IT Corporation
13 British American Boulevard
Latham, NY 12110-1405
Tel. 518.783.1996
Fax. 518.783.8397

A Member of The IT Group

August 16, 2000

Mr. Bert W. Finch
New York State Electric & Gas Corporation
Corporate Drive, Kirkwood Industrial Park
P.O. Box 5224
Binghamton, New York 13902-5224

Subject: **Status Report - December 1999 through June 2000**
Air Sparge/SVE System - Operation & Maintenance
Norwich Former MGP Site
Birdsall Road, Norwich, New York
IT Corporation Project: 108196

Dear Mr. Finch;

This status report details the operational status of the Air Sparge/Soil Vapor Extraction treatment system at the Norwich former MGP Site. This status report covers the period from startup on December 17, 1999 through June 30, 2000. The next quarterly status report will cover the period from July 1, 2000 through September 30, 2000.

Total run time for the air sparge and soil vapor extraction (SVE) system during the current reporting period was approximately 71%. Three periods of downtime, one in late February, one in late March, and a third during May and June 2000, resulted in the majority of downtime for the treatment system during the current reporting period. The failure of the drive belts on the SVE blower in late February accounted for approximately 8 days of downtime. The period in March was attributable to the failure of a motor operated valve (MOV) on the SVE system. The downtime in May and June was apparently caused by a power outage, which caused a low-ventilation fault in the system. A short period of downtime was experienced on March 24, 2000, due to a high level condition in the SVE condensate tank. Remaining downtime for the reporting period was due to normal treatment system maintenance activities.

The following sections present data associated with each component of the system from December 17, 1999 through June 30, 2000.

SYSTEM STARTUP

The air sparge/SVE system was started on December 17, 1999. Startup of the system had been delayed during 1999 due to several issues, including the ability to control noise from the air sparge and SVE rotary lobe blowers. Substantial noise abatement measures were instituted, including the insulation of system piping and installation of acoustic dampening materials within the treatment system building enclosure. In addition, a problem was experienced with the operation of the SVE blower unit during initial startup activities in June 1999. A manufacturer's defect in the SVE blower head required that the unit be removed and returned to a factory authorized service center for repair. To address concerns of elevated SVE blower temperature and its effect on system components and efficiency, an air to air heat exchanger was installed in the system prior to full time system operation.

OPERATION AND MAINTENANCE

Operation and Maintenance (O&M) visits were performed bi-monthly during January, February and March 2000, with O&M visits performed on a monthly basis thereafter. O&M visits were performed on January 7 & 11, February 14 & 21, March 3 and 21/22, April 14, May 3 and June15, 2000. During each O&M visit, the system was monitored for air flow and volatile organic compounds (VOCs) utilizing a thermal anemometer and a photoionization detector (PID). Sparge Point Monitoring Points (SPMPs) and selected monitoring wells were monitored for depth to water and dissolved oxygen beginning in February 2000 to track trends in groundwater. Vapor Point Monitoring Points (VPMPs) were monitored for vacuum influence during each visit to verify the presence of a net negative pressure within the subsurface of the treatment zone. Individual system components were also monitored to ensure that all process systems were operating within design parameters.

In addition, routine maintenance was performed on treatment system equipment, including greasing of motors and bearings and oil changes for the rotary lobe blowers. Building ventilation openings were checked regularly to maintain the required ventilation through the treatment building. The SVE heat exchanger was checked during each O&M visit to insure influent and effluent process air temperatures were within desired ranges.

Several supplementary site visits were required during the first several months of operation to adjust system components, replace select parts and make adjustments to treatment equipment. These adjustments allow IT Corporation field technicians to establish optimum settings for each piece of treatment equipment.

A supplementary site visit was performed on February 10, 2000, to inspect the treatment system for proper operation. All components appeared to be operating properly. Basic system settings were checked, although no system data was recorded at this time.

IT Corporation personnel responded to the site on February 28, 2000 after it was observed by NYSEG employees that the system had shut down. On arrival, the SVE blower drive belts were found to be in need of replacement. Replacement drive belts were not available locally. The treatment system was left idle until replacement belts were obtained. Drive belts were subsequently replaced on March 2, 2000 and the system was restarted. An IT Corporation technician returned to the site on the following day, March 3, to recheck belt tension and verify proper system operation. General system monitoring was also performed on treatment system components at this time. No further problems were observed at this time.

SIGNIFICANT OPERATIONAL NOTES

There were three mechanical failures associated with components of the treatment system during the current period. The failure of drive belts on both the SVE and air sparge blowers resulted in downtime for the system. During the O&M visit performed on February 14, 2000, field personnel observed significant deterioration of the air sparge blower drive belts. The air sparge blower was temporarily idled until replacement belts could be obtained. New belts were installed on the air sparge blower on February 21, 2000, with a subsequent restart of the air sparge blower. Drive belts on the SVE blower failed on approximately February 23, 2000. SVE drive belts were replaced on March 2, 2000, resulting in a total downtime of approximately 8 days. It is believed that elevated ambient temperatures within the treatment equipment enclosure contributed to premature drive belt stretching and resulting belt degradation. A more rigorous program of belt inspections and adjustments, including the purchase of specialized belt tensioning gauges, has since been instituted to maximize the lifespan of system drive belts.

Problems were observed with the MOV on Leg 2 of the SVE manifold during the April 14, 2000 O&M visit. The treatment system was found to be down on arrival on this date. Further investigation revealed a fault with the MOV on Leg 2 had caused a high vacuum fault with the system, resulting in the automatic shutdown of the treatment system. System parameters were reset to cycle the SVE and air sparge system on Legs 1 & 3 until the faulty MOV could be repaired or replaced. Adjustments were made to the limit switches in the faulty MOV and the valve controller was reinstalled during the May 3, 2000 O&M visit. No further problems have been observed with the operation of the SVE MOVs during the current reporting period.

The treatment system was also found to be down during the O&M visit performed on June 15, 2000. Evaluation of the system and controls did not reveal any equipment or operational problems with system components. It is believed that a power failure caused an interruption of electrical service to the facility, resulting in an enclosure ventilation fault. This condition in turn disables all electrical controls until reset by the operator.

Approximately 5 gallons of condensate was drained from the SVE system during the reporting period and placed in the on-site 55 gallon drum for disposal by NYSEG.

SOIL VAPOR EXTRACTION SYSTEM

The SVE system was activated on December 17, 1999. The three primary horizontal vapor extraction legs have been active on a rotational basis during all phases of system operation. MOVs connected to electronic timers control individual ball valves on each of the three primary SVE legs. Each SVE leg is programmed to run for 8 hours each day.

An air to air heat exchanger was installed on the discharge of the SVE blower prior to system startup. This heat exchanger is capable of processing up to 2,000 standard cubic feet per minute (SCFM) at normal system operating pressures. Baffles were installed on the heat exchanger, limiting the temperature drop across the unit. This was effective in maintaining a reduced process temperature feeding the vapor phase carbon units while keeping relative humidity in the air stream below 100%, eliminating the occurrence of condensation. Baffles are adjusted seasonally to maintain the desired temperature reduction across the heat exchanger. Ideal heat exchanger discharge ternperature is set to a minimum of 80 degrees and maximum 120 degrees Fahrenheit.

The SVE system operated at an average flow of 1,372 SCFM during the reporting period as measured at the SVE blower effluent. Calculations show a total of 458.34 pounds (total VOCs) were removed during the current reporting period. These calculations are based upon PID readings collected during system monitoring. Calculations were also performed to track the removal and system discharge of Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX), based on analytical results of laboratory samples. Calculations show a total of 117.16 pounds of total BTEX were recovered during the current reporting period. System operating data and removal calculations are shown in **Table 1**. VOC recovery data is illustrated in **Figure 1**.

Vapor phase carbon units were installed in the treatment system to adsorb VOCs and maintain a system discharge within permitted levels. During early periods of system operation, these vapor phase units were effective in reducing VOC levels in the system final effluent. As system

operation continued, a reduction in efficiency was observed. However, declining influent VOC levels allowed the system to continue operating while keeping within permitted discharge levels. To protect against future spikes in influent levels, we recommend that the vapor phase carbon beds be charged-out during the next quarter to maintain effluent VOCs within permitted levels.

Air samples were collected for laboratory analysis during the January 2000 and May 2000 site visits to track system removal efficiency, and to verify compliance with the air discharge permit. Analytical results of air samples collected during the current period are presented in **Table 2**. Laboratory analytical reports have been included as **Appendix A**.

AIR SPARGE SYSTEM

The air sparge system was activated on January 7, 2000. The sparge system is divided into three individual legs, which each correspond to one of the three individual SVE legs. Each sparge leg runs for 6 hours concurrent with its respective SVE leg, with an hour of idle time prior to activation of the respective SVE leg and an hour of idle time prior to the automated switch to the next SVE leg. There are a total of 17 active sparge points connected to the treatment system. Each sparge point has operated at a flow rate of approximately 6.5 scfm during the period, for an average flow of approximately 37 scfm per active leg.

Dissolved oxygen levels were measured in monitoring wells during O&M visits beginning in February 2000. Based upon the data collected, effective distribution of sparge air is being achieved. All historical dissolved oxygen data available since February 2000 is tabulated and shown in **Table 3**. Air distribution trends and dissolved oxygen levels in monitoring points will continue to be monitored during future O&M visits to anticipate maintenance actions needed in order to maintain desired air flow rates to the treatment zone.

SYSTEM TREATMENT EFFICIENCY

Select monitoring wells as well as SPMPs have been sampled quarterly to track the progress of the treatment system. Monitoring wells were sampled during the current reporting period on May 3, 2000. SPMP-1S and SPMP-2S were sampled on June 15, 2000. These groundwater samples were analyzed per USEPA Method 8021 for VOCs and USEPA Method 8270 for semi-volatile organic compounds (SVOCs). All data, including historical results from 1998 and 1999, has been tabulated and is presented in **Table 4**. Analytical reports for samples collected and analyzed during the current reporting period have been included as **Appendix B**.

SPMP-1 and SPMP-2 are the primary monitoring points in the vicinity of the treatment area that would be affected by the remedial action. These monitoring points will be sampled quarterly in an attempt to gauge the effectiveness of the air sparge/SVE system. The next groundwater sampling event is scheduled to be performed in August 2000. Analytical results for SPMPs as well as selected site monitoring wells will be reported in the next quarterly status report.

PROPOSED ACTIVITIES

Proposed activities for the next reporting period include:

- Monthly operation and maintenance visits to monitor system operation.
- Adjust system flow and vacuum to maximize treatment system efficiency.
- Collect groundwater samples from monitoring wells and SPMPs to track system performance.
- Perform change-out of vapor phase carbon units.

It is our continuing effort to provide NYSEG with the highest quality environmental services. Should you have any questions or comments concerning this status report, please do not hesitate to contact the undersigned at (518) 783-1996.

Sincerely,

IT Corporation

Grant V. Anderson
Field Service Manager
Project Manager

IT Corporation

Lewis S. Streeter
Civil Engineer
Business Line Manager

GVA/LSS:mhg

Attachments:

Appendix A	Laboratory Analytical Results - Air Samples
Appendix B	Laboratory Analytical Results - Groundwater
Table 1	BTEX Recovery
Table 2	Treatment System Efficiency
Table 3	Dissolved Oxygen Measured in Monitoring Points
Table 4	Monitoring Well Data
Figure 1	Soil Vapor Extraction System VOC Recovery

APPENDIX A

LABORATORY ANALYTICAL RESULTS - AIR SAMPLES

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client : New York State Electric & Gas Corporation

Client Sample ID : SVE-EFF Leg-1
PAI Sample ID : P2000071-001

Test Code : GC/MS EPA Mod. TO-14A
Analyst : Chris Casteel
Instrument : HP 5973/Entech 7100
Matrix : Tedlar Bag

Date Sampled : 01/11/00
Date Received : 01/14/00
Date Analyzed : 01/14/00
Volume(s) Analyzed : 0.200 (Liter)

D.F. = 1.00

CAS #	COMPOUND	RESULT µg/M³	REPORTING LIMIT µg/M³	RESULT ppb	REPORTING LIMIT ppb
71-43-2	BENZENE	39	5.0	12	1.6
108-88-3	TOLUENE	55	5.0	15	1.3
100-41-4	ETHYLBENZENE	3.2 TR	5.0	0.74 TR	1.2
1330-20-7	m & p - XYLENES	9.3	5.0	2.1	1.2
95-47-6	o - XYLENE	3.7 TR	5.0	0.85 TR	1.2

ND = Not Detected
TR = Trace Level - Below Indicated Detection Limit

Verified By: RG Date: 1/28/00

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client : New York State Electric & Gas Corporation

Client Sample ID : SVE-EFF Leg-1
PAI Sample ID : P2000071-001 Dup

Test Code : GC/MS EPA Mod. TO-14A
Analyst : Chris Casteel
Instrument : HP 5973/Entech 7100
Matrix : Tedlar Bag

Date Sampled : 01/11/00
Date Received : 01/14/00
Date Analyzed : 01/14/00
Volume(s) Analyzed : 0.200 (Liter)

D.F. = 1.00

CAS #	COMPOUND	RESULT µg/M³	REPORTING LIMIT µg/M³	RESULT ppb	REPORTING LIMIT ppb
71-43-2	BENZENE	35	5.0	11	1.6
108-88-3	TOLUENE	51	5.0	13	1.3
100-41-4	ETHYLBENZENE	2.8 TR	5.0	0.65 TR	1.2
1330-20-7	m & p - XYLENES	8.1	5.0	1.9	1.2
95-47-6	o - XYLENE	3.3 TR	5.0	0.76 TR	1.2

ND = Not Detected
TR = Trace Level - Below Indicated Detection Limit

Verified By: RCS Date: 1/28/00

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client : New York State Electric & Gas Corporation

Client Sample ID : SVE-INF Leg-1
PAI Sample ID : P2000071-002

Test Code : GC/MS EPA Mod. TO-14A
Analyst : Chris Casteel
Instrument : HP 5973/Entech 7100
Matrix : Tedlar Bag

Date Sampled : 01/11/00
Date Received : 01/14/00
Date Analyzed : 01/14/00
Volume(s) Analyzed : 0.050 (Liter)

D.F. = 1.00

CAS #	COMPOUND	RESULT µg/M³	REPORTING LIMIT µg/M³	RESULT ppb	REPORTING LIMIT ppb
71-43-2	BENZENE	510	20	160	6.3
108-88-3	TOLUENE	380	20	100	5.3
100-41-4	ETHYLBENZENE	540	20	120	4.6
1330-20-7	m & p - XYLENES	1,000	20	240	4.6
95-47-6	o - XYLENE	800	20	190	4.6

ND = Not Detected
TR = Trace Level - Below Indicated Detection Limit

Verified By: RCS Date: 1/28/00

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client : New York State Electric & Gas Corporation

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA Mod. TO-14A
Analyst : Chris Casteel
Instrument : HP 5973/Entech 7100
Matrix : Tedlar Bag

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 01/14/00
Volume(s) Analyzed : 1.000 (Liter)

D.F. = 1.00

CAS #	COMPOUND	RESULT µg/M³	REPORTING LIMIT µg/M³	RESULT ppb	REPORTING LIMIT ppb
71-43-2	BENZENE	ND	1.0	ND	0.31
108-88-3	TOLUENE	ND	1.0	ND	0.27
100-41-4	ETHYLBENZENE	ND	1.0	ND	0.23
1330-20-7	m & p - XYLENES	ND	1.0	ND	0.23
95-47-6	o - XYLENE	ND	1.0	ND	0.23

ND = Not Detected
TR = Trace Level - Below Indicated Detection Limit

Verified By: RG Date: 1/28/00

Environmental Services Laboratory
~~Tide Mill Road, Pennington, NJ 08534~~
~~(609) 737-1951 / FAX (609) 737-1558~~

NY
(08, 17)

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE ___ OF ___

CONSULTANT: IT Corp
PHONE #: (518) 783 - 1996
SERVICE STATION #: NYSEG Norwich
LOCATION CITY: Norwich STATE: N.Y.
PROJECT MANAGER: Lew Streeter
MOBIL ENGINEER:
I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING COLLECTION OF THESE SAMPLES
SAMPLER NAME: Robert Hyde

PROJECT INFORMATION: ☐ DRINKING WATER ☐ NPDES ☐ DSW ☐ DGW ☐ RCRA OTHER: ______

SAMPLE IDENTIFICATION	COLLECTION: DATE	COLLECTION: TIME	PRESERVED: YES	PRESERVED: NO	MATRIX: WATER	MATRIX: SOIL	MATRIX: OTHER (Air)	TOTAL # OF CONTAINERS	BTEX 602 ☐ + MTBE ☐	BTEX 8020 ☐ + MTBE ☐	OIL & GREASE 413.1	524.2 ☐ + MTBE ☐ + TBA ☐	EPA TO-14
SVE EFF Leg-1	1-11-00	16:00		X			X	1					
SVE Inf Leg-1	1-11-00	16:05		X			X	1					

ESL USE ONLY
SAMPLE TEMP: °C
COOLER #:
OF PAKS:
DAMAGE: ☐ YES ☐ NO
IF YES - SEE COMMENTS
HPN:
ESL SAMPLE #

TAT: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ __ DAYS ☒ ROUTINE ☐ FAX RESULTS? (   ) -

SPECIAL REPORTING REQUIREMENTS:
Bill Directly To NYSEG ATT John Ruspantini

ESL LOG IN COMMENTS

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
Robert Hyde	1-11-00	17:00	Sharon Malone	1/14/00	0900
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY ESL:	DATE:	TIME:

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

PAGE 1 OF 1

Client : New York State Electric & Gas Corporation

Client Sample ID : SVE Final Effluent
PAI Sample ID : P2001073-001

Test Code : GC/MS Mod. EPA TO-14A
Analyst : Cindy Yoon/Chris Parnell
Instrument : HP5973/Tekmar AUTOCan Elite
Matrix : Tedlar Bag

Date Sampled : 5/3/00
Date Received : 5/5/00
Date Analyzed : 5/6/00
Volume(s) Analyzed : 0.20 Liter

D.F. = 1.00

CAS #	COMPOUND	RESULT µg/m³	REPORTING LIMIT µg/m³	RESULT ppb	REPORTING LIMIT ppb
71-43-2	Benzene	43	5.0	14	1.6
108-88-3	Toluene	150	5.0	41	1.3
100-41-4	Ethylbenzene	340	5.0	77	1.2
1330-20-7	m- & p-Xylenes	310	5.0	71	1.2
95-47-6	o-Xylene	140	5.0	33	1.2

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 5/19/00

2665 Park Center Drive, Suite D, Simi Valley, California 93065 • Phone (805) 526-7161 • Fax (805) 526-7270

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

PAGE 1 OF 1

Client : New York State Electric & Gas Corporation

Client Sample ID : SVE Between Carbons
PAI Sample ID : P2001073-002

Test Code : GC/MS Mod. EPA TO-14A
Analyst : Cindy Yoon/Chris Parnell
Instrument : HP5973/Tekmar AUTOCan Elite
Matrix : Tedlar Bag

Date Sampled : 5/3/00
Date Received : 5/5/00
Date Analyzed : 5/6/00
Volume(s) Analyzed : 0.20 Liter

D.F. = 1.00

CAS #	COMPOUND	RESULT µg/m³	REPORTING LIMIT µg/m³	RESULT ppb	REPORTING LIMIT ppb
71-43-2	Benzene	73	5.0	23	1.6
108-88-3	Toluene	53	5.0	14	1.3
100-41-4	Ethylbenzene	110	5.0	26	1.2
1330-20-7	m- & p-Xylenes	560	5.0	130	1.2
95-47-6	o-Xylene	460	5.0	110	1.2

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 5/19/00

2905 Park Center Drive, Suite D, Simi Valley, California 93065 • Phone (805) 526-7161 • Fax (805) 526-7270

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

PAGE 1 OF 1

Client : New York State Electric & Gas Corporation

Client Sample ID : SVE Blower Effluent
PAI Sample ID : P2001073-003

Test Code : GC/MS Mod. EPA TO-14A
Analyst : Cindy Yoon/Chris Parnell
Instrument : HP5973/Tekmar AUTOCan Elite
Matrix : Tedlar Bag

Date Sampled : 5/3/00
Date Received : 5/5/00
Date Analyzed : 5/6/00
Volume(s) Analyzed : 0.20 Liter

D.F. = 1.00

CAS #	COMPOUND	RESULT µg/m³	REPORTING LIMIT µg/m³	RESULT ppb	REPORTING LIMIT ppb
71-43-2	Benzene	63	5.0	20	1.6
108-88-3	Toluene	47	5.0	12	1.3
100-41-4	Ethylbenzene	40	5.0	9.3	1.2
1330-20-7	m- & p-Xylenes	150	5.0	34	1.2
95-47-6	o-Xylene	160	5.0	36	1.2

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 5/19/00

2665 Park Center Drive, Suite D, Simi Valley, California 93065 • Phone (805) 526-7161 • Fax (805) 526-7270

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

PAGE 1 OF 1

Client : New York State Electric & Gas Corporation

Client Sample ID : Method Blank
PAI Sample ID : P000506-MB

Test Code : GC/MS Mod. EPA TO-14A
Analyst : Cindy Yoon/Chris Parnell
Instrument : HP5973/Tekmar AUTOCan Elite
Matrix : Tedlar Bag

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 5/06/00
Volume(s) Analyzed : 1.00 Liter

D.F. = 1.00

CAS #	COMPOUND	RESULT µg/m³	REPORTING LIMIT µg/m³	RESULT ppb	REPORTING LIMIT ppb
71-43-2	Benzene	ND	1.0	ND	0.31
108-88-3	Toluene	ND	1.0	ND	0.27
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
1330-20-7	m- & p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 5/19/00

2665 Park Center Drive, Suite D, Simi Valley, California 93065 • Phone (805) 526-7161 • Fax (805) 526-7270

15 Century Hill Drive
P.O. Box 767
Latham, NY 12110
518-786-8100
FAX 518-786-7700

CHAIN OF CUSTODY RECORD
LABORATORY SERVICES

TASK # _____

P2001073

Client: IT Corporation
Client Contact: Grant Anderson
Project Location: Norwich, New York
Purchase Order: Direct Bill

Sampler's Name: R. Hyde (please print)
Contact:
Turnaround Time Requested: STD TAT

LAB ID	Sample ID/Description	Date Sampled	Time A = a.m. P = p.m.	Sample Type: Matrix	COMP	GRAB	# of Containers	Preservative (list by # from list below)	Analysis Required
-1	SVE Final Effluent Leg-1	5/3/00	14:30	AIR		X	1	None	EPA TO-14 (BTEX
-2	SVE Bet Carbons Leg-1		14:35				1		
-3	SVE Blower Effluent Leg-1		14:40				1		

	Date/Time		Date/Time
Sampled by: (signature)	5/3/00	Received by: (signature)	
Relinquished by: (signature)		Received by: (signature) Sharon Malone	5/5/00 0930
Relinquished by: (signature)		Received by: (signature)	
Dispatched by: (signature)		Received for Laboratory by:	

Preservatives

1. HCl
2. HNO_3
3. NaOH
4. NaS_2O_3
5. Zn Acet
6. Ascorbic
7. H_2SO_4
8. F (Filtered)
9. N (not preserved)
10. Other

Sample Condition

1. Samples intact? Y
2. Custody seals intact? Y
3. Preserved properly? Y
4. Ambient or chilled?
5. C.O.C. received with samples? Y

NOTES/COMMENTS/BILLING INFORMATION:

Direct Bill to NYSEG Attn. John Ruspantini

Method of Shipment:

Date:

APPENDIX B

LABORATORY ANALYTICAL RESULTS - GROUNDWATER

FAX TRANSMITTAL COVER SHEET

**********IMMEDIATE ATTENTION - URGENT **********

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION
Licensing and Environmental Operations
Corporate Drive, Kirkwood Industrial Park
P. O. Box 5224
Binghamton, NY 13902-5224

Date: 07/26/2000

Number of pages INCLUDING this page:

To: **Grant Anderson**

Company: IT

Fax Number: **(518) 783-8397**

From: John J. Ruspantini

Phone: (607) 762-8787

Fax: (607) 762-8451

Message...

Re: Norwich Former MGP Site
GW Monitoring for 99

Galson Laboratories

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

June 15, 1999

Mr. John Ruspantini
New York State Electric & Gas
Corporate Drive – Kirkwood
P.O. Box 5224
Binghamton, NY 13902-5224

Subject: Lost samples (L51372 Norwich Coal Tar and L51405 Ithaca Court Street)

Due to laboratory error, the following samples have not be analyzed:

Galson Login	Site	Client ID	Collect Date - Time
L51372-1	Norwich Coal Tar	NOGDD-9104/G	5/19/99 - 1330
L51405-3	Ithaca Court Street	ICGDD-8605/G	5/20/99 - 1403
L51405-4	Ithaca Court Street	ICGDD-8611/G	5/20/99 - 1147

While the extracts were on the steam bath undergoing concentration, the technician responsible inadvertently allowed them to go dry. Since no additional samples remain, no results are available. The technician has since been further trained to eliminate this from occurring in the future.

We apologize for any inconvenience this may cause you.

Please contact me with any questions or concerns.

Sincerely,
Galson Laboratories

Michael D. Buchanan
Client Services Representative
315-437-7252 ext. 232
888-577-5227 ext. 232

SEMIVOLATILE ANALYTICAL REPORT

Galson Laboratories

Client : New York State Electric & Gas
Account # : 11163
Site : Norwich Coal Tar

Date Received : 21-MAY-99
Date Sampled : 19-MAY-99
Date Extracted: 26-MAY-99

Matrix : Water
Method : SW846/3510/8270-PAH
Units : UG/L

Galson ID:	L51372-2	L51372-3	L51372-4
Client ID:	NOGDSH9104/G	NOGDXX9105/G	NOGDXX9106/G
Naphthalene	12.	4. J	4100
2-Methylnaphthalene	24.	12.	270 J
Acenaphthylene	17.	8. J	<480
Acenaphthene	21.	5. J	180 J
Dibenzofuran	1. J	<10	<480
Fluorene	7. J	4. J	50. J
Phenanthrene	4. J	3. J	86. J
Anthracene	2. J	1. J	<480
Fluoranthene	6. J	2. J	<480
Pyrene	9. J	3. J	<480
Benzo(a)anthracene	2. J	<10	<480
Chrysene	2. J	<10	<480
Benzo(b)fluoranthene	2. J	<10	<480
Benzo(k)fluoranthene	2. J	<10	<480
Benzo(a)pyrene	4. J	<10	<480
Indeno(1,2,3-cd)pyrene	<10	<10	<480
Dibenzo(a,h)anthracene	<10	<10	<480
Benzo(g,h,i)perylene	1. J	<10	<480
Dilution Factor	1	1	50
Analysis Date	06/10/99	06/10/99	06/11/99

Approved by : Oommen Kappil
Date : 14-JUN-99
QC by :
Date : 6/14/99
NYS DOH # : 11626
Footnotes:

Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Norwich Coal Tar

Date Received : 21-MAY-99
Date Sampled : 19-MAY-99
Date Extracted: 26-MAY-99

Matrix : Water
Method : SW846/3510/8270-PAH
Units : UG/L

Galson ID:	Q-6581
Client ID:	SBLK6581
Naphthalene	<10
2-Methylnaphthalene	<10
Acenaphthylene	<10
Acenaphthene	<10
Dibenzofuran	<10
Fluorene	<10
Phenanthrene	<10
Anthracene	<10
Fluoranthene	<10
Pyrene	<10
Benzo(a)anthracene	<10
Chrysene	<10
Benzo(b)fluoranthene	<10
Benzo(k)fluoranthene	<10
Benzo(a)pyrene	<10
Indeno(1,2,3-cd)pyrene	<10
Dibenzo(a,h)anthracene	<10
Benzo(g,h,i)perylene	<10
Dilution Factor	1
Analysis Date	05/28/99

Approved by : Oommen Kappil
Date : 14-JUN-99
QC by :
Date : 6/14/99
NYS DOH # : 11626
Footnotes:

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES Contract:

Lab Code: Case No.: 1 SAS No.: SDG No.: L51372

SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (DCB) #	S5 ( ) #	S6 ( ) #	S7 ( ) #	S8 ( ) #	TOT OUT
SBLK6581	69	64	78	74					0
NOGDSH9104/G	83	82	78	97					0
NOGDXX9105/G	88	87	72	101					0
NOGDXX9106/G	35	57	43	75					0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-121)
S2 (FBP)	= 2-Fluorobiphenyl	(28-123)
S3 (TPH)	= Terphenyl-d14	(21-134)
S4 (DCB)	= 1,2-Dichlorobenzene-d4	(32-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

NYSEG CHAIN OF CUSTODY RECORD

Laboratory GALSON LABORATORIES

Project Location: NOCT-05191999 / NORWICH COAL TAR
Samplers: T.M. SIENKIEWICZ, B.T. BALCHUNONIS
Affiliation: BEAK CONSULTANTS

Sample ID Code	Type	Matrix	Collection Date/Time	No. of Containers	8100		Remarks
NOGDD-9104/G	GRAB	L	05/19/99-1330	1	X	L51372-1	CONTRACT # 97-217
NOGDSH9104/G	GRAB	L	05/19/99-1335	1	X	L51372-2	BILL J.J. RUSPANTINI
NOGDXX9105/G	GRAB	L	05/19/99-1430	1	X	L51372-3	RESULTS TO J.A. LAMPHERE
NOGDXX9106/G	GRAB	L	05/19/99-1420	1	X	L51372-4	
[redacted]						06/G	

Sample lost during extraction.

Matrix Code: L=Liquid; S=Solid; A=Air

Relinquished by:	Loc: LAB	Date: 05/20/99	Time: 1145	Seals Intact	
Received by:	Loc: GALSON	Date: 5-21-99	Time: 1315	Y N NA	
Relinquished by:	Loc:	Date:	Time:	Seals Intact	
Received by:	Loc:	Date:	Time:	Y N NA	

Special Instructions / Remarks: Return Cooler (s) 1 and Foam (s) 0 or Service Charge will be applied.

Delivery Method: In Person | Common Carrier(specify) U.P.S. | Lab Courier | Other(specify)

AES: ENVIRONMENTAL TECHNICAL SERVICES
87-89 Chenango Street
P.O. Box 3607
Binghamton, NY 13902-3607
(607)722-0007 FAX (607)772-8318

Report Date: 7/9/99

Attached are the analytical results for NORWICH COAL TAR SAMPLES identification / description are listed below for your reference.

Job Name: NOCT-05191999

Sample Id	Description
NOGDD-9104	Well 9104 D
NOGDD-9211	Well 9211 D
NOGDSH9104	Well 9104 SH
NOGDSH9122	Well 9211 SH
NOGDXX9105	Well 9105
NOGDXX9106	Well 9106
NOGDXX9208	Well 9208
NOGDXX9212	Well 9212
NOGUD-9102	Well 9102 D
NOGUSH9102	Well 9102 SH
NOGUXX9101	Well 9101
NOGUXX9107	Well 9107
NOGXDUXX01	Duplicate
NOGXFBXX99	Field Blank
NOGXTBXX95	Trip Blank

David P Collins
Laboratory Director
Elap ID 10275

AES: Environmental Technical Services
87-89 Chenango Street
P.O. Box 3607
Binghamton, NY 13905-3607
(607)722-0007Fax (607)772-8318

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : **WELL 9104 D**

Sample Id : NOGDD-9104 / G
Log No : 9900002276
Collection Date\Time 05/19/1999\1330

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN		5.6				05/19/1999	
OIL/WATER INTERFACE PROBE			ft		COM	05/19/1999	NO OIL
CONDUCTIVITY		595	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.9		EPA 150.1		05/19/1999	
TEMPERATURE-CENTIGRADE)EGREES C.)		8	Deg. C	EPA 1979 (170.1)		05/19/1999	
TURBIDITY		35.8	NTU	EPA 1979 (180.1)		05/19/1999	
TOLUENE		0.4	ug/l	EPA 8020		05/26/1999	
BENZENE		2.3	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES		20.2	ug/l	EPA 8020		05/26/1999	
ETHYLBENZENE		7.0	ug/l	EPA 8020		05/26/1999	

29.9

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David Collins
Laboratory Director
Elap ID: 10275

AES: Environmental Technical Services
1 Chenango Street
Box 3607
Binghamton, NY 13905-3607
(607)722-0007Fax (607)772-8318

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : **WELL 9211 D**

Sample Id : NOGDD-9211 / G
Log No : 9900002277
Collection Date\Time 05/19/1999\1515

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN		3.5				05/19/1999	
CONDUCTIVITY		2550	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.6		EPA 150.1		05/19/1999	
PERATURE-CENTIGRADE GREES C.)		8.7	Deg. C	EPA 1979 (170.1)		05/19/1999	
TURBIDITY		2.4	NTU	EPA 1979 (180.1)		05/19/1999	
ETHYLBENZENE		1.1	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES		1.4	ug/l	EPA 8020		05/26/1999	
BENZENE		8.0	ug/l	EPA 8020		05/26/1999	
TOLUENE	LT	0.2	ug/l	EPA 8020		05/26/1999	

10.5

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David P. Collins
Laboratory Director
Etap ID: 10275

AES: Environmental Technical Services
7-89 Chenango Street
Box 3607
Binghamton, NY 13905-3607
(607)722-0007Fax (607)772-8318

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : **WELL 9104 SH**

Sample Id : NOGDSH9104/ G
Log No : 9900002276
Collection Date\Time 05/19/1999\1335

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN		4.2				05/19/1999	
OIL/WATER INTERFACE PROBE			ft		COM	05/19/1999	NO OIL
CONDUCTIVITY		545	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.5		EPA 150.1		05/19/1999	
TEMPERATURE-CENTIGRADE (DEGREES C.)		8	Deg. C	EPA 1979 (170.1)		05/19/1999	
TURBIDITY		149	NTU	EPA 1979 (180.1)		05/19/1999	
TOLUENE		1.3	ug/l	EPA 8020		05/26/1999	
BENZENE		2.8	ug/l	EPA 8020		05/26/1999	
ETHYLBENZENE		27.7	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES		29.3	ug/l	EPA 8020		05/26/1999	

61.1

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David P Collins
Laboratory Director
Elap ID: 10275

AES: Environmental Technical Services
37-89 Chenango Street
P.O. Box 3607
Binghamton, NY 13905-3607
(607)722-0007Fax (607)772-8316

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : **WELL 9211 SH**

Sample Id : NOGDSH9211 / G
Log No : 9900002279
Collection Date\Time 05/19/1999\1520

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN		3.6				05/19/1999	
CONDUCTIVITY		1030	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.9		EPA 150.1		05/19/1999	
TEMPERATURE-CENTIGRADE (DEGREES C.)		9.2	Deg. C	EPA 1979 (170.1)		05/19/1999	
TURBIDITY	GT	1000	NTU	EPA 1979 (180.1)		05/19/1999	
ETHYLBENZENE		0.5	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES		1.2	ug/l	EPA 8020		05/26/1999	
M-XYLENE		1.8	ug/l	EPA 8020		05/26/1999	
TOLUENE	LT	0.2	ug/l	EPA 8020		05/26/1999	

3.5

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David P. Collins
Laboratory Director
Elap ID: 10276

AES: Environmental Technical Services
87-89 Chenango Street
P ~ Box 3607
amton, NY 13905-3607
(...)722-0007Fax (607)772-8318

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : **WELL 9105**

Sample Id : NOGDXX9105 / G
Log No : 9900002280
Collection Date\Time 05/19/1999\1430

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN		2.6				05/19/1999	
OIL/WATER INTERFACE PROBE			ft		COM	05/19/1999	NO OIL
CONDUCTIVITY		448	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.5		EPA 150.1		05/19/1999	
TEMPERATURE-CENTIGRADE (DEGREES C.)		10.4	Deg. C	EPA 1979 (170.1)		05/19/1999	
TURBIDITY		117	NTU	EPA 1979 (180.1)		05/19/1999	
TOLUENE		1.2	ug/l	EPA 8020		05/26/1999	
...ZENE		12.1	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES		18.6	ug/l	EPA 8020		05/26/1999	
ETHYLBENZENE		49.6	ug/l	EPA 8020		05/26/1999	

81.5

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David P. Collins
Laboratory Director
Elap ID: 10275

AES: Environmental Technical Services
37-69 Chenango Street
P.O. Box 3607
Binghamton, NY 13905-3607
(607)722-0007Fax (607)772-8316

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : **WELL 9106**

Sample Id : NOGDXX9106 / G
Log No : 9900002281
Collection Date\Time 05/19/1999\1420

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN		3.4				05/19/1999	
OIL/WATER INTERFACE PROBE			ft		COM	05/19/1999	NO OIL
CONDUCTIVITY		1610	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.8		EPA 150.1		05/19/1999	
TEMPERATURE-CENTIGRADE (DEGREES C.)		11	Deg. C	EPA 1979 (170.1)		05/19/1999	
TURBIDITY		607	NTU	EPA 1979 (180.1)		05/19/1999	
TOLUENE		102	ug/l	EPA 8020		05/26/1999	
ETHYLBENZENE		1180	ug/l	EPA 8020		05/26/1999	
BENZENE		414	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES		533	ug/l	EPA 8020		05/26/1999	

2229

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David P. Collins
Laboratory Director
Etap ID: 10275

AES: Environmental Technical Services
87-89 Chenango Street
P.O. Box 3607
Binghamton, NY 13905-3607
(607)722-0007Fax (607)772-8318

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : WELL 9208

Sample Id : NOGDXX9208 / G
Log No : 9900002282
Collection Date\Time 05/19/1999\1450

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN		3.9				05/19/1999	
CONDUCTIVITY		1060	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.9		EPA 150.1		05/19/1999	
TEMPERATURE-CENTIGRADE (DEGREES C.)		9.8	Deg. C	EPA 1979 (170.1)		05/19/1999	
TURBIDITY		197	NTU	EPA 1979 (180.1)		05/19/1999	
TOTAL XYLENES		158	ug/l	EPA 8020		05/26/1999	
BENZENE		234	ug/l	EPA 8020		05/26/1999	
ETHYLBENZENE		542	ug/l	EPA 8020		05/26/1999	
TOLUENE		9.9	ug/l	EPA 8020		05/26/1999	

943.9

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David P. Collins
Laboratory Director
Elap ID: 10275

AES: Environmental Technical Services
7-89 Chenango Street
Box 3607
Binghamton, NY 13905-3607
(607)722-0007Fax (607)772-8318

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : DUPLICATE

Sample Id : NOGXDUXX96/ Q
Log No : 9900002288
Collection Date\Time 05/19/1999\1435

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN		2.6				05/19/1999	
CONDUCTIVITY		450	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.5		EPA 150.1		05/19/1999	
TEMPERATURE-CENTIGRADE (DEGREES C.)		10.4	Deg. C	EPA 1979 (170.1)		05/19/1999	
TOLUENE		1.1	ug/l	EPA 8020		05/26/1999	
BENZENE		11.4	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES		16.5	ug/l	EPA 8020		05/26/1999	
ETHYLBENZENE		44.5	ug/l	EPA 8020		05/26/1999	

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David P. Collins
Laboratory Director
Etap ID: 10275

AES: Environmental Technical Services
87-89 Chenango Street
P.O. Box 3607
Binghamton, NY 13905-3607
(607)722-0007Fax (607)772-8318

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05181999

Sample Description : **FIELD BLANK**

Sample Id : NOGXFBXX99 / Q
Log No : 9900002289
Collection Date\Time 05/19/1999\630

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
VOLATILE ORGANIC VAPORS		0.0				05/19/1999	
DISSOLVED OXYGEN					MR	05/19/1999	
CONDUCTIVITY		7.8	UMHO/CM	EPA 120.1		05/19/1999	
PH-FIELD		6.7		EPA 150.1		05/19/1999	
TEMPERATURE-CENTIGRADE (DEGREES C.)			Deg. C	EPA 1979 (170.1)	MR	05/19/1999	
BENZENE	LT	0.2	ug/l	EPA 8020		05/26/1999	
ETHYLBENZENE	LT	0.2	ug/l	EPA 8020		05/26/1999	
TOLUENE	LT	0.2	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES	LT	0.2	ug/l	EPA 8020		05/26/1999	

Sample Description : **MATRIX DUPLICATE**

Sample Id : NOGXMDXX99/ Q
Log No : 9900002290
Collection Date\Time 05/19/1999\1422

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
SW-846 METHOD 8020				SW846 8020	NR	05/20/1999	

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David R Collins
Laboratory Director
Elap ID: 10275

AES: Environmental Technical Services
87-89 Chenango Street
P.O. Box 3607
'amton, NY 13905-3607
722-0007Fax (607)772-8318

Report Date: 07/08/1999

Laboratory Report

Job Name : NOCT-05191999

Sample Description : **MATRIX SPIKE**

Sample Id : NOGXMSXX97/ Q
Log No : 9900002291
Collection Date\Time 05/19/1999\1425

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
SW-846 METHOD 8020				SW846 8020	NR	05/20/1999	

Sample Description : **TRIP BLANK**

Sample Id : NOGXTBXX95/ Q
Log No : 9900002292
Collection Date\Time 05/19/1999\835

Analysis Name	Notation	Result	Units	Analysis Method	Qual	Analysis Date	Result Comment
ZENE	LT	0.2	ug/l	EPA 8020		05/26/1999	
ETHYLBENZENE	LT	0.2	ug/l	EPA 8020		05/26/1999	
TOLUENE	LT	0.2	ug/l	EPA 8020		05/26/1999	
TOTAL XYLENES	LT	0.2	ug/l	EPA 8020		05/26/1999	

If you have any question regarding this report, please contact Jim Lamphere at ext. 228

LT means less than
GT means greater than
PPM= mg/kg
PPB = ug/kg or ug/l

David P Collins
Laboratory Director
Elap ID: 10275

ELS Ltd
Eastern Laboratory Services Ltd
quality ■ accuracy ■ reliability

ENVIRONMENTAL
390 Pennsylvania Avenue
S. Waverly, PA 18840
Phone (570) 888-0169
Fax (570) 888-0717

LABORATORY REPORT

NY DOH # 11216 CT # PH-0201
PA DEP # 08380 ICR PA017

Client: NYSEG-Binghamton
FEDID#0822766
87-89 Chenango Street
Binghamton NY 13902

ATT: Jim Lamphere

Sample ID #: 99-05-19-112
Sample Date: 05/19/99
Sample Time: 13:30
Sampled by: TMS
Received by: TJC
Date & Time Recd: 05/19/99 17:45

Project Description: Norwich Coal Tar
Sample Location: NOGDD-9104
Sample Matrix: DRINKING WATER

Parameter	Results	Detection Limit (DL) Max. Cont. Level (MCL)	Method	Extracted	Analyzed	Analys
Standard Plate Count	>2,000 / 1 ml	500 col / 1 ml	MCL SM 18,9215B		05/19/99	CZ

Reviewed by: Caroline Zimmer
Caroline Zimmer
Microbiology Supervisor

INTERPRETATION OF TOTAL COLIFORM RESULTS

INDICATE THAT THE SAMPLE WAS TESTED AND IS CURRENTLY IN COMPLIANCE WITH THE BACTERIOLOGICAL DRINKING WATER STANDARDS, AS ESTABLISHED UNDER THE SAFE DRINKING WATER ACT OF THE ENVIRONMENTAL PROTECTION AGENCY.

ELS Ltd
Eastern Laboratory Services Ltd
quality ■ accuracy ■ reliability

ENVIRONMENTAL
390 Pennsylvania Avenue
S. Waverly, PA 18840
Phone (570) 888-0169
Fax (570) 888-0717

LABORATORY REPORT

NY DOH # 11216 CT # PH-0201
PA DEP # 08380 ICR PA017

Client: NYSEG-Binghamton
FEDID#0822766
87-89 Chenango Street
Binghamton NY 13902

ATT: Jim Lamphere

Sample ID #: 99-05-19-114
Sample Date: 05/19/99
Sample Time: 13:35
Sampled by: TMS
Received by: TJC
Date & Time Recd: 05/19/99 17:45

Project Description: Norwich Coal Tar
Sample Location: NOGDSH9104
Sample Matrix: DRINKING WATER

Parameter	Results	Detection Limit (DL) Max. Cont. Level (MCL)	Method	Extracted	Analyzed	Analys
Standard Plate Count	1600 / 1 ml	500 col / 1 ml	MCL SM 18,9215B		05/19/99	CZ

Reviewed by: Caroline Zimmer
Caroline Zimmer
Microbiology Supervisor

INTERPRETATION OF TOTAL COLIFORM RESULTS

INDICATE THAT THE SAMPLE WAS TESTED AND IS CURRENTLY IN COMPLIANCE WITH THE BACTERIOLOGICAL DRINKING WATER STANDARDS, AS ESTABLISHED UNDER THE SAFE DRINKING WATER ACT OF THE ENVIRONMENTAL PROTECTION AGENCY.

ELS Ltd
Eastern Laboratory Services Ltd
quality ■ accuracy ■ reliability

ENVIRONMENTAL
390 Pennsylvania Avenue
S. Waverly, PA 18840
Phone (570) 888-0169
Fax (570) 888-0717

LABORATORY REPORT

NY DOH # 11216 CT # PH-0201
PA DEP # 08380 ICR PA017

Client: NYSEG-Binghamton
FEDID#0822766
87-89 Chenango Street
Binghamton NY 13902

ATT: Jim Lamphere

Sample ID #: 99-05-19-111
Sample Date: 05/19/99
Sample Time: 14:30
Sampled by: TMS
Received by: TJC
Date & Time Recd: 05/19/99 17:45

Project Description: Norwich Coal Tar
Sample Location: NOGDXX9105
Sample Matrix: DRINKING WATER

Parameter	Results	Detection Limit (DL) Max. Cont. Level (MCL)		Method	Extracted	Analyzed	Analys
Standard Plate Count	200 / 1 ml	500 col / 1 ml	MCL	SM 18,9215B		05/19/99	CZ

Reviewed by: Caroline Zimmer
Caroline Zimmer
Microbiology Supervisor

INTERPRETATION OF TOTAL COLIFORM RESULTS

INDICATE THAT THE SAMPLE WAS TESTED AND IS CURRENTLY IN COMPLIANCE WITH THE BACTERIOLOGICAL DRINKING WATER STANDARDS, AS ESTABLISHED UNDER THE SAFE DRINKING WATER ACT OF THE ENVIRONMENTAL PROTECTION AGENCY.

ELS Ltd
Eastern Laboratory Services Ltd
quality ■ accuracy ■ reliability

ENVIRONMENTAL
390 Pennsylvania Avenue
S. Waverly, PA 18840
Phone (570) 888-0169
Fax (570) 888-0717

LABORATORY REPORT

NY DOH # 11216 CT # PH-0201
PA DEP # 08380 ICR PA017

Client: NYSEG-Binghamton
FEDID#0822766
87-89 Chenango Street
Binghamton NY 13902

ATT: Jim Lamphere

Sample ID #: 99-05-19-113
Sample Date: 05/19/99
Sample Time: 14:20
Sampled by: TMS
Received by: TJC
Date & Time Recd: 05/19/99 17:45

Project Description: Norwich Coal Tar
Sample Location: NOGDXX9106
Sample Matrix: DRINKING WATER

Parameter	Results	Detection Limit (DL) Max. Cont. Level (MCL)		Method	Extracted	Analyzed	Analys
Standard Plate Count	>2,000 / 1 ml	500 col / 1 ml	MCL	SM 18,9215B		05/19/99	CZ

Reviewed by: Caroline Zimmer
Caroline Zimmer
Microbiology Supervisor

INTERPRETATION OF TOTAL COLIFORM RESULTS

INDICATE THAT THE SAMPLE WAS TESTED AND IS CURRENTLY IN COMPLIANCE WITH THE BACTERIOLOGICAL DRINKING WATER STANDARDS, AS ESTABLISHED UNDER THE SAFE DRINKING WATER ACT OF THE ENVIRONMENTAL PROTECTION AGENCY.

NYSEG CHAIN OF CUSTODY RECORD

Laboratory: GALSON LABORATORIES

Project Location: OCT-05191999 / NORWICH COAL TAR
Samplers: J.M. SIENKIEWICZ, B.T. BALCHUNONIS
Affiliation: BEAK CONSULTANTS

Sample ID Code	Type	Matrix	Collection Date/Time	No. of Containers	8010	
OOGDD-9104/G	GRAB	L	05/19/99-1330	1	X	
OOGDSH9104/G	GRAB	L	05/19/99-1335	1	X	
OOGDXX9105/G	GRAB	L	05/19/99-1430	1	X	
OOGDXX9106/G	GRAB	L	05/19/99-1420	1	X	
~~OOGHD-G106/G~~	~~GRAB~~	~~L~~	~~05/19/99-1405~~	~~1~~	~~X~~	

CONTRACT Remarks: 97-217
BILL J.J. RUSSIANIELLO
RESULTS TO J.A. LAMPHERE

Matrix Code: L=Liquid; S=Solid; A=Air

Relinquished by:	Loc: LAB	Date: 05/20/99	Time: 1145	Seals Intact Y N NA
Received by:	Loc:	Date:	Time:	
Relinquished by:	Loc:	Date:	Time:	Seals Intact Y N NA
Received by:	Loc:	Date:	Time:	

Special Instructions / Remarks: Return Cooler (s) 1 and Foam (s) 0 or Service Charge will be applied.

Delivery Method: In Person | Common Carrier(specify) U.P.S. | Lab Courier | Other(specify)

05/18/99

AES : ENVIRONMENTAL TECHNICAL SERVICES
CHAIN OF CUSTODY RECORD

SAMPLE COLLECTION PERSONNEL: TMS, BMB

PROJECT : NOCT / NORWICH COAL TAR 07.14.680.20.84

Tally of Bottles :

8020 - VOLATILE (15) 8100 - SEMI-VOL (6) FIELD (14) TOTAL COLIFORM (6)

NOGDD-9104 G	DATE : 5/19/99	TIME : 1330	NO OF CONTAINERS : 4	RNS :		
TOTAL COLIFORM	FIELD	8100 - SEMI-VOL	8020 - VOLATILE			
NOGDD-9211 G	DATE : 5/19/99	TIME : 1515	NO OF CONTAINERS : 2	RNS :		
FIELD	8020 - VOLATILE					
NOGDSH9104 G	DATE : 5/19/99	TIME : 1335	NO OF CONTAINERS : 4	RNS :		
TOTAL COLIFORM	FIELD	8100 - SEMI-VOL	8020 - VOLATILE			
NOGDSH9211 G	DATE : 5/19/99	TIME : 1520	NO OF CONTAINERS : 2	RNS :		
FIELD	8020 - VOLATILE					
NOGDXX9105 G	DATE : 5/19/99	TIME : 1430	NO OF CONTAINERS : 4	RNS :		
TOTAL COLIFORM	FIELD	8100 - SEMI-VOL	8020 - VOLATILE			
NOGDXX9106 G	DATE : 5/19/99	TIME : 1420	NO OF CONTAINERS : 4	RNS :		
TOTAL COLIFORM	FIELD	8100 - SEMI-VOL	8020 - VOLATILE			
NOGDXX9208 G	DATE : 5/19/99	TIME : 1450	NO OF CONTAINERS : 2	RNS :		
FIELD	8020 - VOLATILE					
NOGDXX9212 G	DATE : 5/19/99	TIME : 1445	NO OF CONTAINERS :	RNS :		
FIELD						
NOGUD-9102 G	DATE : 5/19/99	TIME : 1320	NO OF CONTAINERS : 0	RNS : F		
TOTAL COLIFORM	FIELD	8100 - SEMI-VOL	8020 - VOLATILE			
OGUSH9102 G	DATE : 5/19/99	TIME : 1322	NO OF CONTAINERS : 0	RNS : F		
TOTAL COLIFORM	FIELD	8100 - SEMI-VOL	8020 - VOLATILE			
NOGUXX9101 G	DATE : 5/19/99	TIME : 1325	NO OF CONTAINERS : 0	RNS : F		
FIELD	8020 - VOLATILE					

05/18/99

NYSEG: ENVIRONMENTAL TECHNICAL SERVICES
CHAIN OF CUSTODY RECORD

SAMPLE COLLECTION PERSONNEL JMS, BTB

PROJECT : NOCT / NORWICH COAL TAR 07.14.680.20.84

NOGUXX9107 G	DATE : 5/19/99	TIME : 1441	NO OF CONTAINERS :	RNS :
FIELD				
NOGXDUXX96 Q	DATE : 5/19/99	TIME : 1435	NO OF CONTAINERS : 2	RNS :
FIELD	8020 - VOLATILE			
NOGXFBXX99 Q	DATE : 5/19/99	TIME : 0830	NO OF CONTAINERS : 2	RNS :
FIELD	8020 - VOLATILE			
NOGXMDXX98 Q	DATE : 5/19/99	TIME : 1422	NO OF CONTAINERS : 2	RNS :
8020 - VOLATILE				
NOGXMSXX97 Q	DATE : 5/19/99	TIME : 1425	NO OF CONTAINERS : 2	RNS :
8020 - VOLATILE				
NOGXTBXX95 Q	DATE 5/19/99	TIME : 0835	NO OF CONTAINERS : 2	RNS :
8020 - VOLATILE				

RELINQUISHED FROM : _____ DATE 5/20/99 TIME 0715
RELINQUISHED TO : _____ DATE 05/20/99 TIME 0715

RELINQUISHED FROM : _____ DATE _____ TIME _____
RELINQUISHED TO : _____ DATE _____ TIME _____

SAMPLE PRESERVATION CHECKED ✓
SAMPLE SEALS INTACT ✓ YES ___ NO ___ N/A
IF NOT, INDICATE SAMPLE ID : _____

COMMENTS : PLATE COUNTS TO ELS
INACCESSIBLE WELLS NO LONGER EXIST

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-[illegible]

LABORATORY REPORT

for

NYS Electric & Gas
Kirkwood Industrial Park
Corporate Drive, PO 5224
Binghamton, NY 13902

Attention: John Ruspantini

Report date: 05/18/00
Number of samples analyzed: 7
AES Project ID: 000504 D
Invoice #: 212853

CC: IT Corp. G.A.

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW91-4SH
AES sample #: 000504 D01 Samples taken by: Robert Hyde
MATRIX: Water

Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	<0.5	ug/l	SO-A	05/09/00
Ethylbenzene	EPA-8021	<1	ug/l	SO-A	05/09/00
Toluene	EPA-8021	<1	ug/l	SO-A	05/09/00
o-Xylene	EPA-8021	3	ug/l	SO-A	05/09/00
m,p-Xylene	EPA-8021	<1	ug/l	SO-A	05/09/00
Isopropyl Benzene	EPA-8021	<1	ug/l	SO-A	05/09/00
n-Propylbenzene	EPA-8021	<1	ug/l	SO-A	05/09/00
p-Cymene	EPA-8021	<1	ug/l	SO-A	05/09/00
1,2,4-Trimethylbenzene	EPA-8021	3	ug/l	SO-A	05/09/00
1,3,5-TMB & Sec-BB Total	EPA-8021	<1	ug/l	SO-A	05/09/00
n-Butylbenzene	EPA-8021	<1	ug/l	SO-A	05/09/00
Naphthalene	EPA-8021	<5	ug/l	SO-A	05/09/00
Methyl-t-Butyl Ether	EPA-8021	<2	ug/l	SO-A	05/09/00
t-Butylbenzene	EPA-8021	<1	ug/l	SO-A	05/09/00
Naphthalene	EPA-8270	<10	ug/l	MG-BX-5	05/11/00
Acenaphthylene	EPA-8270	<10	ug/l	MG-BX-5	05/11/00
Acenaphthene	EPA-8270	10	ug/l	MG-BX-5	05/11/00
Fluorene	EPA-8270	<10	ug/l	MG-BX-5	05/11/00
Phenanthrene	EPA-8270	13	ug/l	MG-BX-5	05/11/00
Anthracene	EPA-8270	<10	ug/l	MG-BX-5	05/11/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW91-4SH
AES sample #: 000504 D01 Samples taken by: Robert Hyde Location: NYSEG Norwich
MATRIX: Water grab
Date Sampled: 05/03/00
Date sample received: 05/04/00

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Fluoranthene	EPA-8270	45	ug/l	MG-BX-5	05/11/00
Pyrene	EPA-8270	79	ug/l	MG-BX-5	05/11/00
Chrysene	EPA-8270	20	ug/l	MG-BX-5	05/11/00
Benzo(b)fluoranthene	EPA-8270	43	ug/l	MG-BX-5	05/11/00
Benzo(k)fluoranthene	EPA-8270	<10	ug/l	MG-BX-5	05/11/00
Benzo(a)pyrene	EPA-8270	36	ug/l	MG-BX-5	05/11/00
ndeno(1,2,3-cd)pyrene	EPA-8270	21	ug/l	MG-BX-5	05/11/00
Dibenzo(a,h)anthracene	EPA-8270	<10	ug/l	MG-BX-5	05/11/00
Benzo(g,h,i)perylene	EPA-8270	36	ug/l	MG-BX-5	05/11/00
Benzo(a)anthracene	EPA-8270	21	ug/l	MG-BX-5	05/11/00
2-Methylnaphthalene	EPA-8270	<10	ug/l	MG-BX-5	05/11/00
Dibenzofuran	EPA-8270	<10	ug/l	MG-BX-5	05/11/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW91-4D
AES sample #: 000504 D02
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	<0.5	ug/l	SO-A	05/09/00
Ethylbenzene	EPA-8021	<1	ug/l	SO-A	05/09/00
Toluene	EPA-8021	<1	ug/l	SO-A	05/09/00
o-Xylene	EPA-8021	1	ug/l	SO-A	05/09/00
m,p-Xylene	EPA-8021	<1	ug/l	SO-A	05/09/00
Isopropyl Benzene	EPA-8021	<1	ug/l	SO-A	05/09/00
n-Propylbenzene	EPA-8021	<1	ug/l	SO-A	05/09/00
p-Cymene	EPA-8021	<1	ug/l	SO-A	05/09/00
1,2,4-Trimethylbenzene	EPA-8021	4	ug/l	SO-A	05/09/00
1,3,5-TMB & Sec-BB Total	EPA-8021	3	ug/l	SO-A	05/09/00
n-Butylbenzene	EPA-8021	1	ug/l	SO-A	05/09/00
Naphthalene	EPA-8021	22	ug/l	SO-A	05/09/00
Methyl-t-Butyl Ether	EPA-8021	<2	ug/l	SO-A	05/09/00
t-Butylbenzene	EPA-8021	<1	ug/l	SO-A	05/09/00
Naphthalene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Acenaphthylene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Acenaphthene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Fluorene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Phenanthrene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Anthracene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW91-4D
AES sample #: D00504 D02
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Fluoranthene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Pyrene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Chrysene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(b)fluoranthene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(k)fluoranthene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(a)pyrene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Indeno(1,2,3-cd)pyrene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Dibenzo(a,h)anthracene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(g,h,i)perylene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(a)anthracene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
2-Methylnaphthalene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Dibenzofuran	EPA-8270	<10	ug/l	MG-BX-5	05/10/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW91-6
AES sample #: 000504 003
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	360	ug/l	SO-A	05/09/00
Ethylbenzene	EPA-8021	1100	ug/l	SO-A	05/09/00
Toluene	EPA-8021	110	ug/l	SO-A	05/09/00
o-Xylene	EPA-8021	420	ug/l	SO-A	05/09/00
m,p-Xylene	EPA-8021	180	ug/l	SO-A	05/09/00
Isopropyl Benzene	EPA-8021	61	ug/l	SO-A	05/09/00
n-Propylbenzene	EPA-8021	23	ug/l	SO-A	05/09/00
p-Cymene	EPA-8021	<20	ug/l	SO-A	05/09/00
1,2,4-Trimethylbenzene	EPA-8021	350	ug/l	SO-A	05/09/00
1,3,5-TMB & Sec-BB Total	EPA-8021	230	ug/l	SO-A	05/09/00
n-Butylbenzene	EPA-8021	33	ug/l	SO-A	05/09/00
Naphthalene	EPA-8021	5500	ug/l	SO-A	05/09/00
Methyl-t-Butyl Ether	EPA-8021	<40	ug/l	SO-A	05/09/00
t-Butylbenzene	EPA-8021	<20	ug/l	SO-A	05/09/00
Naphthalene	EPA-8270	2000	ug/l	MG-BX-5	05/11/00
Acenaphthylene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Acenaphthene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Fluorene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Phenanthrene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Anthracene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW91-6
AES sample #: 000504 D03
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Fluoranthene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Pyrene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Chrysene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Benzo(b)fluoranthene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Benzo(k)fluoranthene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Benzo(a)pyrene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Indeno(1,2,3-cd)pyrene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Dibenzo(a,h)anthracene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Benzo(g,h,i)perylene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Benzo(a)anthracene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
2-Methylnaphthalene	EPA-8270	<200	ug/l	MG-BX-5	05/11/00
Dibenzofuran	EPA-8270	<200	ug/l	MG-BX-5	05/11/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW92-11D
AES sample #: 000504 D04 Samples taken by: Robert Hyde
MATRIX: Water

Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	110	ug/l	SO-A	05/09/00
Ethylbenzene	EPA-8021	38	ug/l	SO-A	05/09/00
Toluene	EPA-8021	<20	ug/l	SO-A	05/09/00
o-Xylene	EPA-8021	34	ug/l	SO-A	05/09/00
m,p-Xylene	EPA-8021	<20	ug/l	SO-A	05/09/00
Isopropyl Benzene	EPA-8021	<20	ug/l	SO-A	05/09/00
n-Propylbenzene	EPA-8021	<20	ug/l	SO-A	05/09/00
p-Cymene	EPA-8021	<20	ug/l	SO-A	05/09/00
1,2,4-Trimethylbenzene	EPA-8021	<20	ug/l	SO-A	05/09/00
1,3,5-TMB & Sec-BB Total	EPA-8021	<20	ug/l	SO-A	05/09/00
n-Butylbenzene	EPA-8021	<20	ug/l	SO-A	05/09/00
Naphthalene	EPA-8021	430	ug/l	SO-A	05/09/00
Methyl-t-Butyl Ether	EPA-8021	<40	ug/l	SO-A	05/09/00
t-Butylbenzene	EPA-8021	<20	ug/l	SO-A	05/09/00
Naphthalene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Acenaphthylene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Acenaphthene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Fluorene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Phenanthrene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Anthracene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW92-11D
AES sample #: 000504 D04
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Fluoranthene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
rene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Chrysene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(b)fluoranthene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(k)fluoranthene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(a)pyrene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
ndeno(1,2,3-cd)pyrene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Dibenzo(a,h)anthracene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(g,h,i)perylene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
Benzo(a)anthracene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
2-Methylnaphthalene	EPA-8270	<10	ug/l	MG-BX-5	05/10/00
ibenzofuran	EPA-8270	<10	ug/l	MG-BX-5	05/10/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW92-11D MS
AES sample #: 000504 D05
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	119	%	SO-A	05/10/00
Ethylbenzene	EPA-8021	ND	%	SO-A	05/10/00
Toluene	EPA-8021	111	%	SO-A	05/10/00
o-Xylene	EPA-8021	120	%	SO-A	05/10/00
m,p-Xylene	EPA-8021	111	%	SO-A	05/10/00
Isopropyl Benzene	EPA-8021	ND	%	SO-A	05/10/00
n-Propylbenzene	EPA-8021	ND	%	SO-A	05/10/00
p-Cymene	EPA-8021	ND	%	SO-A	05/10/00
1,2,4-Trimethylbenzene	EPA-8021	ND	%	SO-A	05/10/00
1,3,5-TMB & Sec-BB Total	EPA-8021	ND	%	SO-A	05/10/00
n-Butylbenzene	EPA-8021	ND	%	SO-A	05/10/00
Naphthalene	EPA-8021	ND	%	SO-A	05/10/00
Methyl-t-Butyl Ether	EPA-8021	ND	%	SO-A	05/10/00
t-Butylbenzene	EPA-8021	ND	%	SO-A	05/10/00
1,2,4 Trichlorobenzene	EPA-8270	46	%	MG-BX-5	05/10/00
Acenaphthene	EPA-8270	91	%	MG-BX-5	05/10/00
2,4-Dinitrotoluene	EPA-8270	65	%	MG-BX-5	05/10/00
Pyrene	EPA-8270	73	%	MG-BX-5	05/10/00
N-Nitroso-di-n-propylamine	EPA-8270	91	%	MG-BX-5	05/10/00
1,4-Dichlorobenzene	EPA-8270	40	%	MG-BX-5	05/10/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW92-11D MS
AES sample #: 000504 D05
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,4-Dichlorobenzene		EPA-8270	40	%	MG-BX-5	05/10/00
Pentachlorophenol		EPA-8270	ND	%	MG-BX-5	05/10/00
enol		EPA-8270	ND	%	MG-BX-5	05/10/00
2-Chlorophenol		EPA-8270	ND	%	MG-BX-5	05/10/00
4-Chloro-3-methylphenol		EPA-8270	ND	%	MG-BX-5	05/10/00
4-Nitrophenol		EPA-8270	ND	%	MG-BX-5	05/10/00
Dibenzofuran		EPA-8270	ND	%	MG-BX-5	05/10/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW92-11D MSD
AES sample #: D00504 D06
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	130	%	SO-A	05/10/00
Ethylbenzene	EPA-8021	ND	%	SO-A	05/10/00
Toluene	EPA-8021	119	%	SO-A	05/10/00
o-Xylene	EPA-8021	130	%	SO-A	05/10/00
m,p-Xylene	EPA-8021	118	%	SO-A	05/10/00
Isopropyl Benzene	EPA-8021	ND	%	SO-A	05/10/00
n-Propylbenzene	EPA-8021	ND	%	SO-A	05/10/00
p-Cymene	EPA-8021	ND	%	SO-A	05/10/00
1,2,4-Trimethylbenzene	EPA-8021	ND	%	SO-A	05/10/00
1,3,5-TMB & Sec-BB Total	EPA-8021	ND	%	SO-A	05/10/00
n-Butylbenzene	EPA-8021	ND	%	SO-A	05/10/00
Naphthalene	EPA-8021	ND	%	SO-A	05/10/00
Methyl-t-Butyl Ether	EPA-8021	ND	%	SO-A	05/10/00
t-Butylbenzene	EPA-8021	ND	%	SO-A	05/10/00
1,2,4 Trichlorobenzene	EPA-8270	44	%	MG-BX-5	05/10/00
Acenaphthene	EPA-8270	84	%	MG-BX-5	05/10/00
2,4-Dinitrotoluene	EPA-8270	52	%	MG-BX-5	05/10/00
Pyrene	EPA-8270	55	%	MG-BX-5	05/10/00
N-Nitroso-di-n-propylamine	EPA-8270	81	%	MG-BX-5	05/10/00
1,4-Dichlorobenzene	EPA-8270	36	%	MG-BX-5	05/10/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: GW92-11D MSD
AES sample #: 000504 D06
Samples taken by: Robert Hyde
MATRIX: Water
Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,4-Dichlorobenzene	EPA-8270	36	%	MG-BX-5	05/10/00
Pentachlorophenol	EPA-8270	ND	%	MG-BX-5	05/10/00
Phenol	EPA-8270	ND	%	MG-BX-5	05/10/00
2-Chlorophenol	EPA-8270	ND	%	MG-BX-5	05/10/00
4-Chloro-3-methylphenol	EPA-8270	ND	%	MG-BX-5	05/10/00
4-Nitrophenol	EPA-8270	ND	%	MG-BX-5	05/10/00
ibenzofuran	EPA-8270	ND	%	MG-BX-5	05/10/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 000504 D07 Samples taken by: Robert Hyde
MATRIX: Water

Date Sampled: 05/03/00
Date sample received: 05/04/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	<0.5	ug/l	SO-A	05/10/00
ylbenzene	EPA-8021	<1	ug/l	SO-A	05/10/00
Toluene	EPA-8021	<1	ug/l	SO-A	05/10/00
o-Xylene	EPA-8021	<1	ug/l	SO-A	05/10/00
m,p-Xylene	EPA-8021	<1	ug/l	SO-A	05/10/00
Isopropyl Benzene	EPA-8021	<1	ug/l	SO-A	05/10/00
-Propylbenzene	EPA-8021	<1	ug/l	SO-A	05/10/00
p-Cymene	EPA-8021	<1	ug/l	SO-A	05/10/00
1,2,4-Trimethylbenzene	EPA-8021	<1	ug/l	SO-A	05/10/00
1,3,5-TMB & Sec-BB Total	EPA-8021	<1	ug/l	SO-A	05/10/00
n-Butylbenzene	EPA-8021	<1	ug/l	SO-A	05/10/00
Naphthalene	EPA-8021	<5	ug/l	SO-A	05/10/00
Methyl-t-Butyl Ether	EPA-8021	<2	ug/l	SO-A	05/10/00
t-Butylbenzene	EPA-8021	<1	ug/l	SO-A	05/10/00

APPROVED BY: Lara Dell
Report date: 05/18/00

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

(NYSEG)

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS: (Names)
FT CORP	NYSEG Norwich	Robert Hyde
ADDRESS	**PO NUMBER**	**SAMPLERS: (Signature)**
13 British Am Blvd	# B398899	[signature]

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
~~000504~~ 001	GW91-15H	5-3-00	1600 P	W		X	3	EPA 8021, EPA 8270 PAH's OW* + stars of BAH
002	GW91-10		1615 P	W		X	3	↓
003	GW-91-6		1630 P	W		X	3	↓
004	GW92-11D		1645 P	W		X	3	↓
005/6	GW92-11D MS/MSD		1645 P	W		X	3	↓
007	Trip Blank			WA		X	1	VOAs

* Provided Bottles Are Unpreserved.

* NOTE: HCL in VOA vials per S. O'Neill 5/4/00 4:20 pm

* 8270 is not fixed

Turnaround Time: STD TAT	Laboratory Approval:	
Relinquished by: (Signature) [signature]	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Dispatched by: (Signature) Date/Time	Received for Laboratory by: M. L[signature]	Date/Time 5/4/00 855 AM
Method of Shipment:	Send Report To:	Client Phone No.:

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

Adirondack Environmental Services Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

LABORATORY REPORT

for

NYS Electric & Gas
Kirkwood Industrial Park
Corporate Drive, PO 5224
Binghamton, NY 13902

Attention: John Ruspantini

Report date: 07/05/00
Number of samples analyzed: 3
AES Project ID: 000616AX
Invoice #: 214674

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: Sump 1S
AES sample #: 000616AX01
Samples taken by: R.Hyde
MATRIX: Water
Date Sampled: 06/15/00
Date sample received: 06/16/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	26	ug/l	SO-A	06/20/00
Ethylbenzene	EPA-8021	130	ug/l	SO-A	06/20/00
[illegible]ene	EPA-8021	<50	ug/l	SO-A	06/20/00
o-Xylene	EPA-8021	170	ug/l	SO-A	06/20/00
m,p-Xylene	EPA-8021	85	ug/l	SO-A	06/20/00
Isopropyl Benzene	EPA-8021	<50	ug/l	SO-A	06/20/00
n-Propylbenzene	EPA-8021	<50	ug/l	SO-A	06/20/00
p-Cymene	EPA-8021	<50	ug/l	SO-A	06/20/00
1,2,4-Trimethylbenzene	EPA-8021	120	ug/l	SO-A	06/20/00
1,3,5-TMB & Sec-BB Total	EPA-8021	120	ug/l	SO-A	06/20/00
n-Butylbenzene	EPA-8021	<50	ug/l	SO-A	06/20/00
Naphthalene	EPA-8021	1600	ug/l	SO-A	06/20/00
Methyl-t-Butyl Ether	EPA-8021	<100	ug/l	SO-A	06/20/00
t-Butylbenzene	EPA-8021	<50	ug/l	SO-A	06/20/00
Naphthalene	EPA-8270	1600	ug/l	MT-EX-21	07/05/00
Acenaphthylene	EPA-8270	<100	ug/l	MT-EX-21	07/05/00
Acenaphthene	EPA-8270	1300	ug/l	MT-EX-21	07/05/00
Fluorene	EPA-8270	710	ug/l	MT-EX-21	07/05/00
Phenanthrene	EPA-8270	2300	ug/l	MT-EX-21	07/05/00
Anthracene	EPA-8270	640	ug/l	MT-EX-21	07/05/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: Sump 1S
AES sample #: 000616AX01
Samples taken by: R.Hyde
MATRIX: Water
Date Sampled: 06/15/00
Date sample received: 06/16/00
Location: NYSEG Norwich
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Fluoranthene	EPA-8270	660	ug/l	MT-BX-21	07/05/00
Pyrene	EPA-8270	2600	ug/l	MT-BX-21	07/05/00
Chrysene	EPA-8270	370	ug/l	MT-BX-21	07/05/00
Benzo(b)fluoranthene	EPA-8270	170	ug/l	MT-BX-21	07/05/00
Benzo(k)fluoranthene	EPA-8270	210	ug/l	MT-BX-21	07/05/00
Benzo(a)pyrene	EPA-8270	340	ug/l	MT-BX-21	07/05/00
Indeno(1,2,3-cd)pyrene	EPA-8270	<100	ug/l	MT-BX-21	07/05/00
Dibenzo(a,h)anthracene	EPA-8270	<100	ug/l	MT-BX-21	07/05/00
Benzo(g,h,i)perylene	EPA-8270	<100	ug/l	MT-BX-21	07/05/00
Benzo(a)anthracene	EPA-8270	510	ug/l	MT-BX-21	07/05/00
2-Methylnaphthalene	EPA-8270	650	ug/l	MT-BX-21	07/05/00
Dibenzofuran	EPA-8270	<100	ug/l	MT-BX-21	07/05/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: Sump 2S
AES sample #: 000616AX02
Samples taken by: R.Hyde
MATRIX: Water
Date Sampled: 06/15/00
Date sample received: 06/16/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	<2.5	ug/l	SO-A	06/20/00
Ethylbenzene	EPA-8021	81	ug/l	SO-A	06/20/00
Toluene	EPA-8021	<5	ug/l	SO-A	06/20/00
o-Xylene	EPA-8021	60	ug/l	SO-A	06/20/00
m,p-Xylene	EPA-8021	5	ug/l	SO-A	06/20/00
Isopropyl Benzene	EPA-8021	8	ug/l	SO-A	06/20/00
n-Propylbenzene	EPA-8021	<5	ug/l	SO-A	06/20/00
p-Cymene	EPA-8021	<5	ug/l	SO-A	06/20/00
1,2,4-Trimethylbenzene	EPA-8021	99	ug/l	SO-A	06/20/00
1,3,5-TMB & Sec-BB Total	EPA-8021	34	ug/l	SO-A	06/20/00
n-Butylbenzene	EPA-8021	13	ug/l	SO-A	06/20/00
Naphthalene	EPA-8021	150	ug/l	SO-A	06/20/00
Methyl-t-Butyl Ether	EPA-8021	<10	ug/l	SO-A	06/20/00
tert-Butylbenzene	EPA-8021	<5	ug/l	SO-A	06/20/00

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: NYS Electric & Gas
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 000616AX03 Samples taken by: R.Hyde
MATRIX: Water

Date Sampled: 06/15/00
Date sample received: 06/16/00
Location: NYSEG Norwich
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8021	<0.5	ug/l	SO-D	06/19/00
Ethylbenzene	EPA-8021	<1	ug/l	SO-D	06/19/00
Toluene	EPA-8021	<1	ug/l	SO-D	06/19/00
o-Xylene	EPA-8021	<1	ug/l	SO-D	06/19/00
m,p-Xylene	EPA-8021	<1	ug/l	SO-D	06/19/00
Isopropyl Benzene	EPA-8021	<1	ug/l	SO-D	06/19/00
n-Propylbenzene	EPA-8021	<1	ug/l	SO-D	06/19/00
p-Cymene	EPA-8021	<1	ug/l	SO-D	06/19/00
1,2,4-Trimethylbenzene	EPA-8021	<1	ug/l	SO-D	06/19/00
1,3,5-TMB & Sec-BB Total	EPA-8021	<1	ug/l	SO-D	06/19/00
n-Butylbenzene	EPA-8021	<1	ug/l	SO-D	06/19/00
Naphthalene	EPA-8021	<5	ug/l	SO-D	06/19/00
Methyl-t-Butyl Ether	EPA-8021	<2	ug/l	SO-D	06/19/00
t-Butylbenzene	EPA-8021	<1	ug/l	SO-D	06/19/00

APPROVED BY: Christopher Hess
Report date: 07/05/00

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546 / 434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

NYSEG - J.R. Binghamton

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS: (Names)
IT Corp	NYSEG Norwich	Robert Hyde
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Latham N.Y.		[signature]

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
000616AX01	SJMP 1S	6-15-00	1430	W		X	3 GVA / 3 4	EPA 8021 / 8270
AX02	SJMP 2S (*)	6-15-00	1500	W		X	3 / 3 4	EPA 8021 / 8270 (*)
AX03	Trip Blank						1 GVA	

(*) NOTE (*) Called John Ruspantini 6/19/00 → 1:32 pm about bottle freezing during the weekend (AX02) → (SJMP 2S) (Bottle Cracked) Can't do analysis for 8270 but run 8021, Also faxed this copy → M. Kachel 6/19/00 → 1:40 pm

Direct Bill NYSEG
ATT John Ruspantini

Turnaround Time: STD TAT

Laboratory Approval:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	[signature]	6/16/00 09:00
[signature]		6/16/00 1535

Dispatched by: (Signature)	Date/Time	Received for Laboratory by:	Date/Time
		[signature]	6/16/00 3:30

Method of Shipment:	Send Report To:	Client Phone No.:
Hand Delivered	John Ruspantini @ NYSEG	

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

TABLE 1

BTEX Recovery

Table 1
NYSEG Former MGP Site
Norwich, New York
Air Sparge/Soil Vapor Extraction System
BTEX Recovery

Sampling Date	Run Time Since Last Visit (hrs) Available / Actual	SVE Operation Since Last O&M Visit (%)	SVE Blower Effluent Flow Velocity (6" diam.) (fpm)	Average SVE Blower Effluent Flow Rate (cfm)	Average SVE Blower Effluent PID Reading (ppmv)	SVE Blower Effluent Lab Result (BTEX only) (ppmv)	VOC Removal Rate (BTEX only) (lbs/hr)	VOC Removal Rate (total) (lbs/hr)	VOCs Recovered Since Last O&M Visit (lbs BTEX)	VOC's Recovered Since Last O&M Visit (total lbs.)	Cumulative lbs. of VOC's Recovered (lbs BTEX)	Cumulative lbs. of VOC's Recovered (total lbs.)
12/17/1999	0 / 0	0.00%	7017	1378	14.49	0.92	0.1007	0.3115	0.00	0.00	0.00	0.00
12/21/1999	96 / 90	93.75%	6933	1361	23.80	0.88	0.0952	0.4090	8.57	36.81	8.57	36.81
01/07/2000	119 / 101	84.87%	7000	1374	4.73	0.83	0.0906	0.3044	9.15	30.75	17.72	67.56
01/11/2000	96 / 93	96.88%	7000	1374	5.00	0.81	0.0885	0.1043	8.23	9.70	25.95	77.26
02/14/2000	816 / 800	98.04%	7000	1374	11.63	0.68	0.0743	0.1783	59.41	142.65	85.36	219.91
02/21/2000	168 / 165	98.21%	7000	1374	11.63	0.40	0.0437	0.2494	7.21	41.15	92.57	261.07
03/03/2000	264 / 75	28.41%	6967	1368	10.00	0.32	0.0348	0.2314	2.61	17.35	95.17	278.42
03/21/2000	432 / 428	99.07%	6967	1368	10.00	0.18	0.0196	0.2134	8.37	91.33	103.55	369.75
04/14/2000	576 / 362	62.85%	6767	1329	1.73	0.13	0.0137	0.1234	4.97	44.67	108.52	414.41
05/03/2000	456 / 453	99.34%	7300	1433	2.97	0.11	0.0126	0.0506	5.73	22.93	114.24	437.35
06/15/2000	1032 / 300	29.07%	6933	1361	0.00	0.09	0.0097	0.0323	2.92	9.70	117.16	447.05
Averages	71%		6989	1372	8.7			0.20		40.64		

Notes:

VOC concentrations are estimated for dates with no laboratory analytical available (shaded cells).

TABLE 2

Treatment System Efficiency

Table 2
NYSEG Former MGP Site
Norwich, New York
Air Sparge/Soil Vapor Extraction System
Treatment Efficiency

Date	Compound	SVE Influent (ppmv)	Carbon 1 Effluent (ppmv)	Carbon 2 Effluent (ppmv)	Carbon 1 Efficiency	Carbon 2 Efficiency
01/11/2000	Benzene	0.160	NS	0.012	NA	92.50%
	Toluene	0.100	NS	0.015	NA	85.00%
	Ethyl Benzene	0.120	NS	0.00074	NA	99.38%
	Xylenes	0.430	NS	0.00295	NA	99.31%
05/03/2000	Benzene	0.020	0.023	0.014	-15.00%	30.00%
	Toluene	0.012	0.014	0.041	-16.67%	-241.67%
	Ethyl Benzene	0.009	0.026	0.077	-179.57%	-727.96%
	Xylenes	0.070	0.24	0.104	-242.86%	-48.57%

TABLE 3

Dissolved Oxygen Measured in Monitoring Points

Table 3
Dissolved Oxygen Measured in Performance Monitoring Wells
(mg/L)

Date	Status of Sparge System/Flowrate (avg scfm/point)	SPMP-1D	SPMP-1S	SPMP-2D	SPMP-2S
2/14/00	Prior to Sparge Startup	0.70	NM	11.62	NM
2/14/00	On / 7.35	1.53	NM	12.52	NM
3/21/00	On / 7.35	9.43	9.48	0.93	5.42
5/3/00	On / 7.00	9.08	7.60	2.27	4.60
6/15/00	On / 6.12	6.40	3.22	1.80	2.98

NM - Not Measured NS - Not Sampled
Notes:
System was restarted on 6/15/00 after a significant period of downtime, resulting in lower than average dissolved oxygen levels.

TABLE 4

Monitoring Well Data

Table 4
NYSEG Norwich - Former MGP Site
Monitoring Well Data (ug/l)

	5/00		5/99		1998	
	VOCs	SVOCs	VOCs	SVOCs	VOCs	SVOCs
GW91-4SH	3.0	324.0	61.1	62.0	45.6	134.3
GW91-4D	1.0	ND	29.9	Sample Damaged @ Lab	48.1	72.0
GW91-5	NS	NS	81.5	33.0	NS	NS
GW91-6	7,670.0	ND	2,229.0	586.0	6,032.0	210.0
GW92-8D	NS	NS	943.9	NS	898.5	NS
GW-92-11D	612.0	ND	10.5	NS	70.1	NS
GW92-11SH	NS	NS	3.5	NS	3.0	NS
SPMP-1S	*6501	10,460	NS	NS	NS	NS
SPMP-2S	*450	Sample Damaged @ Lab	NS	NS	NS	NS

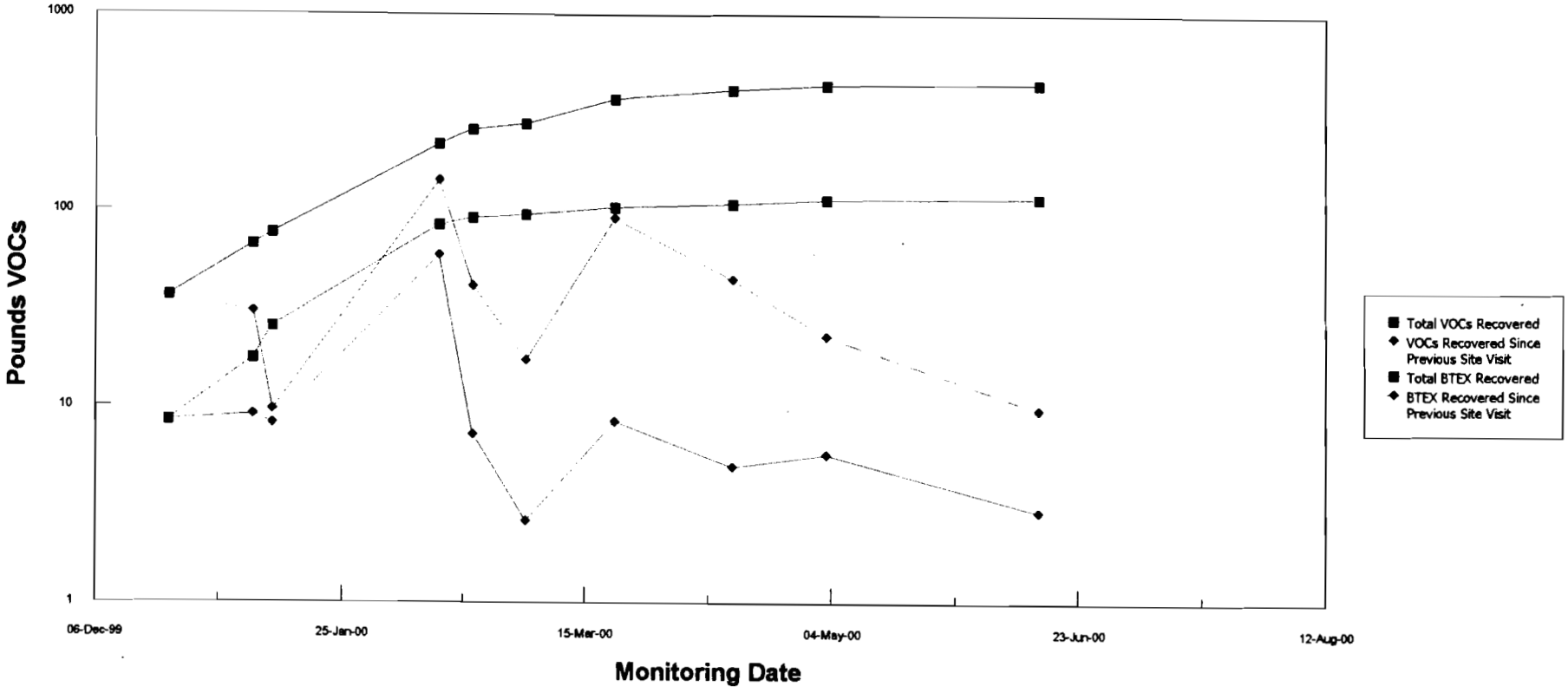
VOCs = BTEX + Napthalene
* - Samples were collected in June, 2000

FIGURE 1

Soil Vapor Extraction System VOC Recovery

Figure 1 - Soil Vapor Extraction System VOC Recovery

NYSEG Norwich



m:grant\\nyseg\norwich\8196tab1.123