

II - B

4TH QUARTER REPORT - 2010

QUARTERLY PROGRESS REPORT 4th QUARTER 2010
Operation, Maintenance and Long-term Monitoring Activities

PROJECT NAME: *Pollution Abatement Services Site*
Oswego, New York

PERIOD COVERED: October - December (4th Quarter) 2010

ACTIONS TAKEN DURING QUARTER:

- Leachate removal, and site maintenance activities were conducted at the former Pollution Abatement Services (PAS Oswego) site consistent with the Operation, Maintenance and Long-term Monitoring Activities Plan (BBL, 1998) (Work Plan).
- A total of 60,000 gallons of leachate was removed during the period of October 2010 through December 2010. Specific quantities of leachate removed during each month, along with leachate discharge documentation are described in this progress report.
- Construction of the PAS leachate discharge system was initiated on October 18, 2010 following receipt of EPA's September 30, 2010 Explanation of Significant Differences (ESD) approving the discharge of PAS leachate into the City of Oswego's Eastside Wastewater Treatment Facility. EPA's ESD acknowledged the City of Oswego wastewater discharge permit that was issued in July 2010 for the discharge of PAS leachate into the Eastside Wastewater Treatment Facility, which is located at 71 Mercer St. in Oswego. The construction of the leachate discharge system consisted of the installation of a leachate discharge pump and monitoring system in the existing site utility shed. In addition, a new piping system consisting of a force main was installed above the existing site cap, which was connected to a gravity drain line constructed in the City of Oswego right-of-way along E. Seneca Street. The integrity of the existing site cap was maintained during the installation of the force main over the top of the cap. The gravity drain line was tied into an existing City of Oswego manhole following receipt of a sewer hookup permit from the City's engineering department. Construction of the leachate discharge system was substantially completed on October 27, 2010. Leachate was first pumped from the Site and discharged into the City of Oswego sanitary sewer system on October 28, 2010.
- Routine groundwater elevation monitoring was performed at the Site on October 4, November 2 and December 6, 2010. Monthly groundwater elevation monitoring results for the SWW-series monitoring wells (SWW-1 through SWW-12), and leachate collection wells (LCW-1 through LCW- 4) were recorded on the groundwater elevation monitoring log.

- On November 2, 2010 quarterly groundwater elevation monitoring was performed. Quarterly groundwater elevation monitoring results for the M-series wells M-21 thru M-23, the LR-series wells LR-2, -3, -6 and -8, the LD-series wells LD-3, -4, -5, -6, and -8, along with wells OS-1 and -3, OI-1, OD-3 and LS-6 were recorded onto the groundwater elevation monitoring log.
- The semi-annual groundwater sampling event was conducted on November 3, 2010 for long-term monitoring wells LR-6, LR-8 and M-21, and leachate collection wells LCW-2 and LCW-4. Sampling activities for long-term monitoring wells were conducted using low-flow sampling protocols described in the Work Plan.
- Site inspection and maintenance activities were conducted on October 4 and 28, November 2 and 29, and December 6 and 29, 2010. Inspection and maintenance activities at this site included the following:
 - Visually inspected the slurry wall containment vegetated cap for signs of burrowing vermin or surface anomalies. No discrepancies were reported.
 - Visually inspected the leachate collection system pumping equipment to verify proper operation. The field technician inspected each pump control panel to ensure control systems were generally free of rodents and insects, and where properly operating. The leachate holding tank was visually inspected for integrity, as were the leachate tanks steel protective roof, and wood structure. No discrepancies were reported.
 - Visually inspected the utility shed and leachate pumping equipment, including leachate discharge pump, flow meter, suction hose, pump oil levels, heat trace power panel, interior lighting, exterior and interior shed structure, and main power distribution panel. No discrepancies were reported.
 - The single french drainage system and two concrete troughs were inspected. No discrepancies were reported.
 - The perimeter security fence was inspected to ensure the integrity and the security of the site is maintained. Security fencing was inspected for the presence of any fallen tree limbs or overgrown vegetation. The field technician removed shallow rooted vegetation (brush) or other similar vegetation that had grown up along the security fence, or had fallen onto the fence from the sites bordering woodlands.
 - The Site Inspection Checklist form was utilized to document any comments pertaining to site conditions referenced above.
 - During the months of November and December, accumulated snowfall was removed from the sites access road and gate area using a service truck with a front mounted snow plow. Accumulated snow was pushed off the sites entry road to a parking area located on the site.

- Pre-pumping inspections were conducted prior to each leachate removal event. Upon completing each monthly leachate collection well inspection, the technician manually energized three leachate collection pumps, identified as LCW-1, LCW-2 and LCW-4, in order to pump the planned volume of leachate into the leachate collection tank. The run time from each leachate collection pump, along with the leachate tank level taken upon completion of well pumping, was recorded on the Leachate Disposal Checklist.
- On October 4, 2010, O'Brien & Gere performed a monthly pre-pumping inspection of the three leachate collection wells LCW-1, -2 and -4 and pumped leachate into the leachate collection tank. The leachate pumped into the collection tank on October 4 was stored until the leachate discharge system construction was completed later in October.
- On October 28, 2010, the leachate pumped on October 4th and stored in the collection tank was discharged into the City of Oswego sanitary sewer system (the first discharge event into the City of Oswego's wastewater treatment system). During the discharge, the leachate collection pumps were activated to pump additional leachate into the collection tank sufficient for discharge of a total of 20,000 gallons into the City sanitary sewer system on October 28th. The City of Oswego was notified and inspected the leachate discharge system prior to the October 28th discharge event.
- On November 2 and December 6, 2010, O'Brien & Gere performed the monthly pre-pumping collection system inspection of leachate collection wells LCW-1, 2, & 4, along with inspection of the leachate discharge pumping system. The leachate pumping system consists of one electrically powered leachate discharge pump, flow totalizer and leachate sampling port, all located within the on-site utility shed. In advance of each leachate removal event, O'Brien & Gere contacted a City of Oswego Eastside Wastewater Treatment Facility official, to inform the City of the date leachate was planned to be discharged into the City of Oswego sanitary sewer system. The date of each leachate pumping event was acknowledged by the City of Oswego prior to the commencement of each discharge event.
- During the months of October, November and December 2010, O'Brien & Gere pumped a total of 60,000 gallons of leachate from the leachate collection tank into the City of Oswego sanitary sewer system. The amount of leachate discharged during each removal event, along with flow totalizer, pH and temperature readings, were recorded on the Leachate Disposal Checklist completed for each removal event. Each monthly leachate discharge was performed using the same discharge protocols.
- On October 28, 2010, one semi-annual leachate discharge composite sample was collected by O'Brien & Gere as required by the City of Oswego wastewater discharge permit. The sample was collected for analysis by compositing three grab samples taken from the leachate discharge pump sample port. The sample chain of custody was completed, and the sample delivered to Life Sciences Laboratories at the completion of the pumping activities.

- Upon completing each monthly removal event, the leachate discharge system was drained of residual leachate and prepared for storage. Residual leachate removed was disposed into the leachate collection tank. The leachate collection tank enclosure door was locked and secured. During cold weather operations, the discharge piping heat trace system was verified to be on, and the utility shed secured. Prior to leaving the site, O'Brien & Gere closed and secured the chain lock at the main entrance gate.
- On November 29, 2010, monitoring well LR-6 was re-sampled and vacuum and pressure gauges were installed on the leachate discharge system.
- On October 29, 2010, the site inspection and related activities required by the PAS Institutional Control Plan (ICIP) were completed. The ICIP provides that the findings of the site inspection and records review be prepared, along with a certification confirming that operation and maintenance activities continue, and be included in the annual progress report submitted to EPA each year.

DOCUMENTATION OF REMOVAL ACTIVITIES DURING QUARTER:

- The completed groundwater elevation monitoring logs for the monitoring events performed on October 4, November 2 and December 6 and 29, 2010 are attached. (See Attachment B-1)
- The completed Site Inspection Checklist forms for the monthly removal events of October 4 and 28, November 2 and 29, and December 6, 2010 are attached (See Attachment B-2).
- The completed Leachate Disposal Checklist for the monthly removal events on October 4 and 28, November 2, and December 6, 2010 are attached. (See Attachment B-2)
- A copy of the PAS Oswego Site quarterly discharge report (4th quarter 2010) submitted to the City of Oswego on January 26, 2011 is attached. (See Attachment B-3). This quarterly discharge report includes the first semi-annual leachate quality discharge sampling results conducted for the City of Oswego Wastewater Discharge Permit. The date of the leachate discharge sampling, along with the discharge flow totalizer, pH and temperature readings, are recorded on the attached Leachate Disposal Checklist forms included herein.
- The validated data for the semi-annual groundwater sampling event conducted on November 3, 2010, is attached (See Attachment B-4).
- The Institutional Controls Certification Memorandum documenting the October 29, 2010 site inspection and related activities is included as Attachment B-5.

ATTACHMENT B-1

GROUND-WATER ELEVATION DATA

O'Brien Corporation
 Site

Oswego, New York

Pre-Pumping Monitoring Well Levels

November 2, 2010

8:30 AM

Well Number	Ground		Riser		November 2010				Within Range?				Ground-Water	
	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation	Elevation			
SWW1	286.20	289.33	9.10	9.10	9.10	9.76	8.62	11.62	Yes	280.23	280.23			
SWW2	286.30	289.37	15.86	15.86	15.86	16.40	15.75	17.40	Yes	273.51	273.51			
SWW3	286.00	286.50	17.04	17.04	17.04	17.27	16.60	17.92	Yes	269.46	269.46			
SWW4	282.90	283.60	14.44	14.44	14.44	15.08	13.44	17.12	Yes	269.16	269.16			
SWW5	275.90	277.02	13.46	13.46	13.46	13.28	12.55	14.04	Yes	263.56	263.56			
SWW6	270.90	273.06	8.55	8.55	8.55	8.79	7.95	9.58	Yes	264.51	264.51			
SWW7	273.30	277.93	8.42	8.42	8.42	8.77	8.02	9.43	Yes	269.51	269.51			
SWW8	275.70	278.24	3.98	3.98	3.98	5.82	3.94	11.38	Yes	274.26	274.26			
SWW9	283.30	285.55	17.50	17.50	17.50	18.47	17.48	20.05	Yes	268.05	268.05			
SWW10	279.30	280.43	10.45	10.45	10.45	12.88	9.71	18.65	Yes	269.98	269.98			
SWW11	271.00	273.50	9.28	9.28	9.28	9.49	8.81	10.38	Yes	264.22	264.22			
SWW12	270.20	272.82	8.82	8.82	8.82	11.15	8.70	15.24	Yes	264.00	264.00			
LCW-1	271.40	272.21	9.02	9.02	9.02	8.91	8.20	9.73	Yes	263.19	263.19			
LCW-2	272.60	274.44	11.25	11.25	11.25	11.15	10.44	11.98	Yes	263.19	263.19			
LCW-3	283.30	284.36	17.40	17.40	17.40	18.22	17.90	19.56	No	266.96	266.96			
LCW-4	283.80	285.70	18.98	18.98	18.98	18.16	16.64	19.60	Yes	266.72	266.72			
OS-1	269.63	272.10	10.60	10.60	10.60	11.91	8.60	14.75		261.50	261.50			
OI-1	269.14	272.00	11.25	11.25	11.25	12.40	11.14	14.05		260.75	260.75			
OS-3	274.63	277.89	14.45	14.45	14.45	15.96	13.92	18.58		263.44	263.44			
OD-3	274.96	277.85	14.30	14.30	14.30	15.81	13.76	18.42		263.55	263.55			
LD-3	275.80	278.62	4.36	4.36	4.36	7.02	4.32	11.77		274.26	274.26			
LD-4	276.30	279.25	10.12	10.12	10.12	13.07	9.85	17.15		269.13	269.13			
LD-5	270.02	272.94	9.15	9.15	9.15	12.22	9.10	15.75		263.79	263.79			
LS-6	271.40	274.14	11.06	11.06	11.06	12.51	10.25	14.76		263.08	263.08			
LD-6	270.09	274.03	10.70	10.70	10.70	11.37	10.12	12.86		263.33	263.33			
LD-8	269.90	272.83	7.90	7.90	7.90	10.14	7.15	15.38		264.93	264.93			
LR-2	287.50	289.85	12.78	12.78	12.78	13.66	12.70	14.96		277.07	277.07			
LR-3	275.50	278.06	7.88	7.88	7.88	9.38	7.80	12.00		270.18	270.18			
LR-6	270.90	274.39	10.32	10.32	10.32	11.16	10.05	12.72		264.07	264.07			
LR-8	270.00	273.42	9.82	9.82	9.82	10.84	9.45	12.84		263.60	263.60			
M-21	270.28	272.32	9.46	9.46	9.46	10.50	9.17	12.50		262.86	262.86			
M-22	270.40	273.88	10.30	10.30	10.30	11.11	10.00	12.62		263.58	263.58			
M-23	267.98	270.49	12.44	12.44	12.44	13.06	12.35	14.25		258.05	258.05			

ATTACHMENT B-2

***SITE INSPECTION CHECKLIST
AND LEACHATE DISPOSAL CHECKLIST***



O'BRIEN & GERE

PAS Oswego
Oswego, NY

Site Inspection Checklist

Date 10-4-10

Time 9:30

Field Technician MARTIN KOENNECKE

Weather OVERCAST RAIN SHOWERS

Site Feature	Check ✓	Condition / Maintenance Performed
Cap		
Burrowing Animals	✓	NONE VISABLE
Cap vegetation	✓	GOOD
Concrete drainage trough	✓	OK
French drain	✓	OK
Weeds	✓	NA.
Leachate Collection System / Building		
Pumps	✓	Responding
Pump controls / alarms	✓	NA
Tank level	✓	7" after Pumping 48"
Monitoring Wells		
Locks	✓	OK
Riser	✓	OK
Surface completion	✓	NA
General Site Condition		
Foliage	✓	GOOD
Perimeter fence	✓	OK MARSH AREA NEED WORK
Site access driveway	✓	OK
Stream gauges	✓	NA.
Other Items		
Equipment storage shed	✓	GOOD
Fire extinguishers	✓	OK
Spill control material	✓	STOCKED
PPE	✓	STOCKED

Remarks (use separate sheet is required)

MONTHLY well levels ~~LEACHATE~~ LEACHATE PUMPED TO TANK
48" IN TANK



O'BRIEN & GERE

PAS Oswego
Oswego, NY

Site Inspection Checklist

Date 10-28-10

Time 7:30

Field Technician MARTIN KORWACZAK

Weather OVERCAST WINDY 50°

Site Feature	Check ✓	Condition / Maintenance Performed
Cap		
Burrowing Animals	✓	NONE VISIBLE
Cap vegetation	✓	GOOD
Concrete drainage trough	✓	OK
French drain	✓	OK
Weeds	✓	NA.
Leachate Collection System / Building		
Pumps	✓	Responding
Pump controls / alarms	✓	NA
Tank level	✓	7" START
Monitoring Wells		
Locks	✓	OK
Riser	✓	OK
Surface completion	✓	NA
General Site Condition		
Foliage	✓	GOOD
Perimeter fence	✓	OK
Site access driveway	✓	OK
Stream gauges	✓	NA.
Other Items		
Equipment storage shed	✓	GOOD
Fire extinguishers	✓	OK
Spill control material	✓	STOCKED
PPE	✓	STOCKED

Remarks (use separate sheet is required)

Pumping Leachate TO City of Oswego
with new pumping system, clay on site with pump Rep's
Cleared part of road side fence line



O'BRIEN & GERE

PAS Oswego
Oswego, NY

Site Inspection Checklist

Date 11-2-10

Time 8:30

Field Technician MARTIN KOENIG

Weather Conditions SUNNY 35°

Inspection Features	Check ✓	Remarks
Land Cap		
Signs of burrowing vermin	✓	NONE VISABLE
Land cap irregularities (note anomaly)	✓	NONE
French drainage system clear and function able	✓	GOOD
Concrete trough clear and function able	✓	OK
Leachate Discharge System		
City of Oswego sanitary discharge valve positioned "Open"	✓	Yes
Discharge Pump inspected & operational	✓	Yes
Discharge pump oil level verified prior to use.	✓	Yes
Discharge pump drained of residual water (drained upon completion of use)	✓	Yes
Heat trace system operational & verified in the "ON" position (during wintertime periods)	✓	OK
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	✓	Yes
Leachate Collection System		
Leachate holding tank visually inspected for structural integrity	✓	OK
Leachate holding tank metal roof inspected for structural integrity	✓	OK
Leachate tank access doors locked (post pumpout)	✓	Yes
Pump power panel(s) secured	✓	Yes
Monitoring Wells (MW)		
Locks installed	✓	Yes

11-2-10

MW's marked & identifiable	✓	OK
General Site Condition		
Trees & brush cleared off security fence	✓	WORK IN PROGRESS
Perimeter security fence intact & free of damage	✓	OK
Site access driveway inspected	✓	OK
Security access gates function able	✓	Yes
Site gate signage intact	✓	Yes
Interior & exterior of utility storage shed inspected for damage & secure with locks	✓	Yes
Fire extinguisher serviceable, inspected, and inspection recorded	✓	Yes
Spill control material inspected & adequate	✓	STOCKED
PPE available and utilized as required	✓	STOCKED
Emergency contact information posted within shed	✓	YES

Additional remarks (use separate sheet is required)

Quarterly well levels, Pumped 20,000 gallons
To City of Oswego



O'BRIEN & GERE

PAS Oswego
Oswego, NY

Site Inspection Checklist

Date 11-29-10

Time 9:00

Field Technician MARTIN KERNACKE

Weather Conditions Sunny 35°

Inspection Features	Check ✓	Remarks
Land Cap		
Signs of burrowing vermin	✓	NONE VISIBLE
Land cap irregularities (note anomaly)	✓	OK
French drainage system clear and function able	✓	OK
Concrete trough clear and function able	✓	OK
Leachate Discharge System		
City of Oswego sanitary discharge valve positioned "Open"	✓	OK
Discharge Pump inspected & operational	✓	OK
Discharge pump oil level verified prior to use.	✓	YES
Discharge pump drained of residual water (drained upon completion of use)	✓	NA
Heat trace system operational & verified in the "ON" position (during wintertime periods)	✓	NA
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	✓	OK
Leachate Collection System		
Leachate holding tank visually inspected for structural integrity	✓	OK
Leachate holding tank metal roof inspected for structural integrity	✓	OK
Leachate tank access doors locked (post pumpout)	✓	Yes
Pump power panel(s) secured	✓	Yes
Monitoring Wells (MW)		
Locks installed	✓	Yes

MW's marked & identifiable	✓	OK
General Site Condition		
Trees & brush cleared off security fence	✓	work in Progress
Perimeter security fence intact & free of damage	✓	OK
Site access driveway inspected	✓	OK
Security access gates function able	✓	yes
Site gate signage intact	✓	yes
Interior & exterior of utility storage shed inspected for damage & secure with locks	✓	Yes
Fire extinguisher serviceable, inspected, and inspection recorded	✓	Yes
Spill control material inspected & adequate	✓	STOCKED
PPE available and utilized as required	✓	STOCKED
Emergency contact information posted within shed	✓	Yes

Additional remarks (use separate sheet is required)

Second MONTHLY Site Inspection, Resample Well LR-6
 INSTALLED VACUUM AND PRESSURE GAGES IN PUMP PIPING,
 SPREAD OUT STRAW & SEEDS TRENCHED AREA FROM
 PAVED AREA TO SHED



O'BRIEN & GERE

PAS Oswego
Oswego, NY

Site Inspection Checklist

Date 12-6-10

Time 8:30

Field Technician MARTIN KOZARZEK

Weather Conditions SNOW & WIND 25°

Inspection Features	Check ✓	Remarks
Land Cap		
Signs of burrowing vermin	✓	NONE VISIBLE
Land cap irregularities (note anomaly)	✓	SNOW COVERED
French drainage system clear and function able	✓	OK
Concrete trough clear and function able	✓	OK
Leachate Discharge System		
City of Oswego sanitary discharge valve positioned "Open"	✓	Yes
Discharge Pump inspected & operational	✓	Yes
Discharge pump oil level verified prior to use.	✓	Yes
Discharge pump drained of residual water (drained upon completion of use)	✓	Yes
Heat trace system operational & verified in the "ON" position (during wintertime periods)	✓	HEAT TRACE ON
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	✓	Yes
Leachate Collection System		
Leachate holding tank visually inspected for structural integrity	✓	OK
Leachate holding tank metal roof inspected for structural integrity	✓	OK
Leachate tank access doors locked (post pumpout)	✓	Yes
Pump power panel(s) secured	✓	Yes
Monitoring Wells (MW)		
Locks installed	✓	OK

12-6-10

MW's marked & identifiable	✓	Yes
General Site Condition		
Trees & brush cleared off security fence	✓	WORK IN PROGRESS
Perimeter security fence intact & free of damage	✓	OK
Site access driveway inspected	✓	Plow site DRIVE
Security access gates function able	✓	Yes
Site gate signage intact	✓	OK
Interior & exterior of utility storage shed inspected for damage & secure with locks	✓	Yes
Fire extinguisher serviceable, inspected, and inspection recorded	✓	Yes
Spill control material inspected & adequate	✓	Yes
PPE available and utilized as required	✓	Yes.
Emergency contact information posted within shed	✓	Yes

Additional remarks (use separate sheet is required)

Plowed site, Monthly well Levels, Replaced 1/4 Suction Hose with 3" from Tank to Pump Add in Vacuum gage, Prime Pump & Pump Drawing 9" VAC. app 85 GPM Discharge, 0 Discharge Pressure



O'BRIEN & GERE

PAS Oswego
Oswego, NY

Site Inspection Checklist

Date 12-29-10

Time 9:30 AM

Field Technician MARTIN KOENNEKE

Weather Conditions SNOW SHOWERS 30°

Inspection Features	Check ✓	Remarks
Land Cap		
Signs of burrowing vermin	✓	NONE VISABLE - SNOW COVERED
Land cap irregularities (note anomaly)	✓	OK
French drainage system clear and function able	✓	OK
Concrete trough clear and function able	✓	OK
Leachate Discharge System		
City of Oswego sanitary discharge valve positioned "Open"	✓	Yes
Discharge Pump inspected & operational	✓	Yes
Discharge pump oil level verified prior to use.	✓	OK
Discharge pump drained of residual water (drained upon completion of use)	✓	Yes
Heat trace system operational & verified in the "ON" position (during wintertime periods)	✓	HEAT TRACE IS ON
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	✓	Yes
Leachate Collection System		
Leachate holding tank visually inspected for structural integrity	✓	OK
Leachate holding tank metal roof inspected for structural integrity	✓	OK
Leachate tank access doors locked (post pumpout)	✓	Yes
Pump power panel(s) secured	✓	Yes
Monitoring Wells (MW)		
Locks installed	✓	Yes

12-29-10

MW's marked & identifiable		
General Site Condition		
Trees & brush cleared off security fence	✓	WORK IN PROGRESS
Perimeter security fence intact & free of damage	✓	OK
Site access driveway inspected	✓	Plowed DRIVE
Security access gates function able	✓	Yes
Site gate signage intact	✓	Yes
Interior & exterior of utility storage shed inspected for damage & secure with locks	✓	Yes
Fire extinguisher serviceable, inspected, and inspection recorded	✓	Yes
Spill control material inspected & adequate	✓	STOCKED
PPE available and utilized as required	✓	STOCKED
Emergency contact information posted within shed	✓	Yes

Additional remarks (use separate sheet is required)

Plowed DRIVE, SHOveLED OUT Gate

2ND MONTHLY site Inspection

Bumped pump NOT FROZEN up; HEAT TRACE IS ON



**PAS Site
Oswego, New York**

Leachate Disposal Checklist

Field Technician: MARTIN KOENNECKE Time on-site: 9:30
 Transportation Subcontractor: NA.
 Leachate Destination: NA.
 Date: 10-4-10

Well	Leachate Collection Well Pumping		Well Pumping Flow Rate Analyses		Flow Rate Calculation
	Start Time	Stop Time	Time	Tank Elev. (Down)	
LCW-1	11:00	12:20			
LCW-2	11:00	12:20			
LCW-3	NOT PUMPED				
LCW-4	11:00	12:20			
Leachate Holding Tank Height:					
Start	7"				
Stop	48"				
End					
Initial Flow Meter Reading:					
Final Flow Meter Reading:					

Load	(Pre-Loading) Tanker		(Post-Loading) Tanker		Destination	Gallons
	Time Start	Confirmed Clean	Time Stop	Tanker Volume (by Stick Mass)	Manifest(s) Numbers	
Load #1						
Load #2						
Load #3						
Load #4						



O'BRIEN & GERE

PAS Site Oswego, New York

Leachate Discharge Form

Date: 10-28-10

Time: 7:30

Field Technician MARTIN Kiermacker

Weather Conditions overcast 50°

Well Pump	<i>Pre-Discharge Well Pumping</i>				
	Pump Start Time	Pump Stop Time	Tank Elevation	Flow Rate (est)	Gallons Pumped (est)
LCW-1	13:45	14:30		} 1606 pm	
LCW-2	13:45	14:30			
LCW-3	NOT PUMPED				
LCW-4	13:45	14:30			
Total					

END TANK 7.5"

Discharge #	<i>Leachate Discharge Pumping (Monthly)</i>						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	11:00	17:20	6.6	52°F	0.0	20,000	20,000
Discharge #2							
Total							

	<i>Leachate Discharge Sampling (Semi-Annually)</i>					
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature
Sample #1	10-28-10	Sample Port		12:25	6.6	52°F
Sample #2 (if required)						



O'BRIEN & GERE

PAS Site Oswego, New York

Leachate Discharge Form

Date: 11-2-10

Time: 8:30

Field Technician MARTIN KOENWECKE

Weather Conditions Sunny 35°

Well Pump	Pre-Discharge Well Pumping				
	Pump Start Time	Pump Stop Time	Tank Elevation	Flow Rate (est)	Gallons Pumped (est)
LCW-1	9:45	11:30	13:45		
LCW-2	9:45	11:30	13:45		
LCW-3	NOT PUMPED				
LCW-4	9:45	11:30	13:45		
Total					

TANK - 8" After Discharge

Discharge #	Leachate Discharge Pumping (Monthly)						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	10:15	16:40	6.4	50°F	20,000	40,000	20,000
Discharge #2							
Total							

Leachate Discharge Sampling (Semi-Annually)

	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature
Sample #1	11-2-10	SAMPLE PORT EFFLUENT	CYANIDE	11:00	6.4	50°F
Sample #2 (if required)						



O'BRIEN & GERE

PAS Site
Oswego, New York

Leachate Discharge Form

Date: 12-6-10

Time: 8:30

Field Technician Martin Kammiller

Weather Conditions Snow & Wind
25°

Well Pump	Pre-Discharge Well Pumping				
	Pump Start Time	Pump Stop Time	Tank Elevation	Flow Rate (est)	Gallons Pumped (est)
LCW-1	12:50	14:55			
LCW-2	12:50	14:55			
LCW-3	N/A	N/A			
LCW-4	12:50	14:55			
Total					

Discharge #	Leachate Discharge Pumping (Monthly)						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	13:20	17:20	6.7	50°	40,000	60,000	20,000
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
	85	15 min	Ø PSI	9"			
Sample #1	Leachate Discharge Sampling (Semi-Annually)						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1	N/A						
Sample #2 (if required)	N/A						



O'BRIEN & GERE

**PAS Site
Oswego, New York**

Leachate Discharge Form

Date: 12-6-10

Time: 8:30

Field Technician MARTIN Koennake

Weather Conditions WIND + SNOW 25°

Well Pump	<i>Pre-Discharge Well Pumping</i>				
	Pump Start Time	Pump Stop Time	Tank Elevation	Flow Rate (est)	Gallons Pumped (est)
LCW-1	12:50	14:50			
LCW-2	12:50	14:50			
LCW-3	NOT PUMPED				
LCW-4	12:50	14:50			
Total					

Discharge #	<i>Leachate Discharge Pumping (Monthly)</i>						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	13:20	17:20	6.7	50°	40,000	60,000	20,000
Discharge #2							
Total	! Pump time does not include setup.						
	<i>Leachate Discharge Sampling (Semi-Annually)</i>						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1							
Sample #2 (if required)							

ATTACHMENT B-3

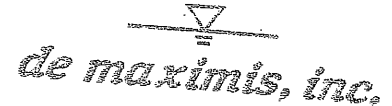
*CITY OF OSWEGO DISCHARGE REPORT
4TH QUARTER 2010*



450 Montbrook Lane
Knoxville, TN 37919
(865) 691-5052
(865) 691-6485 FAX
(865) 691-9835 ACCT. FAX

RECEIVED

JAN 31 2011



January 26, 2011

Mr. Anthony A. Leotta, P.E.
City Engineer
City Hall
Oswego, New York 13126

**Re: Quarterly Discharge Report - 4th Quarter 2010
Pollution Abatement Services Site – Oswego, New York
City of Oswego Wastewater Discharge Permit 6-2010-13**

Dear Mr. Leotta:

This quarterly report is submitted in accordance with the City of Oswego Wastewater Discharge Permit 6-2010-13 (Permit) for discharge of leachate from the Pollution Abatement Service (PAS) Site in the City of Oswego's Eastside Wastewater Treatment Facility. This is the first quarterly report submitted and covers the period from October 2010 through December 2010.

Installation of the new leachate discharge system was completed in accordance with City requirements on October 28, 2010 and the first leachate discharge event was completed on that date. The total gallons of leachate discharged are summarized in Table 1. We also performed the first semi-annual leachate sampling event in accordance with the requirements of the Permit during the October 28, 2010 discharge event. The data for the semi annual event are provided as Attachment I.

Completed 'Leachate Discharge Form' documenting each leachate discharge event are provided as Attachment II. The quantities discharged, date and time of discharge, as well as measurements for pH and temperature are recorded in each Leachate Discharge Form.

If you need additional information please call me at (865) 691-5052.

Sincerely,
de maximis, inc.

Clay McClarnon

Attachments

cc: Mark Valentine
Michael Coffey

**TABLE 1
PAS OSWEGO SITE
QUARTERLY DISCHARGE EVENTS**

	4Q 2010	1Q 2011	2Q 2011	3Q 2011	4Q 2011
<i>Discharge Date</i>	<i>(gpd)</i>	<i>(gpd)</i>	<i>(gpd)</i>	<i>(gpd)</i>	<i>(gpd)</i>
10/28/2010	20,000				
11/2/2010	20,000				
12/6/2010	20,000				
Total Discharged (gpd)	60,000				
<i>Analytes</i>	<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>
Cadmium	ND				
Chromium (total)	0.015				
Copper	ND				
Lead	ND				
Nickel	0.58				
Silver	ND				
Zinc	ND				
Mercury	ND				
BOD5	13				
TSS	9				
Phenolics	0.14				
pH	7.15				



de maximis

ATTACHMENT I



Life Science Laboratories, Inc.

5854 Butternut Drive
East Syracuse, NY 13057

(315) 445-1105

Tuesday, November 09, 2010

Kevin Stone
O'Brien & Gere Inc. of North America
555 E Genesee Street
Fayetteville, NY 13066

TEL: 315-637-2234

Project: PAS OSWEGO-SEMI-ANNUAL

RE: Analytical Results

Order No.: K1010344

Dear Kevin Stone:

Life Science Laboratories, Inc. received 1 sample(s) on 10/28/2010 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,
Life Science Laboratories, Inc.

A handwritten signature in black ink that reads "Pamela J. Titus". The signature is written in a cursive style.

Pamela J. Titus
Project Manager



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America	Lab ID: K1010344-001A
Project: PAS Oswego-Semi-Annual	Client Sample ID: Effluent Grab 10/28/10
W Order: K1010344	Collection Date: 10/28/10 12:25
Matrix: WATER	Date Received: 10/28/10 15:35

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
BIOCHEMICAL OXYGEN DEMAND (BOD5)			SM 18-20 5210 B		
Biochemical oxygen demand (BOD5)	13		5.0 mg/L	1	10/29/10 14:34
NOTES:					
This result did not meet minimum depletion requirements and should be considered an estimate.					
LABORATORY (PH)			SM 18-20 4500-H B		
pH	7.15		1.00 pH Units	1	11/02/10
RESIDUE-NON-FILTERABLE (TSS)			SM 18-20 2540 D		
Residue-non-filterable (TSS)	9.0		5.0 mg/L	1	11/01/10 14:00

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America

Lab ID: K1010344-001B

Project: PAS Oswego-Semi-Annual

Client Sample ID: Effluent Grab 10/28/10

W Order: K1010344

Collection Date: 10/28/10 12:25

Matrix: WATER

Date Received: 10/28/10 15:35

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
PHENOLICS, TOTAL RECOVERABLE			EPA 420.1		(E420.1)
Phenolics, Total Recoverable	0.14		0.050 mg/L	10	11/08/10

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT: O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual
W Order: K1010344
Matrix: WATER

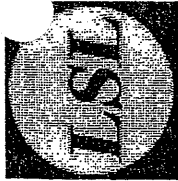
Lab ID: K1010344-001C
Client Sample ID: Effluent Grab 10/28/10
Collection Date: 10/28/10 12:25
Date Received: 10/28/10 15:35

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			EPA 245.1		(E245.1)
Mercury	ND		0.00020 mg/L	1	11/01/10 17:26

TOTAL METALS BY ICP			EPA 200.7		(E200.2)
Cadmium	ND		0.010 mg/L	1	11/03/10 13:00
Chromium	0.015		0.010 mg/L	1	11/03/10 13:00
Copper	ND		0.010 mg/L	1	11/03/10 13:00
Lead	ND		0.010 mg/L	1	11/03/10 13:00
Nickel	0.58		0.010 mg/L	1	11/03/10 13:00
Silver	ND		0.010 mg/L	1	11/03/10 13:00
Zinc	ND		0.020 mg/L	1	11/03/10 13:00

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
Brittonfield Lab

4 Butternut Drive
East Syracuse, New York 13057
(315) 445-1105

Chain of Custody

Client: OBRIEN GEN OPERATIONS LLC

Project: PAS Semi Annual Discharge

Sampled by: MARTIN KOENNECKE

Client Contact: KEVIN STONE Phone # KEVIN STONE @ OBG.COM

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers
EFFLUENT	10-28-10	12:25	WATER	GRAB	3

Analysis/Method

					Comments
BOD, TSS, PH					
T PHENOLS					
Cd, Cr, Cu, Ni, Pb, Hg, Zn					
(METALS)					

Relinquished by: *Martin Koencke* Date: 10-28-10 Time: 1430 Received by: *Kevin Stone* Date: 10-28-10 Time: 1430
Relinquished by: *[Signature]* Date: 10-28-10 Time: 1535 Received by: *[Signature]* Date: 10-28-10 Time: 1535
Relinquished by: *[Signature]* Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
Shipment Method: _____ Airbill Number: _____

Turnaround Time Required: _____
Routine _____
Rush (Specify) _____
Cooler Temperature: O₂C

Comments:

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: OGINA PAS

Date and Time Received: 10/28/2010 3:35:00 PM

Work Order Number: K1010344

Received by: AC

Checklist completed by: [Signature] Date: 10/29/10

Reviewed by: [Signature] Date: 10/29/10

Delivery Method: Hand Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Applicable
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

pH	Preservative	pH Acceptable			Sample ID	Volume of Preservative added in Lab.
>12	NaOH	Yes <input type="checkbox"/>	N <input type="checkbox"/>	NA <input checked="" type="checkbox"/>		
<2	HNO3	Yes <input checked="" type="checkbox"/>	N <input type="checkbox"/>	NA <input type="checkbox"/>		
<2	H2SO4	Yes <input checked="" type="checkbox"/>	N <input type="checkbox"/>	NA <input type="checkbox"/>		
<2	1:1 HCL	Yes <input type="checkbox"/>	N <input type="checkbox"/>	NA <input checked="" type="checkbox"/>		
5-9	Pest/PCBs (608/8081)	Yes <input type="checkbox"/>	N <input type="checkbox"/>	NA <input checked="" type="checkbox"/>		

Comments: Cyanide on COC as Metals parameter? (RP)

Corrective Action: Client notified; will be collected separately. (RP)
(See K1011041)



Life Science Laboratories, Inc.

5854 Butternut Drive
East Syracuse, NY 13057

(315) 445-1105

Tuesday, November 09, 2010

Kevin Stone
O'Brien & Gere Inc. of North America
555 E Genesee Street
Fayetteville, NY 13066

TEL: 315-637-2234

Project: PAS OSWEGO-SEMI-ANNUAL

RE: Analytical Results

Order No.: K1011041

Dear Kevin Stone:

Life Science Laboratories, Inc. received 1 sample(s) on 11/3/2010 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,
Life Science Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Pamela J. Titus".

Pamela J. Titus
Project Manager



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

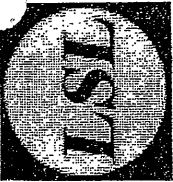
Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011041-001A
Project:	PAS Oswego-Semi-Annual	Client Sample ID:	<i>Pump Sample Port #1 Effluent</i>
W Order:	K1011041	Collection Date:	11/02/10 11:00
Matrix:	WATER	Date Received:	11/03/10 16:21
Inst. ID:	AA3	Sample Size:	50 mL
ColumnID		PrepDate:	11/05/10 0:00
Revision:	11/05/10 17:17	%Moisture:	
Col Type:		BatchNo:	12299/R20989
		TestCode	CN335.4W
		FileID:	1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
CYANIDE, TOTAL				EPA 335.4		(E335.4)
Cyanide, Total	ND		0.010	mg/L	1	11/05/10

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
Brittonfield Lab

5504 Butternut Drive
 East Syracuse, New York 13057
 (315) 445-1105

Chain of Custody

Client: O'BRIEN & GERE OPS
 Project: PAS Oswego
 Sampled by: MARTIN KOENNECKE
 Client Contact: KEVIN STONE Phone # KEVIN.STONE@DBB.COM

Sample Location	Sample Description				No. of Containers	Comments
	Date Collected	Time Collected	Sample Matrix	Comp. or Grab		
Pump sample point # EAST LANE T	11-2-10	11:00	water	6 LAB	1	CYANIDE

Relinquished by: <u>Martin Koennecke</u>	Date: <u>11-3-10</u>	Time: <u>16:20</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by Lab:	Date: <u>11-03-10</u>	Time: <u>21</u>
Shipment Method: <u>HAND</u>	Airbill Number:				

Turnaround Time Required: X Routine Rush (Specify)
 Comments:
 Cooler Temperature: 1.0 on Fa
 Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OGINA PAS**

Date and Time Received: **11/3/2010 4:21:00 PM**

Work Order Number: **K1011041**

Received by: **gis**

Checklist completed by:

Initials

[Signature]

11/3/10
Date

Reviewed by:

Initials

[Signature]

11/4/10
Date

Delivery Method: Hand Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Applicable
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

pH	Preservative	pH Acceptable			Sample ID	Volume of Preservative added in Lab.
>12	NaOH	Yes <input checked="" type="checkbox"/>	N <input type="checkbox"/>	NA <input type="checkbox"/>		
<2	HNO3	Yes <input type="checkbox"/>	N <input type="checkbox"/>	NA <input checked="" type="checkbox"/>		
<2	HSO4	Yes <input type="checkbox"/>	N <input type="checkbox"/>	NA <input checked="" type="checkbox"/>		
<2	1:1 HCL	Yes <input type="checkbox"/>	N <input type="checkbox"/>	NA <input checked="" type="checkbox"/>		
5-9	Pest/PCBs (608/8081)	Yes <input type="checkbox"/>	N <input type="checkbox"/>	NA <input checked="" type="checkbox"/>		

Comments:

Goes w/ K1010344 - Re-sampled CN in proper container

Corrective Action:



de maximis

ATTACHMENT II



O'BRIEN & GERE

PAS Site
Oswego, New York

Leachate Discharge Form

Date: 10-28-10

Time: 730

Field Technician MARTIN Kiermucke

Weather Conditions overcast 50°

Well Pump	<i>Pre-Discharge Well Pumping</i>				
	Pump Start Time	Pump Stop Time	Tank Elevation	Flow Rate (est)	Gallons Pumped (est)
LCW-1	13:45	14:30		} 1606 PM	
LCW-2	13:45	14:30			
LCW-3	NOT PUMPED				
LCW-4	13:45	14:30			
Total					

END TANK 7.5"

Discharge #	<i>Leachate Discharge Pumping (Monthly)</i>						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	11:00	17:20	6.6	52°F	0.0	20,000	20,000
Discharge #2							
Total							

	<i>Leachate Discharge Sampling (Semi-Annually)</i>					
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature
Sample #1	10-28-10	Sample Port		12:25	6.6	52°F
Sample #2 (if required)						



O'BRIEN & GERE

PAS Site
Oswego, New York

Leachate Discharge Form

Date: 11-2-10

Time: 8:30

Field Technician MARTIN KOENWECKE

Weather Conditions Sunny 35°

Well Pump	Pre-Discharge Well Pumping					
	Pump Start Time	Pump Stop Time	Tank Elevation	Flow Rate (est)	Gallons Pumped (est)	
LCW-1	9:45	11:30	13:45			
LCW-2	9:45	11:30	13:45			
LCW-3	NOT PUMPED					
LCW-4	9:45	11:30	13:45			
Total						

TANK - 8" After Discharge

Discharge #	Leachate Discharge Pumping (Monthly)						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	10:15	16:40	6.4	50°F	20,000	40,000	20,000
Discharge #2							
Total							

	Leachate Discharge Sampling (Semi-Annually)					
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature
Sample #1	11-2-10	SAMPLE PORT EFFLUENT	CYANIDE ^{250ml}	11:00	6.4	50°F
Sample #2 (if required)						



O'BRIEN & GERE

**PAS Site
Oswego, New York**

Leachate Discharge Form

Date: 12-6-10

Time: 8:30

Field Technician Martin Kummel

Weather Conditions snow & winds 25°

Well Pump	<i>Pre-Discharge Well Pumping</i>				
	Pump Start Time	Pump Stop Time	Tank Elevation	Flow Rate (est)	Gallons Pumped (est)
LCW-1	12:50	14:55			
LCW-2	12:50	14:55			
LCW-3	N/A	N/A			
LCW-4	12:50	14:55			
Total					

Discharge #	<i>Leachate Discharge Pumping (Monthly)</i>						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	13:20	17:20	6.7	50°	40,000	60,000	20,000
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
	85	15 min	0 PSI	9"			
	<i>Leachate Discharge Sampling (Semi-Annually)</i>						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1	N/A	_____					
Sample #2 (if required)	N/A	_____					

ATTACHMENT B-4

***SEMI-ANNUAL LEACHATE AND GROUNDWATER
MONITORING
(NOVEMBER 2010)***

TO: Kevin Stone **cc:**
FROM: Karen Storne
RE: PAS Oswego Data Validation Report
FILE: 6363/45710.001.005
DATE: January 18, 2011

This report presents the results of a data validation performed for groundwater samples collected as part of the PAS Oswego Semi-Annual Ground Water Sampling event at the New York State site. Sample collection activities were conducted by O'Brien & Gere in November 2010.

The environmental samples, trip blanks, field duplicate, matrix spike, matrix spike duplicate, and equipment blank collected for this investigation were analyzed by Life Science Laboratories, Inc. (LSL) of East Syracuse, New York.

LSL utilized the methods listed in the following table.

Table 1-1. Analytical methods and references

Parameter	Method	Reference
VOCs	USEPA Methods 5030B/8260B	1
BOD	SM18 5210B	2
TDS	SM18 2540C	2
TSS	SM18 2540D	2
COD	USEPA Method 410.4	3
TOC	SM18 5310B	2

Note:

1. United States Environmental Protection Agency (USEPA). 2004. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846*, 3rd Edition, Update IIIB. Washington D.C.
2. American Water Works Association (AWWA), American Public Health Association (APHA) and Water Environment Federation (WEF). 1992. *Standard Methods for the Examination of Water and Wastewater*, 18th Edition. Washington, D.C.
3. United States Environmental Protection Agency (USEPA). 1983. *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79-020. Cincinnati, Ohio.

VOCs indicates volatile organic compounds.

BOD indicates biological oxygen demand.

TDS indicates total dissolved solids.

TSS indicates total suspended solids.

COD indicates chemical oxygen demand.

TOC indicates total organic carbon.

JANUARY 18, 2011

PAGE 2

The laboratory data packages generated by LSL contained summary forms for quality control analysis and supportive raw data.

The samples that were submitted to the laboratory for review are presented in Attachment A. Attachment B presents the specific data validation approach applied to data generated for this investigation. Attachment C presents the laboratory QA/QC analyses definitions.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the methods utilized by the laboratory.

Data affected by excursions from criteria presented in the method are qualified using guidance provided in the following documents and professional judgment:

- USEPA. 2006a. *USEPA Region II Validating Volatile Organic Compounds by SW-846 Method 8260B, SOP HW-24* Revision 2. New York, NY.
- USEPA. 2006b. *USEPA Region II Evaluation of Metals Data for the CLP Program, SOP HW-2* Revision 13. New York, NY.

The validation included checking the following parameters:

- Chain-of-custody records, shipment, and sample collection
- Holding times and sample preservation
- Blank analysis
- Calibrations
- Gas chromatography/mass spectrometry (GC/MS) instrument check
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Laboratory control sample (LCS) analysis
- Laboratory duplicate analysis
- Internal standards performance
- Field duplicate analysis
- Target analyte quantification, identification, and quantitation limits (QLs)
- Documentation completeness

The following sections of this memorandum present the result of the comparison of the analytical data to the QA/QC criteria specified the methods, the validation criteria applied to this analysis, and the qualifiers assigned to the data when the QA/QC criteria were not met. Excursions that resulted in the qualification of samples and additional observations are presented in the following sections.

CHAIN-OF-CUSTODY RECORD

Time gaps were identified for the samples collected 11/3/10 and 11/29/10. The samples collected 11/3/10 were relinquished on 11/3/10 at 16:20 and the samples were received by the laboratory on 11/3/10 at 16:22. The samples collected 11/29/10 were relinquished on 11/29/10 at 13:40 and the samples were received by the laboratory on 11/29/10 at 13:37. Both sets of samples were delivered by hand to the laboratory.

JANUARY 18, 2011

PAGE 3

SAMPLE COLLECTION

An equipment blank, field duplicate, MS/MSD were submitted for VOC analyses but were not submitted for samples collected for BOD, TSS, TDS, COD and TOC analyses. The impacts of these sample collections issue are addressed in the following sections.

VOC DATA EVALUATION SUMMARY

Excursions from quality control criteria and additional observations are summarized below.

I. Holding times and sample preservation

The method holding time criterion for VOC analysis was met.

II. Blank analysis

Trip blanks, equipment blank and method blanks were analyzed to evaluate the potential for laboratory-induced concentrations, the potential for cross-contamination of samples during field sampling, and the integrity of samples during shipment.

Due to minor blank excursions, the following sample results were qualified as non-detected (U):

- Acetone in sample LCW-4.
- Methylene chloride in sample LCW-4.

III. Calibrations

Calibration results met validation criteria.

IV. GC/MS instrument check

GC/MS instrument checks met the validation criteria.

V. Surrogate recoveries

Surrogates results met the validation criteria.

VI. MS/MSD analysis

MS/MSD results met the validation criteria.

VII. LCS analysis

The following results were qualified as approximate (UJ) due to a minor accuracy excursion:

- The results for 1,2-dibromo-3-chloropropene in samples Equipment Blank, LR-8, M-21, LCW-2, LCW-4, X-1[LR-6], QC Trip Blank 11/3/10.

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VIII. Internal standards performance

Internal standard results met the validation criteria.

IX. Field duplicate analysis

Field duplicate results met the validation criteria.

X. Target analyte quantitation, identification and QLs

The qualifier "J" was applied by the laboratory when the analyte concentration was greater than the MDL but less than the QL. This qualifier has been retained during the validation process to indicate that the result is considered to be approximate.

Dilutions were performed for samples LCW-2 and LCW-4 due to the presence of elevated target analytes.

XII. Document completeness

The laboratory deliverables provided for this sampling event were sufficient to complete the validation process.

INORGANIC AND TOC DATA EVALUATION SUMMARY

Excursions from quality control criteria and additional observations are summarized below.

I. Holding times and sample preservation

The validation holding time criteria from collection to analysis were met

II. Blank analysis

Method blanks were analyzed to evaluate the potential of laboratory-introduced concentrations of target compounds. Method blank results met the validation criteria.

The equipment blank collected for this sampling event was not submitted for BOD, TSS, TDS, COD and TOC analyses. Therefore, the potential for sample cross-contamination during sample collection could not be evaluated for these analytes.

III. Calibrations

Calibration results met validation criteria.

IV. MS/MSD analysis

The MS/MSD samples were not submitted for BOD, TSS, TDS, COD and TOC analyses. The laboratory performed MS/MSD analyses using project samples for TOC analyses. However, matrix impacts could not be evaluated during the validation process for BOD, TSS, COD and TDS analyses.

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V. LCS analysis

The following results were qualified as approximate (UJ, J) due to minor accuracy excursions:

- The results for BOD in samples LCW-2 and LCW-4.

Although required for accuracy evaluation and internal quality control, the laboratory did not perform an LCS analysis for the TDS and TSS analyses. Therefore, the accuracy for the TDS and TSS methods performed by the laboratory could not be evaluated during the validation process.

VI. Laboratory duplicate analysis

A laboratory duplicate sample was not submitted for BOD, TSS, TDS, COD and TOC analyses. The laboratory performed duplicate analyses using project samples for TOC analyses. However, laboratory precision could not be evaluated during the validation process for the for BOD, TSS, COD and TDS analyses.

VII. Field duplicate analysis

Field duplicate results were not collected for BOD, TSS, TDS, COD and TOC analyses for this sampling event. Therefore, field precision could not be evaluated during the validation process for these analyses.

VIII. Target analyte quantitation and QLS

Dilutions were performed for TOC and COD samples as a result of the presence of elevated concentrations of target analytes detected in the samples.

Sample results were reported to the QL concentration.

IX. Document completeness

The laboratory deliverables provided for this sampling event were sufficient to complete the validation process.

DATA USABILITY

Overall data usability with respect to completeness for the sample results reported is 100 percent for the organic and inorganic data. The data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

Table 2. Sample cross reference list

Laboratory	Date Collected	Laboratory ID	Client ID	Matrix	Analysis Requested
Life Science Labs	11/3/2010	K1011042-001	Equipment Blank	Aqueous	VOCs
Life Science Labs	11/3/2010	K1011042-002	LR-8, MS/MSD	Groundwater	VOCs
Life Science Labs	11/3/2010	K1011042-003	M-21	Groundwater	VOCs
Life Science Labs	11/3/2010	*	LR-6*	Groundwater	VOCs
Life Science Labs	11/3/2010	K1011042-005	LCW-2	Groundwater	VOCs, BOD, TSS, TDS, COD, TOC
Life Science Labs	11/3/2010	K1011042-006	LCW-4	Groundwater	VOCs, BOD, TSS, TDS, COD, TOC
Life Science Labs	11/3/2010	K1011042-007	X-1[LR-6]	Groundwater	VOCs
Life Science Labs	11/3/2010	K1011042-008	QC Trip Blanks	Aqueous	VOCs
Life Science Labs	11/29/2010	K1011306-001	LR-6	Groundwater	VOCs
Life Science Labs	11/29/2010	K1011306-002	QC Trip Blanks	Aqueous	VOCs

Notes:

Life Science Labs indicates Life Science Laboratories Inc. of Syracuse, New York

VOCs indicates volatile organic compounds.

MS/MSD indicates matrix spike/ matrix spike duplicate.

The identification in parenthesis indicates the field duplicate location.

BOD indicates biological oxygen demand.

TSS indicates total suspended solids.

TDS indicates total dissolved solids.

COD indicates chemical oxygen demand.

TOC indicates total organic carbon.

* Indicates that sample was re-collected due to laboratory error; the sample collected on 11/3/10 was not analyzed by the laboratory.

**O'Brien & Gere Data validation approach
Using USEPA Region II Data validation guidelines**

General Validation Approach	<p>For certain parameters, USEPA guidance for data validation indicates that professional judgment is to be utilized to identify the appropriate validation action. In these situations, the validation approach taken by O'Brien & Gere has been a conservative one; qualifiers have been applied to sample data to indicate both major and minor excursions. In this way, data associated with any type of excursion are identified to the data user. Major excursions resulted in data being rejected, indicating that the data are considered unusable for either quantitative or qualitative purposes. Minor excursions result in sample data being qualified as approximate that are otherwise usable for quantitative or qualitative purposes.</p> <p>Excursions are subdivided into excursions that are within the laboratory's control and those that are out of the laboratory's control. Excursions involving laboratory control sample recovery, calibration response, method blank excursions, low or high spike recovery due to inaccurate spiking solutions or poor instrument response, holding times, interpretation errors, and quantitation errors are within the control of the laboratory. Excursions resulting from matrix spike recovery, surrogate, and internal standard performance due to matrix interference from the matrix of the samples are examples of those excursions that are not within the laboratory's control if the laboratory has followed proper method control procedures.</p>
Parameter Type	Applying Data Validation Qualifiers Approach
Sample collection information-Cooler Temperature	Results for samples submitted for organic and inorganic analyses that are impacted by cooler temperatures of greater than 10°C are qualified as approximate (UJ, J).
Calibration Data-VOCs by USEPA Method 8260B	VOC target analytes are evaluated using the criteria of 15 percent relative standard deviation (%RSD) or correlation coefficient criteria of 0.990 for initial calibration curves. Calibration verifications are evaluated using a criterion of 20 percent difference (%D) for the target analytes and a criterion of 50 %D for the remaining target analytes. Initial calibrations and calibration verifications were also evaluated using the response factor (RF) criteria described in the method for system performance check compounds, a criterion of greater than or equal to 0.010 for ketones and alcohols, and a criterion of 0.05 for the remaining target analytes.
Organic Multi-results	When two results are reported, due to re-extraction or for confirmation analyses, both sets of results are evaluated during the validation process. Based on the evaluation of the associated quality control data, the results reflecting the higher quality data are reported.
General Organic and Inorganic MS/MSD, LCS, Laboratory Duplicate Data	Laboratory established control limits are used to assess MS/MSD, LCS, and laboratory duplicate data.
	In the case that excursions are identified in more than one quality control sample of the same matrix within one sample delivery group, samples are batched according to sample preparation or analysis date and qualified accordingly.
General Organic MS/MSD, LCS, Laboratory Duplicate Data	If percent recoveries are less than laboratory control limits but greater than ten percent, non-detected and detected results are qualified as approximate (UJ, J) to indicate minor excursions.
	If percent recoveries are greater than laboratory control limits, detected results are qualified as approximate (J) to indicate minor excursions.
	If percent recoveries are less than ten percent, detected results are qualified as approximate (J) and non-detected results are qualified as rejected (R) to indicate major excursions.
	If RPDs for MSDs or laboratory duplicates are outside of laboratory control limits, detected results are qualified as approximate (J) to indicate minor excursions.
Organic MS/MSD Data	Qualification of organic data for MS/MSD analyses is performed only when both MS and MSD percent recoveries are outside of laboratory control limits.
	Organic data are rejected (R) to indicate major excursions in the case that both MS/MSD recoveries are less than ten percent.
	Qualification of data is not performed if MS/MSD or surrogate recoveries are outside of laboratory control limits due to sample dilution.
Organic MS/MSD and Field Duplicate Data	Qualification of data associated with MS/MSD or field duplicate excursions is limited to the un-spiked sample or the field duplicate pair, respectively.
Internal Standard organic Data	Internal standard recoveries are evaluated using control limits of within 50% of the lower standard area and up to 100% of the upper standard area of the associated calibration verification standard. The results for target analytes associated with internal standard area recoveries 25% or greater but less than the lower standard area are qualified as approximate (J, UJ) to indicate minor internal standard recovery excursions. The non-detected results for target analytes associated with internal standard area recoveries less than 25% are rejected (R) to indicate major recovery excursions

**O'Brien & Gere Data validation approach
Using USEPA Region II Data validation guidelines**

Field Duplicate Data	Field duplicate data are evaluated against relative percent difference (RPD) criteria of less than 50 percent for aqueous samples and less than 100 percent for soils when results are greater than five times the QL. When sample results for field duplicate pairs are less than five times the QL, the data are evaluated using control limits of plus or minus two times the QL for soils. If RPDs for field duplicates are outside of laboratory control limits, detected and non-detected results are qualified as approximate (UJ, J) to indicate minor excursions.
Organic Blank Data	<p>If methylene chloride, acetone or 2-butanone is detected in the sample at a concentration that is less than ten times the concentration in the associated blank, the sample result is qualified as "U".</p> <p>If other target analytes are detected in the sample at a concentration that is less than five times the concentration detected in the associated blank, the sample result is qualified as "U".</p> <p>Results greater than the MDL but less than QL and within the blank action level, are replaced with the QL and qualified as non-detected (U).</p> <p>Results greater than the QL are qualified as "U" at that concentration.</p> <p>The highest concentrations of the target analytes are used to evaluate the associated samples.</p>
General Inorganic MS/MSD, LCS, Laboratory Duplicate Data	<p>If percent recoveries are less than laboratory control limits but greater than thirty percent, non-detected and detected results are qualified as approximate (UJ, J) to indicate minor excursions.</p> <p>If percent recoveries are greater than laboratory control limits, detected results are qualified as approximate (J) to indicate minor excursions.</p> <p>If percent recoveries are less than thirty percent, detected results are qualified as approximate (J) and non-detected results are qualified as rejected (R) to indicate major excursions.</p>
Inorganic Laboratory Duplicate or MSD Data	<p>Inorganic laboratory duplicate data are evaluated against laboratory control limits established for RPD criteria when results are greater than five times the QL. When sample results for laboratory duplicate pairs are less than five times the QL, the data are evaluated using control limits of plus or minus two times the QL.</p> <p>If RPDs for MSDs or laboratory duplicates are outside of laboratory control limits, detected results are qualified as approximate (J) to indicate minor excursions.</p>
Inorganic Blank Data	<p>For calibration blanks, preparation blanks and field blanks at concentrations greater than laboratory MDLs but less than or equal to QLs: (a) Concentration in the associated samples of greater than or equal to the MDLs but less than or equal to QLs are revised to the QL level and qualified as non-detected (U).</p> <p>For calibration blanks, preparation blanks and field blanks at concentrations greater than laboratory QLs: (a) Concentration in the associated samples of greater than the blank concentration and less than ten times the blank concentration are qualified as approximate (J). (b) Concentrations in the associated samples of greater than or equal to the MDLs but less than or equal to QLs are revised to the QL level and are qualified as non-detected (U). (c) Concentration in the associated samples of greater than the QLs and less than the blank concentration are rejected (R).</p> <p>For calibration blanks and preparation blanks at concentrations less than the negative value of the QLs: (a) Concentration in the associated samples of less than ten times the QLs are qualified as approximate (J). (b) Non-detected concentrations in the associated samples are qualified as approximate (UJ).</p>

Source O'Brien & Gere

Laboratory QA/QC term definitions

QA/QC Term	Definition
Quantitation limit	The level above which numerical results may be obtained with a specified degree of confidence; the minimum concentration of an analyte in a specific matrix that can be identified and quantified above the method detection limit and within specified limits of precision and bias during routine analytical operating conditions.
Method detection limit	The minimum concentration of an analyte that undergoes preparation similar to the environmental samples and can be reported with a stated level of confidence that the analyte concentration is greater than zero.
Instrument detection limit	The lowest concentration of a metal target analyte that, when directly inputted and processed on a specific analytical instrument, produces a signal/response that is statistically distinct from the signal/response arising from equipment "noise" alone.
Gas chromatography/mass spectrometry (GC/MS) instrument performance check	Performed to verify mass resolution, identification, and to some degree, instrument sensitivity. These criteria are not sample specific; conformance is determined using standard materials.
Calibration	Compliance requirements for satisfactory instrument calibration are established to verify that the instrument is capable of producing acceptable quantitative data. Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of analysis and calibration verifications document satisfactory maintenance and adjustment of the instrument on a day-to-day basis.
Relative Response Factor	A measure of the relative mass spectral response of an analyte compared to its internal standard. Relative Response Factors are determined by analysis of standards and are used in the calculation of concentrations of analytes in samples.
Relative standard deviation	The standard deviation divided by the mean; a unit-free measure of variability.
Correlation coefficient	A measure of the strength of the relationship between two variables.
Relative Percent Difference	Used to compare two values; the relative percent difference is based on the mean of the two values, and is reported as an absolute value, i.e., always expressed as a positive number or zero.
Percent Difference	Used to compare two values; the percent difference indicates both the direction and the magnitude of the comparison, i.e., the percent difference may be either negative, positive, or zero.
Percent Recovery	The act of determining whether or not the methodology measures all of the target analytes contained in a sample.
Calibration blank	Consists of acids and reagent water used to prepare metal samples for analysis. This type of blank is analyzed to evaluate whether contamination is occurring during the preparation and analysis of the sample.
Method blank	A water or soil blank that undergoes the preparation procedures applied to a sample (i.e., extraction, digestion, clean-up). These samples are analyzed to examine whether sample preparation, clean-up, and analysis techniques result in sample contamination.
Field/equipment	Collected and submitted for laboratory analysis, where appropriate. Field/equipment blanks are handled in the same manner as environmental samples. Equipment/field blanks are analyzed to assess contamination introduced during field sampling procedures.
Trip blank	Consist of samples of analyte-free water that have undergone shipment from the sampling site to the laboratory in coolers with the environmental samples submitted for volatile organic compound (VOC) analysis. Trip blanks will be analyzed for VOCs to determine if contamination has taken place during sample handling and/or shipment. Trip blanks will be utilized at a frequency of one each per cooler sent to the laboratory for VOC analysis.
Internal standards performance	Compounds not found in environmental samples which are spiked into samples and quality control samples at the time of sample preparation for organic analyses. Internal standards must meet retention time and recovery criteria specified in the analytical method. Internal standards are used as the basis for quantitation of the target analytes.
Surrogate recovery	Compounds similar in nature to the target analytes but not expected to be detected in the environmental media which are spiked into environmental samples, blanks, and quality control samples prior to sample preparation for organic analyses. Surrogates are used to evaluate analytical efficiency by measuring recovery.
Laboratory control sample Matrix spike blank analyses	Standard solutions that consist of known concentrations of the target analytes spiked into laboratory analyte-free water or sand. They are prepared or purchased from a certified manufacturer from a source independent from the calibration standards to provide an independent verification of the calibration procedure. They are prepared and analyzed following the same procedures employed for environmental sample analysis to assess method accuracy independently of sample matrix effects.
Laboratory duplicate	Two or more representative portions taken from one homogeneous sample by the analyst and analyzed in the same laboratory.
Matrix	The material of which the sample is composed or the substrate containing the analyte of interest, such as drinking water, waste water, air, soil/sediment, biological material.
Matrix Spike (MS)	An aliquot of a matrix (water or soil) fortified (spiked) with known quantities of specific target analytes and subjected to the entire analytical procedure in order to indicate the appropriateness of the method for the matrix by measuring recovery.
Matrix spike duplicate (MSD)	A second aliquot of the same matrix as the matrix spike that is spiked in order to determine the precision of the method.
Retention time	The time a target analyte is retained on a GC column before elution. The identification of a target analyte is dependent on a target compound's retention time falling within the specified retention time window established for that compound.
Relative retention time	The ratio of the retention time of a compound to that of a standard.
Source O'Brien & Gere	



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011042-001A
Project:	PAS Oswego-Semi-Annual Well Sampling	Client Sample ID:	<i>Equipment Blank</i>
W Order:	K1011042	Collection Date:	11/03/10 7:30
Matrix:	WATER Q	Date Received:	11/03/10 16:22
Inst. ID:	MSK_75	Sample Size:	10 mL
ColumnID	Rtx-VMS	%Moisture:	
Revision:	11/18/10 7:45	TestCode:	8260W_OLM42
Col Type:		PrepDate:	
		BatchNo:	R21077
		FileID:	1-SAMP-K3153.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 11:41
Chloromethane	ND		1.00	0.33	µg/L	1	11/05/10 11:41
Vinyl chloride	ND		1.00	0.33	µg/L	1	11/05/10 11:41
Bromomethane	ND		1.00	0.33	µg/L	1	11/05/10 11:41
Chloroethane	ND		1.00	0.33	µg/L	1	11/05/10 11:41
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 11:41
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	11/05/10 11:41
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Acetone	2.53	J	10.0	1.00	µg/L	1	11/05/10 11:41
Carbon disulfide	ND		0.50	0.11	µg/L	1	11/05/10 11:41
Methyl acetate	ND		5.00	1.00	µg/L	1	11/05/10 11:41
Methylene chloride	0.24	J	2.00	0.16	µg/L	1	11/05/10 11:41
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	11/05/10 11:41
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
cis-1,2-Dichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
2-Butanone	ND		10.0	1.00	µg/L	1	11/05/10 11:41
Chloroform	ND		0.50	0.10	µg/L	1	11/05/10 11:41
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Cyclohexane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Benzene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 11:41
Trichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Methylcyclohexane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	11/05/10 11:41
Bromodichloromethane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 11:41
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	11/05/10 11:41
Toluene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 11:41
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 11:41
Tetrachloroethene	ND		0.50	0.10	µg/L	1	11/05/10 11:41

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011042-001A
Project:	PAS Oswego-Semi-Annual Well Sampling	Client Sample ID:	<i>Equipment Blank</i>
W Order:	K1011042	Collection Date:	11/03/10 7:30
Matrix:	WATER Q	Date Received:	11/03/10 16:22
Inst. ID:	MSK_75	Sample Size:	10 mL
ColumnID	Rtx-VMS	%Moisture:	
Revision:	11/18/10 7:45	TestCode:	8260W_OLM42
Col Type:		PrepDate:	
		BatchNo:	R21077
		FileID:	1-SAMP-K3153.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
					SW8260B		
2-Hexanone	ND		5.00	1.00	µg/L	1	11/05/10 11:41
Dibromochloromethane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	11/05/10 11:41
Chlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Ethylbenzene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Xylenes (total)	ND		1.00	0.30	µg/L	1	11/05/10 11:41
Styrene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
Bromofom	ND		1.00	0.33	µg/L	1	11/05/10 11:41
Isopropylbenzene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	11/05/10 11:41
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	11/05/10 11:41
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 11:41
1,2-Dibromo-3-chloropropane	ND	UJ	5.00	1.00	µg/L	1	11/05/10 11:41 ✓
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	11/05/10 11:41
Surr: 1,2-Dichloroethane-d4	92		75-128	0.16	%REC	1	11/05/10 11:41
Surr: Toluene-d8	101		75-125	0.10	%REC	1	11/05/10 11:41
Surr: 4-Bromofluorobenzene	100		75-125	0.10	%REC	1	11/05/10 11:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011042-002A
Project:	PAS Oswego-Semi-Annual Well Sampling	Client Sample ID:	LR-8
W Order:	K1011042	Collection Date:	11/03/10 8:45
Matrix:	WATER	Date Received:	11/03/10 16:22
Inst. ID:	MSK_75	Sample Size:	10 mL
ColumnID:	Rtx-VMS	%Moisture:	
Revision:	12/01/10 13:13	TestCode:	8260W_OLM42
Col Type:		PrepDate:	
		BatchNo:	R21077
		FileID:	1-SAMP-K3154.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 12:11
Chloromethane	ND		1.00	0.33	µg/L	1	11/05/10 12:11
Vinyl chloride	ND		1.00	0.33	µg/L	1	11/05/10 12:11
Bromomethane	ND		1.00	0.33	µg/L	1	11/05/10 12:11
Chloroethane	7.18		1.00	0.33	µg/L	1	11/05/10 12:11
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 12:11
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	11/05/10 12:11
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	11/05/10 12:11
Acetone	ND		10.0	1.00	µg/L	1	11/05/10 12:11
Carbon disulfide	ND		0.50	0.11	µg/L	1	11/05/10 12:11
Methyl acetate	ND		5.00	1.00	µg/L	1	11/05/10 12:11
Methylene chloride	ND		2.00	0.16	µg/L	1	11/05/10 12:11
trans-1,2-Dichloroethene	0.11	J	0.50	0.10	µg/L	1	11/05/10 12:11
Methyl tert-butyl ether	ND		1.00	0.18	µg/L	1	11/05/10 12:11
1,1-Dichloroethane	0.44	J	0.50	0.10	µg/L	1	11/05/10 12:11
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 12:11
2-Butanone	ND		10.0	1.00	µg/L	1	11/05/10 12:11
Chloroform	ND		0.50	0.10	µg/L	1	11/05/10 12:11
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 12:11
Cyclohexane	3.62		0.50	0.10	µg/L	1	11/05/10 12:11
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	11/05/10 12:11
Benzene	12.5		0.50	0.10	µg/L	1	11/05/10 12:11
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 12:11
Trichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 12:11
Methylcyclohexane	0.46	J	0.50	0.10	µg/L	1	11/05/10 12:11
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	11/05/10 12:11
Bromodichloromethane	ND		0.50	0.10	µg/L	1	11/05/10 12:11
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 12:11
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	11/05/10 12:11
Toluene	0.76		0.50	0.10	µg/L	1	11/05/10 12:11
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 12:11
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 12:11
Tetrachloroethene	ND		0.50	0.10	µg/L	1	11/05/10 12:11
2-Hexanone	ND		5.00	1.00	µg/L	1	11/05/10 12:11

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 12/01/10 13:14

538845

Project Supervisor: Pamela J. Titus



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling

Lab ID: K1011042-002A

Client Sample ID: LR-8

W Order: K1011042

Collection Date: 11/03/10 8:45

Matrix: WATER

Date Received: 11/03/10 16:22

Inst. ID: MSK_75

Sample Size 10 mL

PrepDate:

ColumnID: Rtx-VMS

%Moisture:

BatchNo: R21077

Revision: 12/01/10 13:13

TestCode: 8260W_OLM42

FileID: 1-SAMP-K3154.D

Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	11/05/10 12:11
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	11/05/10 12:11
Chlorobenzene	18.0		0.50	0.10	µg/L	1	11/05/10 12:11
Ethylbenzene	0.14	J	0.50	0.10	µg/L	1	11/05/10 12:11
Xylenes (total)	0.61	J	1.00	0.30	µg/L	1	11/05/10 12:11
Styrene	ND		0.50	0.10	µg/L	1	11/05/10 12:11
Bromoform	ND		1.00	0.33	µg/L	1	11/05/10 12:11
Isopropylbenzene	2.90		0.50	0.10	µg/L	1	11/05/10 12:11
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	11/05/10 12:11
1,3-Dichlorobenzene	0.16	J	0.50	0.10	µg/L	1	11/05/10 12:11
1,4-Dichlorobenzene	1.15		0.50	0.16	µg/L	1	11/05/10 12:11
1,2-Dichlorobenzene	1.70		0.50	0.10	µg/L	1	11/05/10 12:11
1,2-Dibromo-3-chloropropane	ND	UJ	5.00	1.00	µg/L	1	11/05/10 12:11
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	11/05/10 12:11
Surr: 1,2-Dichloroethane-d4	91		75-128	0.16	%REC	1	11/05/10 12:11
Surr: Toluene-d8	100		75-125	0.10	%REC	1	11/05/10 12:11
Surr: 4-Bromofluorobenzene	98		75-125	0.10	%REC	1	11/05/10 12:11

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/01/10 13:14

538845

Project Supervisor: Pamela J. Titus



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling

Lab ID: K1011042-003A

Client Sample ID: M-21

W Order: K1011042

Collection Date: 11/03/10 10:00

Matrix: WATER

Date Received: 11/03/10 16:22

Inst. ID: MSK_75

Sample Size: 10 mL

PrepDate:

ColumnID Rtx-VMS

%Moisture:

BatchNo: R21077

Revision: 11/18/10 7:45

TestCode: 8260W_OLM42

FileID: 1-SAMP-K3155.D

Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 12:41
Chloromethane	ND		1.00	0.33	µg/L	1	11/05/10 12:41
Vinyl chloride	ND		1.00	0.33	µg/L	1	11/05/10 12:41
Bromomethane	ND		1.00	0.33	µg/L	1	11/05/10 12:41
Chloroethane	0.98(J)		1.00	0.33	µg/L	1	11/05/10 12:41
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 12:41
1,1-Dichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 12:41
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	11/05/10 12:41
Acetone	ND		10.0	1.00	µg/L	1	11/05/10 12:41
Carbon disulfide	ND		0.50	0.11	µg/L	1	11/05/10 12:41
Methyl acetate	ND		5.00	1.00	µg/L	1	11/05/10 12:41
Methylene chloride	ND		2.00	0.16	µg/L	1	11/05/10 12:41
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 12:41
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	11/05/10 12:41
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 12:41
cis-1,2-Dichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 12:41
2-Butanone	ND		10.0	1.00	µg/L	1	11/05/10 12:41
Chloroform	ND		0.50	0.10	µg/L	1	11/05/10 12:41
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 12:41
Cyclohexane	0.94		0.50	0.10	µg/L	1	11/05/10 12:41
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	11/05/10 12:41
Benzene	0.13(J)		0.50	0.10	µg/L	1	11/05/10 12:41
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 12:41
Trichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 12:41
Methylcyclohexane	ND		0.50	0.10	µg/L	1	11/05/10 12:41
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	11/05/10 12:41
Bromodichloromethane	ND		0.50	0.10	µg/L	1	11/05/10 12:41
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 12:41
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	11/05/10 12:41
Toluene	0.19(J)		0.50	0.10	µg/L	1	11/05/10 12:41
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 12:41
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 12:41
Tetrachloroethene	ND		0.50	0.10	µg/L	1	11/05/10 12:41

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
 Project: PAS Oswego-Semi-Annual Well Sampling
 W Order: K1011042
 Matrix: WATER
 Inst. ID: MSK_75
 ColumnID Rtx-VMS
 Revision: 11/18/10 7:45
 Col Type:

Lab ID: K1011042-003A
 Client Sample ID: M-21
 Collection Date: 11/03/10 10:00
 Date Received: 11/03/10 16:22
 PrepDate:
 BatchNo: R21077
 FileID: I-SAMP-K3155.D

Sample Size: 10 mL
 %Moisture:
 TestCode: 8260W_OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
2-Hexanone	ND		5.00	1.00	µg/L	1	11/05/10 12:41
Dibromochloromethane	ND		0.50	0.10	µg/L	1	11/05/10 12:41
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	11/05/10 12:41
Chlorobenzene	3.75		0.50	0.10	µg/L	1	11/05/10 12:41
Ethylbenzene	ND		0.50	0.10	µg/L	1	11/05/10 12:41
Xylenes (total)	ND		1.00	0.30	µg/L	1	11/05/10 12:41
Styrene	ND		0.50	0.10	µg/L	1	11/05/10 12:41
Bromoform	ND		1.00	0.33	µg/L	1	11/05/10 12:41
Isopropylbenzene	0.78		0.50	0.10	µg/L	1	11/05/10 12:41
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	11/05/10 12:41
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 12:41
1,4-Dichlorobenzene	0.18 ^J		0.50	0.16	µg/L	1	11/05/10 12:41
1,2-Dichlorobenzene	0.42 ^J		0.50	0.10	µg/L	1	11/05/10 12:41
1,2-Dibromo-3-chloropropane	ND		5.00 ^J	1.00	µg/L	1	11/05/10 12:41
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	11/05/10 12:41
Surr: 1,2-Dichloroethane-d4	91		75-128	0.16	%REC	1	11/05/10 12:41
Surr: Toluene-d8	101		75-125	0.10	%REC	1	11/05/10 12:41
Surr: 4-Bromofluorobenzene	98		75-125	0.10	%REC	1	11/05/10 12:41

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 11/23/10 15:56

538846

Project Supervisor: Pamela J. Titus



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling

Lab ID: K1011042-005A

Client Sample ID: LCW-2

W Order: K1011042

Collection Date: 11/03/10 12:55

Matrix: WATER

Date Received: 11/03/10 16:22

Inst. ID: MSK_75

Sample Size: 10 mL

PrepDate:

ColumnID Rtx-VMS

%Moisture:

BatchNo: R21077

Revision: 11/18/10 7:45

TestCode: 8260W_OLM42

FileID: 1-SAMP-K3151.D

Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		10.0	1.00	µg/L	10	11/05/10 10:41
Chloromethane	ND		10.0	3.30	µg/L	10	11/05/10 10:41
Vinyl chloride	24.0		10.0	3.30	µg/L	10	11/05/10 10:41
Bromomethane	ND		10.0	3.30	µg/L	10	11/05/10 10:41
Chloroethane	ND		10.0	3.30	µg/L	10	11/05/10 10:41
Trichlorofluoromethane	ND		10.0	1.00	µg/L	10	11/05/10 10:41
1,1-Dichloroethane	2.40	J	5.00	1.60	µg/L	10	11/05/10 10:41
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.00	1.00	µg/L	10	11/05/10 10:41
Acetone	ND		100	10.0	µg/L	10	11/05/10 10:41
Carbon disulfide	ND		5.00	1.10	µg/L	10	11/05/10 10:41
Methyl acetate	ND		50.0	10.0	µg/L	10	11/05/10 10:41
Methylene chloride	ND		20.0	1.60	µg/L	10	11/05/10 10:41
trans-1,2-Dichloroethene	ND		5.00	1.00	µg/L	10	11/05/10 10:41
Methyl tert-butyl ether	ND		10.0	1.80	µg/L	10	11/05/10 10:41
1,1-Dichloroethane	28.4		5.00	1.00	µg/L	10	11/05/10 10:41
cis-1,2-Dichloroethene	140		5.00	1.00	µg/L	10	11/05/10 10:41
2-Butanone	ND		100	10.0	µg/L	10	11/05/10 10:41
Chloroform	3.30	J	5.00	1.00	µg/L	10	11/05/10 10:41
1,1,1-Trichloroethane	12.5		5.00	1.00	µg/L	10	11/05/10 10:41
Cyclohexane	1.30	J	5.00	1.00	µg/L	10	11/05/10 10:41
Carbon tetrachloride	ND		5.00	1.00	µg/L	10	11/05/10 10:41
Benzene	106		5.00	1.00	µg/L	10	11/05/10 10:41
1,2-Dichloroethane	ND		5.00	1.60	µg/L	10	11/05/10 10:41
Trichloroethene	30.3		5.00	1.00	µg/L	10	11/05/10 10:41
Methylcyclohexane	ND		5.00	1.00	µg/L	10	11/05/10 10:41
1,2-Dichloropropane	ND		5.00	1.60	µg/L	10	11/05/10 10:41
Bromodichloromethane	ND		5.00	1.00	µg/L	10	11/05/10 10:41
cis-1,3-Dichloropropene	ND		5.00	1.60	µg/L	10	11/05/10 10:41
4-Methyl-2-pentanone	ND		50.0	10.0	µg/L	10	11/05/10 10:41
Toluene	ND		5.00	1.00	µg/L	10	11/05/10 10:41
trans-1,3-Dichloropropene	ND		5.00	1.60	µg/L	10	11/05/10 10:41
1,1,2-Trichloroethane	ND		5.00	1.60	µg/L	10	11/05/10 10:41
Tetrachloroethene	44.8		5.00	1.00	µg/L	10	11/05/10 10:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
 Project: PAS Oswego-Semi-Annual Well Sampling
 W Order: K1011042
 Matrix: WATER
 Inst. ID: MSK_75
 ColumnID Rtx-VMS
 Revision: 11/18/10 7:45
 Col Type:

Sample Size: 10 mL
 %Moisture:
 TestCode: 8260W_OLM42

Lab ID: K1011042-005A
 Client Sample ID: LCW-2
 Collection Date: 11/03/10 12:55
 Date Received: 11/03/10 16:22
 PrepDate:
 BatchNo: R21077
 FileID: 1-SAMP-K3151.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
2-Hexanone	ND		50.0	10.0	µg/L	10	11/05/10 10:41
Dibromochloromethane	ND		5.00	1.00	µg/L	10	11/05/10 10:41
1,2-Dibromoethane	ND		5.00	1.60	µg/L	10	11/05/10 10:41
Chlorobenzene	44.4		5.00	1.00	µg/L	10	11/05/10 10:41
Ethylbenzene	30.8		5.00	1.00	µg/L	10	11/05/10 10:41
Xylenes (total)	49.4		10.0	3.00	µg/L	10	11/05/10 10:41
Styrene	ND		5.00	1.00	µg/L	10	11/05/10 10:41
Bromoform	ND		10.0	3.30	µg/L	10	11/05/10 10:41
Isopropylbenzene	4.30 ^J		5.00	1.00	µg/L	10	11/05/10 10:41
1,1,2,2-Tetrachloroethane	2.90 ^J		5.00	1.00	µg/L	10	11/05/10 10:41
1,3-Dichlorobenzene	ND		5.00	1.00	µg/L	10	11/05/10 10:41
1,4-Dichlorobenzene	ND		5.00	1.60	µg/L	10	11/05/10 10:41
1,2-Dichlorobenzene	4.90 ^J		5.00	1.00	µg/L	10	11/05/10 10:41
1,2-Dibromo-3-chloropropane	ND		50.0	10.0	µg/L	10	11/05/10 10:41
1,2,4-Trichlorobenzene	ND		10.0	1.00	µg/L	10	11/05/10 10:41
Surr: 1,2-Dichloroethane-d4	92		75-128	1.60	%REC	10	11/05/10 10:41
Surr: Toluene-d8	102		75-125	1.00	%REC	10	11/05/10 10:41
Surr: 4-Bromofluorobenzene	98		75-125	1.00	%REC	10	11/05/10 10:41

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 11/23/10 15:56

538842

Project Supervisor: Pamela J. Titus



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
 Project: PAS Oswego-Semi-Annual Well Sampling
 W Order: K1011042
 Matrix: WATER
 Inst. ID: MSK_75
 ColumnID: Rtx-VMS
 Revision: 11/18/10 7:45
 Col Type:

Sample Size: 10 mL
 %Moisture:
 TestCode: 8260W_OLM42

Lab ID: K1011042-006A
 Client Sample ID: LCW-4
 Collection Date: 11/03/10 14:25
 Date Received: 11/03/10 16:22
 PrepDate:
 BatchNo: R21077
 FileID: 1-SAMP-K3152.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
Dichlorodifluoromethane	ND		20.0	2.00	µg/L	20	11/05/10 11:11
Chloromethane	ND		20.0	6.60	µg/L	20	11/05/10 11:11
Vinyl chloride	26.0		20.0	6.60	µg/L	20	11/05/10 11:11
Bromomethane	ND		20.0	6.60	µg/L	20	11/05/10 11:11
Chloroethane	49.4		20.0	6.60	µg/L	20	11/05/10 11:11
Trichlorofluoromethane	ND		20.0	2.00	µg/L	20	11/05/10 11:11
1,1-Dichloroethane	ND		10.0	3.20	µg/L	20	11/05/10 11:11
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	2.00	µg/L	20	11/05/10 11:11
Acetone	200.0		200	20.0	µg/L	20	11/05/10 11:11
Carbon disulfide	ND		10.0	2.20	µg/L	20	11/05/10 11:11
Methyl acetate	ND		100	20.0	µg/L	20	11/05/10 11:11
Methylene chloride	40.0		40.0	3.20	µg/L	20	11/05/10 11:11
trans-1,2-Dichloroethene	ND		10.0	2.00	µg/L	20	11/05/10 11:11
Methyl tert-butyl ether	ND		20.0	3.20	µg/L	20	11/05/10 11:11
1,1-Dichloroethane	31.8		10.0	2.00	µg/L	20	11/05/10 11:11
cis-1,2-Dichloroethane	159		10.0	2.00	µg/L	20	11/05/10 11:11
2-Butanone	ND		200	20.0	µg/L	20	11/05/10 11:11
Chloroform	ND		10.0	2.00	µg/L	20	11/05/10 11:11
1,1,1-Trichloroethane	2.60	J	10.0	2.00	µg/L	20	11/05/10 11:11
Cyclohexane	11.8		10.0	2.00	µg/L	20	11/05/10 11:11
Carbon tetrachloride	ND		10.0	2.00	µg/L	20	11/05/10 11:11
Benzene	239		10.0	2.00	µg/L	20	11/05/10 11:11
1,2-Dichloroethane	3.60	J	10.0	3.20	µg/L	20	11/05/10 11:11
Trichloroethene	2.40	J	10.0	2.00	µg/L	20	11/05/10 11:11
Methylcyclohexane	2.20	J	10.0	2.00	µg/L	20	11/05/10 11:11
1,2-Dichloropropane	ND		10.0	3.20	µg/L	20	11/05/10 11:11
Bromodichloromethane	ND		10.0	2.00	µg/L	20	11/05/10 11:11
cis-1,3-Dichloropropene	ND		10.0	3.20	µg/L	20	11/05/10 11:11
4-Methyl-2-pentanone	ND		100	20.0	µg/L	20	11/05/10 11:11
Toluene	117		10.0	2.00	µg/L	20	11/05/10 11:11
trans-1,3-Dichloropropene	ND		10.0	3.20	µg/L	20	11/05/10 11:11
1,1,2-Trichloroethane	ND		10.0	3.20	µg/L	20	11/05/10 11:11
Tetrachloroethene	ND		10.0	2.00	µg/L	20	11/05/10 11:11

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
 Project: PAS Oswego-Semi-Annual Well Sampling
 W Order: K1011042
 Matrix: WATER
 Inst. ID: MSK_75
 ColumnID Rtx-VMS
 Revision: 11/18/10 7:45
 Col Type:

Lab ID: K1011042-006A
 Client Sample ID: LCW-4
 Collection Date: 11/03/10 14:25
 Date Received: 11/03/10 16:22
 PrepDate:
 BatchNo: R21077
 FileID: 1-SAMP-K3152.D

Sample Size: 10 mL
 %Moisture:
 TestCode: 8260W_OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8280B			
2-Hexanone	ND		100	20.0	µg/L	20	11/05/10 11:11
Dibromochloromethane	ND		10.0	2.00	µg/L	20	11/05/10 11:11
1,2-Dibromoethane	ND		10.0	3.20	µg/L	20	11/05/10 11:11
Chlorobenzene	213		10.0	2.00	µg/L	20	11/05/10 11:11
Ethylbenzene	387		10.0	2.00	µg/L	20	11/05/10 11:11
Xylenes (total)	1000		20.0	6.00	µg/L	20	11/05/10 11:11
Styrene	ND		10.0	2.00	µg/L	20	11/05/10 11:11
Bromoform	ND		20.0	6.60	µg/L	20	11/05/10 11:11
Isopropylbenzene	5.20	J	10.0	2.00	µg/L	20	11/05/10 11:11
1,1,2,2-Tetrachloroethane	ND		10.0	2.00	µg/L	20	11/05/10 11:11
1,3-Dichlorobenzene	ND		10.0	2.00	µg/L	20	11/05/10 11:11
1,4-Dichlorobenzene	3.20	J	10.0	3.20	µg/L	20	11/05/10 11:11
1,2-Dichlorobenzene	38.4		10.0	2.00	µg/L	20	11/05/10 11:11
1,2-Dibromo-3-chloropropane	ND	U	100	20.0	µg/L	20	11/05/10 11:11
1,2,4-Trichlorobenzene	ND		20.0	2.00	µg/L	20	11/05/10 11:11
Surr: 1,2-Dichloroethane-d4	91		75-128	3.20	%REC	20	11/05/10 11:11
Surr: Toluene-d8	100		75-125	2.00	%REC	20	11/05/10 11:11
Surr: 4-Bromofluorobenzene	100		75-125	2.00	%REC	20	11/05/10 11:11

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

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Analytical Results

State Cert No: 10248

CLIENT O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling

Lab ID: K1011042-007A

Client Sample ID: X-1 (Ch-6)

W Order: K1011042

Collection Date: 11/03/10 0:00

Matrix: WATER

Date Received: 11/03/10 16:22

Inst. ID: MSK_75

Sample Size: 10 mL

Prep Date:

Column ID: Rix-VMS

%Moisture:

Batch No: R21077

Revision: 11/18/10 7:45

Test Code: 8260W_OLM42

File ID: 1-SAMP-K3156.D

Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 13:11
Chloromethane	ND		1.00	0.33	µg/L	1	11/05/10 13:11
Vinyl chloride	ND		1.00	0.33	µg/L	1	11/05/10 13:11
Bromomethane	ND		1.00	0.33	µg/L	1	11/05/10 13:11
Chloroethane	ND		1.00	0.33	µg/L	1	11/05/10 13:11
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 13:11
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	11/05/10 13:11
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	11/05/10 13:11
Acetone	ND		10.0	1.00	µg/L	1	11/05/10 13:11
Carbon disulfide	ND		0.50	0.11	µg/L	1	11/05/10 13:11
Methyl acetate	ND		5.00	1.00	µg/L	1	11/05/10 13:11
Methylene chloride	ND		2.00	0.16	µg/L	1	11/05/10 13:11
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	11/05/10 13:11
1,1-Dichloroethane	2.02		0.50	0.10	µg/L	1	11/05/10 13:11
cis-1,2-Dichloroethane	0.11 (J)		0.50	0.10	µg/L	1	11/05/10 13:11
2-Butanone	ND		10.0	1.00	µg/L	1	11/05/10 13:11
Chloroform	ND		0.50	0.10	µg/L	1	11/05/10 13:11
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 13:11
Cyclohexane	ND		0.50	0.10	µg/L	1	11/05/10 13:11
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	11/05/10 13:11
Benzene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 13:11
Trichloroethene	0.18 (J)		0.50	0.10	µg/L	1	11/05/10 13:11
Methylcyclohexane	ND		0.50	0.10	µg/L	1	11/05/10 13:11
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	11/05/10 13:11
Bromodichloromethane	ND		0.50	0.10	µg/L	1	11/05/10 13:11
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 13:11
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	11/05/10 13:11
Toluene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
trans-1,3-Dichloropropane	ND		0.50	0.16	µg/L	1	11/05/10 13:11
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 13:11
Tetrachloroethene	ND		0.50	0.10	µg/L	1	11/05/10 13:11

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
 Project: PAS Oswego-Semi-Annual Well Sampling
 W Order: K1011042
 Matrix: WATER
 Inst. ID: MSK_75
 ColumnID Rtx-VMS
 Revision: 11/18/10 7:45
 Col Type:

Lab ID: K1011042-007A
 Client Sample ID: X-1
 Collection Date: 11/03/10 0:00
 Date Received: 11/03/10 16:22
 PrepDate:
 BatchNo: R21077
 FileID: 1-SAMP-K3156.D

Sample Size: 10 mL
 %Moisture:
 TestCode: 8260W_OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
2-Hexanone	ND		5.00	1.00	µg/L	1	11/05/10 13:11
Dibromochloromethane	ND		0.50	0.10	µg/L	1	11/05/10 13:11
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	11/05/10 13:11
Chlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
Ethylbenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
Xylenes (total)	ND		1.00	0.30	µg/L	1	11/05/10 13:11
Styrene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
Bromoform	ND		1.00	0.33	µg/L	1	11/05/10 13:11
Isopropylbenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	11/05/10 13:11
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	11/05/10 13:11
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:11
1,2-Dibromo-3-chloropropane	ND	UJ	5.00	1.00	µg/L	1	11/05/10 13:11
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	11/05/10 13:11
Surr: 1,2-Dichloroethane-d4	93		75-128	0.18	%REC	1	11/05/10 13:11
Surr: Toluene-d8	102		75-125	0.10	%REC	1	11/05/10 13:11
Surr: 4-Bromofluorobenzene	98		75-125	0.10	%REC	1	11/05/10 13:11

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011042-008A
Project:	PAS Oswego-Semi-Annual Well Sampling	Client Sample ID:	QC Trip Blanks
W Order:	K1011042	Collection Date:	11/03/10 7:30
Matrix:	WATER Q	Date Received:	11/03/10 16:22
Inst. ID:	MSK_75	Sample Size:	10 mL
Column ID	Rdx-VMS	%Moisture:	
Revision:	11/18/10 7:45	TestCode:	8260W_OLM42
Col Type:		PrepDate:	
		BatchNo:	R21077
		FileID:	I-SAMP-K3157.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 13:41
Chloromethane	ND		1.00	0.33	µg/L	1	11/05/10 13:41
Vinyl chloride	ND		1.00	0.33	µg/L	1	11/05/10 13:41
Bromomethane	ND		1.00	0.33	µg/L	1	11/05/10 13:41
Chloroethane	ND		1.00	0.33	µg/L	1	11/05/10 13:41
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	11/05/10 13:41
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	11/05/10 13:41
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Acetone	5.69	J	10.0	1.00	µg/L	1	11/05/10 13:41
Carbon disulfide	ND		0.50	0.11	µg/L	1	11/05/10 13:41
Methyl acetate	ND		5.00	1.00	µg/L	1	11/05/10 13:41
Methylene chloride	0.32	J	2.00	0.16	µg/L	1	11/05/10 13:41
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Methyl tert-butyl ether	0.17	J	1.00	0.16	µg/L	1	11/05/10 13:41
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 13:41
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
2-Butanone	ND		10.0	1.00	µg/L	1	11/05/10 13:41
Chloroform	ND		0.50	0.10	µg/L	1	11/05/10 13:41
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Cyclohexane	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Benzene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 13:41
Trichloroethene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Methylcyclohexane	ND		0.50	0.10	µg/L	1	11/05/10 13:41
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	11/05/10 13:41
Bromodichloromethane	ND		0.50	0.10	µg/L	1	11/05/10 13:41
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 13:41
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	11/05/10 13:41
Toluene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/05/10 13:41
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	11/05/10 13:41
Tetrachloroethene	ND		0.50	0.10	µg/L	1	11/05/10 13:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim/Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011042-008A
Project:	PAS Oswego-Semi-Annual Well Sampling	Client Sample ID:	<i>QC Trip Blanks</i>
W Order:	K1011042	Collection Date:	11/03/10 7:30
Matrix:	WATER Q	Date Received:	11/03/10 16:22
Inst. ID:	MSK_75	Sample Size:	10 mL
ColumnID	Rtx-VMS	%Moisture:	
Revision:	11/18/10 7:45	TestCode:	8260W_OLM42
Col Type:		PrepDate:	
		BatchNo:	R21077
		FileID:	1-SAMP-K3157.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	1.00	µg/L	1	11/05/10 13:41
Dibromochloromethane	ND		0.50	0.10	µg/L	1	11/05/10 13:41
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	11/05/10 13:41
Chlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Ethylbenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Xylenes (total)	ND		1.00	0.30	µg/L	1	11/05/10 13:41
Styrene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
Bromoform	ND		1.00	0.33	µg/L	1	11/05/10 13:41
Isopropylbenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	11/05/10 13:41
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	11/05/10 13:41
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/05/10 13:41
1,2-Dibromo-3-chloropropane	ND	UJ	5.00	1.00	µg/L	1	11/05/10 13:41
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	11/05/10 13:41
Surr: 1,2-Dichloroethane-d4	92		75-128	0.16	%REC	1	11/05/10 13:41
Surr: Toluene-d8	101		75-125	0.10	%REC	1	11/05/10 13:41
Surr: 4-Bromofluorobenzene	99		75-125	0.10	%REC	1	11/05/10 13:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prin./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
 Project: PAS Oswego-Semi-Annual Well Sampling
 W Order: K1011306
 Matrix: WATER
 Inst. ID: MS03_10
 ColumnID Rtx-502.2
 Revision: 12/01/10 10:56
 Col Type:

Lab ID: K1011306-001A
 Client Sample ID: LR-6
 Collection Date: 11/29/10 10:30
 Date Received: 11/29/10 13:37
 PrepDate:
 BatchNo: R21143
 FileID: 1-SAMP-J1572.D

Sample Size: 10 mL
 %Moisture:
 TestCode: 8260W_OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	11/30/10 14:27
Chloromethane	ND		1.00	0.33	µg/L	1	11/30/10 14:27
Vinyl chloride	ND		1.00	0.33	µg/L	1	11/30/10 14:27
Bromomethane	ND		1.00	0.33	µg/L	1	11/30/10 14:27
Chloroethane	ND		1.00	0.33	µg/L	1	11/30/10 14:27
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	11/30/10 14:27
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	11/30/10 14:27
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:27
Acetone	ND		10.0	1.00	µg/L	1	11/30/10 14:27
Carbon disulfide	ND		0.50	0.11	µg/L	1	11/30/10 14:27
Methyl acetate	ND		5.00	1.00	µg/L	1	11/30/10 14:27
Methylene chloride	ND		2.00	0.16	µg/L	1	11/30/10 14:27
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	11/30/10 14:27
1,1-Dichloroethane	1.86		0.50	0.10	µg/L	1	11/30/10 14:27
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
2-Butanone	ND		10.0	1.00	µg/L	1	11/30/10 14:27
Chloroform	ND		0.50	0.10	µg/L	1	11/30/10 14:27
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:27
Cyclohexane	ND		0.50	0.10	µg/L	1	11/30/10 14:27
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	11/30/10 14:27
Benzene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	11/30/10 14:27
Trichloroethene	0.16	J	0.50	0.10	µg/L	1	11/30/10 14:27
Methylcyclohexane	ND		0.50	0.10	µg/L	1	11/30/10 14:27
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	11/30/10 14:27
Bromodichloromethane	ND		0.50	0.10	µg/L	1	11/30/10 14:27
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/30/10 14:27
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	11/30/10 14:27
Toluene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/30/10 14:27
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	11/30/10 14:27
Tetrachloroethene	ND		0.50	0.10	µg/L	1	11/30/10 14:27

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011306-001A
Project:	PAS Oswego-Semi-Annual Well Sampling	Client Sample ID:	LR-6
W Order:	K1011306	Collection Date:	11/29/10 10:30
Matrix:	WATER	Date Received:	11/29/10 13:37
Inst. ID:	MS03_10	Sample Size:	10 mL
ColumnID	Rtx-502.2	%Moisture:	
Revision:	12/01/10 10:56	TestCode:	8260W_OLM42
Col Type:		PrepDate:	
		BatchNo:	R21143
		FileID:	1-SAMP-J1572.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		5.00	1.00	µg/L	1	11/30/10 14:27
Dibromochloromethane	ND		0.50	0.10	µg/L	1	11/30/10 14:27
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	11/30/10 14:27
Chlorobenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
Ethylbenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
Xylenes (total)	ND		1.00	0.30	µg/L	1	11/30/10 14:27
Styrene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
Bromoform	ND		1.00	0.33	µg/L	1	11/30/10 14:27
Isopropylbenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:27
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	11/30/10 14:27
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:27
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	11/30/10 14:27
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	11/30/10 14:27
Surr: 1,2-Dichloroethane-d4	103		75-128	0.16	%REC	1	11/30/10 14:27
Surr: Toluene-d8	102		75-125	0.10	%REC	1	11/30/10 14:27
Surr: 4-Bromofluorobenzene	98.4		75-125	0.10	%REC	1	11/30/10 14:27

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 12/01/10 14:09

540543

Project Supervisor: Pamela J. Titus



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Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011306-002A
Project:	PAS Oswego-Semi-Annual Well Sampling	Client Sample ID:	QC Trip Blanks
W Order:	K1011306	Collection Date:	11/29/10 10:30
Matrix:	WATER Q	Date Received:	11/29/10 13:37
Inst. ID:	MS03_10	Sample Size:	10 mL
ColumnID	Rtx-502.2	%Moisture:	
Revision:	12/01/10 10:56	TestCode:	8260W_OLM42
Col Type:		BatchNo:	R21143
		FileID:	1-SAMP-J1573.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	11/30/10 14:59
Chloromethane	ND		1.00	0.33	µg/L	1	11/30/10 14:59
Vinyl chloride	ND		1.00	0.33	µg/L	1	11/30/10 14:59
Bromomethane	ND		1.00	0.33	µg/L	1	11/30/10 14:59
Chloroethane	ND		1.00	0.33	µg/L	1	11/30/10 14:59
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	11/30/10 14:59
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	11/30/10 14:59
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Acetone	6.21	J	10.0	1.00	µg/L	1	11/30/10 14:59
Carbon disulfide	0.23	J	0.50	0.11	µg/L	1	11/30/10 14:59
Methyl acetate	ND		5.00	1.00	µg/L	1	11/30/10 14:59
Methylene chloride	ND		2.00	0.16	µg/L	1	11/30/10 14:59
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	11/30/10 14:59
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
cis-1,2-Dichloroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
2-Butanone	ND		10.0	1.00	µg/L	1	11/30/10 14:59
Chloroform	ND		0.50	0.10	µg/L	1	11/30/10 14:59
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Cyclohexane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Benzene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	11/30/10 14:59
Trichloroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Methylcyclohexane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	11/30/10 14:59
Bromodichloromethane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/30/10 14:59
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	11/30/10 14:59
Toluene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	11/30/10 14:59
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	11/30/10 14:59
Tetrachloroethene	ND		0.50	0.10	µg/L	1	11/30/10 14:59

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10248

CLIENT	O'Brien & Gere Inc. of North America	Lab ID:	K1011306-002A
Project:	PAS Oswego-Semi-Annual Well Sampling	Client Sample ID:	QC Trip Blanks
W Order:	K1011306	Collection Date:	11/29/10 10:30
Matrix:	WATER Q	Date Received:	11/29/10 13:37
Inst. ID:	MS03_10	Sample Size:	10 mL
ColumnID	Rtx-502.2	%Moisture:	
Revision:	12/01/10 10:56	TestCode:	8260W_OLM42
Col Type:		BatchNo:	R21143
		FileID:	1-SAMP-J1573.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW9260B		
2-Hexanone	ND		5.00	1.00	µg/L	1	11/30/10 14:59
Dibromochloromethane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	11/30/10 14:59
Chlorobenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Ethylbenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Xylenes (total)	ND		1.00	0.30	µg/L	1	11/30/10 14:59
Styrene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
Bromofom	ND		1.00	0.33	µg/L	1	11/30/10 14:59
Isopropylbenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	11/30/10 14:59
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	11/30/10 14:59
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	11/30/10 14:59
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	11/30/10 14:59
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	11/30/10 14:59
Sum: 1,2-Dichloroethane-d4	102		75-128	0.16	%REC	1	11/30/10 14:59
Sum: Toluene-d8	108		75-125	0.10	%REC	1	11/30/10 14:59
Sum: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	11/30/10 14:59

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Print/Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 12/01/10 14:09

540544

Project Supervisor: Pamela J. Titus



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Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling
W Order: K1011042
Matrix: WATER

Lab ID: K1011042-005B
Client Sample ID: LCW-2
Collection Date: 11/03/10 12:55
Date Received: 11/03/10 16:22

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
BIOCHEMICAL OXYGEN DEMAND (BOD5)			SM 18-20 5210 B		
Biochemical oxygen demand (BOD5)	8.0	J ✓	5.0 mg/L	1	11/05/10 12:10
RESIDUE-FILTERABLE (TDS)			SM 18-20 2540 C		
Residue-filterable (TDS)	1100		10 mg/L	1	11/04/10 14:00
RESIDUE-NON-FILTERABLE (TSS)			SM 18-20 2540 D		
Residue-non-filterable (TSS)	25		5.0 mg/L	1	11/10/10 14:00

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling
W Order: K1011042
Matrix: WATER

Lab ID: K1011042-005C
Client Sample ID: LCW-2
Collection Date: 11/03/10 12:55
Date Received: 11/03/10 16:22

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
COD			EPA 410.4		
Chemical Oxygen Demand	100		10 mg/L	1	11/16/10 10:59

- Qualifiers:**
- Value exceeds Maximum Contaminant Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10248

CLIENT: O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling
W Order: K1011042
Matrix: WATER
Inst. ID: TOC-5000A **Sample Size:** NA
ColumnID: **%Moisture:**
Revision: 11/09/10 11:45 **TestCode** TOC5310B
Col Type:

Lab ID: K1011042-005D
Client Sample ID: LCW-2
Collection Date: 11/03/10 12:55
Date Received: 11/03/10 16:22
PrepDate:
BatchNo: R21013
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
ORGANIC CARBON-TOTAL (TOC)				SM 18-20 5310 B		
Organic carbon-Total (TOC)	35		5.0	mg/L	5	11/08/10 17:18

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
 Project: PAS Oswego-Semi-Annual Well Sampling
 W Order: K1011042
 Matrix: WATER

Lab ID: K1011042-006B
 Client Sample ID: LCW-4
 Collection Date: 11/03/10 14:25
 Date Received: 11/03/10 16:22

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BIOCHEMICAL OXYGEN DEMAND (BOD5) Biochemical oxygen demand (BOD5)	ND	UJ	SM 18-20 5210 B	40 mg/L	1	11/05/10 12:12
RESIDUE-FILTERABLE (TDS) Residue-filterable (TDS)	1700		SM 18-20 2540 C	10 mg/L	1	11/04/10 14:00
RESIDUE-NON-FILTERABLE (TSS) Residue-non-filterable (TSS)	110		SM 18-20 2540 D	5.0 mg/L	1	11/10/10 14:00

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling
W Order: K1011042
Matrix: WATER

Lab ID: K1011042-006C
Client Sample ID: LCW-4
Collection Date: 11/03/10 14:25
Date Received: 11/03/10 16:22

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
COD Chemical Oxygen Demand	210		EPA 410.4 40 mg/L	4	11/16/10 10:59

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10248

CLIENT: O'Brien & Gere Inc. of North America
Project: PAS Oswego-Semi-Annual Well Sampling
W Order: K1011042
Matrix: WATER
Inst. ID: TOC-5000A **Sample Size:** NA
ColumnID: **%Moisture:**
Revision: 11/09/10 11:45 **TestCode** TOC5310B
Col Type:

Lab ID: K1011042-006D
Client Sample ID: LCW-4
Collection Date: 11/03/10 14:25
Date Received: 11/03/10 16:22
PrepDate:
BatchNo: R21013
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
ORGANIC CARBON-TOTAL (TOC)				SM 18-20 5310 B		
Organic carbon-Total (TOC)	58		5.0	mg/L	5	11/08/10 17:30

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

ATTACHMENT B-5

*INSTITUTIONAL CONTROLS CERTIFICATION
MEMORANDUM*

PAS OSWEGO SUPERFUND SITE

**Institutional Controls Implementation Plan
Annual Certification
August 2011**

REQUIREMENT: The Institutional Control Implementation Plan (ICIP) for the PAS Oswego Superfund Site as approved by USEPA includes requirements for the period following the execution and recording of the Easement, which were documented in the approved Remedial Action Completion Report. It states that following implementation of institutional controls on the Industrial Precision Products Property, the Site will be inspected on an annual basis to determine whether any intrusive activities have occurred. In addition, building and property records will be reviewed to ascertain whether or not any filings have been made for such activities. The ICIP provides for an annual report summarizing the findings of the inspection and record review to be prepared, along with a certification confirming that operation and maintenance activities continue, and that this annual report would be included with the OM&M progress report to be submitted to EPA in July of each year.

CERTIFICATION: The PAS Oswego annual site and records inspection was performed by *de maximis, inc.* on October 29, 2010. During this visit an inspection was made of the PAS Oswego Site during a monthly leachate removal event. This site inspection was scheduled to determine if any intrusive activities may have occurred on the Industrial Precision Controls property since the Remedial Action Completion Report was approved in August 2006. *de maximis* also contacted representatives of the City to confirm that no potential filings were made to install wells on the Industrial Precision Property. Based on results of the annual site and records inspection, a determination has been made that no intrusive activities have occurred or are planned on the Industrial Precision Control Property and that the operation and maintenance activities at the PAS Oswego Site are continuing in accordance with the requirements of Consent Decree.