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May 26, 2011

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Active Industrial Uniform Site (Site No. 1-52-125)
D&B Work Assignment No. D004446-01
Quarterly Report No. 24
D&B No. 2578

Dear Mr. Long:

Quarterly Report No. 24 presents a summary of the quarterly operation, maintenance, monitoring and sampling activities performed at the Active Industrial Uniform Site groundwater extraction and treatment system, located at 63 West Montauk Highway in the Village of Lindenhurst, Suffolk County, New York (see Attachment A, Figure 1), for the period beginning October 1, 2010 through December 31, 2010.

Operation, system maintenance, monitoring and sampling activities were conducted by a New York State Department of Environmental Conservation (NYSDEC) "call-out" contractor, Environmental Assessment and Remediations (EAR), under direct contract with the NYSDEC. Reporting, data management and assessment, and additional engineering/technical evaluation services were performed by Dvirka and Bartilucci Consulting Engineers (D&B).

Presented below is a summary of system operations and maintenance completed during the quarter, as well as the results and interpretation of the sample collection and analysis completed during this reporting period. All groundwater monitoring well sample data is discussed in the Groundwater Sampling Report No. 4. In addition, a Site Management Plan (SMP) for the Active Industrial Uniform Site is currently being drafted by D&B.

Groundwater Extraction and Treatment System Operation and Maintenance

During this reporting period, on-site extraction well RW-1 operated at an average pumping rate of approximately 112 gallons per minute (gpm). As stated in Quarterly Report No. 22, the NYSDEC requested the shutdown of off-site extraction well RW-2 on April 21, 2010 due to the presence of historically low concentrations of chlorinated volatile organic compounds (VOCs), along with continued decline in total VOC concentrations.

Since the treatment system is no longer receiving groundwater from extraction well RW-2, extraction well RW-1's flow rate was increased in April 2010 in order to maximize its radius of influence and improve the capture of chlorinated VOC-contaminated groundwater potentially migrating off-site. Based on a review of the data, the flow rate for RW-1 shows an overall decreasing trend since the extraction well flow rate was adjusted in April 2010, possibly due to iron plating on the well screen and/or slight pump wear over time. A normalized graph of the average flow rate for RW-1 since May 2009 is presented in Attachment B.

During this reporting period, approximately 13,325,000 gallons of treated groundwater was discharged to Little Neck Creek. Though not included on the as-built drawings for the site, the discharge water flows to a storm water basin adjacent to the creek and the overflow from this structure flows into the creek. Approximately 27.3 pounds of total VOCs were removed from the extracted groundwater during this reporting period and approximately 1,397 pounds of total VOCs have been removed since start-up of the system. The average total VOC removal efficiency for this quarter was approximately 98 percent. A summary of the extraction and treatment system performance results is provided in Attachment C.

The groundwater extraction system was operational for a total of approximately 1,986 hours and inoperative for a total of approximately 221 hours due to system alarm conditions and non-routine maintenance.

Alarm conditions responded to during this reporting period included the following:

- Transfer pump No. 2 fault resulting from an under-current condition (one event);
- Loss of power to the treatment system building, which caused the transfer pump VFDs to malfunction and need to be reset (one event); and
- High level alarm condition at air stripper No. 1 (two events).

Non-routine maintenance performed during this reporting period included the following:

- Backfill portions of the UST excavation area with clean fill and on-site cleanup of recycled concrete aggregate (RCA) on October 18, 2010;
- Replacement of leaking sample ports on October 26 and 28 and November 2, 2010;
- Assessment and repair of treatment system heaters and assessment of in-situ soil remediation enclosure for the soil excavated as part of the UST removal excavation on November 2, 2010;
- Assessment of outdoor lighting on December 2, 2010;
- Assessment of blocked effluent carbon sample port due to ice, and assessment of malfunctioning treatment system building heaters on December 22, 2010.

- Assessment of granulated activated carbon (GAC) vessels, which was discharged from the treatment system effluent stack on December 22, 2010.
- Pumping out of knock out drum condensate on December 22 and 23, 2010;
- Assessment and restart of treatment system building heaters on December 23, 2010;
- Shutdown of treatment system, and draining of system stripper towers, influent and effluent piping due to lack of heat within the treatment system building on December 23, 2010; and
- Removal of snow from the property on December 29, 2010.

EAR has reported that routine maintenance was not conducted during this reporting period due to the large amount of system downtime during this reporting period.

A copy of the Site Activities Logs, System Monitoring Logs and a System Operations and Downtime Log for this reporting period, which includes a summary of system maintenance events and alarm responses, as prepared by EAR, is provided in Attachment D.

As noted in the Quarter 22 report, the treatment system effluent piping was borescoped in order to diagnose a high pressure reading and associated alarm conditions in the piping. The high pressure is possibly due to a blockage in the effluent piping. However, as the treatment system is currently only receiving water from one extraction well, treatment system effluent flow rate and pressure have reduced such that system shutdowns related to the possible effluent piping restriction have not occurred. Based on this information, and at the current influent flow rate, further diagnosis of the treatment system effluent piping is no longer warranted.

Groundwater Extraction and Treatment System Monitoring (Aqueous Samples)

Monthly groundwater samples were collected from the combined influent sample tap (COMB-INF) and the treatment system discharge sample tap (COMB-EFF) on October 26 and November 30, 2010. All samples were analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method 624. The samples collected from the combined influent sample tap were also analyzed for Target Analyte List (TAL) metals by USEPA Method 6010B and for pH by USEPA Method 9040B.

Monthly, quarterly and semiannual treatment system samples for the month of December were not collected during this reporting period due to the amount of system downtime during the month of December. As per the NYSDEC, routine sampling will resume once the treatment system is restarted.

All sample results are summarized in Attachment E.

Based on the analytical results of the influent groundwater sample results, COMB-INF total VOCs ranged from 233 ug/l to a maximum concentration of 283 ug/l detected in samples collected on October 26, 2010. During this reporting period, tetrachloroethene (PCE) was detected in exceedance

of its Class GA groundwater standard of 5.0 ug/l at concentrations ranging from 190 ug/l to 230 ug/l, with the maximum concentration detected in samples collected on October 26, 2010. Trichloroethene (TCE) was detected in excess of its Class GA groundwater standard of 5.0 ug/l at concentrations ranging from 42.0 ug/l to 49.0 ug/l, with the maximum concentration detected in samples collected on October 26, 2010. As noted in Quarterly Report No. 22, cis-1,2-dichlorethene (cis-1,2-DCE), was not analyzed during this reporting period as USEPA Method 624 does not report cis-1,2-DCE as part of its suite of compounds. D&B notified the NYSDEC that cis-1,2-DCE was not included as part of Method 624 upon review of the data and has recommended returning to Method 8260, in order to continue to monitor this site-specific contaminant of concern.

In addition, COMB-INF manganese was detected in excess of its Class GA groundwater standard of 300 ug/l at concentrations ranging from 974 ug/l to 986 ug/l, with the maximum concentration detected in the samples collected on November 30, 2010, while COMB-INF sodium was detected in exceedance of its Class GA groundwater standard of 20,000 ug/l at concentrations ranging from 22,300 ug/l to 23,100 ug/l, with the maximum concentration detected in samples collected on November 30, 2010. COMB-INF iron was detected in exceedance of its Class GA groundwater standard of 300 ug/l at a concentration of 1,360 ug/l on November 30, 2010.

The sample results for VOCs from the aqueous phase air stripper discharge have been compared to the NYSDEC site-specific effluent limits. Based on the aqueous phase effluent sample results, COMB-EFF VOCs were all detected below the NYSDEC site-specific effluent limits.

Groundwater Extraction and Treatment System Monitoring (Air Sampling)

Air samples were collected from the vapor phase carbon adsorption system influent (VPCV-INF), midfluent (VPCV-MID) and effluent (VPCV-EFF) sample taps on October 26 and November 30, 2010 and analyzed for VOCs utilizing USEPA Method TO-15. The results of the vapor phase carbon adsorption system samples are compared to the NYSDEC site-specific effluent limits. The vapor phase carbon adsorption system discharge sample results are provided in Attachment E.

VOC effluent discharge rates were below the NYSDEC site-specific effluent discharge rates, with the exception of 1,2-DCE and TCE. 1,2-DCE was discharged at a rate of 5.7×10^{-3} lbs/hr and 8.1×10^{-3} on October 26 and November 30, 2010, respectively, exceeding its site-specific effluent discharge rate of 3.0×10^{-3} lbs/hr, while TCE was discharged at a rate of 1.2×10^{-2} lbs/hr on November 30, 2010, exceeding its site-specific effluent discharge rate of 6.0×10^{-3} lbs/hr. The NYSDEC was immediately notified of these exceedances upon review of the data. D&B will continue to closely monitor 1,2-DCE and TCE concentrations in the treatment system vapor samples and continue to notify the NYSDEC when exceedances of the site-specific effluent limits are noted. Also, as recommended in previous quarterly reports, a change-out of the GAC in the two on-site carbon vessels is warranted.

Data Validation

The data packages submitted by Test America have been reviewed for completeness and compliance with NYSDEC ASP Quality Assurance/Quality Control (QA/QC) requirements. Test America is a

New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory. All sample results have been deemed valid and usable for environmental assessment purposes, except as noted below:

- For air samples collected on October 26, 2010, the laboratory used a one-point calibration for ethanol and ethanol was qualified as estimated (J/UJ) in all samples.
- For air samples collected on October 26, 2010, cis-1,2-DCE and PCE were detected above the linear range of the instrument calibration and were reanalyzed at a secondary dilution. The associated results are qualified with a "D."
- For air samples collected on November 30, 2010, cis-1,2-DCE, TCE, and PCE were detected above the linear range of the instrument calibration and were reanalyzed at a secondary dilution. The associated results are qualified with a "D."

Data Validation Checklists are presented in Attachment F.

Findings

Based on the results of performance monitoring conducted during this reporting period, D&B offers the following findings:

- The results of the system influent samples show that extraction well RW-1 is continuing to capture VOC-contaminated groundwater.
- The replacement analytical method approved for VOC analysis (USEPA Method 624) includes all site-specific contaminants of concern, with the exception of cis-1,2-DCE.
- Extraction well RW-1 was pumping at an average rate of 112 gpm during this reporting period, which is higher than the contract-required flow rate range of 80 gpm to 100 gpm, as specified in the Active Industrial Uniform Site Contract Documents. As detailed in Quarterly Report No. 22, extraction well RW-1 was adjusted to pump at a higher extraction rate after extraction well RW-2 was shut down on April 21, 2010, in order to increase its on-site radius of influence and ensure that all on-site VOCs are captured prior to migration off-site.
- The effluent pressure readings have been lower, as compared to previous quarters, due to only RW-1 pumping.
- Note that no new supply wells have been installed on the Active Industrial property and, based on a windshield inspection of the immediate area, no new schools or parks have been constructed in the vicinity of or downgradient from the Active Industrial property.
- The Class GA Groundwater Standards and Guidance Values and the NYSDEC site-specific effluent limits have not been modified since system start-up in December 2001. A new DER-10 document, dated May 2010, has been implemented since the March 1998 ROD was issued.

- The toxicity data, cleanup levels and remedial action objectives, as defined in the March 1997 Record of Decision, remain unchanged.

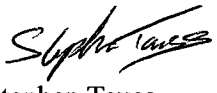
Recommendations

Based on the results of performance monitoring completed during this reporting period, D&B provides the following recommendations:

- Continue operation of the groundwater extraction and treatment system to minimize downgradient migration of site-related contaminants currently being captured by the system.
- Based on the exceedances noted in the effluent samples collected from the carbon vessels, it is warranted to replace the granular activated carbon contained in the carbon vessels.
- Due to the fact that the treatment system is currently only receiving water from extraction well RW-1, further diagnosis of the treatment system effluent piping is no longer warranted. However, if the influent flow rate, and therefore pressure, is increased in the future, it may be warranted to continue the borescope of the effluent piping.
- Change the VOC analytical method back to USEPA Method 8260 in order to monitor the concentrations of cis-1,2-DCE in site groundwater.

Please do not hesitate to contact me at (516) 364-9890, Ext. 3094, if you have any questions.

Very truly yours,

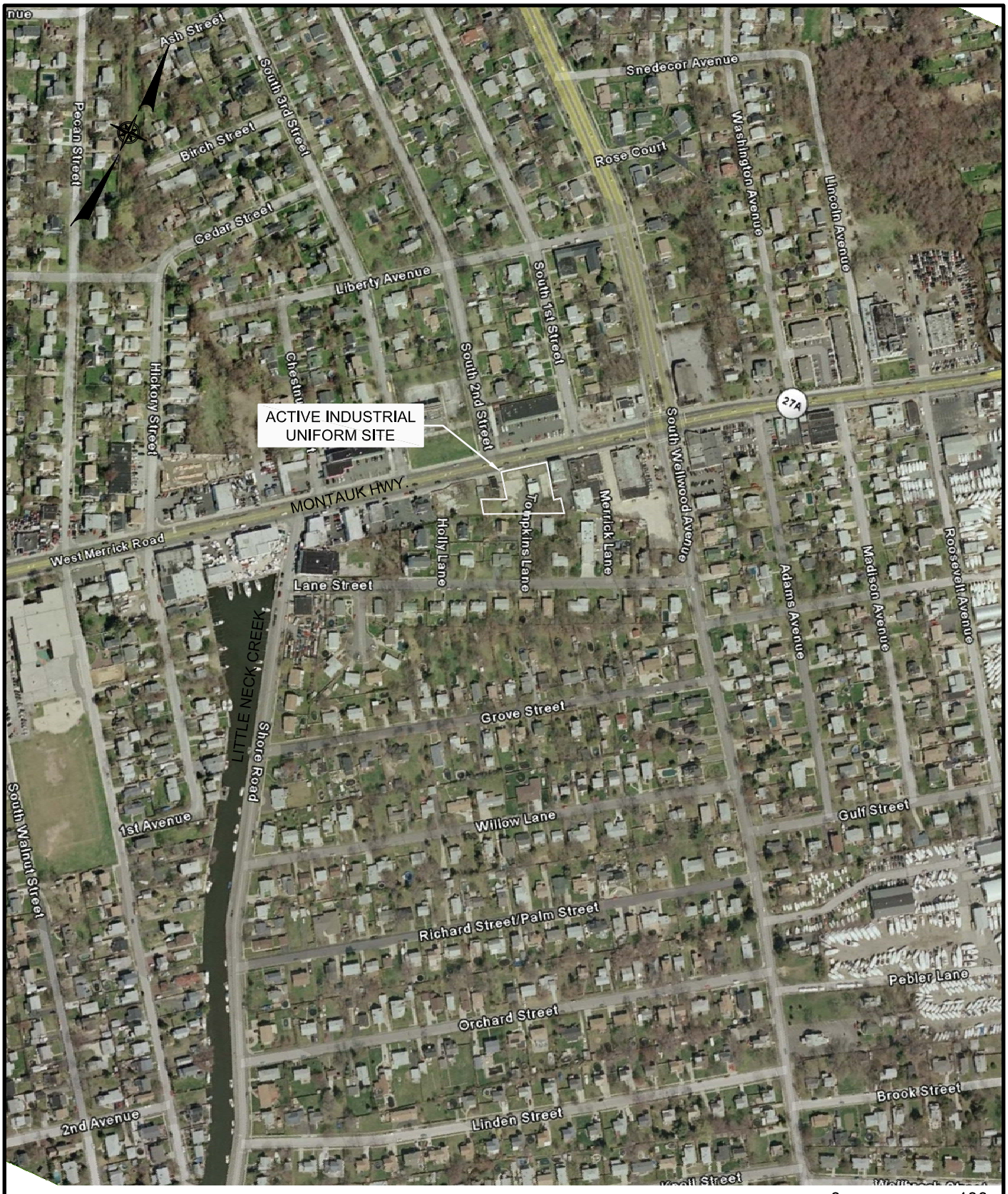


Stephen Tauss
Project Manager

SET/PM(t)/j,lf
Attachments
cc: R. Walka (D&B)
P. Martorano (D&B)
F. DeVita (D&B)
♦2578\SET031011-PL_QR24.DOC(R06)

ATTACHMENT A

FIGURES



SOURCE: GOOGLE EARTH 2005

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

ACTIVE INDUSTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

SITE LOCATION MAP

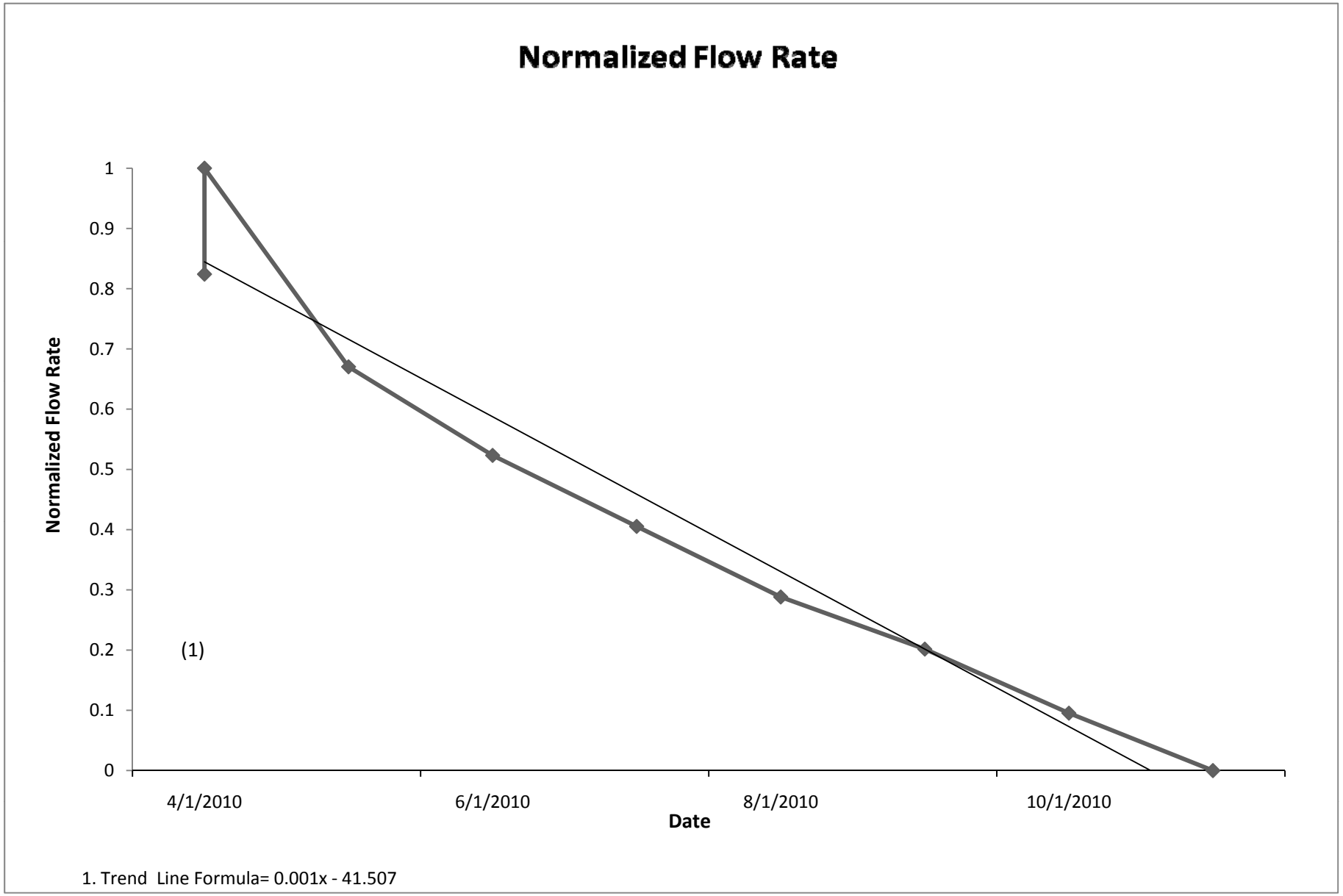
FIGURE 1

F:\2578\Quarterly Report\FIGURE 1.dwg, 5/26/2011 11:22:53 AM, Adobe PDF

ATTACHMENT B

NORMALIZED GRAPH OF
AVERAGE FLOW RATE FOR RW-1

Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Extraction Well RW-1



Normalized Graph RW-1

ATTACHMENT C

PERFORMANCE SUMMARY

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
EXTRACTION AND TREATMENT SYSTEM PERFORMANCE RESULTS - AQUEOUS

SAMPLE COLLECTION DATE	SYSTEM INFLUENT AVERAGE EXTRACTION RATE (gpm)	SYSTEM INFLUENT TOTAL VOC CONCENTRATION (ug/L)	SYSTEM EFFLUENT TOTAL VOC CONCENTRATION (ug/L)	TOTAL VOC REMOVAL EFFICIENCY (%)	ESTIMATED AVERAGE TOTAL VOC REMOVAL RATE (lb/hr)	ESTIMATED SYSTEM RUNTIME (hr)	CUMULATIVE TOTAL VOC REMOVAL (lbs)
7/20/2006	65.32 (RW-1) 0.00 (RW-2)	550	< 5.0	99.09%	1.80E-02	473 (RW-1) 0 (RW-2)	1,040.86
8/17/2006	63.60 (RW-1) 91.30 (RW-2)	258	< 5.0	98.06%	2.00E-02	719 (RW-1) 96 (RW-2)	1,055.23
9/19/2006	60.33 (RW-1) 90.31 (RW-2)	294	< 5.0	98.30%	2.22E-02	1016 (RW-1) 1016 (RW-2)	1,077.73 (2)
10/9/2006	59.18 (RW-1) 0.00 (RW-2)	666	< 5.0	99.25%	1.97E-02	209 (RW-1) 0 (RW-2)	1,081.85
11/1/2006	58.40 (RW-1) 0.00 (RW-2)	840	< 5.0	99.40%	2.45E-02	550 (RW-1) 0 (RW-2)	1,095.35
12/8/2006	56.70 (RW-1) 0.00 (RW-2)	474	< 5.0	98.95%	1.34E-02	1418 (RW-1) 0 (RW-2)	1,114.41 (2)
1/5/2007	54.22 (RW-1) 0.00 (RW-2)	405	< 5.0	98.77%	1.10E-02	85 (RW-1) 0 (RW-2)	1,115.35
2/26/2007	56.28 (RW-1) 0.00 (RW-2)	244	< 5.0	97.95%	6.87E-03	756 (RW-1) 0 (RW-2)	1,120.54
3/16/2007	52.37 (RW-1) 0.00 (RW-2)	281	< 5.0	98.22%	7.36E-03	505 (RW-1) 0 (RW-2)	1,124.26 (2)
6/15/2007	51.33 (RW-1) 0.00 (RW-2)	269 (4)	< 5.0	98.14%	6.91E-03	213 (RW-1) 0 (RW-2)	1,125.73 (2)
7/12/2007	52.26 (RW-1) 0.00 (RW-2)	257	< 5.0	98.05%	6.72E-03	266 (RW-1) 0 (RW-2)	1,127.52
8/10/2007	52.47 (RW-1) 0.00 (RW-2)	251	< 5.0	98.01%	6.59E-03	692 (RW-1) 0 (RW-2)	1,132.08
9/12/2007	51.57 (RW-1) 0.00 (RW-2)	295	< 5.0	98.31%	7.61E-03	1232 (RW-1) 0 (RW-2)	1,141.46 (2)
10/22/2007	50.10 (RW-1) 0.00 (RW-2)	247	< 5.0	97.98%	6.19E-03	504 (RW-1) 0 (RW-2)	1,144.58
11/13/2007	49.28 (RW-1) 0.00 (RW-2)	250	6.0	97.60%	6.16E-03	1019 (RW-1) 0 (RW-2)	1,150.85 (2)
1/28/2008	42.64 (RW-1) 0.00 (RW-2)	207	< 5.0	97.58%	4.42E-03	650 (RW-1) 0 (RW-2)	1,153.72
2/22/2008	44.75 (RW-1) 0.00 (RW-2)	241	< 5.0	97.93%	5.39E-03	473 (RW-1) 0 (RW-2)	1,156.28
3/14/2008	43.71 (RW-1) 0.00 (RW-2)	231	< 5.0	97.83%	5.05E-03	923 (RW-1) 0 (RW-2)	1,160.94 (2)
4/21/2008	40.16 (RW-1) 0.00 (RW-2)	209	< 5.0	97.60%	4.19E-03	480 (RW-1) 0 (RW-2)	1,162.95
5/14/2008	38.81 (RW-1) 0.00 (RW-2)	153	< 5.0	96.72%	2.96E-03	552 (RW-1) 0 (RW-2)	1,164.58
6/19/2008	40.21 (RW-1) 0.00 (RW-2)	205	< 5.0	97.56%	4.12E-03	1136 (RW-1) 0 (RW-2)	1,169.26 (2)
7/14/2008	39.96 (RW-1) 0.00 (RW-2)	308	< 5.0	98.38%	6.16E-03	317 (RW-1) 0 (RW-2)	1,171.21
8/6/2008	36.42 (RW-1) 0.00 (RW-2)	408	< 5.0	98.77%	7.43E-03	215 (RW-1) 0 (RW-2)	1,172.81
9/12/2008	33.56 (RW-1) 70.01 (RW-2)	277 (RW-1) 39.2 (RW-2)	< 5.0	95.36%	4.65E-03 (RW-1) 1.37E-03 (RW-2)	1,228 (RW-1) 838 (RW-2)	1,179.67 (2)
10/22/2008	19.22 (RW-1) 82.51 (RW-2)	91.9	< 5.0	94.56%	4.68E-03	483 (RW-1) 483 (RW-2)	1,181.93
11/21/2008	24.64 (RW-1) 79.18 (RW-2)	97.6	< 5.0	94.88%	5.07E-03	718 (RW-1) 718 (RW-2)	1,185.57
12/16/2008	24.55 (RW-1) 79.22 (RW-2)	80.6	< 5.0	93.80%	4.18E-03	740 (RW-1) 740 (RW-2)	1,188.67 (2)
1/13/2009	25.50 (RW-1) 78.57 (RW-2)	68.0	< 5.0	92.65%	3.54E-03	0.75 (RW-1) 0.75 (RW-2)	1,188.67
2/27/2009	29.98 (RW-1) 87.28 (RW-2)	81.0	< 5.0	93.83%	4.75E-03	157 (RW-1) 157 (RW-2)	1,189.42
4/1/2009	29.79 (RW-1) 86.99 (RW-2)	78.1	< 5.0	93.60%	4.56E-03	754 (RW-1) 754 (RW-2)	1,192.85 (2)
4/24/2009	29.38 (RW-1) 83.02 (RW-2)	89.1	< 5.0	94.39%	5.01E-03	527 (RW-1) 527 (RW-2)	1,195.50
5/14/2009	88.43 (RW-1) 82.80 (RW-2)	330 (RW-1) 15.0 (RW-2)	< 5.0	98.48%	1.46E-02 (RW-1) 6.21E-04 (RW-2)	305 (RW-1) 408 (RW-2)	1,200.20
7/1/2009	86.12 (RW-1) 84.37 (RW-2)	152.8	< 5.0	96.73%	6.58E-03	157 (RW-1) 157 (RW-2)	1,201.24
10/28/2009	90.59 (RW-1) 84.78 (RW-2)	109.6	7.7	92.97%	4.97E-03	621 (RW-1) 621 (RW-2)	1,204.32
11/17/2009	92.34 (RW-1) 84.78 (RW-2)	321.3 (RW-1) 13.9 (RW-2)	< 5.0	98.44%	1.48E-02 (RW-1) 5.9E-04 (RW-2)	440 (RW-1) 27 (RW-2)	1,210.87
12/23/2009	88.69 (RW-1) 0.00 (RW-2)	525.3	< 5.0	99.05%	2.33E-02	865 (RW-1) 0 (RW-2)	1,231.02
3/1/2010	65.06 (RW-1) 66.18 (RW-2)	338.0 (RW-1) 13.0 (RW-2)	< 5.0	98.52%	1.10E-02 (RW-1) 4.3E-04 (RW-2)	721 (RW-1) 136 (RW-2)	1,239.02
3/25/2010	79.42 (RW-1) 79.42 (RW-2)	392.6 (RW-1) 13.0 (RW-2)	< 5.0	98.73%	1.56E-02 (RW-1) 5.2E-04 (RW-2)	638 (RW-1) 523 (RW-2)	1,249.24
4/29/2010	138.00 (RW-1) 66.42 (RW-2)	637.0 (RW-1) 13.0 (RW-2)	< 5.0	99.22%	4.40E-02 (RW-1) 4.3E-04 (RW-2)	464 (RW-1) 275 (RW-2)	1,269.74
5/27/2010	128.63 (RW-1) 0.00 (RW-2)	560.0	< 5.0	99.11%	3.60E-02	671 (RW-1) 0 (RW-2)	1,293.93
6/24/2010	124.45 (RW-1) 0.00 (RW-2)	510.6	< 5.0	99.02%	3.18E-02	822 (RW-1) 0 (RW-2)	1,320.06
7/28/2010	121.10 (RW-1) 0.00 (RW-2)	400.0	< 5.0	98.75%	2.42E-02	649 (RW-1) 0 (RW-2)	1,335.79
8/31/2010	117.77 (RW-1) 0.00 (RW-2)	367.6	< 5.0	98.64%	2.17E-02	815 (RW-1) 0 (RW-2)	1,353.45
9/27/2010	115.31 (RW-1) 0.00 (RW-2)	371.5	< 5.0	98.65%	2.14E-02	734 (RW-1) 0 (RW-2)	1,369.17
10/26/2010	112.29 (RW-1) 0.00 (RW-2)	283.3	< 5.0	98.24%	1.59E-02	613 (RW-1) 0 (RW-2)	1,378.92
11/30/2010	109.58 (RW-1) 0.00 (RW-2)	232.7	< 5.0	97.85%	1.28E-02	831 (RW-1) 0 (RW-2)	1,389.51
12/31/2010 (5)	110.00 (RW-1) 0.00 (RW-2)	232.7	< 5.0	97.85%	1.28E-02	543 (RW-1) 0 (RW-2)	1,396.46

NOTES:

1. Total mass of VOC recovered through December 31, 2004 based on information contained in the Fourth Quarter 2004 Operation and Maintenance Report prepared by Blue Water Environmental Inc.
2. Estimated through the end of the reporting period.
3. Performance results for the reporting period are shaded.
4. COMB-INF result approximated as average of 3/16/07 and 7/12/07 results due to laboratory reporting error.
5. No sampling event completed in December due to large amount of downtime. RW-1 flow rate and COMB-INF result assumed the same as the 11/30/2010 sampling event.

ABBREVIATIONS

gpm: gallons per minute
ug/L: micrograms per liter
lb/hr: pounds per hour

ATTACHMENT D

SITE LOGS

ACTIVE INDUSTRIAL UNIFORM SITE, NYSDEC SITE NO. 1-52-125
SITE ACTIVITIES LOG

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)			
KH 1045	10-4-10 1045	1230		Monitoring		Maintenance
				Sampling		Other (Provide Description)
			X	Alarm Response		

Description:
System down transfer pump #2 under power. Road tank restarted.
Collected reading from the soil pile system.

Pete L	10/5/10 0830	1100		Monitoring		Maintenance
				Sampling	X	Other (Provide Description)
				Alarm Response		

Description:
Clean up

GLEN W.	10/18/10 0900	1415		Monitoring		Maintenance
BRUCE C.	10/18/10 "	1415		Sampling	X	Other (Provide Description)
				Alarm Response		

Description:
Fill in Exc. pit @ Sewer line w/ clean fill + RCA on site
clean up

ACTIVE INDUSTRIAL UNIFORM SITE, NYSDEC SITE NO. 1-52-125
SITE ACTIVITIES LOG

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)			
KS 10/26/10	10/26/10 1015	1545	X	Monitoring	X	Maintenance
			X	Sampling		Other (Provide Description)
				Alarm Response		

Description: monthly site check + System Sampling. Replace leaking Sample port.

KS	10/28/10 1330	1445	X	Monitoring	X	Maintenance
				Sampling		Other (Provide Description)
				Alarm Response		

Description: Replace 2 Sample ports that were leaking - Trouble Shoot SVE System.

KH	11-2-10 0800	1345	X	Monitoring		Maintenance
				Sampling	X	Other (Provide Description)
				Alarm Response		

Description:
Assess Soilpile system. Meet L+J Plumbing + Heating, Collected Reading from SVE system
Replaced 2 sample ports. Heater is on #1 set at 55F Covered Vent on North wall.

ACTIVE INDUSTRIAL UNIFORM SITE, NYSDEC SITE NO. 1-52-125
SITE ACTIVITIES LOG

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)			
PL	11/5/10 1430			Monitoring		Maintenance
				Sampling		Other (Provide Description)
			X	Alarm Response		
Description: Loss of power, Reset UPS, Restarted						
KS	11/30/10 @ 0815		X	Monitoring		Maintenance
			X	Sampling		Other (Provide Description)
				Alarm Response		
Description: monthly site check + system sampling.						
KS	12/2/10 @ 1345			Monitoring		Maintenance
				Sampling	X	Other (Provide Description)
				Alarm Response		
Description: Take photos of outdoor lighting. Turns outdoor lighting switch on.						

ACTIVE INDUSTRIAL UNIFORM SITE, NYSDEC SITE NO. 1-52-125
SITE ACTIVITIES LOG

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)			
KMK	12/9/10 0900	1515		Monitoring		Maintenance
JAB			✓	Sampling		Other (Provide Description)
				Alarm Response		

Description:

MW-(101-106, 5S)

KMK, JAB 12/10/10 0900 1515 SAMPLING · 6W of MW's.

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT			
KH	12-16-10 800	1600		Monitoring		Maintenance
				Sampling		Other (Provide Description)
			X	Alarm Response		

Description:

Tower 1 High level, Need L+I Plumbing to Restart Heater.
L+I onsite 1500

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT			
KS	12/22/10 0800	~~0900~~ 0930		Monitoring		Maintenance
				Sampling	X	Other (Provide Description)
				Alarm Response		

Description: ON ARRIVAL - BLACK, liquid Carbon Substance discharge FROM AST 2 "T" Ice resulting in Blockage of Effluent CARBON Sample port. NO site check conducted @ this time. No Samples Collected @ this time. No Heat in Building - ENTRANCE GATE BROKEN. PUMPED WATER OUT of RO DRUM above.

ACTIVE INDUSTRIAL UNIFORM SITE, NYSDEC SITE NO. 1-52-125
SITE ACTIVITIES LOG

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)			
DG	12/23/10 0915	1100		Monitoring	X	Maintenance
				Sampling		Other (Provide Description)
				Alarm Response		

Description: Restart Heater, ASSESS KO Drum, Drain, system - Towers + influent + effluent lines.

PB/DG	12/29/10 0800	1100		Monitoring		Maintenance
				Sampling	X	Other (Provide Description)
				Alarm Response		

Description: Snow removal.

KS/KH	1/5/11 0800	1500		Monitoring		Maintenance
				Sampling	X	Other (Provide Description)
				Alarm Response		

Description: Trouble shoot problems w/ carbon vessel. Drain system + Drain water from carbon vessels.

ACTIVE INDUSTRIAL UNIFORM SITE, NYSDEC SITE No. 1-52-125
SYSTEM MONITORING LOG

DATE	8/31/10 KS	9/27/10 KS	10/26/10 KS	11/30/10 KS	
TIME	0815	0845	1015	0815	
RW-1					
Flow Rate (gpm)	117.77	115.31	112.29 @ 1048	109.58	
Total Flow (gal)	25966 3776 @ 1015	26415 4544 @ 0910	26887 2320	27440 9984 @ 0856	
Depth to Water (feet)	13.17	13.12	13.15	13.14	
Water Column Above Pump (feet)	—	—	—	—	
Pump Pressure (psi)	17 psi	17	17 psi	17 psi	
RW-2					
Flow Rate (gpm)	—	—			
Total Flow (gal)	—	—			
Bicycle Pump Pressure Reading (psi)	—	—			
Water Column Above Pump (ft H_2O)(psi x 2.31)	—	—			
Pump Pressure (psi)	—	—	15		
Air Stripping Tower (ST-1)					
Stripper Inlet (Combined Influent) Pressure (psi)	13	13	12.5	13	
Transfer Pump (P-1) Outlet Pressure (psi)	22	22	22	22	
Sump Level (inches)	20	20	20	20	
Discharge Speed (%)	46.6	46.3	45.8 %	45.6 %	
Air Stripping Tower (ST-2)					
Stripper Inlet Pressure (psi)	22	22	22	22	
Transfer Pump (P-2) Outlet Pressure (psi)	22	21	19.5	19	
Sump Level (inches)	21	20	21	21	
Discharge Speed (%)	0	0.0	57.0 %	56.4	
Air Stripper Blower (B-1)					
Moisture Knockout Influent (ST-2 Effluent) Vacuum (inches H_2O)	4.5	3.5	4.5	4	
Blower Influent Vacuum (inches H_20)	—	—	—	—	
Blower Effluent Pressure (inches H_2O)	7.2	7.2	7.9	9.2	
Blower Effluent Velocity (feet/minute)	3335	3355	3390	3600	
Blower Effluent Temperature (°F)	83.5	76.8	76.7	73.3	
Blower Effluent Flow Rate (ft^3/minute)	290	159.5	1190	1270	
Treated Water Discharge					
Flow Rate (gpm)	120.19	115.00	112.20	110.72	
Total Flow (gal)	38712 7584 @ 1023	39171 5840 @ 0910	39647 5584 @ 1109	40207 7924 @ 0852	

ACTIVE INDUSTRIAL UNIFORM SITE, NYSDEC SITE No. 1-52-125
SYSTEM MONITORING LOG

DATE	8/31/10 KS	9/27/10 KS	10/28/10 KS	11/30/10 KS	
TIME	0815	0845	1015	0815	
Vapor Phase Carbon					
Lead vessel pressure (inchesH_2O)	7	6.5	7.5	8.5	
Lead vessel temperature (°F)	89°	72°	72°	68°	
Lag vessel pressure (inches H_2O)	3.5	3.5	3.5	4	
Lag vessel temperature (°F)	80°	72°	71°	65°	
Catridge Filter System					
Inlet Pressure (psi)					
Outlet Pressure (psi)					
Pressure Differential (psi)					
Process Sampling Performed					
(Monthly) Combined Influent (VOCs, TAL Inorganics, pH)	@ 1041	@ 1022	@ 1238	@ 1051	
(Monthly) Combined Effluent (VOCs)	@ 1048	@ 1035	@ 1246	@ 1100	
(Monthly) Influent Vapor (VOCs)	@ 1107	@ 1116	@ 1331	@ 1112	
(Monthly) Mid-fluent Vapor (VOCs)	@ 1114	@ 1127	@ 1342	@ 1121	
(Monthly) Effluent Vapor (VOCs)	@ 1123	@ 1137	@ 1350	@ 1135	
(Quarterly) Influent RW-1 (VOCs, TAL Inorganics, pH)		@ 1048			
(Quarterly) Influent RW-2 (VOCs, TAL Inorganics, pH) OFF		@ —			
(Quarterly) Mid-fluent (VOCs)		@ 1100			
(Quarterly) Effluent (TAL Inorgaincs)		@ 1035			
(Semi-Annual) Effluent (pH, COD, TSS TDS)					
(Semi-Annual) Effluent (Field Test - DO, Conductivity, turbidity, chlorine)					

COMMENTS

8/31/10 System running normal on Arrival & departure

9/27/10 System running normal on arrival & Departure.

ACTIVE INDUSTRIAL UNIFORM SITE, NYSDEC SITE NO. 1-52-125
SYSTEM OPERATIONS AND DOWNTIME SHEET

SHUT-OFF DATE/TIME	RESTART DATE/TIME	CAUSE	ACTIONS TAKEN	TOTALIZER READING
4/12/10 1000	4/21/10 @ 1230	video tape	cut Effluent line tock for block.	RW-1 235405168 RW-2 131676352
4/29/10 1300	4/29/10 1320	KOD	Empty	RW1 237634048
— —	6/10/10 0900	HH/AS#1	Pumpdown / restart	RW1 245434208
7/15/10 @ 915	7-15-10 1400		Painting PVC piping	RW1 251636528
7-16-10 @ 825	7-15-10 1320		" "	RW1 251771616
10-4-10 @ 0940	10-4-10 @ 1131	Transfer pump fault	Reset and start system	RW1 265272208
10/26/10 @ 1423	10-26-10 1545	Replace parts		268896224
10/28/10 @ 1244	10/28/10 1400	" "		269199840
11/5/10 @ 1332	11/5/10 14.48	Loss of Power	Reset VFD's / restart	270469600
12-16-10 - 536	12-16-10 1210	High level tower / Ice	on level switch	276872890
12/23/10 - [illegible]	12/23/10 0930	High level AST	Respond to Alarm Received @ [illegible] shut down & [illegible] Sys	RW1 - 1277889568 RW2 1132338216

ATTACHMENT E

ANALYTICAL RESULTS

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
RESULTS OF SYSTEM COMBINED INFLUENT ANALYSIS - VOLATILE ORGANIC COMPOUNDS (VOCs)

SAMPLE ID	COMB INF	COMB INF	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L)
SAMPLE TYPE	WATER	WATER	
DATE OF	10/26/2010	11/30/2010	
COLLECTED BY	D&B	D&B	
UNITS	(ug/L)	(ug/L)	
VOCs			
Dichlorodifluoromethane	U	U	5 GV
Chloromethane	U	U	--
Vinyl chloride	1.8 J	0.72 J	2 ST
Bromomethane	U	U	5 ST
Chloroethane	2.5 J	U	5 ST
Trichlorofluoromethane	U	U	5 ST
1,1-Dichloroethene	U	U	5 ST
Methylene Chloride	U	U	5 ST
trans-1,2-Dichloroethene	U	U	5 ST
1,1-Dichloroethane	U	U	5 ST
Chloroform	U	U	7 ST
1,2-Dichloroethane	U	U	0.6 ST
1,1,1-Trichloroethane	U	U	5 ST
Carbon tetrachloride	U	U	5 ST
Trichloroethene	**49**	**42**	5 ST
1,2-Dichloropropane	U	U	1 ST
Bromodichloromethane	U	U	5 ST
2-Chloroethyl vinyl ether	U	U	5 ST
cis-1,3-Dichloropropene	U	U	0.4 ST
trans-1,3-Dichloropropene	U	U	0.4 ST
1,1,2-Trichloroethane	U	U	1 ST
Dibromochloromethane	U	U	50 GV
Bromoform	U	U	50 GV
Tetrachloroethene	**230**	**190**	5 ST
Chlorobenzene	U	U	5 ST
1,1,2,2-Tetrachloroethane	U	U	5 ST
1,3-Dichlorobenzene	U	U	3 ST
1,4-Dichlorobenzene	U	U	3 ST
1,2-Dichlorobenzene	U	U	3 ST
Total VOCs	283.3	232.72	

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

ABBREVIATIONS:

ug/L = Micrograms per liter
--: Not established
ST: Standard Value
GV: Guidance Value

QUALIFIERS:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
B: Compound found in a blank as well as the sample

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
RESULTS OF SYSTEM COMBINED INFLUENT ANALYSIS - INORGANIC COMPOUNDS AND GENERAL CHEMISTRY

SAMPLE ID	COMB INF	COMB INF	
SAMPLE TYPE	WATER	WATER	
DATE OF COLLECTION	10/26/2010	11/30/2010	NYSDEC CLASS GA
COLLECTED BY	D&B	D&B	GROUNDWATER STANDARDS
UNITS	(ug/L)	(ug/L)	(ug/L)
INORGANIC COMPOUNDS			
Aluminum	U	11.4 J	--
Antimony	U	U	3
Arsenic	U	U	25
Barium	16.2	16.3	1,000
Beryllium	U	U	--
Cadmium	U	U	5
Calcium	20,200	21,200	--
Chromium	U	U	--
Cobalt	0.68 J	U	--
Copper	26.2	3.1 J	200
Iron	181	**1,360**	300
Lead	U	U	25
Magnesium	3,280	3,370	--
Manganese	**974**	**986**	300
Mercury	U	U	0.7
Nickel	U	U	100
Potassium	2,700	2,740	--
Selenium	U	U	10
Silver	0.29 J	U	50
Sodium	**22,200**	**23,100**	20,000
Thallium	U	U	--
Vanadium	U	U	--
Zinc	227	U	--
Iron and Manganese	**1,155**	**2,346**	500
GENERAL CHEMISTRY			
pH (S.U.)	**6.31**	**6.11**	6.5 - 8.5

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standards

QUALIFIERS:

U: Compound analyzed for but not detected.
J: Compound found at a concentration below CRDL, value estimated

ABBREVIATIONS:

ug/L: Micrograms per liter
--: Not established
S.U.: Standard units

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
RESULTS OF SYSTEM EFFLUENT ANALYSIS - VOLATILE ORGANIC COMPOUNDS (VOCs)

SAMPLE ID	COMB EFF	COMB EFF	NYSDEC Site Specific Effluent Limitation
SAMPLE TYPE	WATER	WATER	
DATE OF	10/26/2010	11/30/2010	
COLLECTED BY	D&B	D&B	
UNITS	(ug/L)	(ug/L)	
VOCs			(ug/L)
Dichlorodifluoromethane	U	U	NL
Chloromethane	U	U	NL
Vinyl Chloride	U	U	10
Bromomethane	U	U	NL
Chloroethane	U	U	NL
Trichlorofluoromethane	U	U	NL
1,1 Dichloroethene	U	U	NL
Methylene Chloride	U	U	NL
trans-1,2-Dichloroethene	U	U	10*
1,1 Dichloroethane	U	U	NL
Chloroform	U	U	NL
1,2 Dichloroethane	U	U	NL
1,1,1 Trichloroethane	U	U	5
Carbon Tetrachloride	U	U	NL
Trichloroethlyene	U	U	10
1,2 Dichloropropane	U	U	NL
Bromodichloromethane	U	U	NL
2-Chloroethyl Vinyl Ether	U	U	NL
c 1,3 Dichloropropene	U	U	NL
t 1,3 Dichloropropene	U	U	NL
1,1,2 Trichloroethane	U	U	NL
Dibromochloromethane	U	U	NL
Bromoform	U	U	NL
Tetrachloroethene	U	U	4
Chlorobenzene	U	U	NL
1,1,2,2 Tetrachloroethane	U	U	NL
1,3 Dichlorobenzene	U	U	NL
1,4 Dichlorobenzene	U	U	NL
1,2 Dichlorobenzene	U	U	NL
Total VOCs	0	0	

NOTES:

Concentration exceeds NYSDEC Site Specific Effluent Limitation

* - Effluent limitation for 1,2 Dichloroethene (Total)

** - Effluent limit for xylene-o= 5 ug/l, xylene -m&p = 10 ug/l

ABBREVIATIONS

ug/L = Micrograms per liter

NL - No limit specified

QUALIFIERS:

U: Compound analyzed for but not detected

J: Compound found at a concentration below CRDL, value estimated

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
RESULTS OF ANALYSIS OF VAPOR PHASE CARBON VESSEL (VPCV) INFLUENT
- VOLATILE ORGANIC COMPOUNDS (VOCs)

SAMPLE ID	VPCV-INF		VPCV-INF		NYSDEC Permit Equivalency Limit (lbs/hr)
SAMPLE TYPE	AIR		AIR		
DATE OF COLLECTION	10/26/2010		11/30/2010		
BLOWER VELOCITY (FEET/MIN)	3,390		3,600		
BLOWER FLOW RATE (FT^3/MIN)	1,075		1,142		
	Concentration	Loading Rate	Concentration	Loading Rate	
UNITS	(ug/m^3)	(lb/hr)	(ug/m^3)	(lb/hr)	
VOCs					
t 1,3 Dichloropropene	U		U		
Freon 114	U		U		
Acetone	U		U		
Ethanol	34 J*	1.4E-04	U		
Ethyl Acetate	U		U		
Ethylbenzene	U		U		
Trichlorofluoromethane	U		U		
Heptane	U		U		
Hexachloro-,1,3-Butadiene	U		U		
Hexane	U		U		
2-Hexanone	U		U		
Isopropyl Alcohol	U		U		
Methylene Chloride	U		U		
Benzene	U		U		
Benzyl Chloride	U		U		
Styrene	U		U		
1,1,2,2 Tetrachloroethane	U		U		
Tetrachloroethene	980 D	4.0E-03	3,400 D	**1.5E-02**	7.0E-03
Tetrahydrofuran	U		U		
Toluene	3.1	1.2E-05	U		
1,2,4 Trichlorobenzene	U		U		
1,1,1 Trichloroethane	U		U		1.0E-03
1,1,2 Trichloroethane	U		U		
Trichloroethlyene	300	1.2E-03	470	2.0E-03	6.0E-03
1,2,4 Trimethylbenzene	U		U		
1,3,5 Trimethylbenzene	U		U		
Vinyl Acetate	U		U		
Vinyl Chloride	7.4	3.0E-05	9.9	4.2E-05	1.4E-02
o-Xylene	U		U		1.0E-03
Methyl tert-butyl ether	U		U		
1,2,2 Trifluoro-1,1,2 Tricloroethane	U		U		
m + p Xylene	U		U		1.0E-03
Bromodichloromethane	U		U		
1,2 Dibromoethane	U		U		
Methyl Ethyl Ketone	U		U		
4-Methyl-2-Pentanone	U		U		
Bromoform	U		U		
Bromomethane	U		U		
1,3 Butadiene	U		U		
4-Ethyltoluene	U		U		
Carbon Disulfide	U		U		
Carbon Tetrachloride	U		U		
Chlorobenzene	U		U		
Dibromochloromethane	U		U		
Chloroethane	U		U		
Chloroform	U		U		
Chloromethane	U		U		
Propene	U		U		
Cyclohexane	U		U		
1,2 Dichlorobenzene	U		U		
1,3 Dichlorobenzene	U		U		
1,4 Dichlorobenzene	U		U		
Dichlorodifluoromethane	U		U		
1,1 Dichloroethane	U		U		
1,2 Dichloroethane	U		U		
1,1 Dichloroethene	U		U		
cis-1,2-Dichloroethene	650 D		1,300 D		
trans-1,2-Dichloroethene	4.5		6.6		
1,2-Dichloroethene (total)	654.5	2.6E-03	1306.6	**5.6E-03**	3.0E-03
1,2 Dichloropropane	U		U		
c 1,3 Dichloropropene	U		U		
Total BTEX	U		U		
Total VOCs	1,979	8.0E-03	5,187	2.2E-02	

ABBREVIATIONS:
ug/m^3 - Micrograms per cubic meter

QUALIFIERS:
U: Compound analyzed for but not detected.
J: Analyte detected at or below quantitation limits
D: Result taken from reanalysis at a secondary dilution
J*: Analyte qualified as estimated based on laboratory calibration

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
RESULTS OF ANALYSIS OF VAPOR PHASE CARBON VESSEL (VPCV) MIDFLUENT
- VOLATILE ORGANIC COMPOUNDS (VOCs)

SAMPLE ID	VPCV-MID		VPCV-MID		NYSDEC Permit Equivalency Limit (lbs/hr)
SAMPLE TYPE	AIR		AIR		
DATE OF COLLECTION	10/26/2010		11/30/2010		
BLOWER VELOCITY (FEET/MIN)	3,390		3,600		
BLOWER FLOW RATE (FT^3/MIN)	1,075		1,142		
	Concentration	Emission Rate	Concentration	Emission Rate	
UNITS	(ug/m^3)	(lb/hr)	(ug/m^3)	(lb/hr)	
VOCs					
t 1,3 Dichloropropene	U		U		
Freon 114	U		U		
Acetone	U		U		
Ethanol	57 J*	2.30E-04	U		
Ethyl Acetate	U		U		
Ethylbenzene	U		U		
Trichlorofluoromethane	U		U		
Heptane	U		U		
Hexachloro-,1,3-Butadiene	U		U		
Hexane	U		U		
2-Hexanone	U		U		
Isopropyl Alcohol	U		U		
Methylene Chloride	U		U		
Benzene	U		U		
Benzyl Chloride	U		U		
Styrene	U		U		
1,1,2,2 Tetrachloroethane	U		U		
Tetrachloroethene	320	1.29E-03	1,500	6.42E-03	7.0E-03
Tetrahydrofuran	33	1.33E-04	U		
Toluene	U		U		
1,2,4 Trichlorobenzene	U		U		
1,1,1 Trichloroethane	14	5.64E-05	U		1.0E-03
1,1,2 Trichloroethane	U		U		
Trichloroethlyene	1,700	**6.85E-03**	2,400 D	**1.03E-02**	6.0E-03
1,2,4 Trimethylbenzene	U		U		
1,3,5 Trimethylbenzene	U		U		
Vinyl Acetate	U		U		
Vinyl Chloride	16	6.45E-05	12	5.1E-05	1.4E-02
o-Xylene	U		U		1.0E-03
Methyl tert-butyl ether	31 U	1.25E-04	33	1.4E-04	
1,2,2 Trifluoro-1,1,2 Tricloroethane	U		U		
m + p Xylene	U		U		1.0E-03
Bromodichloromethane	U		U		
1,2 Dibromoethane	U		U		
Methyl Ethyl Ketone	U		U		
4-Methyl-2-Pentanone	U		U		
Bromoform	U		U		
Bromomethane	U		U		
1,3 Butadiene	U		U		
4-Ethyltoluene	U		U		
Carbon Disulfide	U		U		
Carbon Tetrachloride	U		U		
Chlorobenzene	U		U		
Dibromochloromethane	U		U		
Chloroethane	U		U		
Chloroform	U		U		
Chloromethane	U		U		
Propene	U		U		
Cyclohexane	U		U		
1,2 Dichlorobenzene	U		U		
1,3 Dichlorobenzene	U		U		
1,4 Dichlorobenzene	U		U		
Dichlorodifluoromethane	U		U		
1,1 Dichloroethane	U		U		
1,2 Dichloroethane	U		U		
1,1 Dichloroethene	U		U		
cis-1,2-Dichloroethene	2,500 D		1,400		
trans-1,2-Dichloroethene	12		8.5		
1,2-Dichloroethene (total)	2,512	**1.0E-02**	1,409	**6.0E-03**	3.0E-03
1,2 Dichloropropane	U		U		
c 1,3 Dichloropropene	U		U		
Total BTEX	U		U		
Total VOCs	4,683	1.9E-02	5,354	2.3E-02	

ABBREVIATIONS:
ug/m^3 - Micrograms per cubic meter

QUALIFIERS:
U: Compound analyzed for but not detected.
J: Analyte detected at or below quantitation limits
D: Result taken from reanalysis at a secondary dilution
J*: Analyte qualified as estimated based on laboratory calibration

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
RESULTS OF ANALYSIS OF VAPOR PHASE CARBON VESSEL (VPCV) EFFLUENT
- VOLATILE ORGANIC COMPOUNDS (VOCs)

SAMPLE ID	VPCV-EFF		VPCV-EFF		NYSDEC Permit Equivalency Limit (lbs/hr)
SAMPLE TYPE	AIR		AIR		
DATE OF COLLECTION	10/26/2010		11/30/2010		
BLOWER VELOCITY (FEET/MIN)	3,390		3,600		
BLOWER FLOW RATE (FT^3/MIN)	1,075		1,142		
	Concentration	Emission Rate	Concentration	Emission Rate	
UNITS	(ug/m^3)	(lb/hr)	(ug/m^3)	(lb/hr)	
VOCs					
t 1,3 Dichloropropene	U		U		
Freon 114	U		U		
Acetone	U		U		
Ethanol	53 J*	2.1E-04	U		
Ethyl Acetate	U		U		
Ethylbenzene	U		U		
Trichlorofluoromethane	U		U		
Heptane	U		U		
Hexachloro-,1,3-Butadiene	U		U		
Hexane	U		U		
2-Hexanone	U		U		
Isopropyl Alcohol	26	1.0E-04	U		
Methylene Chloride	U		U		
Benzene	U		U		
Benzyl Chloride	U		U		
Styrene	U		U		
1,1,2,2 Tetrachloroethane	U		U		
Tetrachloroethene	17	6.9E-05	230	9.8E-04	7.0E-03
Tetrahydrofuran	12	4.8E-05	U		
Toluene	U		U		
1,2,4 Trichlorobenzene	U		U		
1,1,1 Trichloroethane	18	7.3E-05	U		1.0E-03
1,1,2 Trichloroethane	U		U		
Trichloroethlyene	700	2.8E-03	2,800	**1.2E-02**	6.0E-03
1,2,4 Trimethylbenzene	U		U		
1,3,5 Trimethylbenzene	U		U		
Vinyl Acetate	U		U		
Vinyl Chloride	11	4.4E-05	14	6.0E-05	1.4E-02
o-Xylene	U		U		1.0E-03
Methyl tert-butyl ether	25	1.0E-04	72	3.1E-04	
1,2,2 Trifluoro-1,1,2 Tricloroethane	U		U		
m + p Xylene	U		U		1.0E-03
Bromodichloromethane	U		U		
1,2 Dibromoethane	U		U		
Methyl Ethyl Ketone	U		U		
4-Methyl-2-Pentanone	U		U		
Bromoform	U		U		
Bromomethane	U		U		
1,3 Butadiene	U		U		
4-Ethyltoluene	U		U		
Carbon Disulfide	U		U		
Carbon Tetrachloride	U		U		
Chlorobenzene	U		U		
Dibromochloromethane	U		U		
Chloroethane	U		U		
Chloroform	U		U		
Chloromethane	U		U		
Propene	U		U		
Cyclohexane	U		U		
1,2 Dichlorobenzene	U		U		
1,3 Dichlorobenzene	U		U		
1,4 Dichlorobenzene	U		U		
Dichlorodifluoromethane	U		U		
1,1 Dichloroethane	3.6	1.5E-05	U		
1,2 Dichloroethane	U		U		
1,1 Dichloroethene	U		U		
cis-1,2-Dichloroethene	1,400 D		1,900		
trans-1,2-Dichloroethene	11		U		
1,2-Dichloroethene (total)	1,411	**5.7E-03**	1,900	**8.1E-03**	3.0E-03
1,2 Dichloropropane	U		U		
c 1,3 Dichloropropene	U		U		
Total BTEX	U		U		
Total VOCs	2,277	9.2E-03	5,016	2.1E-02	

ABBREVIATIONS:
ug/m^3 - Micrograms per cubic meter

QUALIFIERS:
U: Compound analyzed for but not detected.
J: Analyte detected at or below quantitation limits
D: Result taken from reanalysis at a secondary dilution
J*: Analyte qualified as estimated based on laboratory calibration

ATTACHMENT F

DATA VALIDATION CHECKLISTS

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial aka Lindenhurst
Project Number:	2578-04
Sample Date(s):	October 26, 2010
Matrix/Number of Samples:	Water/ 2(Combined and Effluent) Trip Blank/ 0
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT
Analyses:	Volatile Organic Compounds (VOCs): USEPA method 624 Metals:by USEPA SW 846 method 6010B and mercury by USEPA SW 846 method 7470A
Laboratory Report No:	220-13840 Date:11/19/2010

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCs - volatile organic compounds %D - percent difference RRF - relative response factor
%R - percent recovery %RSD - percent relative standard deviation RPD - relative percent difference

Comments:
Performance was acceptable.

INORGANIC ANALYSES

METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3 Laboratory control sample %R					X
4. Matrix Spike sample %R					X
5. Duplicate %RPD					X
6. Field duplicates RPD					X

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/2/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial
Project Number:	2578-04
Sample Date(s):	October 26, 2010
Matrix/Number of Samples:	Air/ 3
Analyzing Laboratory:	TestAmerica Laboratories, Knoxville, TN
Analyses:	Volatile Organic Compounds (VOCs): TO15
Laboratory Report No:	H0K020477 Date:11/09/2010

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Method blanks		X		X	
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory Control Sample (LCS) %R		X		X	
7. Surrogate spike recoveries		X		X	
8. Field duplicates RPD					X

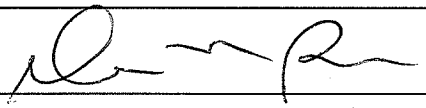
VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
Performance was acceptable with the following exception:

The laboratory used a one-point calibration for ethanol and ethanol was qualified as estimated (J/UJ) in all samples.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis (ppb(v/v)-ug/m3)	Diluted Analysis (ppb(v/v)-ug/m3)	Reported Analysis (ppb(v/v)-ug/m3)
INFLUENT	Tetrachloroethene	170-1200 E	140-980 D	140-980 D
	Cis-1,2-dichloroethene	180-700 E	160-650 D	160-650 D
EFFLUENT	Cis-1,2-dichloroethene	420-1700 E	350-1400 D	350-1400 D
MID-FLUENT	Cis-1,2-dichloroethene	410-1600 E	620-2500 D	620-2500 D

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/2/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial aka Lindenhurst
Project Number:	2578-04
Sample Date(s):	November 30, 2010
Matrix/Number of Samples:	Water/ 2(Combined and Effluent) Trip Blank/ 0
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT
Analyses:	Volatile Organic Compounds (VOCs): USEPA method 624 Metals:by USEPA SW 846 method 6010B and mercury by USEPA SW 846 method 7470A
Laboratory Report No:	220-14179 Date:12/17/2010

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCs - volatile organic compounds %D - percent difference RRF - relative response factor
%R - percent recovery %RSD - percent relative standard deviation RPD - relative percent difference

Comments:
Performance was acceptable.

INORGANIC ANALYSES

METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3 Laboratory control sample %R					X
4. Matrix Spike sample %R					X
5. Duplicate %RPD					X
6. Field duplicates RPD					X

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/2/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial
Project Number:	2578-04
Sample Date(s):	November 30, 2010
Matrix/Number of Samples:	Air/ 3
Analyzing Laboratory:	TestAmerica Laboratories, Knoxville, TN
Analyses:	Volatile Organic Compounds (VOCs): TO15
Laboratory Report No:	H0L030559 Date:12/14/2010

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Method blanks		X		X	
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory Control Sample (LCS) %R		X		X	
7. Surrogate spike recoveries		X		X	
8. Field duplicates RPD					X

VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
Performance was acceptable with the following exception:

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis (ppb(v/v)-ug/m3)	Diluted Analysis (ppb(v/v)-ug/m3)	Reported Analysis (ppb(v/v)-ug/m3)
INFLUENT	Tetrachloroethene	350-2400 E	500-3400 D	500-3400 D
	Cis-1,2-dichloroethene	260-1000 E	320-1300 D	320-1300 D
MID FLUENT	Trichloroethene	490-2600 E	440-2400 D	440-2400 D

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/2/2011
VALIDATION PERFORMED BY SIGNATURE: