02	Pre-construction, rising	ND (0.068) [ND (0.068)]
MS	10/16/02	Pre-construction, peak	ND (0.072)
MS	10/16/02	Pre-construction, falling	ND (0.069)
T11A RA COMPLETED (2002/2003)			
MS	8/22/03	Post-construction, rising	0.060J
MS	8/22/03	Post-construction, peak	0.044J
MS	8/22/03	Post-construction, falling	ND (0.065)

*Of the approximate 150 samples collected during the RI, two samples had PCB estimated/quantified as Aroclor 1248. All other samples had PCB quantified as Aroclor 1260.

T11A, DOWNSTREAM, HIGH-FLOW

Location	Date	Flow Condition	Total PCB Result (ppb)
DS (Valatie Kill at Mead Road, downstream of T11A or inlet of T11A to Valatie Kill)	3/29/93	Pre-construction	ND (0.090) [ND (0.090)]
DS	4/26/93	Pre-construction	ND (0.090) [ND (0.090)]
DS	6/15/93	Pre-construction, rising	0.022J
DS	6/16/93	Pre-construction, peak	0.025J [0.023J)
DS	6/16/93	Pre-construction, falling	ND (0.090)
DS	11/2/93	Pre-construction	ND (0.090)
DS	11/17/93	Pre-construction, rising	0.037J
DS	11/18/93	Pre-construction, peak	0.027J
DS	11/18/93	Pre-construction, falling	ND (0.090)
MEAD ROAD POND IRM COMPLETED (2001)			
DS (mouth of T11A at Valatie Kill)	10/16/02	Pre-construction, rising	0.22
DS	10/16/02	Pre-construction, peak	0.37
DS	10/16/02	Pre-construction, falling	0.36
T11A RA COMPLETED (2002/2003)			
DS	8/22/03	Post-construction, rising	0.73
DS	8/22/03	Post-construction, peak	1.9 [1.6]
DS	8/22/03	Post-construction, falling	0.15
DS	2004 (long term monitoring)	Post-construction	Proposed
DS	2005 (long term monitoring)	Post-construction	TBD
DS	2006 (long term monitoring)	Post-construction	TBD
DS	2007 (long term monitoring)	Post-construction	TBD

Similarly, the table below presents a summary of the post-construction and pre-construction/RI data under base-flow conditions.

T11A, UPSTREAM, BASE-FLOW

Location	Date	Condition	Total PCB Result (ppb)
MS (i.e., just upstream of T11A)	10/16/92	Pre-construction	0.12 [0.12]
MS	5/12/93	Pre-construction	0.13 [0.12]
MS	12/28/93	Pre-construction	0.09J [0.095J]
MEAD ROAD POND IRM COMPLETED (2001)			
MS	10/16/02	Pre-construction	0.091
T11A RA COMPLETED (2002/2003)			
MS	6/12/03	Post-construction	ND (0.065)

T11A, DOWNSTREAM, BASE-FLOW

Location	Date	Condition	Total PCB Result (ppb)
DS (Valatie Kill at Mead Road or Inlet of T11A to Valatie Kill)	10/14/92	Pre-construction	ND (0.090)
DS	5/12/93	Pre-construction	ND (0.090)
DS	8/30/93	Pre-construction	ND (0.090)
DS	12/28/93	Pre-construction	ND (0.090)
MEAD ROAD POND IRM COMPLETED (2001)			
DS (Inlet of T11A to Valatie Kill)	10/16/02	Pre-construction	0.060J
T11A RA COMPLETED (2002/2003)			
DS	6/12/03	Post-construction	0.14
DS	8/8/03	Post-construction	0.16
DS	2004 (long term monitoring)	Post-construction	Proposed
DS	2005 (long term monitoring)	Post-construction	TBD
DS	2006 (long term monitoring)	Post-construction	TBD
DS	2007 (long term monitoring)	Post-construction	TBD

The validated laboratory analytical results and chain-of-custody records are presented in Attachments C and D, respectively.

A comprehensive tabulation of surface water sampling results for the Loeffel Site Environs is presented in Table 3.

Pre-construction Sampling Activities – Area 28

Base-flow surface water sampling at Area 28 was conducted concurrently with the T11A base-flow sampling on June 12, 2003. Storm-event sampling was conducted on August 11 through August 13, 2003.

Surface water samples were collected from three locations at Area 28 during base and high-flow conditions. At Area 28, the three sampling points were located at the permanent staff gage for the USGS stream gage station 01360640 (Sample ID Area 28-US), approximately 10 feet downstream of the gravel bar in the Valatie Kill in the approximate middle of Area 28 (Sample ID Area 28-MS), and the downstream boundary of Area 28 (Sample ID Area 28-DS). These three locations are depicted on Figures 4 and 5.

A total of 24 unfiltered surface water samples (including one duplicate) were collected at the three sampling locations during the sampling events using precleaned, 1-liter glass laboratory containers. Thirteen samples were retained for analysis, as described below.

To represent base-flow conditions, one sample was collected from each location during base-flow conditions. Similar to the base-flow sampling at T11A described previously, base-flow conditions were verified at the USGS gaging station prior to sampling (see Figure B-2 in Attachment B).

To represent high-flow conditions at Area 28, a total of 21 samples were collected during the various hydrograph conditions. One sample from each location during the rising, peak, and falling portions of the hydrograph was analyzed (ten samples including one duplicate). Each segment of the hydrograph was recorded by observing stream flow conditions at the USGS stream gage station on the Valatie Kill. The hydrographs (observed and USGS data) of the August 11, 2003 through August 13, 2003 storm are presented in Attachment B.

Similar to the sampling events conducted at T11A, water quality parameters were measured using a pre-calibrated Horiba U-22 XD. Water quality measurements included pH, temperature, DO, specific conductivity, turbidity, ORP, and TDS, and were collected during the base-flow sampling event at Area 28. The meter did not function properly during a portion of the storm-event sampling. Post-RI water quality data generated during the Area 28 sampling is presented in Table 2.

PCB Analytical Results – Area 28

Each surface water grab sample designated for analysis was submitted to AES of Albany, New York for PCB analysis using USEPA Method 608. The analytical data were validated by BBL. The results are presented in Table 2.

Of the 13 samples (including one duplicate) analyzed from Area 28, no samples exhibited PCB concentrations greater than the 0.065 ug/L PQL, ten samples resulted in estimated values below the PQL and PCBs were not detected in three of the samples (Table 2).

Similar to the data summary tables presented regarding the T11A analytical results, the table below presents pre-construction, high-flow data.

AREA 28, UPSTREAM, HIGH-FLOW

Location	Date	Condition	Total PCB Result (ppb)
US (near USGS gaging station)	6/16/93	Pre-construction, rising	ND (0.090)
US	11/18/93	Pre-construction, rising	0.082J
MEAD ROAD POND IRM AND T11A RA COMPLETED (2001 – 2002/2003)			
US	8/11/03	Pre-construction, rising	0.032J
US	8/12/03	Pre-construction, peak	0.064J
US	8/13/03	Pre-construction, falling	0.025J
US	2004 (long term monitoring)	Post-construction	Proposed
US	2005 (long term monitoring)	Post-construction	TBD
US	2006 (long term monitoring)	Post-construction	TBD
US	2007 (long term monitoring)	Post-construction	TBD

AREA 28, DOWNSTREAM, HIGH-FLOW

Location	Date	Condition	Total PCB Result (ppb)
MEAD ROAD POND IRM AND T11A RA COMPLETED (2001 – 2002/2003)			
DS (at Area 28 outlet*)	8/11/03	Pre-construction, rising	0.023J
DS	8/12/03	Pre-construction, peak	0.061J
DS	8/13/03	Pre-construction, falling	0.030J [0.024J]
DS	2004 (long term monitoring)	Post-construction	Proposed
DS	2005 (long term monitoring)	Post-construction	TBD
DS	2006 (long term monitoring)	Post-construction	TBD
DS	2007 (long term monitoring)	Post-construction	TBD

*No samples were collected immediately downstream of Area 28 during the RI.

The table below presents the pre-construction sample data collected under base-flow conditions.

AREA 28, UPSTREAM AND DOWNSTREAM, BASE-FLOW

Location	Date	Condition	Total PCB Result (ppb)
MEAD ROAD POND IRM AND T11A RA COMPLETED (2001 – 2002/2003)			
US (near USGS gaging station)*	6/12/03	Pre-construction, base-flow	ND (0.065)
DS (at Area 28 outlet)*	6/12/03	Pre-construction, base-flow	ND (0.065)
US	2004 (long term monitoring)	Post-construction	Proposed
US	2005 (long term monitoring)	Post-construction	TBD
US	2006 (long term monitoring)	Post-construction	TBD
US	2007 (long term monitoring)	Post-construction	TBD

*No base-flow samples were collected around Area 28 during the RI.

The validated laboratory analytical results and chain-of-custody records are presented in Attachments C and D, respectively.

MDL Study - RI

To support RI-related surface water analyses, and in accordance with the RI QAPP, an MDL study was conducted by Aquatec, Inc. of Colchester, Vermont. Using site-specific water collected from the Valatie Kill just upstream of Nassau Lake, the study resulted in an MDL of 0.022 ug/L for Aroclor 1260. This MDL was used for the remaining Aroclors. The PQL was determined to be 0.090 ug/L.

MDL Study - 2003

On August 5, 2003 an approximate 3-gallon grab sample was collected from the outlet of Area 28 to refine the MDL for use in pre- and post-construction sampling as well as long-term monitoring to be conducted in the future. This sample was analyzed on August 6, 2003 to determine detection limits for Aroclors 1016 and 1260 by AES in accordance with 40 CFR Part 136, Appendix B. The resulting MDLs for instrument ECD-D were calculated as 0.011 µg/L and 0.013 µg/L for Aroclors 1016 and 1260, respectively. The PQL used by AES is 0.065 ug/L. The laboratory analytical results of the 2003 MDL study are presented in Attachment E.

The table below presents a summary of MDL and PQL values used for surface water samples collected and to be collected at OU-3.

Action	Duration	PQL (ug/L)	MDL (ug/L)
RI	1992 - 1993	0.090	0.022
RA	2002 - 2004	0.065	0.011 to 0.013
LTMP	2004 +	$\leq$ 0.065	$\leq$ 0.013

2004 Suspended Sediment and Surface Water Sampling Plan

The Suspended Sediment and Surface Water Sampling Plan for 2004 is a combination of components from:

- the 2002 LTMP scope;
- the remaining RA-related pre-and post-construction scope; and
- the requested modification to the 2002 LTMP (i.e., the additional sample location described in the letter to which this document is Attachment A).

Sample Locations and Quantities

Suspended sediment and surface water sampling will be conducted at five locations in 2004:

- In T11A immediately upstream of its confluence with the Valatie Kill (NYSDEC 2004 request);
- Immediately upstream of Area 28 in the Valatie Kill (RA-related);
- Within Area 28 in the Valatie Kill (RA-related);
- Immediately downstream of Area 28 in the Valatie Kill (RA-related); and
- At the inlet to Nassau Lake in the Valatie Kill (LTMP).

The sample at the Valatie Kill inlet to Nassau Lake will be approximately at the location used in the RI in 1994. The Area 28 locations will be those used during the pre-construction sampling effort. The T11A location will be that used as the downstream location during the pre- and post-construction sampling efforts.

During the high-flow event (described below), 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 15 surface water and 15 suspended sediment samples (not including QA/QC samples) will be collected during the high-flow event.

One sample per location will be collected during the base-flow event (described below) for a total of 5 surface water and 5 suspended sediment samples (not including QA/QC samples).

Schedule

Suspended sediment and surface water sampling will be conducted in 2004 in general accordance with the schedule presented in the LTMP. The high-flow sampling will be conducted during a summer or fall rainfall event, and a base-flow sampling event will be conducted in late spring or summer. High- and base-flow conditions will be defined per the Area 28 protocol. Both suspended sediment and surface water sampling will be conducted simultaneously during the events described above.

An effort will be made (subject to flow conditions and similar to the most recent surface water sampling events) to conduct the base-flow sampling immediately prior to an expected high-flow event.

Methods and Analyses

The 2004 suspended sediment and surface water sampling will be conducted in accordance with the methods presented in:

- the NYSDEC-approved February 18, 2003 letter from GE to NYSDEC titled "Revised Schedule, Pre- and Post-Construction Surface Sampling Protocol and Conceptual Access Road and Staging Area"(Area 28 protocol);
- the LTMP; and
- existing project documents such as the 1992 Sampling and Analysis Plan.

The analyses for the 2004 suspended sediment sampling are those parameters presented in the LTMP:

- Filtered solids: PCB Aroclors, Total Organic Carbon (laboratory); and
- Pre-filter surface water grab samples: Total Suspended Solids and chlorophyll *a* (laboratory); pH, temperature, specific conductivity, DO, turbidity and approximate flow rate (field).

All 2004 surface water samples will be analyzed for those parameters in the LTMP:

- Unfiltered PCB Aroclors (laboratory); and
- pH, temperature, specific conductivity, DO, turbidity and approximate flow rate (field).

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

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Mark P. Brown, Ph.D.
Senior Vice President

KDE/amm
Enclosures

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 Elenbaas, Blasland, Bouck & Lee, Inc.
Dr. Paul Krouner, Camp Schodack

Attachment B

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engineers, scientists, economists

CONFIDENTIAL SETTLEMENT COMMUNICATION
SUBMITTED FOR SETTLEMENT PURPOSES ONLY WITHOUT PREJUDICE

Transmitted Via Federal Express

February 18, 2003

Mr. James N. Ludlam, P.E.
New York State Department of
Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7016

Re: Revised Schedule, Pre- and Post-Construction Surface Water Sampling Protocol and
Conceptual Access Road and Staging Area
Area 28 Remedial Action
Loeffel Site Environs

Dear Mr. Ludlam:

As we discussed during our phone conversation on February 13, 2003, this letter provides, on behalf of the General Electric Company, information pertaining to the Area 28 Remedial Action (RA) planned for September 2003. Specifically, please find included:

- A revised schedule for the RA that has been updated to reflect adjustments due to continued unseasonably cold weather on certain elements of the RA design (Attachment 1);
- A proposed pre- and post-construction surface water sampling protocol, consistent with the July 2002 Long-Term Monitoring Plan, for sampling that will be conducted prior to and after the RA (Attachment 2); and
- A figure depicting the conceptual access road and staging area location including related preliminary design details for the pending Area 28 RA (Attachment 3).

Similar to the January 9, 2003 Response to the New York State Department of Environmental Conservation (NYSDEC) Comments of November 20, 2002, this letter is intended to amend and become part of the *Area 28 Remedial Action Work Plan* (RAWP).

General Comments Regarding Schedule for Remedial Action

GE understands that this correspondence and subsequent submittal of the Remedial Design Documents address the need to revise the previously submitted Area 28 RAWP. GE looks forward to working with the NYSDEC to complete the Area 28 remedy in the fall of 2003. Lastly, GE requests timely review of the information provided herein, to enable GE to initiate RA-related activities pursuant to the revised schedule included as Attachment 1.

If you should have any questions on this information, please call me at (315) 446-9120.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Christopher R. Torell
Sr. Project Engineer II

CRT/tld
Enclosures

cc: David A. Munro, Esq., Environmental Protection Bureau
Michael Komoroske, P.E., NYSDEC
Kevin Farrar, NYSDEC
John Sheehan, NYSDOH
Michael S. Elder, Esq., General Electric Company
Edward K. LaPoint, P.E., General Electric Company

Pre- and Post-Construction Surface Water Sampling Protocol: Area 28 – Loeffel Site Environs, Nassau, New York

This protocol describes the general scope and methods for pre- and post-construction surface water sampling to be conducted prior to and following the Area 28 Remedial Action (RA) planned for fall 2003. This protocol is based on the *July 2002 Long-Term Monitoring Plan* (LTMP) and has been prepared at the request of the New York State Department of Environmental Conservation (NYSDEC) and in response to its letter dated November 20, 2002, which provides comments on the *Area 28 Remedial Action Work Plan* (RAWP) dated June 2002.

This protocol was developed in consideration of: 1) pre-construction surface water sampling conducted at Tributary T11A (T11A) prior to remedial actions there in late 2002 (this sampling was reported to NYSDEC in the October 30, 2002, Operable Unit 3 [OU-3] Monthly Progress Report); and 2) surface water monitoring activities conducted during the remedial investigation (RI) for OU-3 conducted in the early 1990s. Activities conducted under this protocol will support the long-term monitoring requirements for OU-3.

In accordance with the LTMP and GE's January 15, 2003 Response to NYSDEC Comments letter, surface water sampling will be conducted prior to and following the Area 28 RA during baseflow and storm flow conditions. The following sections of this protocol provide the details of the monitoring scope and methods.

Definitions of Storm Flow and Baseflow

Storm flow and baseflow conditions for the Valatie Kill at Area 28 will be defined relatively consistent with the types of sampling described in the surface water investigation portion of the *Remedial Investigation Field Sampling Plan* (RI FSP), as well as the pre-construction sampling conducted at T11A in October 2002. This protocol will account for seasonal and annual climatic difference that may occur. Hydrologic data available from the United States Geological Survey (USGS) gaging station 01360640 located approximately 1,000 feet upstream of Area 28 was used in creating this protocol, and will be used during sampling events. Specifically, at the time of sampling, the stage based on the staff gage at the gaging station will be recorded. The stage discharge rating curve will be used to estimate instantaneous stream flow.

In the RI FSP, an adequate "rainfall event" was defined as a storm event of sufficient duration and intensity to mobilize particulate sediments. Based upon total suspended solids (TSS) data collected during the RI, TSS concentrations near the inlet to Nassau Lake indicated an increase in TSS at approximately 25 cubic feet per second (cfs). A threshold of 30 cfs at gage 01360640 (given the smaller basin size of Area 28) would provide a reasonable flow "trigger" for storm flow sampling. The trigger should also recognize the seasonality of the flows. During the spring period, sustained flow may keep the stream discharge at or near this trigger. A storm event during these periods would be characterized by a substantial increase in the pre-existing flow condition. Likewise, during the summer when flows of 1 cfs or lower are common, a suitable storm event with a significant increase in flow may have a peak flow less than 30 cfs.

Baseflow is also seasonally influenced. Figure 1 indicates the median flow by month (for the years of 1991 through 2001). Baseflow during the summer will likely be lower than other times of the year based upon historic data. These values serve as a guide for the type of conditions that may represent baseflow for differing times of the year. In determining if conditions are appropriate for baseflow sampling, antecedent precipitation (or snowmelt) is an important factor. A threshold of less than 0.1 inch of rainfall in the preceding 72 hours will be used. A period of snowmelt will also be excluded. Conditions will be field-checked by observations of the staff

gage at the gaging station. For baseflow conditions, flow should be steady or decreasing slightly. Observable wetness on the staff gage above current water level will indicate that the streamflow is decreasing rapidly.

Conditions for Area 28 will also be used to trigger associated sampling periods at T11A. The correlation of storm events at the two locations is illustrated on Figure 2. Due to the smaller basin size and therefore more rapid time of concentration for runoff, storm event sampling will occur at T11A prior to Area 28.

Sampling Locations and Methods

Samples will be collected from two locations at Area 28 – one upstream and one downstream (Figure 3). Grab samples will be collected from approximately midstream/mid-depth, and analyzed for unfiltered total polychlorinated biphenyls. One sample will be collected from each location under baseflow conditions, preceding the storm event. Samples from each location will also be collected during the rising, peak, and falling conditions of the storm event. A duplicate sample will be collected from the downstream location at peak flow. The staff at the stream gage upstream of Area 28 will be used for instantaneous flow measurements.

In addition to collecting grab samples, water quality will be measured during each sample collection at each location using a pre-calibrated Horiba U-22 XD or similar meter. Water quality measurements include:

- pH;
- Temperature;
- Dissolved oxygen;
- Specific conductivity;
- Turbidity;
- Oxidation-reduction potential; and
- Total dissolved solids.

Reporting and Schedule

The results of each sampling event will be reported in a similar format as the information provided in the October 30, 2002 Monthly Progress Report. These reports will be submitted to the NYSDEC within approximately 30 days of analytical data receipt.

The pre-construction sampling at Area 28 will likely be conducted at the same time as the post-construction sampling event at T11A. Efforts will be made to sample during a summer storm of requisite characteristics in 2003 that occurs during a period of established baseflow. Subsequently, the post-construction sampling at Area 28 will be scheduled for similar conditions in summer 2004. In each case, sampling personnel will be mobilized following a period of sustained baseflow, prior to a forecast of substantial rainfall in the OU-3 region.

Efforts will be made to conduct pre-construction sampling prior to inception of the Area 28 RA. However, this sampling effort will depend on appropriate weather conditions. Lastly, if the sampling crew encounters a change in predicted flow (e.g., a storm event occurs but does not result in adequate flows), the need for a subsequent sampling event will be assessed, with NYSDEC input.

Attachment C

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New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau D, 12th Floor
625 Broadway, Albany, New York 12233-7013
Phone: (518) 402-9814 • **FAX:** (518) 402-9819
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

MAR 30 2004

Mr. Edward K. LaPoint, P.E.
GE Corporate Environmental Programs
320 Great Oakes Office Park, Suite 323
Albany, New York 12203

RECEIVED - ALBANY

MAR 31 2004

GE CORPORATE
ENVIRONMENTAL PROGRAMS

RE: Loeffel Site OU3 (ID No. 442006)
Long-Term Monitoring Plan

Dear Mr. LaPoint:

The State has reviewed the Long-Term Monitoring Plan, Loeffel Site Environs, Operable Unit 3 (i.e., Plan), dated July 2002. The State requests that GE implement the monitoring plan for the 2004 sampling season with the following changes:

1) An additional sample collection location should be located in T11A above the confluence with the Valatie Kill. Suspended sediment and surface water sampling should occur at this location. Sediment and water sampling efforts should be initiated in spring, 2004 beginning with a high flow surface water event.

2) The DEC fish sampling program (see enclosed) should be performed instead of the GE fish monitoring effort proposed in the Plan. The two plans are similar except for the inclusion of additional fish sampling locations in the DEC Plan. Fish collection should occur during the summer of 2004.

   Data obtained from this post-remediation sampling event, together with historical data and the Department's data from 2000, 2001, and 2002 would be used to refine the fish monitoring locations to be used in the GE Long-Term Monitoring Plan. We expect that the number of fish necessary to be collected in future sampling efforts will decrease if post-remediation data supports the expected decrease in PCB fish concentrations.

Upon review of the fish, sediment and water data from the 2004 sampling season, the State and GE will discuss the finalization of the Long-Term Monitoring Plan for the Loeffel Site Environs. Issues related to the long-term operation and maintenance of the Nassau Lake dam may be addressed at that time as well.

ORIGINAL

GE is requested to initiate the sediment and PCB transport monitoring efforts, beginning with the high flow sampling; scheduling of this event needs to be coordinated with the Department. The DEC fish sampling plan should be implemented in summer 2004; sample collection will occur either by GE or the State. A response addressing this issue is needed by April 30, 2004.

If you have questions or need clarification, please contact me at 518-402-9813.

Sincerely,

James N. Ludlam, P.E.
Project Manager
Remedial Bureau D
Division of Environmental Remediation

Enclosures

cc: R. Sloan, DFW
D. Munro, AG
A. Belensz, AG

Attachment D

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DRAFT
PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
PREPARED AT THE REQUEST OF COUNSEL

Transmitted via Certified First Class Mail

April 21, 2004

James N. Ludlam, P.E.
NYSDEC
Department of Environmental Remediation
625 Broadway
12th Floor
Albany, NY 12233-7016

Re: Long Term Monitoring Plan
Response to NYSDEC Comment Letter dated March 30, 2004
Loeffel Site Environs, Operable Unit 3
NYSDEC Site ID No. 442006

Dear Jim:

We have received your letter dated March 30, 2004 which provides your comments on the Long Term Monitoring Plan (LTMP) submitted to the New York State Department of Environmental Conservation [NYSDEC]) by the General Electric Company (GE) in July, 2002. This letter provides GE's response (required on or before April 30, 2004) to your comment letter.

2004 Suspended Sediment and Surface Water Sampling Plan

Attachment 1 to this letter is the Pre- and Post-Construction Surface Water Sampling Results for T11A and Area 28 report, which includes a compilation of all surface water data collected to date. Also included in this attachment is the 2004 Suspended Sediment and Surface Water Sampling Plan. The plan is based on the scope of the ongoing post-construction surface water sampling program at Area 28 and the scope presented in the LTMP. The plan includes, at NYSDEC's request, the additional suspended sediment/surface water sampling location in T11A above its confluence with the Valatie Kill.

This plan can be summarized as 2004 suspended sediment and surface water sampling:

- at five locations (one at NYSDEC's requested location in T11A, three at Area 28 and one at the Valatie Kill inlet to Nassau Lake);
- for analysis of parameters presented in the LTMP; and
- once under base-flow conditions and during one high-flow rainfall event.

GE will implement this plan in 2004. The data generated during the 2004 sampling will be used to define future long term monitoring for suspended sediment and surface water, as stated in NYSDEC's March 30, 2004 comment letter.

Fish Sampling

GE would like to meet with NYSDEC to discuss the rationale for the expansion of the LTMP fish sampling scope described in the NYSDEC comment letter.

The LTMP proposed the collection of 115 samples from 4 locations for 2004. NYSDEC's comment letter expanded this scope by adding 5 locations and 120 samples for 2004. We would like to discuss NYSDEC's technical basis for this scope change, especially related to the applicability of the additional sampling for focused evaluations of long term trends of PCBs in biota.

GE is committed to and is confident that an agreement can be reached with NYSDEC regarding a technically sound scope of fish sampling for 2004, and we look forward to our discussions on the issue.

Sincerely,

Edward K. LaPoint, P.E.
Project Manager

CRT/crt

Attachment 1

cc: Michael Komoroske, P.E., NYSDEC
Alan Belensz, Environmental Protection Bureau
Russell Shaver, NYSDEC
Michael Elder, Esq., General Electric Company
Mark P. Brown, Ph.D., Blasland, Bouck & Lee, Inc.
J. Paul Doody, P.E., Blasland, Bouck & Lee, Inc.
Christopher Torell, P.G., Blasland, Bouck & Lee, Inc.
Kimberly Elenbaas, Blasland, Bouck & Lee, Inc.
Dr. Paul Krouner, Camp Schodack

Attachment E

Chain of Custody Records

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ID#: 1411

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #: [redacted]

Send Results to:

Contact & Company Name: Chris Tovell / BBL	Telephone: 315-446-9120
Address: 6723 Towpath Bx 66	Fax: 315-445-9151
City: Syracuse State: NY Zip: 13214	e-mail address:
Proj. Name/Location (City/State): Moffett Nassau - NY	Project #:
Sampler's Printed Name: Kim Elmbaas	Sampler's Signature:

Preservative
Filtered (✓)
# of Containers
Container Information

PARAMETER ANALYSIS & METHOD

Key:
Preservation Key: A-HCl, B-H2SO4, C-HNO3, D-NaOH, E-Ascorbic, F-Other, G-Other, H-Other
Container Information Key: A-250 mL Plastic, B-500 mL Plastic, C-1 L Plastic, D-2 L Plastic, E-Other, F-40 mL Glass, G-125 mL Glass, H-250 mL Glass, I-500 mL Glass, J-1 L Glass, K-Other
Matrix Key: SO-Soil, W-Water, SE-Sediment, SL-Sludge, NAPL-Oil, SW-Surface Water, A-Air, Other

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	PCB	TSS	TOC	PCB/TOC	REMARKS
T11A-D-01	8/4/04	7:00PM		✓	W	1	1	1		
A28-D-01	8/4/04	8:20PM		✓	W	1	1	1		
A28-U-01	8/4/04	9:20PM		✓	W	1	1	1		
A28-M-01	8/4/04	8:35PM		✓	W	1	1	1		
NL/VK-U-01	8/4/04	8:00PM		✓	W	1	1	1		
NL/VK-U-01 MS	8/4/04	8:00PM		✓	W	1	1	1		
NL/VK-U-01 MSD	8/4/04	8:00PM		✓	W	1	1	1		
T11A-D-01-A	8/4/04	7:00PM		✓	SS				1	1660
A28-D-01-A	8/4/04	8:20PM		✓	SS				1	1661
A28-U-01-A	8/4/04	9:20PM		✓	SS				1	1658
A28-M-01-A	8/4/04	8:35PM		✓	SS				1	1662
NL/VK-U-01-A	8/4/04	8:00PM		✓	SS				1	1659
DUP-1	8/4/04	—		✓	W	1	1	1		

Special Instructions/Comments:
SS = suspended sediments PCB & TOC from one filter

☑ **Special QA/QC Instructions (✓):** PCB wak MDL < 0.013 µg/L

Laboratory Information and Receipt

Lab Name: Adirondack Environmental Services	Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact
☑ Cooler packed with ice (✓)	Sample Receipt Condition/Cooler Temp:
Specify Turnaround Requirements:	
Shipping Tracking #:	

Relinquished By	Received By	Relinquished By	Laboratory Received By
Printed Name: Kimberly Elmbaas	Printed Name:	Printed Name:	Printed Name: DINA Ariel
Signature:	Signature:	Signature:	Signature:
Firm: BBL	Firm/Courier:	Firm/Courier:	Firm: AES
Date/Time: 8/5/04 11:29	Date/Time:	Date/Time:	Date/Time: 8/5/04 1129

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ID#: 1412

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Laboratory Work Order #:

Send Results to:

Contact & Company Name: Chris Torell / BBL	Telephone: 315-446-9120
Address: 6723 Towpath	Fax: 315-445-9151
City: Syracuse State: NY Zip: 13214	e-mail address:
Proj. Name/Location (City/State): Carrier Nassau NY	Project #:
Sampler's Printed Name: Kim Elenbaas	Sampler's Signature:

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	Preservative	Filtered (✓)	# of Containers	Container Information	PARAMETER ANALYSIS & METHOD: PCB	REMARKS
RB-1	8/5/04	8:30AM			N			1		1	

Preservation Key: A=HCl B=NaOH C=HNO3 D=NaOH E=H2SO4 F=Other G=Other

Container Information Key: 1=1 Liter 2=500 mL 3=250 mL 4=125 mL 5=Other

Matrix Key: SO=Soil SE=Sediment SW=Surface Water GW=Groundwater WW=Wastewater SL=Sludge O=Other

Special Instructions/Comments:

☐ **Special QA/QC Instructions (✓):**

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Adirondack Environmental Services	Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact	Printed Name: Kimberly Elenbaas	Printed Name:	Printed Name:	Printed Name: DINA Arel
☒ Cooler packed with ice (✓)		Signature:	Signature:	Signature:	Signature:
Specify Turnaround Requirements:	Sample Receipt Condition/Cooler Temp:	Firm: BBL	Firm/Courier:	Firm/Courier:	Firm: AES
Shipping Tracking #:		Date/Time: 8/5/04 11:29AM	Date/Time:	Date/Time:	Date/Time: 8/5/04 1129

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CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

[redacted]

Send Results to:		
Contact & Company Name: Christovell / BBL	Telephone: 315-446-9120	
Address: 6723 Tawpath Box 66	Fax: 315-445-9151	
City: Syracuse State: NY Zip: 13214	e-mail address:	
Proj. Name/Location (City/State): Coeffer - Nassau NY	Project #:	
Sampler's Printed Name: Kim Elenbaas	Sampler's Signature:	

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	Preservative	Filtered (Y/N)	# of Containers	Container Information	CVOA	REMARKS
T11A-D-01	8/4/04	7:00PM		✓	W						
A28-D-01	8/4/04	8:20PM		✓	W						
A28-U-01	8/4/04	9:20PM		✓	W						
A28-M-01	8/4/04	8:35PM		✓	W						
NL/VK-U-01	8/4/04	8:00PM		✓	W						

PARAMETER ANALYSIS & METHOD

Key: Preservation Key: Container Information Key: Matrix Key: SO-Soil, SE-Sediment, W-Water, SW-Surface Water, DW-Drinking Water, A-Air, O-Other

Special Instructions/Comments:

☐ Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Northeast Analytical	Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact	Printed Name: Kimberly Elenbaas	Printed Name:	Printed Name:	Printed Name:
Cooler packed with ice (✓)		Signature:	Signature: Evan Cichy	Signature:	Signature:
Specify Turnaround Requirements:	Sample Receipt Condition/Cooler Temp:	Firm: BBL	Firm/Courier: NEA	Firm/Courier:	Firm:
Shipping Tracking #:		Date/Time: 8/5/04 1:10 PM	Date/Time: 8/5/04 1310	Date/Time:	Date/Time:

20730826 CofC AR Form 05/12/2004

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CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 3

Lab Work Order #:

Send Results to:

Contact & Company Name: Chris Torell / BBL
Telephone: 315-446-9120
Address: 6723 Towpath Rd. Box 66
Fax: 315-445-9151
City: Syracuse State: NY Zip: 13214
e-mail address:
Proj. Name/Location (City/State): Wolfert Nassau, NY
Project #:
Sampler's Printed Name: Christine Costello Matt DeGraaf Mark Hendry Doug Cram
Sampler's Signature:

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	PCB	TSS	TOC	PCB/TOC	REMARKS
T11A-DS-02	8/30/04	11:10p		✓	W	1	1	1		
A28-DS-02	8/31/04	1:06A		✓	W	1	1	1		
A28-MS-02	8/31/04	1:50A		✓	W	1	1	1		
VK/NL-DS-02	8/31/04	1:05A		✓	W	1	1	1		
A28-US-02	8/31/04	1:55A		✓	W	1	1	1		
A28-DS-02-A	8/31/04	1:06A		✓	SS				1	filter # 1663 Dry weight = 1.3336 g
A28-US-02-A	8/31/04	1:55A		✓	SS				1	filter # 1660 Dry weight = 1.2769 g
A28-US-02-B	8/31/04	1:55A		✓	SS				1	filter # 1667 Dry weight = 1.2706 g
A28-MS-02-A	8/31/04	1:58A		✓	SS				1	filter # 1669 Dry weight = 1.2730 g
T11A-DS-02-A	8/31/04	11:10p		✓	SS				1	filter # 1664 Dry weight = 1.3208 g
T11A-DS-02-B	8/31/04	11:10p		✓	SS				1	filter # 1666 Dry weight = 1.3174 g
VK/NL-DS-02-A	8/31/04	1:05A		✓	SS				1	filter # 1665 Dry weight = NA
VK/NL-DS-02-B	8/31/04	1:05A		✓	SS				1	filter # 1935 Dry weight = NA

Preservative:
Filtered (✓):
# of Containers:
Container Information:

PARAMETER ANALYSIS & METHOD

Keys:

Preservation Key: A: H2SO4 B: HCL C: HNO3 D: NaOH E: None F: Other: G: Other: H: Other:

Container Information Key: 1: 40 ml Vial 2: 1 L Amber 3: 500 ml Plastic 4: 250 ml Glass 5: 1 L Glass 6: 125 ml Glass 7: 500 ml Amber 8: Other: 9: Other: 10: Other:

Matrix Key: SO: Soil SE: Sediment NL: NAPL/Oil W: Water SL: Sludge SW: Sample Wipe T: Tissue A: Air O: Other

Special Instructions/Comments:

SS- Suspended Sediments PCB & TOC from one filter

☒ **Special QA/QC Instructions (✓):**

PCB Water, MDL < 0.013 ug/L

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Adirondack Environmental	Cooler Custody Seal (✓)	Printed Name: Mark A. Hendry	Printed Name:	Printed Name:	Printed Name: DINA Ariel
☑ Cooler packed with ice (✓)	☒ Intact ☐ Not Intact	Signature:	Signature:	Signature:	Signature: D. Ariel
Specify Turnaround Requirements:	Sample Receipt	Firm: BBL	Firm/Courier:	Firm/Courier:	Firm: AES
Shipping Tracking #:	Condition/Cooler Temp: 2°	Date/Time: 8/31/04 4 41	Date/Time:	Date/Time:	Date/Time: 8/31/04 441

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ID#: 1415

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #: [redacted]

Send Results to:

Contact & Company Name: Chris Driscoll / BBL
Telephone: 315-446-9120
Address: 6723 Tonpath Rd Box 66
Fax: 315-445-9151
City: Syracuse State: NY Zip: 13214
e-mail address:
Proj. Name/Location (City/State): Welch Rd Site NY
Project #:
Sampler's Printed Name: Christine Costello Matt Orlando Matt Hendry
Sampler's Signature: Christine Costello

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	PCB	TSS	TOC	CEC Plastic				REMARKS
Preservative													
Filtered (✓)													
# of Containers													
Container Information													
VK/NL-DS-02-MS-A	8/31/04	1:05A		✓	SS				1				filter # 1834
VK/NL-DS-02-MS-B	8/31/04	1:05A		✓	SS				1				filter # 1824
VK/NL-DS-02-MSD-A	8/31/04	1:05A		✓	SS				1				filter # 1823
A28-DS-02-MS	8/31/04	1:05A		✓	W			1					Matrix spike
A28-DS-02-MSD	8/31/04	1:05A		✓	W			1					MSD
A28-MS-02-MS	8/31/04	1:55A		✓	W	1		1 cc					MS
A28-MS-02-MSD	8/31/04	1:55A		✓	W	1		1 cc					MSD
DUP-1	8/31/04	1:05A		✓	W		1						
DUP-2	8/31/04	1:05A		✓	W			1					
~~DUP-3~~	~~8/31/04~~	~~1:05~~		~~✓~~	~~W~~	cc							
DUP-4	8/31/04	1:05A		✓	W	1							
TIIA-DS-03	8/31/04	10:39A		✓	W	1	1	1					
A28-DS-03	8/31/04	11:51A		✓	W	1	1	1					

Preservative Key: A: H2SO4 B: HCl C: HNO3 D: NaOH E: None F: Other: G: Other: H: Other:

Matrix Key: SO: Soil SE: Sediment NL: NAPL/Oil W: Water SL: Sludge SW: Sample Wipe T: Tissue A: Air Other:

Containers Information Key: 1: 40ml Vial 2: 1L Amber Glass 3: 1,250 ml Plastic 4: 500ml Plastic 5: Encore 6: 2 oz Glass 7: 4 oz Glass 8: 8 oz Glass 9: Other: 10: Other:

Special Instructions/Comments:
SS = suspended sediments PCB & TOC from one filter

☒ **Special QA/QC Instructions (✓):** PCB water, MDL ≤0.013 ng/L

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Adirondack Environmental	Cooler Custody Seal (✓) ☒ Intact ☐ Not Intact	Printed Name: Mark A. Hendry	Printed Name:	Printed Name:	Printed Name: DINA Arel
☒ Cooler packed with ice (✓)		Signature:	Signature:	Signature:	Signature:
Specify Turnaround Requirements:	Sample Receipt: Condition/Cooler Temp: 2°C	Firm: BBL	Firm/Courier:	Firm/Courier:	Firm: AES
Shipping Tracking #:		Date/Time: 8/31/04 4:45	Date/Time:	Date/Time:	Date/Time: 8/31/04 441

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ID#: 1416

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #:

Send Results to:

Contact & Company Name: Chris Torell / BBL	Telephone: 315-446-9120
Address: 6723 Townpath Rd. Box 66	Fax: 315-445-9151
City: Syracuse State: NY Zip: 13214	e-mail address:
Proj. Name/Location (City/State): Load 1 Nassau, NY	Project #:
Sampler's Printed Name: Christine Costello, Matt Heaney, Dan Hogan	Sampler's Signature:

Preservative
Filtered (✓)
# of Containers
Container Information

PARAMETER ANALYSIS & METHOD

Key:
Preservative Key: A- H2SO4, B- HCl, C- HNO3, D- NaOH, E- None, F- Other, G- Other, H- Other
Matrix Key: SO- Solid, SE- Sediment, W- Water, SL- Sludge, SW- Sample Wipe, T- Tissue, A- Air, O- Other

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	PCB	TSS	TOC	PCB/TOC	REMARKS
A28-MS-03	8/31/04	12:06P		✓	W	1	1	1		
VK/NL-DS-03	8/31/04	11:30A		✓	W	1	1	1		
~~VK/NL-B~~ CC.										
A28-US-03	8/31/04	12:12P		✓	W	1	1	1		
A28-MS-03-A	8/31/04	12:06P		✓	SS				1	Filter # 1804
711A-DS-03-A	8/31/04	10:39A		✓	SS				1	Filter # 1811
A28-DS-03-A	8/31/04	11:5A		✓	SS				1	Filter # 1822
A28-US-03-A	8/31/04	12:12P		✓	SS				1	Filter # 1825
VK/NL-DS-03-A	8/31/04	11:30A		✓	SS				1	Filter # 1826
VK/NL-DS-03-B	8/31/04	11:30A		✓	SS				1	filter # 1827
FEB-1	8/31/04				W	1				

Special Instructions/Comments:
SS- Suspended Sediment PCB & TOC from one filter

☐ Special QA/QC Instructions (✓): PCB water, MDL < 0.013 ug/L

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Adirondack Environmental	Cooler Custody Seals (✓): ☑ Intact ☐ Not Intact	Printed Name: Mark A. Heaney	Printed Name:	Printed Name:	Printed Name: DINA Ariel
☑ Cooler packed with ice (✓)		Signature: Mark A. Heaney	Signature:	Signature:	Signature: D. Ariel
Specify Turnaround Requirements:	Sample Receipt Condition/Cooler Temp: Ice	Firm: BBL	Firm/Courier:	Firm/Courier:	Firm: AES
Shipping Tracking #:		Date/Time: 8/31/04 9:42	Date/Time:	Date/Time:	Date/Time: 8/31/04 4:41

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CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #: [redacted]

Send Results to:

Contact & Company Name: Chris Torell / BBL	Telephone: 315-446-9120
Address: 6723 Tompath Rd Part 66	Fax: 315-445-9151
City: Syracuse State: NY Zip: 13214	e-mail address:
Proj. Name/Location (City/State): Coeymen Nassau NY	Project #:
Sampler's Printed Name: Christine Costello, Mark Headley, Dave Hesson	Sampler's Signature:

PARAMETER ANALYSIS & METHOD

Preservative
Filtered (✓)
# of Containers
Container Information

Chlorophyll a

Key:

Preservation Key: A. None; B. HCl; C. H2SO4; D. NaOH; E. Ascorbic Acid; F. Other; G. Other

Container Information Key: Volume; Type; Preservative

Matrix Key: SO - Soil; SE - Sediment; SW - Surface Water; SL - Sludge; GW - Groundwater; T - Tissue; A - Air; O - Other

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	Chlorophyll a	REMARKS
T11A-DS-02	8/30/04	11:10a		✓	W	1	
A28-DS-02	8/31/04	9:06A		✓	W	1	
A28-MS-02	8/31/04	9:58A		✓	W	1	
VK/NL-DS-02	8/31/04	10:05A		✓	W	1	
A28-US-02	8/31/04	10:55A		✓	W	1	
DUP-3	8/31/04	10:05A		✓	W	1	
T11A-DS-03	8/31/04	10:35A		✓	W	1	
A28-DS-03	8/31/04	11:51A		✓	W	1	
A28-US-03	8/31/04	12:20P		✓	W	1	
VK/NL-DS-03-~~XL~~-CC	8/31/04	~~11:~~ 11:30A		✓	W	1	
A28-MS-03	8/31/04	12:06P		✓	W	1	

Special Instructions/Comments:

☐ Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: NE Analytical	Cooler Custody Seal (✓): ☐ Intact ☐ Not Intact	Printed Name: CHRISTINE COSTELLO	Printed Name: Lenore Nelson	Printed Name:	Printed Name:
☒ Cooler packed with ice (✓)		Signature:	Signature: Lenore Nelson	Signature:	Signature:
Specify Turnaround Requirements:	Sample Receipt Condition/Cooler Temp:	Firm: BBL	Firm/Courier: NEA	Firm/Courier:	Firm:
Shipping Tracking #:		Date/Time: 8/31/04 4:50 pm	Date/Time: 8/31/04 1650	Date/Time:	Date/Time:

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Attachment F

Data Validation Report

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DATA VALIDATION REPORT

GENERAL ELECTRIC
LOEFFEL

SDG# A-28-D-01, A-28-DS-02, A-28-DS-02A

PCB, TOC
AND TSS ANALYSES

Analyses performed by:

Adirondack Environmental Services, Inc.
Albany, New York

Review performed by:

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

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

Summary

The following is an assessment of the SDG#A-28-DS-02, A-28-DS-02A and A-28-D-01 for water and filter sampling at the General Electric 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	Sample Delivery Group	Lab ID	Matrix	Sample Date	Analysis			
					VOC	SVOC	PCB	MISC[2]
A28-D-01	A28-D-01	040805034-002C	Water	8/04/04			x	x[3]
A28-D-01-A	A28-D-01	040805034-007A	Filter	8/04/04			x	
A28-M-01	A28-D-01	040805034-004C	Water	8/04/04			x	x[3]
A28-M-01-A	A28-D-01	040805034-009A	Filter	8/04/04			x	
A28-U-01	A28-D-01	040805034-003C	Water	8/04/04			x	x[3]
A28-U-01-A	A28-D-01	040805034-008A	Filter	8/04/04			x	
NL/VK-U-01[1]	A28-D-01	040805034-005C	Water	8/04/04			x	x[3]
NL/VK-U-01A	A28-D-01	040805034-010A	Filter	8/04/04			x	
T11A-D-01	A28-D-01	040805034-001C	Water	8/04/04			x	x[3]
T11A-D01-A	A28-D-01	040805034-006A	Filter	8/04/04			x	
DUP-1	A28-D-01	040805034-011C	Water	8/04/04			x	x[3]
A28-DS-02	A28-DS-02	040901001-002C	Water	8/31/04			x	x[3]
A28-DS-03	A28-DS-02	040901001-021C	Water	8/31/04			x	x[3]
A28-MS-02[1]	A28-DS-02	040901001-003C	Water	8/31/04			x	x[3]
A28-MS-03	A28-DS-02	040901001-022C	Water	8/31/01			x	x[3]
A28-US-02	A28-DS-02	040901001-005C	Water	8/31/04			x	x[3]
A28-US-03	A28-DS-02	040901001-024C	Water	8/31/04			x	x[3]
T11A-DS-02	A28-DS-02	040901001-001C	Water	8/30/04			x	x[3]
T11A-DS-03	A28-DS-02	040901001-020C	Water	8/31/04			x	x[3]
VK/NL-DS-02	A28-DS-02	040901001-004C	Water	8/31/04			x	x[3]
VK/NL-DS-03	A28-DS-02	040901001-023C	Water	8/31/04			x	x[3]
FEB-1	A28-DS-02	040901001-031A	Water	8/31/04			x	
DUP-4	A28-DS-02	040901001-019A	Water	8/31/04			x	
DUP-1	A28-DS-02	040901001-017	Water	8/31/04				x
DUP-2	A28-DS-02	040901001-018	Water	8/31/04				x
A28-DS-02-A	A28-DS-02A	040901001-006	Filter	8/31/04			x	
A28-DS-03-A	A28-DS-02A	040901001-027	Filter	8/31/04			x	

Sample ID	Sample Delivery Group	Lab ID	Matrix	Sample Date	Analysis			
					VOC	SVOC	PCB	MISC[2]
A28-MS-02-A	A28-DS-02A	040901001-009	Filter	8/31/04			x	
A28-MS-03-A	A28-DS-02A	040901001-025	Filter	8/31/04			x	
A28-US-02-A	A28-DS-02A	040901001-007	Filter	8/31/04			x	
A28-US-02-B	A28-DS-02A	040901001-008	Filter	8/31/04			x	
A28-US-03-A	A28-DS-02A	040901001-028	Filter	8/31/04			x	
T11A-DS-02-A	A28-DS-02A	040901001-010	Filter	8/31/04			x	
T11A-DS-02-B	A28-DS-02A	040901001-011	Filter	8/31/04			x	
T11A-DS-03-A	A28-DS-02A	040801001-026	Filter	8/31/04			x	
VKNL-DS-02-A	A28-DS-02A	040901001-012	Filter	8/31/04			x	
VKNL-DS-02-B	A28-DS-02A	040901001-013	Filter	8/31/04			x	
VK/NL-DS-02MSA	A28-DS-02A	040901001-014	Filter	8/31/04			x	
VK/NL-DS-02MSB	A28-DS-02A	040901001-015	Filter	8/31/04			x	
VK/NL-DS-02MSDA	A28-DS-02A	040901001-016	Filter	8/31/04			x	
VKNL-DS-03-A	A28-DS-02A	040901001-029	Filter	8/31/04			x	
VKNL-DS-03-B	A28-DS-02A	040901001-030	Filter	8/31/04			x	
DUP-3	04090013	028092	Water	8/31/04				x[4]

1 MS/MSD analyses performed on sample.
2 Miscellaneous parameters include Total Organic Carbon and Total Suspended Solids
3 Miscellaneous parameters include Total Organic Carbon and Total Suspended Solids and Chlorophyll-a
4 Miscellaneous parameters include Chlorophyll-a only

Note: Chlorophyll-a analyses were subcontracted to Aquatec Biological Services of Williston, VT

PCB ANALYSES

Introduction

Analyses were performed according to the USEPA Method 608.

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's 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 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 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.

No target compounds were detected in the method, rinse or equipment 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 instruments daily performance is satisfactory.

4.1 Initial Calibration

Method 608 allows a maximum RSD of 10% or, alternately, calibration curves may be constructed.

Multi-point calibrations were performed for Aroclor 1016 and Aroclor 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. Matrix Spike/Matrix Spike Duplicate

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

All matrix spike and matrix spike duplicate recoveries were within control limits.

8. Blank Spike

All blank spike recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
NL/VK-U-01 / DUP-1	Aroclor 1260	0.011J	0.011J	0.0%
VK/NL-DS-02 / DUP-4	Aroclor 1260	0.010	0.007	<CRDL

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

The duplicate results were acceptable.

10. System Performance and Overal 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.

Corrected Sample Analysis Data Sheets

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-D-01

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) WATER Lab Sample ID: A28-D-01

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040805034-002C

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/06/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.014	U
11104-28-2	Arochlor-1221	.014	U
11141-16-5	Arochlor-1232	.014	U
53469-21-9	Arochlor-1242	.014	U
12672-29-6	Arochlor-1248	.014	U
11097-69-1	Arochlor-1254	.014	U
11096-82-5	Arochlor-1260	.013	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-D-01-A/1661

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) FILTER Lab Sample ID: A28-D-01-A/1661

Sample wt/vol: 0.0457 (g/mL) G Lab File ID: 040805034-007A

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/12/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	1100.	U
11104-28-2	Arochlor-1221	1100.	U
11141-16-5	Arochlor-1232	1100.	U
53469-21-9	Arochlor-1242	1100.	U
12672-29-6	Arochlor-1248	1100.	U
11097-69-1	Arochlor-1254	1100.	U
11096-82-5	Arochlor-1260	2900.	

LD

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-M-01

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) WATER Lab Sample ID: A28-M-01

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040805034-004C

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/06/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.014	U
11104-28-2	Arochlor-1221	.014	U
11141-16-5	Arochlor-1232	.014	U
53469-21-9	Arochlor-1242	.014	U
12672-29-6	Arochlor-1248	.014	U
11097-69-1	Arochlor-1254	.014	U
11096-82-5	Arochlor-1260	.011	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-M-01-A/1662

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) FILTER Lab Sample ID: A28-M-01-A/1662

Sample wt/vol: 0.0347 (g/mL) G Lab File ID: 040805034-009A

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/12/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	1400.	U
11104-28-2	Arochlor-1221	1400.	U
11141-16-5	Arochlor-1232	1400.	U
53469-21-9	Arochlor-1242	1400.	U
12672-29-6	Arochlor-1248	1400.	U
11097-69-1	Arochlor-1254	1400.	U
11096-82-5	Arochlor-1260	4200.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-U-01

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) WATER Lab Sample ID: A28-U-01

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040805034-003C

Level: (low/med) LOW Date Received: 08/05/04

Moisture: not dec. dec._____ Date Extracted: 08/06/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.014	U
11104-28-2	Arochlor-1221	.014	U
11141-16-5	Arochlor-1232	.014	U
53469-21-9	Arochlor-1242	.014	U
12672-29-6	Arochlor-1248	.014	U
11097-69-1	Arochlor-1254	.014	U
11096-82-5	Arochlor-1260	.010	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-U-01-A/1658

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BEL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) FILTER Lab Sample ID: A28-U-01-A/1658

Sample wt/vol: 0.0653 (g/mL) G Lab File ID: 040805034-008A

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/12/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	770.	U
11104-28-2	Arochlor-1221	770.	U
11141-16-5	Arochlor-1232	770.	U
53469-21-9	Arochlor-1242	770.	U
12672-29-6	Arochlor-1248	770.	U
11097-69-1	Arochlor-1254	770.	U
11096-82-5	Arochlor-1260	2300.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NL/VK-U-01

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BEL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) WATER Lab Sample ID: NL/VK-U-01

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040805034-005C

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/06/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.014	U
11104-28-2	Arochlor-1221	.014	U
11141-16-5	Arochlor-1232	.014	U
53469-21-9	Arochlor-1242	.014	U
12672-29-6	Arochlor-1248	.014	U
11097-69-1	Arochlor-1254	.014	U
11096-82-5	Arochlor-1260	.011	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NL/VK-U-01A/1659

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) FILTER Lab Sample ID: NL/VK-U-01A/1659

Sample wt/vol: 0.0441 (g/mL) G Lab File ID: 040805034-010A

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/12/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	1100.	U
11104-28-2	Arochlor-1221	1100.	U
11141-16-5	Arochlor-1232	1100.	U
53469-21-9	Arochlor-1242	1100.	U
12672-29-6	Arochlor-1248	1100.	U
11097-69-1	Arochlor-1254	1100.	U
11096-82-5	Arochlor-1260	2100.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T11A-D-01

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) WATER Lab Sample ID: T11A-D-01

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040805034-001C

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/06/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.014	U
11104-28-2	Arochlor-1221	.014	U
11141-16-5	Arochlor-1232	.014	U
53469-21-9	Arochlor-1242	.014	U
12672-29-6	Arochlor-1248	.014	U
11097-69-1	Arochlor-1254	.014	U
11096-82-5	Arochlor-1260	.080	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T11A-D01-A/1660

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: BEL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) FILTER Lab Sample ID: T11A-D01-A/1660

Sample wt/vol: 0.0193 (g/mL) G Lab File ID: 040805034-006A

Level: (low/med) LOW Date Received: 08/05/04

% Moisture: not dec. dec._____ Date Extracted: 08/12/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	2600.	U
11104-28-2	Arochlor-1221	2600.	U
11141-16-5	Arochlor-1232	2600.	U
53469-21-9	Arochlor-1242	2600.	U
12672-29-6	Arochlor-1248	2600.	U
11097-69-1	Arochlor-1254	2600.	U
11096-82-5	Arochlor-1260	52000.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: BBL0402 SAS No.: SDG No.: A28-D-01

Matrix: (soil/water) WATER Lab Sample ID: DUP-1

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040805034-011C

Level (low/med) LOW Date Received: 08/05/04

Moisture: not dec. dec._____ Date Extracted: 08/06/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/12/04

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.014	U
11104-28-2	Arochlor-1221	.014	U
11141-16-5	Arochlor-1232	.014	U
53469-21-9	Arochlor-1242	.014	U
12672-29-6	Arochlor-1248	.014	U
11097-69-1	Arochlor-1254	.014	U
11096-82-5	Arochlor-1260	.011	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-DS-02

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: A28-DS-02

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-002C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.011	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-DS-03

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: A28-DS-03

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-021C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.010	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-MS-02

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: A28-MS-02

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-003C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.011	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-MS-03

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: A28-MS-03

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-022C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.018	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-US-02

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: A28-US-02

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-005C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.010	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-US-03

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: A28-US-03

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-024C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.011	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T11A-DS-02

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: T11A-DS-02

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-001C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.29	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T11A-DS-03

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: T11A-DS-03

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-020C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.10	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VK/NL-DS-02

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: VK/NL-DS-02

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-004C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.010	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VK/NL-DS-03

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: VK/NL-DS-03

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-023C

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.008	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FEB-1

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: FEB-1

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-031A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.013	U

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-4

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BEL0403 SAS No.: SDG No.: A28-DS-02

Matrix: (soil/water) WATER Lab Sample ID: DUP-4

Sample wt/vol: 1050. (g/mL) ML Lab File ID: 040901001-019A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/02/04

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/03/04

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Arochlor-1016	.013	U
11104-28-2	Arochlor-1221	.013	U
11141-16-5	Arochlor-1232	.013	U
53469-21-9	Arochlor-1242	.013	U
12672-29-6	Arochlor-1248	.013	U
11097-69-1	Arochlor-1254	.013	U
11096-82-5	Arochlor-1260	.007	J

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-DS-02-A/1663

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: A28-DS-02-A/1663

Sample wt/vol: 0.1193 (g/mL) G Lab File ID: 040901001-006A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	210.	U
11104-28-2	Arochlor-1221	210.	U
11141-16-5	Arochlor-1232	210.	U
53469-21-9	Arochlor-1242	210.	U
12672-29-6	Arochlor-1248	210.	U
11097-69-1	Arochlor-1254	210.	U
11096-82-5	Arochlor-1260	1800.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-DS-03-A/1822

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: A28-DS-03-A/1822

Sample wt/vol: 0.0722 (g/mL) G Lab File ID: 040901001-027A

Level (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	350.	U
11104-28-2	Arochlor-1221	350.	U
11141-16-5	Arochlor-1232	350.	U
53469-21-9	Arochlor-1242	350.	U
12672-29-6	Arochlor-1248	350.	U
11097-69-1	Arochlor-1254	350.	U
11096-82-5	Arochlor-1260	2600.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-MS-02-A/1669

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: A28-MS-02-A/1669

Sample wt/vol: 0.0991 (g/mL) G Lab File ID: 040901001-009A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	250.	U
11104-28-2	Arochlor-1221	250.	U
11141-16-5	Arochlor-1232	250.	U
53469-21-9	Arochlor-1242	250.	U
12672-29-6	Arochlor-1248	250.	U
11097-69-1	Arochlor-1254	250.	U
11096-82-5	Arochlor-1260	1800.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-MS-03-A/1804

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: A28-DS-03-A/1804

Sample wt/vol: 0.0519 (g/mL) G Lab File ID: 040901001-025A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	480.	U
11104-28-2	Arochlor-1221	480.	U
11141-16-5	Arochlor-1232	480.	U
53469-21-9	Arochlor-1242	480.	U
12672-29-6	Arochlor-1248	480.	U
11097-69-1	Arochlor-1254	480.	U
11096-82-5	Arochlor-1260	2700.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-US-02-A/1668

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: A28-US-02-A/1668

Sample wt/vol: 0.1037 (g/mL) G Lab File ID: 040901001-007A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	240.	U
11104-28-2	Arochlor-1221	240.	U
11141-16-5	Arochlor-1232	240.	U
53469-21-9	Arochlor-1242	240.	U
12672-29-6	Arochlor-1248	240.	U
11097-69-1	Arochlor-1254	240.	U
11096-82-5	Arochlor-1260	1900.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-US-02-B/1667

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: A28-US-02-B/1667

Sample wt/vol: 0.0429 (g/mL) G Lab File ID: 040901001-008A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	580.	U
11104-28-2	Arochlor-1221	580.	U
11141-16-5	Arochlor-1232	580.	U
53469-21-9	Arochlor-1242	580.	U
12672-29-6	Arochlor-1248	580.	U
11097-69-1	Arochlor-1254	580.	U
11096-82-5	Arochlor-1260	1700.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A28-US-03-A/1825

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: A28-US-03-A/1825

Sample wt/vol: 0.0277 (g/mL) G Lab File ID: 040901001-028A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/09/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	900.	U
11104-28-2	Arochlor-1221	900.	U
11141-16-5	Arochlor-1232	900.	U
53469-21-9	Arochlor-1242	900.	U
12672-29-6	Arochlor-1248	900.	U
11097-69-1	Arochlor-1254	900.	U
11096-82-5	Arochlor-1260	5000.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T11A-DS-02-A/1664

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: T11A-DS-02-A/1664

Sample wt/vol: 2.4107 (g/mL) G Lab File ID: 040901001-010A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	52.	U
11104-28-2	Arochlor-1221	52.	U
11141-16-5	Arochlor-1232	52.	U
53469-21-9	Arochlor-1242	52.	U
12672-29-6	Arochlor-1248	52.	U
11097-69-1	Arochlor-1254	52.	U
11096-82-5	Arochlor-1260	720.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T11A-DS-02-B/1666

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: B3L0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: T11A-DS-02-B/1666

Sample wt/vol: 0.1224 (g/mL) G Lab File ID: 040901001-011A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	1000.	U
11104-28-2	Arochlor-1221	1000.	U
11141-16-5	Arochlor-1232	1000.	U
53469-21-9	Arochlor-1242	1000.	U
12672-29-6	Arochlor-1248	1000.	U
11097-69-1	Arochlor-1254	1000.	U
11096-82-5	Arochlor-1260	14000.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T11A-DS-03A/1811

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: T11A-DS-03-A/1811

Sample wt/vol: 0.0099 (g/mL) G Lab File ID: 040901001-026A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	2500.	U
11104-28-2	Arochlor-1221	2500.	U
11141-16-5	Arochlor-1232	2500.	U
53469-21-9	Arochlor-1242	2500.	U
12672-29-6	Arochlor-1248	2500.	U
11097-69-1	Arochlor-1254	2500.	U
11096-82-5	Arochlor-1260	77000.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VKNL-DS-02-A/1665

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: VKNL-DS-02-A/1665

Sample wt/vol: 0.0852 (g/mL) G Lab File ID: 040901001-012A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	290.	U
11104-28-2	Arochlor-1221	290.	U
11141-16-5	Arochlor-1232	290.	U
53469-21-9	Arochlor-1242	290.	U
12672-29-6	Arochlor-1248	290.	U
11097-69-1	Arochlor-1254	290.	U
11096-82-5	Arochlor-1260	1200.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VKNL-DS-02-B/1835

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: VKNL-DS-02-B/1835

Sample wt/vol: 0.0146 (g/mL) G Lab File ID: 040901001-013A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	1700.	U
11104-28-2	Arochlor-1221	1700.	U
11141-16-5	Arochlor-1232	1700.	U
53469-21-9	Arochlor-1242	1700.	U
12672-29-6	Arochlor-1248	1700.	U
11097-69-1	Arochlor-1254	1700.	U
11096-82-5	Arochlor-1260	2200.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VK/NL-DS-02MSA/1834

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: VK/NL-DS-02MSA/1834

Sample wt/vol: 0.0557 (g/mL) G Lab File ID: 040901001-014A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	450.	U
11104-28-2	Arochlor-1221	450.	U
11141-16-5	Arochlor-1232	450.	U
53469-21-9	Arochlor-1242	450.	U
12672-29-6	Arochlor-1248	450.	U
11097-69-1	Arochlor-1254	450.	U
11096-82-5	Arochlor-1260	1900.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VK/NL-DS-02MSB/1824

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BEL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: VK/NL-DS-02MSB/1824

Sample wt/vol: 0.0219 (g/mL) G Lab File ID: 040901001-015A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	1100.	U
11104-28-2	Arochlor-1221	1100.	U
11141-16-5	Arochlor-1232	1100.	U
53469-21-9	Arochlor-1242	1100.	U
12672-29-6	Arochlor-1248	1100.	U
11097-69-1	Arochlor-1254	1100.	U
11096-82-5	Arochlor-1260	1700.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VK/NL-DS-02MSDA/1823

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BBL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: VK/NL-DS02MSDA/1823

Sample wt/vol: 0.0716 (g/mL) G Lab File ID: 040901001-016A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/08/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	350.	U
11104-28-2	Arochlor-1221	350.	U
11141-16-5	Arochlor-1232	350.	U
53469-21-9	Arochlor-1242	350.	U
12672-29-6	Arochlor-1248	350.	U
11097-69-1	Arochlor-1254	350.	U
11096-82-5	Arochlor-1260	1900.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VKNL-DS-03-A/1826

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BEL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: VKNL-DS-03-A/1826

Sample wt/vol: 0.0799 (g/mL) G Lab File ID: 040901001-029A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/09/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	310.	U
11104-28-2	Arochlor-1221	310.	U
11141-16-5	Arochlor-1232	310.	U
53469-21-9	Arochlor-1242	310.	U
12672-29-6	Arochlor-1248	310.	U
11097-69-1	Arochlor-1254	310.	U
11096-82-5	Arochlor-1260	1700.	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VKNL-DS-03-B/1827

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: BEL0404 SAS No.: SDG No.: A28-DS-02-A/1663

Matrix: (soil/water) FILTER Lab Sample ID: VKNL-DS-03-B/1827

Sample wt/vol: 0.0329 (g/mL) G Lab File ID: 040901001-030A

Level: (low/med) LOW Date Received: 08/31/04

% Moisture: not dec. dec._____ Date Extracted: 09/07/04

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 09/09/04

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Arochlor-1016	760.	U
11104-28-2	Arochlor-1221	760.	U
11141-16-5	Arochlor-1232	760.	U
53469-21-9	Arochlor-1242	760.	U
12672-29-6	Arochlor-1248	760.	U
11097-69-1	Arochlor-1254	760.	U
11096-82-5	Arochlor-1260	2000.	

SUPPLEMENTAL PARAMETERS

Introduction

Analyses were performed according to the following methods:

Total Suspended Solids (TSS)	EPA 160.2
Total Organic Carbon (TOC)	SM 5310C
Chlorophyll-a	10200H

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 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.

All required initial and continuing calibration verification standard recoveries were within acceptable limits.

4. Matrix Spike/Laboratory Duplicate

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

4.1 Matrix spike

The matrix spike recoveries were within control limits.

4.2 Laboratory Duplicate

The laboratory duplicate was within control limits.

5. Field Duplicate

Results for duplicate samples are summarized as follows:

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
NL/VK-U-01 / DUP-1	TOC	3500	4200	18.2%
	TSS	1500	1000	40.0%
VK/NL-DS-02 / DUP-1	TOC	3600	3600	0.0%
VK/NL-DS-02 / DUP-2	TSS	3500	3000	15.4%
VK/NL-DS-02 / DUP-3	Chlorophyll-a corrected	0.3	0.3	0.0%
	Chlorophyll-a uncorrected	0.7	0.6	15.4%

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

The duplicate results were acceptable.

6. Laboratory Control Sample (LCS)

All LCS recoveries were within control limits.

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 Overal 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

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CONVENTIONALS ANALYSIS DATA SHEET

A28-D-01

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0402 SAS No.: SDG No.: A28-D-01

Matrix (soil/water): Water Lab Sample ID: 040805034-002

Level (Low/Med): Low Date Received: 8/5/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	4700			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	3000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

A28-M-01

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0402 SAS No.: SDG No.: A28-D-01

Matrix (soil/water): Water Lab Sample ID: 040805034-004

Level (Low/Med): Low Date Received: 8/5/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	5100			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	4000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

A28-U-01

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0402 SAS No.: SDG No.: A28-D-01

Matrix (soil/water): Water Lab Sample ID: 040805034-003

Level (Low/Med): Low Date Received: 8/5/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	4800			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	4000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

NL/VK-U-01

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0402 SAS No.: SDG No.: A28-D-01

Matrix (soil/water): Water Lab Sample ID: 040805034-005

Level (Low/Med): Low Date Received: 8/5/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	3500			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	1500			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

T11A-D-01

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0402 SAS No.: SDG No.: A28-D-01

Matrix (soil/water): Water Lab Sample ID: 040805034-001

Level (Low/Med): Low Date Received: 8/5/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	1200			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	1000	U		EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

DUP-1

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0402 SAS No.: SDG No.: A28-D-01

Matrix (soil/water): Water Lab Sample ID: 040805034-011

Level (Low/Med): Low Date Received: 8/5/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	4200			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	1000	U		EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

A28-DS-02

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-002

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	3900			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	9000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

A28-DS-03

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-021

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	4700			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	3000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

A28-MS-02

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-003

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	4300			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	7000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

A28-MS-03

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-022

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	5100			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	1500			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

A28-US-02

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-005

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	4100			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	3000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

A28-US-03

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-024

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	3900			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	1500			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

T11A-DS-02

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-001

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	5000			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	13000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

T11A-DS-03

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-020

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	2300			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	1000	U		EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

VK/NL-DS-02

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-004

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	3600			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	3500			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

VK/NL-DS-03

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-023

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	4400			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	3000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

DUP-1

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-017

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids	3000			EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

DUP-2

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: BBL 0403 SAS No.: SDG No.: A28-DS-02

Matrix (soil/water): Water Lab Sample ID: 040901001-018

Level (Low/Med): Low Date Received: 8/31/04

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	3600			SM 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride				EPA 300.0
pH				EPA 150.1
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
Sulfide				EPA 376.2
Sulfite				EPA 377.1
Total Suspended Solids				EPA 160.2
Total Phosphate as P				EPA 365.2

Comments _____

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FORM I - CONV

Aquatec Biological Sciences

Ecology | Environmental Toxicology | Natural Resource Assessments | Microbiology

Analytical Report

Robert Stoll
Northeast Analytical
2190 Technology Drive
Schenectady, NY 12308

Date : 8/17/2004
BTR No. : 08156
Project No. : 04012
No. of Samples : 8
Date Received : 8/5/2004

Reference: Nassau, NY

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Laboratory Number/ Method Number:	Sample Information/ Method Description:	Result
027839	T11A-D-01 : 8/4/2004 @ 7:00:00 PM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	<0.1
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.1
027840	A28-D-01 : 8/4/2004 @ 8:20:00 PM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	1.2
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	1.7
027841	A28-U-01 : 8/4/2004 @ 9:20:00 PM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.6
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	1.1
027842	A28-M-01 : 8/4/2004 @ 8:35:00 PM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.8
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	1.4
027843	NL/VK-U-01 : 8/4/2004 @ 8:00:00 PM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.7
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	1.2
027844	DUP-1 : 8/4/2004 @	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.4
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.7

Comments/Notes

Samples 27844, 27845, and 27846 were not on the CoC, but analyzed for Chlorophyll a.

273 Commerce Street, Williston, VT 05495 Tel: 802.860.1638 Fax: 802.658.3189

Aquatec Biological Sciences

Ecology | Environmental Toxicology | Natural Resource Assessments | Microbiology

Analytical Report

Robert Stoll
Northeast Analytical
2190 Technology Drive
Schenectady, NY 12308

Date : 8/17/2004
BTR No. : 08156
Project No. : 04012
No. of Samples : 8
Date Received : 8/5/2004

Reference: Nassau, NY

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Laboratory Number/ Method Number:	Sample Information/ Method Description:	Result
027845	NL/VK-U-01 MS : 8/4/2004 @	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.5
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	1.0
027846	NL/VK-U-01 MSD : 8/4/2004 @	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.5
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 8/6/2004 @ 2:30:00 PM	0.9
	ship cooler Return client's cooler, ; Analyzed: @	

Comments/Notes

Samples 27844, 27845, and 27846 were not on the CoC, but analyzed for Chlorophyll a.

Submitted By: Philip Morley

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Analytical Report

Robert Stoll
Northeast Analytical
2190 Technology Drive
Schenectady, NY 12308

Date : 9/17/2004
BTR No. : 08219
Project No. : 04012
No. of Samples : 11
Date Received : 9/3/2004

Reference: Loeffel

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Laboratory Number/ Method Number:	Sample Information/ Method Description:	Result
028087	T11A-DS-02 : 8/30/2004 @ 9:10:00 PM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.8
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	1.3
028088	A28-DS-02 : 8/31/2004 @ 1:06:00 AM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	2.5
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	3.1
028089	A28-MS-02 : 8/31/2004 @ 1:50:00 AM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.3
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.6
028090	VK/NL-DS-02 : 8/31/2004 @ 1:05:00 AM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.3
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.7
028091	A28-US-02 : 8/31/2004 @ 1:55:00 AM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.4
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.7
028092	DUP-3 : 8/31/2004 @ 1:05:00 AM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.3
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.6

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Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Laboratory Number/ Method Number:	Sample Information/ Method Description:	Result
028093	T11A-DS-03 : 8/31/2004 @ 10:39:00 AM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.1
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.2
028094	A28-DS-03 : 8/31/2004 @ 11:51:00 AM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.8
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	1.0
028095	A28-US-03 : 8/31/2004 @ 12:26:00 PM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.7
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.9
028096	VK/NL-DS-03-CC : 8/31/2004 @ 11:30:00 AM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	1.7
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	2.0
028097	A28-MS-03 : 8/31/2004 @ 12:06:00 PM	
	10200H3-C Chlorophyll a, corrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	0.8
	10200H3-U Chlorophyll a, uncorrected, ug/L; Analyzed: 9/3/2004 @ 3:30:00 PM	1.1
	ship cooler Return client's cooler, ; Analyzed: @	

Submitted By: Philip O'Donnell

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Attachment G

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Attachment G

Flow Calculations

Flow Interpolation

The interpolated flows at T11A were determined using the USGS gaging station 01360640 on the Valatie Kill near Nassau, NY at Area 28 and T11A weir flow data sets from October 2002 (Figure G-1) and August 2003 (Figure G-2) sampling events. From these data sets, hydrographs for each location were developed, from which a proportional relationship of flow was determined. The proportional ratio from the 2003 event was selected since the flows in 2003 were similar in magnitude and duration to those noted in 2004. Using this proportional ratio, 1/9.34, and the Area 28 USGS data sets for August 3 through 5; and August 30 through September 1, 2004, interpolated flows at T11A could be generated for base- and high-flow events, respectively (Figure G-3 and G-4). The table below provides the calculated ratios based on an events' peak flow.

Date	Flow (cfs)		Ratio
	Area 28	T11A	
October 2002	112.4	4.2	26.76
August 2003	5.7	0.61	9.34
August 30, 2004 High-Flow, Peak Event	6.5	0.69[1]	9.34[2]
August 31, 2004 High-Flow, Falling Limb Event	5.1	0.55[1]	9.34[2]
August 30, 2004 Base-Flow Measurement[3]	2.2	0.24[1]	9.34[2]
August 4, 2004 Base-Flow Event	3.1	0.34[1]	9.34[2]

Notes:

1. 0.69 cfs was interpolated from the Area 28 flow of 6.5 cfs divided by the 9.34 ratio.
2. The 9.34 ratio was assumed based on the similarity of the two Area 28 peak values (5.7 and 6.5 cfs).
3. Initial base-flow prior to the August 30 – 31, 2004 high-flow event sampling.

Figure G-1
Area 28 and T11A Flows
High-Flow Event
2002

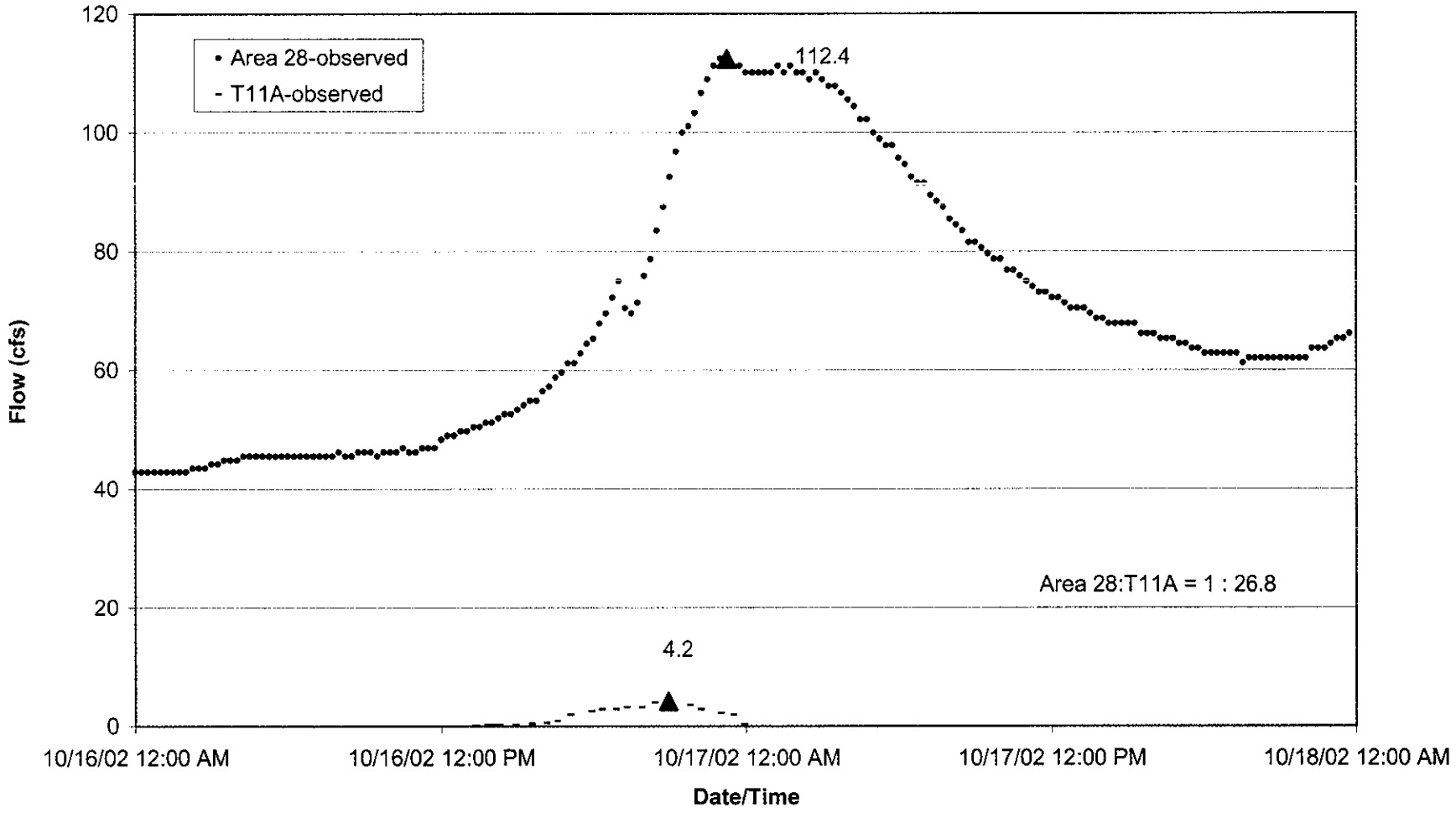


Figure G-2
Area 28 and T11A Flows
High-Flow Event
2003

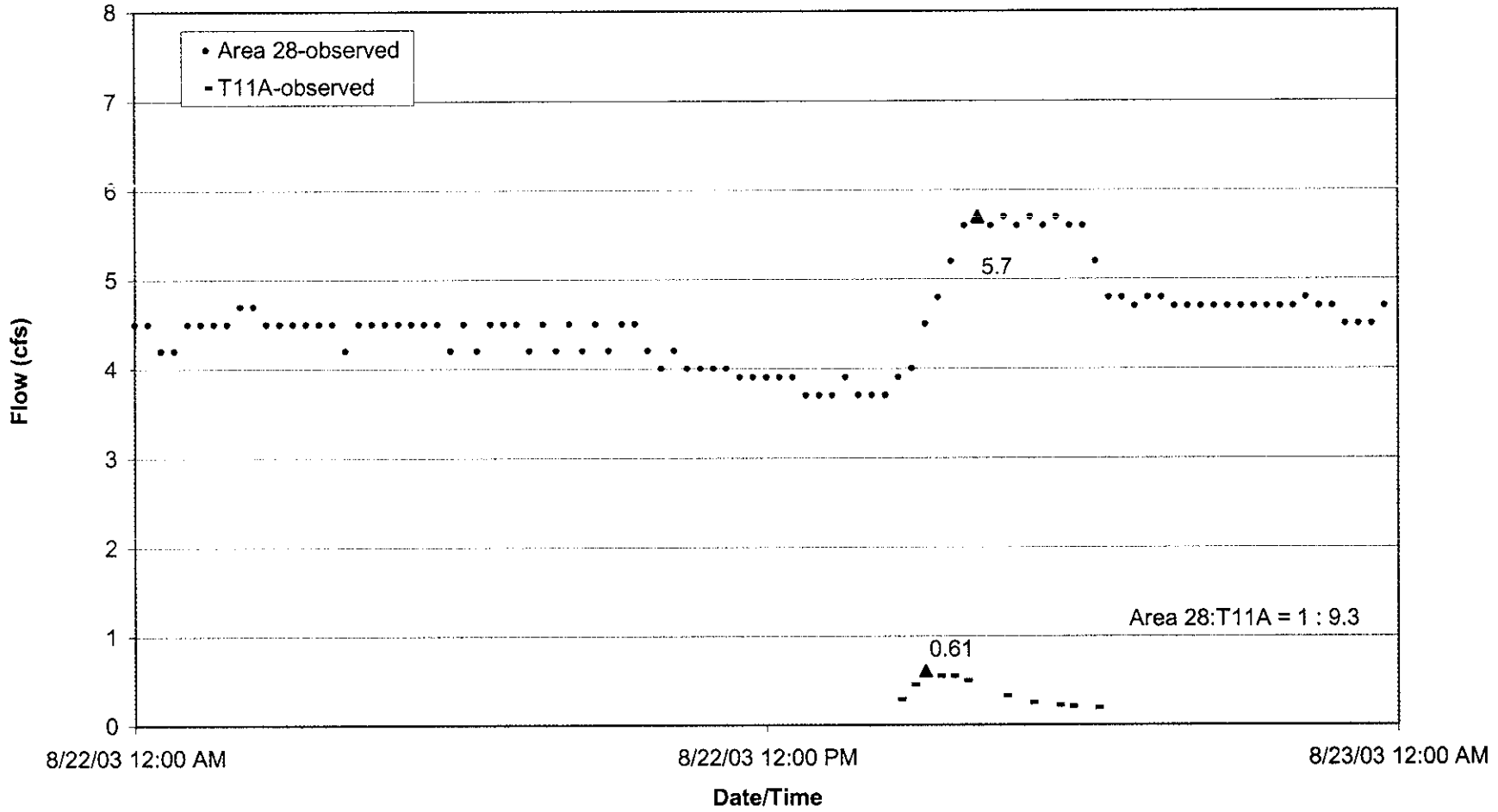


Figure G-3
Area 28 and T11A Flows
Base-Flow Event
2004

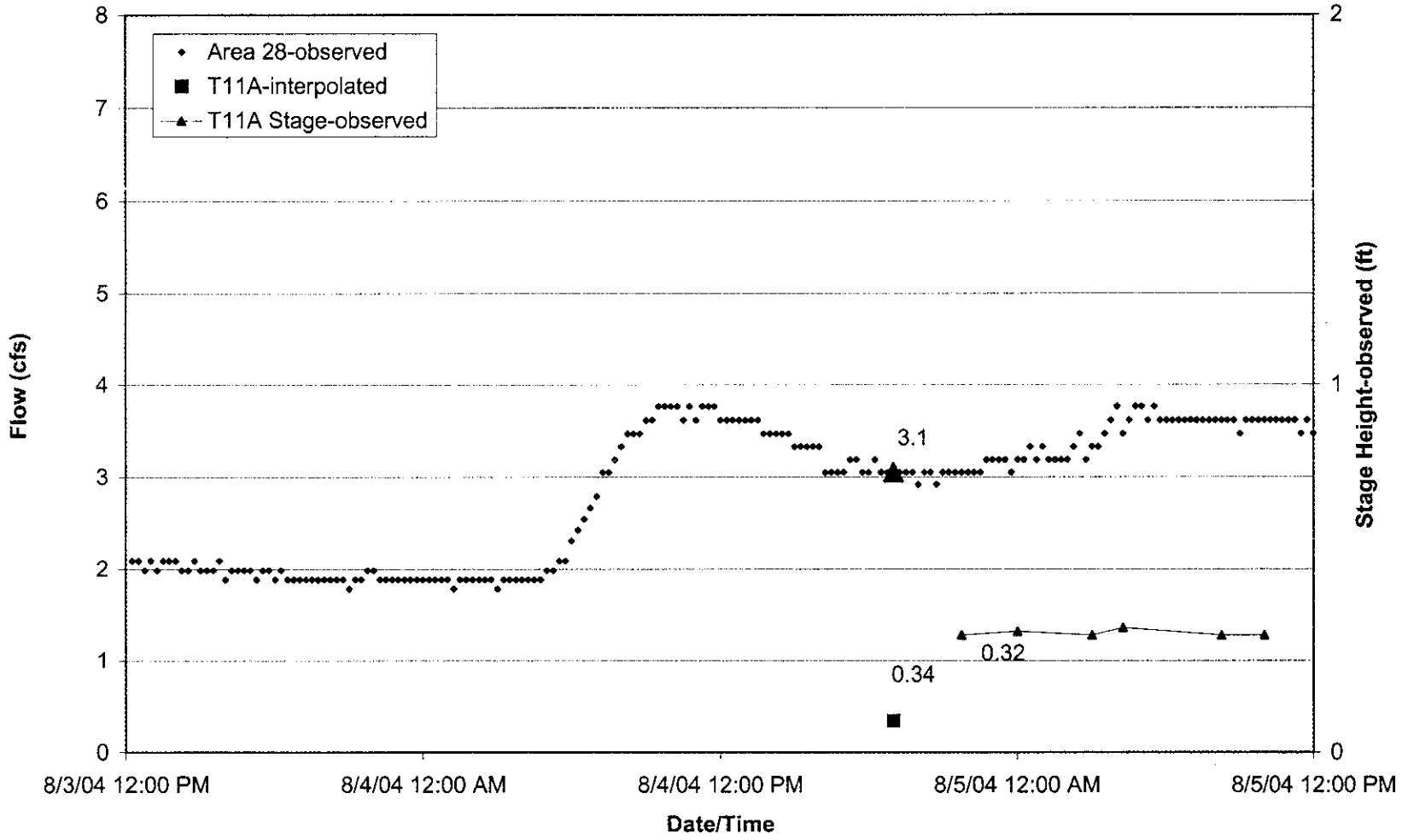
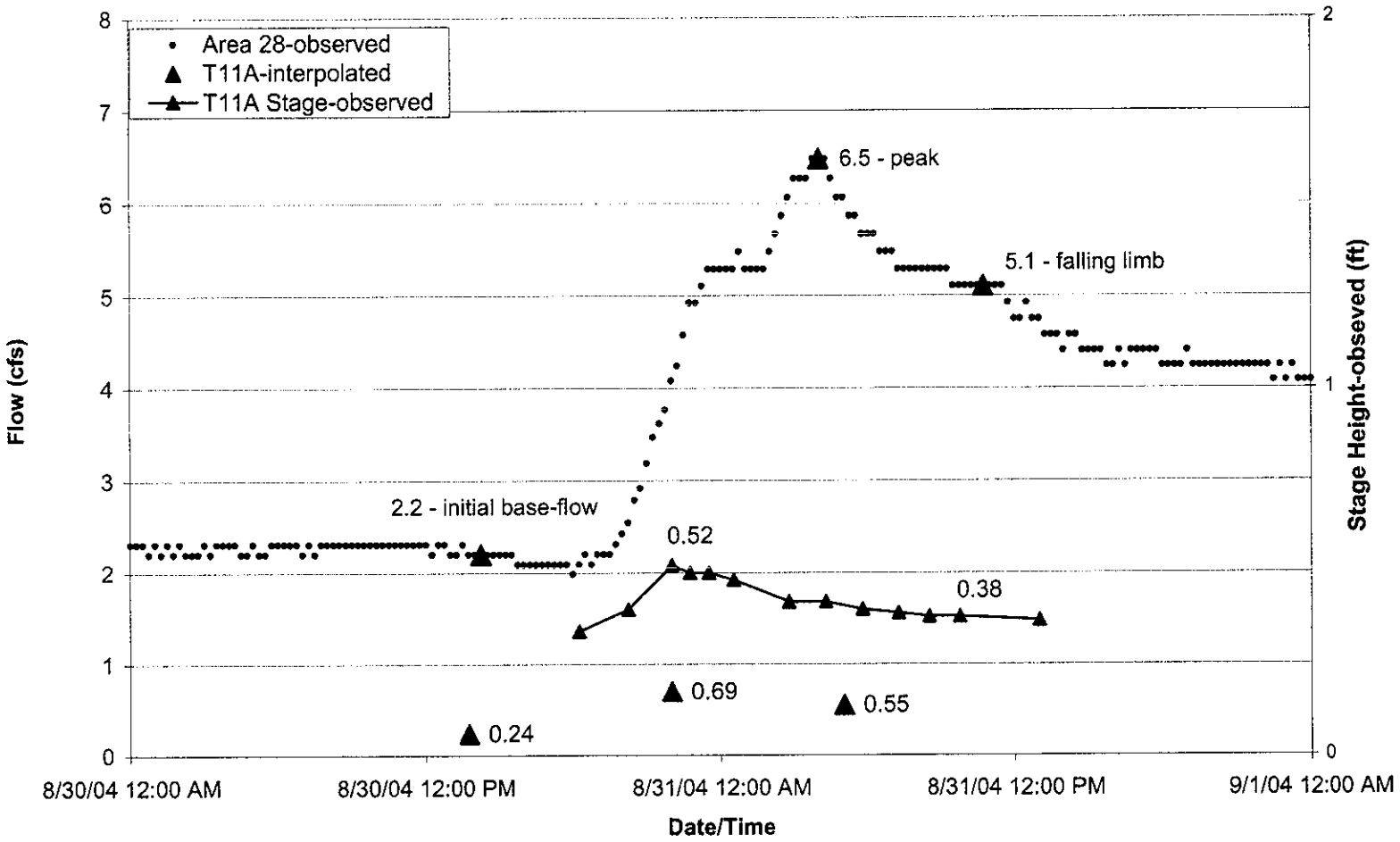


Figure G-4
Area 28 and T11A Flows
High-Flow Event
2004



Notes: No staff gage stage height collected commensurate with initial base-flow.

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