Dvirka and Bartilucci
CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York 11797-2015
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045
e-mail: findingsolutions@db-eng.com

December 9, 2009

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. 18
April 1, 2009 through June 30, 2009
D&B No. 2578

Dear Mr. Long:

The purpose of this letter is to summarize the performance of the groundwater extraction and treatment system for the Active Industrial Uniform Site, located at 63 West Montauk Highway in the Village of Lindenhurst, Suffolk County, New York (see Attachment A, Figure 1), for the period of April 1, 2009 through June 30, 2009. Presented below is a summary of system operations during the quarter, as well as the results of sampling performed in accordance with the work plan for the referenced work assignment.

Groundwater Extraction and Treatment System Operations

During this reporting period, on-site extraction well RW-1 operated at an average rate of approximately 71 gallons per minute (gpm) and off-site extraction well RW-2 operated at an average rate of approximately 82 gpm. The increased performance of RW-1 as compared to the previous quarter (28.4 gpm) was due to well rehabilitation activities completed on extraction well RW-1 on April 27, 2009 through May 4, 2009 by Subsurface Technologies using the proprietary Aqua Freed process. The well rehabilitation activities began with the collection of an initial depth to water level measurement and specific capacitance test. The extraction well pump, motor and riser piping were then removed from the well and a video of the inside of the well was completed to document the conditions of the extraction well casing and screen prior to the initiation of the rehabilitation treatment. The Aqua Freed process was then initiated by injecting gaseous carbon dioxide, followed by liquid carbon dioxide, into the extraction well casing. Finally, the extraction well was mechanically redeveloped using both surging and airlift methods.

Following the well rehabilitation, a post-treatment video was completed to document the conditions of the extraction well casing and screen. A new, "as-is" replacement extraction well pump and motor were installed in extraction well RW-1 by Systematic Technologies. A final specific capacitance test was also completed to record post-treatment well yield conditions. A photographic log of the completed redevelopment activities is included in Attachment B. The pretreatment and post-treatment specific capacitance test results are provided in Attachment C. Extraction well RW-1 was then set at an extraction rate of approximately 90 gallons per minutes, which is within the required flow rate range of 80 to 100 gpm, as specified in the Active Industrial Uniform Site Contract Documents.

All development water was contained on-site in order to allow for the suspended solids to settle out. Subsequent to settling, the water was then introduced into the groundwater extraction and treatment system for treatment and the sediment was transferred to 55-gallon drums, sampled for waste characterization purposes and properly transported and disposed of at Veolia ES Technical Solutions, LLC, the approved waste disposal facility. Waste characterization data is provided in Attachment D. A copy of the waste manifest is provided in Attachment E.

During this period, approximately 18,847,469 gallons of treated groundwater was discharged to Little Neck Creek. Note that the groundwater extraction system was inoperative for approximately 166 hours, due to five system alarm conditions (high level air stripper #1 and high level building sump), two non-routine maintenance events (Aqua Freed application and repair of the effluent filter). Note that a leak was noted in one of several rust spots on the effluent filter, which caused the high-level building sump alarm condition. This leak was repaired during a non-routine maintenance event. However, in order to ensure this problem does not occur again, it is recommended to replace the effluent filter. In addition, one routine maintenance event (blower maintenance) occurred during this reporting period. A summary of system downtime is provided in Attachment F. Copies of system maintenance reports, prepared by Systematic Technologies, Inc., are provided in Attachment G.

Groundwater Extraction and Treatment System Sampling (Aqueous)

Monthly groundwater samples were collected from the combined influent sample tap (COMB-INF) and from the treatment system discharge sample tap (COMB-EFF) on April 24, May 14 and June 24, 2009. Each sample was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260. The samples collected from the combined influent sample tap were also analyzed for Target Analyte List (TAL) metals by NYSDEC 6/00 Analytical Services Protocol (ASP) Method ILMO5.4 and for pH by Method SM 4500.

Quarterly groundwater samples were collected from both extraction well influent sample taps (RW-1 and RW-2), the sample tap located between the two air strippers (AS-MID) and from the treatment system effluent sample tap on June 24, 2009. Each sample was analyzed for VOCs by USEPA Method 8260. The treatment system effluent sample was also analyzed for TAL metals by NYSDEC 6/00 ASP Method ILMO5.4.

Semiannual groundwater samples were collected from the treatment system discharge sample tap on June 24, 2009. The samples were analyzed for pH by Method SM 4500, chemical oxygen demand (COD) by Method SM 5220D, total suspended solids (TSS) by Method SM 2540D and total dissolved solids (TDS) by Method SM 2540C. In accordance with discharge requirements, one grab sample was also collected from the treatment system discharge sample tap and field analyzed for pH, temperature, turbidity, conductivity, dissolved oxygen and total chlorine.

All sample results are summarized in Attachment H.

Based on the influent groundwater sample results collected from RW-1 and RW-2, RW-1 exhibited concentrations of cis-1,2-dichloroethene (cis-1,2-DCE) (120 ug/l), tetrachloroethene (PCE) (130 ug/l) and trichloroethene (TCE) (560 ug/l), above their respective Class GA standards of 5.0 ug/l, while RW-2 did not exhibit concentrations of contaminants above Class GA standards or guidance values. Note that RW-2 exhibited detections of 1,1-dichloroethane (1.0 ug/l), methyl-tert butyl ether (MTBE) (7.3 ug/l), cis-1,2-DCE (3.6 ug/l) and PCE (2.8 ug/l) below their respective Class GA groundwater standard or guidance value of 5.0 ug/l, 10.0 ug/l, 5.0 ug/l and 5.0 ug/l. When compared to the Quarter 17 sampling results from April 1, 2009, the RW-1 influent total VOCs decreased from 330 ug/l to 306 ug/l and the RW-2 influent total VOCs decreased from 20.0 ug/l to 14.7 ug/l. Manganese, sodium and pH were also detected above their respective NYSDEC Class GA groundwater standard in both extraction wells and iron was detected above its respective Class GA groundwater standard in RW-2.

Based on the influent groundwater sample results, COMB-INF total VOCs ranged from 89.1 ug/l detected on April 24, 2009 to a maximum concentration of 153 ug/l detected on June 24, 2009, with cis-1,2-DCE, TCE and PCE concentrations detected above their respective NYSDEC Class GA groundwater standard of 5.0 ug/l during all sampling events. In addition, MTBE was detected in all COMB-INF samples collected this reporting period; however, MTBE was detected at concentrations below its respective NYSDEC Class GA groundwater guidance value of 10.0 ug/l in all COMB-INF samples. COMB-INF iron, manganese, sodium and pH were also detected above their respective NYSDEC Class GA groundwater standards in all COMB-INF samples, with the exception of iron on May 14, 2009.

The sample results from the air stripper midfluent exhibited concentrations of cis-1,2-DCE and MTBE of 3.1 ug/l and 3.2 ug/l, below their NYSDEC Class GA groundwater standards of 5.0 ug/l and 10.0 ug/l, respectively. Based on the results, the first air stripper is effectively removing the majority of the site-specific VOCs from the influent groundwater and effectively removing MTBE at a rate of approximately 85%.

The sample results from the air stripper discharge are compared to the NYSDEC site-specific effluent limits. Based on the effluent sample results, COMB-EFF VOCs, metals, TSS and pH were detected below NYSDEC site-specific effluent limits. Note that COMB-EFF samples did exhibit concentrations of chloroform (1.6 ug/l), detected on April 24, 2009 and MTBE (1.6 ug/l and 1.5 ug/l), detected on April 14 and June 24, 2009, respectively. However, the concentrations were all well below their respective

Class A surface water standards of 7.0 ug/l and 10.0 ug/l. Note that a site-specific effluent limit is not in place for either contaminant.

Approximately 8.38 pounds of total VOCs were removed from the extracted groundwater during this reporting period and approximately 1,201 pounds of total VOCs have been removed since start-up of the system. The average total VOC removal efficiency for this quarter was approximately 96 percent. A summary of the extraction and treatment system performance results for this period is provided in Attachment I.

Groundwater Extraction and Treatment System Sampling (Air)

Air samples were collected from the vapor phase carbon adsorption system influent sample tap (VPCV-INF), the sample tap located between the carbon vessels (VPCV-MID) and the effluent sample tap (VPCV-EFF) on April 24, May 14 and June 24, 2009.

The results of the vapor phase carbon adsorption system discharge samples (VPCV-EFF) are compared to the NYSDEC site-specific effluent limits. Sample results are provided in Attachment H. All air discharge results were below NYSDEC site-specific effluent limits for the period.

Groundwater Quality Data

The network of groundwater monitoring wells was sampled to determine groundwater quality at, and in the vicinity of, the site. Samples were collected from eight on-site monitoring wells (MW-101 through MW-108) and three off-site monitoring wells (MW-109, MW-111 and MW-2S) on June 23, 2009. Note that monitoring well MW-110 (originally proposed to be sampled as part of D&B's work assignment) could not be located and has reportedly been paved over since D&B began groundwater sampling activities in 2005. As a result, this monitoring well was not sampled. Note that monitoring well MW-2S was not originally sampled as part of D&B's work assignment but was initially sampled in November 2007 as part of a Vapor Intrusion Investigation completed by the NYSDEC and will now continue to be sampled as part of D&B's work assignment as per the request of the NYSDEC. The locations of the on-site monitoring wells are shown in Figure 2, provided in Attachment A. The locations of the off-site monitoring wells are shown in Figure 3, provided in Attachment A. Each groundwater sample was analyzed for VOCs by USEPA Method 8260 and for pH by USEPA Method 9040. Groundwater sample results are summarized in Attachment F and are compared to the NYSDEC Class GA groundwater standards and guidance values. A copy of the groundwater sampling results for MW-2S from the November 2007 Vapor Intrusion Investigation is included in Attachment J.

Concentrations of total VOCs detected in the on-site monitoring wells ranged from non-detect in groundwater monitoring well MW-101 to a maximum concentration of 815 ug/l detected in groundwater monitoring well MW-106, located in the southeast corner of the site. Five on-site monitoring wells (MW-103, MW-104, MW-105, MW-106 and MW–107) exhibited one or more of the following VOCs at concentrations above their respective Class GA standards or guidance values; cis-1,2-DCE, PCE, TCE and VC. The maximum concentrations of cis-1,2-DCE (540 ug/l), TCE (75.0 ug/l) and VC (20.0 ug/l)

were detected in groundwater monitoring well MW-106, located in the southeast corner of the site. The maximum concentration of PCE (760 ug/l) was detected in groundwater monitoring well MW-104, located on the western portion of the site. Note that VOCs were not detected at concentrations exceeding their respective Class GA standards and guidance values in on-site monitoring wells MW-101, MW-102 or MW-108.

Concentrations of cis-1,2-DCE (220 ug/l) and VC (2.2 ug/l) were detected above their respective Class GA groundwater standards of 5.0 ug/l and 2.0 ug/l, respectively, in off-site groundwater monitoring well MW-2S, located on the corner of Thompson Avenue and Lane Street. Concentrations of cis-1,2-DCE (2.1 ug/l), 1,1-dichloroethane (1.2 ug/l), TCE (1.6 ug/l), MTBE (2.1 ug/l) and PCE (2.3 ug/l) were detected in off-site monitoring well MW-109; however, these VOCs were not detected at concentrations exceeding their respective Class GA standards and guidance values. VOCs were not detected in off-site monitoring well MW-111.

Attachment K includes graphs which summarize historical concentrations of total VOCs, cis-1,2-DCE, PCE, TCE and VC detected in the on-site and off-site monitoring wells from June 2007 through June 2009. Note that the greatest concentrations of VOCs have primarily been detected above their respective standards in on-site monitoring wells MW-104 and MW-106, and separate graphs have been provided for these two monitoring wells. Off-site, concentrations of these compounds have historically been detected below their respective groundwater standards in MW-109 and MW-111. A comparison of the concentrations of VOCs detected in MW-2S since November 2007 continues to show a general decrease in VOC concentrations.

Data Validation

The data packages submitted by Mitkem Corporation (Mitkem) have been reviewed for completeness and compliance with NYSDEC ASP Quality Assurance/Quality Control (QA/QC) requirements. Mitkem is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory. The analysis of the air samples were completed by Con-Test Analytical Laboratory. Con-Test is a NYSDOH ELAP-certified laboratory. All sample results have been deemed valid and usable for environmental assessment purposes.

Data Validation Checklists are presented in Attachment L.

Conclusions

Based on the results of performance monitoring conducted during the period, we offer the following conclusions:

- The results of the system influent samples show that extraction wells RW-1 and RW-2 continue to capture VOC-contaminated groundwater.
- Rehabilitation of extraction well RW-1 was completed in April 2009, which restored the extraction well yield to within the contract-required flow rate range of 80 gpm to 100 gpm, as

specified in the Active Industrial Uniform Site Contract Documents. Note that the average flow rate of 71 gpm above includes flow rate data prior to the well rehabilitation activities completed during this reporting period.

- Extraction well RW-2 is currently pumping at an average rate of 84.7, which is within the contract-required flow rate range of 80 gpm to 100 gpm, as specified in the Active Industrial Uniform Site Contract Documents.
- The results of system effluent (COMB-EFF) samples show that the air stripper towers are effectively removing the captured VOCs to concentrations below the NYSDEC site-specific effluent limits.
- The results of vapor discharge samples show that the vapor phase carbon vessels are effectively removing VOCs to concentrations below their respective NYSDEC site-specific discharge limits.
- Five of the eight on-site monitoring wells exhibit at least one VOC at concentrations in exceedance of their respective NYSDEC Class GA groundwater standards and guidance values.
- MW-2S exhibited cis-1,2-DCE and VC at concentrations in exceedance of their respective Class GA standards. However, off-site monitoring well MW-109 did not exhibit VOCs at concentrations in exceedance of the NYSDEC Class GA standards and guidance values, and off-site monitoring well MW-111 did not exhibit detectable concentrations of VOCs.
- Note that no new supply wells have been installed on the Active Industrial property and, based on visual inspection of the immediate area, no new schools or parks have been constructed in the vicinity or downgradient of the Active Industrial property.
- The Class GA Groundwater Standards and Guidance Values and the NYSDEC site-specific effluent limits have not changed since system start-up in December 2001. A new DER-10 document, dated December, 2002, 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, we provide 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.
- In order to replace groundwater monitoring well MW-110, which was paved over prior to initiation of this work assignment, and to better monitor the off-site plume location and

concentration (and, therefore, overall system effectiveness), we recommend the installation of three new off-site monitoring wells southwest of the site and along Little Neck Creek. Note that additional details and a figure depicting the proposed well locations was provided in the draft Active Industrial Periodic Review Report.

- Continue to closely monitor VOC concentrations in off-site monitoring well MW-2S in order to ensure that the groundwater extraction and treatment system is capturing all VOCs which have the potential to migrate off-site. Note that extraction well RW-1 has been pumping at a reduced flow rate due to iron fouling of the well screen. As stated above, following well rehabilitation activities, extraction well RW-1 is now pumping at a flow rate within the contract-required flow rate range of 80 gpm to 100 gpm. As such, RW-1's radius of influence has been restored to within design specification; therefore, the VOC concentrations observed in off-site monitoring well MW-2S will likely decrease in the upcoming reporting periods.
- It is recommended to replace the effluent filter in order to prevent a recurrence of the leak noted in this reporting period.

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

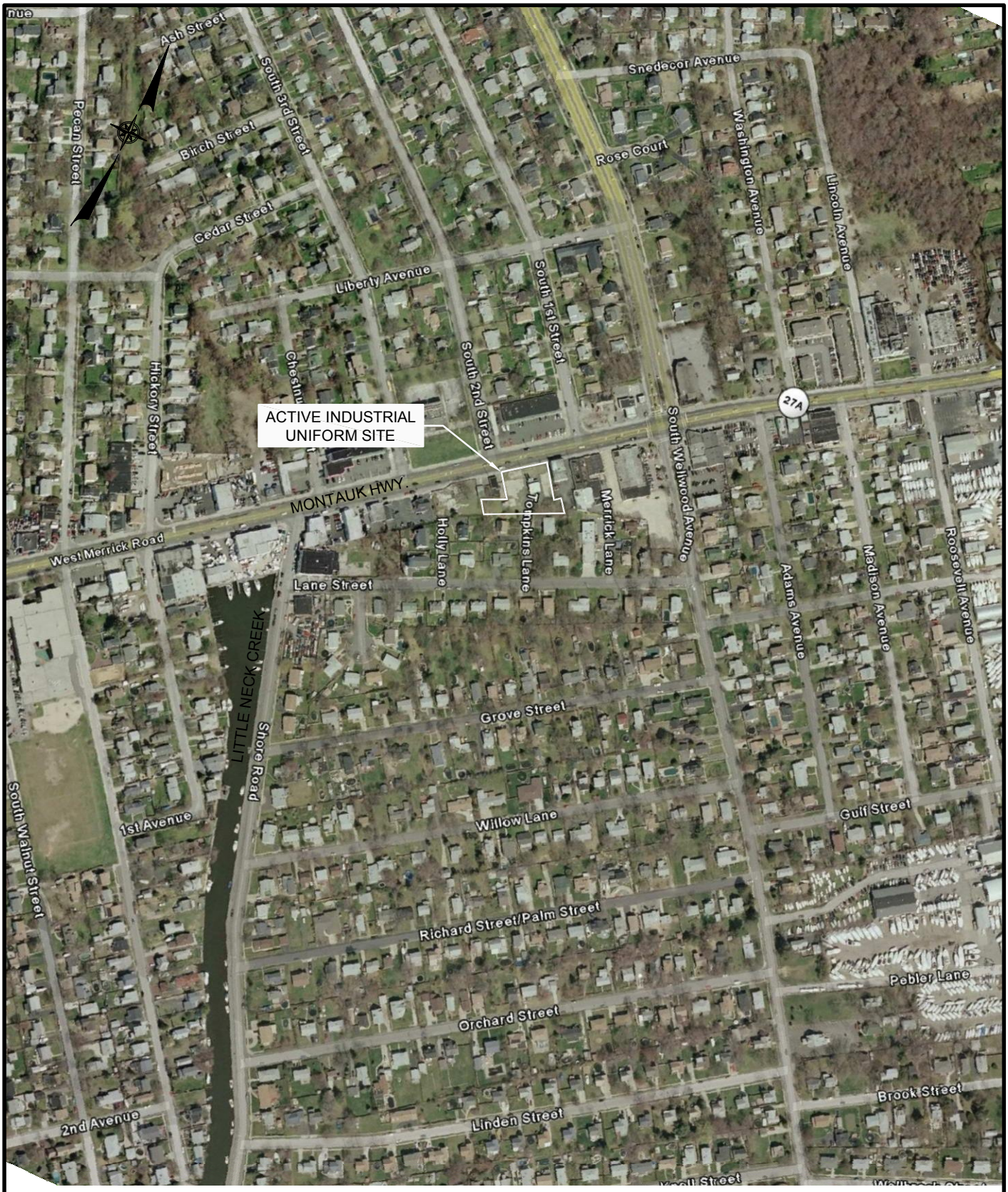
Very truly yours,

Stephen Tauss
Project Manager

SET/KM/PM/jmy
Attachments
cc: R. Walka (D&B)
P. Martorano (D&B)
F. DeVita (D&B)
♦2578\SET08039-PL_QR18.doc(R11)

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 1-1

\\Nt4\cadwork\12578\Quarterly Report\FIGURE 1.dwg, 8/11/2009 10:46:26 AM, dbcadd

WEST MERRICK ROAD
(AKA WEST MONTAUK HIGHWAY) SR27A

8' WIDE CONCRETE WALK

SIDEWALK

MW-102

MW-101

APPROXIMATE EXTENT
OF LIMITED EXCAVATION
PERFORMED IN
NOVEMBER 2000

EXISTING CONCRETE SURFACE

MW-103

CONCRETE PAD

TREATMENT FACILITY
(32' x 26')

APPROXIMATE LOCATION
OF FORMER PCE
STORAGE TANKS

MW-104

LIMIT OF ASPHALT

MW-105

EXISTING CONCRETE SURFACE

APPROXIMATE EXTENT
OF LIMITED EXCAVATION
PERFORMED IN
NOVEMBER 2000

DRIVEWAY

EXISTING GRAVEL SURFACE

MW-108

RW-1

MW-107

EXISTING GRAVEL SURFACE

MW-106

TOMPKINS LANE

LEGEND

MW-101 GROUNDWATER MONITORING WELL

RW-1 GROUNDWATER RECOVERY WELL

GROUNDWATER FLOW DIRECTION

BASE MAP SOURCE - CAMP DRESSER AND McKEE (MARCH 2000), LAW ENGINEERING AND ENVIRONMENTAL SERVICES, P.C. (SEPTEMBER 2002)

0 20
SCALE IN FEET

ACTIVE INDUTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

ON-SITE MONITORING WELLS AND RECOVERY WELL AND GROUNDWATER FLOW DIRECTION

FIGURE 2

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

F:\2578\Quarterly Report\FIGURE 2.dwg, FIG 2, 2/8/2008 9:33:10 AM, PMartorano

SOURCE - CAMP DRESSER AND McKEE (MARCH 2000), LAW ENGINEERING AND ENVIRONMENTAL SERVICES, P.C. (SEPTEMBER 2002)

ACTIVE INDUTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

SCALE: 1" = 100'

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

OFF-SITE MONITORING WELL LOCATION MAP

FIGURE 3

F:\2578\FIGURE 3.dwg, Layout1, 1/9/2009 2:56:25 PM, PMartorano

ATTACHMENT B

RW-1 REDEVELOPMENT PHOTOGRAPHIC LOG

Active Industrial
RW-1 Well Rehabilitation
April 27, 2009 – May 4, 2009

Rig/Hoist used during RW-1 well rehabilitation.

Condition of RW-1 pump/motor prior to well rehabilitation.

Active Industrial
RW-1 Well Rehabilitation
April 27, 2009 – May 4, 2009

5 ½ foot pitless

Pitless and RW-1 influent line connected.

Active Industrial
RW-1 Well Rehabilitation
April 27, 2009 – May 4, 2009

Camera used to take a video log of RW-1.

Equipment used to record video log of RW-1.

Active Industrial
RW-1 Well Rehabilitation
April 27, 2009 – May 4, 2009

Brush used to clean well casing and screen.

Swab used during pump and swab activities.

Active Industrial
RW-1 Well Rehabilitation
April 27, 2009 – May 4, 2009

CO_2 tank and equipment used during injection activities.

Well connection during CO_2 injection activities.

Active Industrial
RW-1 Well Rehabilitation
April 27, 2009 – May 4, 2009

Grunfos pump/motor installed post well rehabilitation.

Casing installed around pump/motor before installation.

ATTACHMENT C

RW-1 REDEVELOPMENT SPECIFIC CAPACITANCE TEST RESULTS

Dvirka & Bartilucci
Lindenhurst, NY

Well #RW-1 ~ Pre Treatment ~ April 27, 2009				
Discharge Rate (gpm)	Duration (Minutes)	Pumping Level (ft bg.)	Drawdown (ft)	Specific Capacity (gpm/ft)
		7.3		
20	60	16.1	8.8	2.27
40	30	33.3	26	1.54

* Ran Out of Water

Well #RW-1 ~ Post Treatment ~ May 4, 2009				
Discharge Rate (gpm)	Duration (Minutes)	Pumping Level (ft bg.)	Drawdown (ft)	Specific Capacity (gpm/ft)
		9.75		
20	30	10.05	0.3	66.67
40	30	10.5	0.75	53.33
80	30	11.5	1.75	45.71
120	30	12.65	2.9	41.38

PUMP TEST
Pre-Treatment

DATE: 04/27/09 **WELL # / NAME:** RW-1 **DURATION OF TEST:** 1.5 hrs

CLIENT: Dvirka & Bartilucci **LOCATION:** Lindenhurst, NY

WELL DIAMETER: 8" **DEPTH:** 36' 6" **SCREEN DIAMETER:** 8" **LENGTH:** 25'

SWL: 4' 2" **DISCHARGE PIPE:** 3" **METHOD OF MEASUREMENT:** Meter

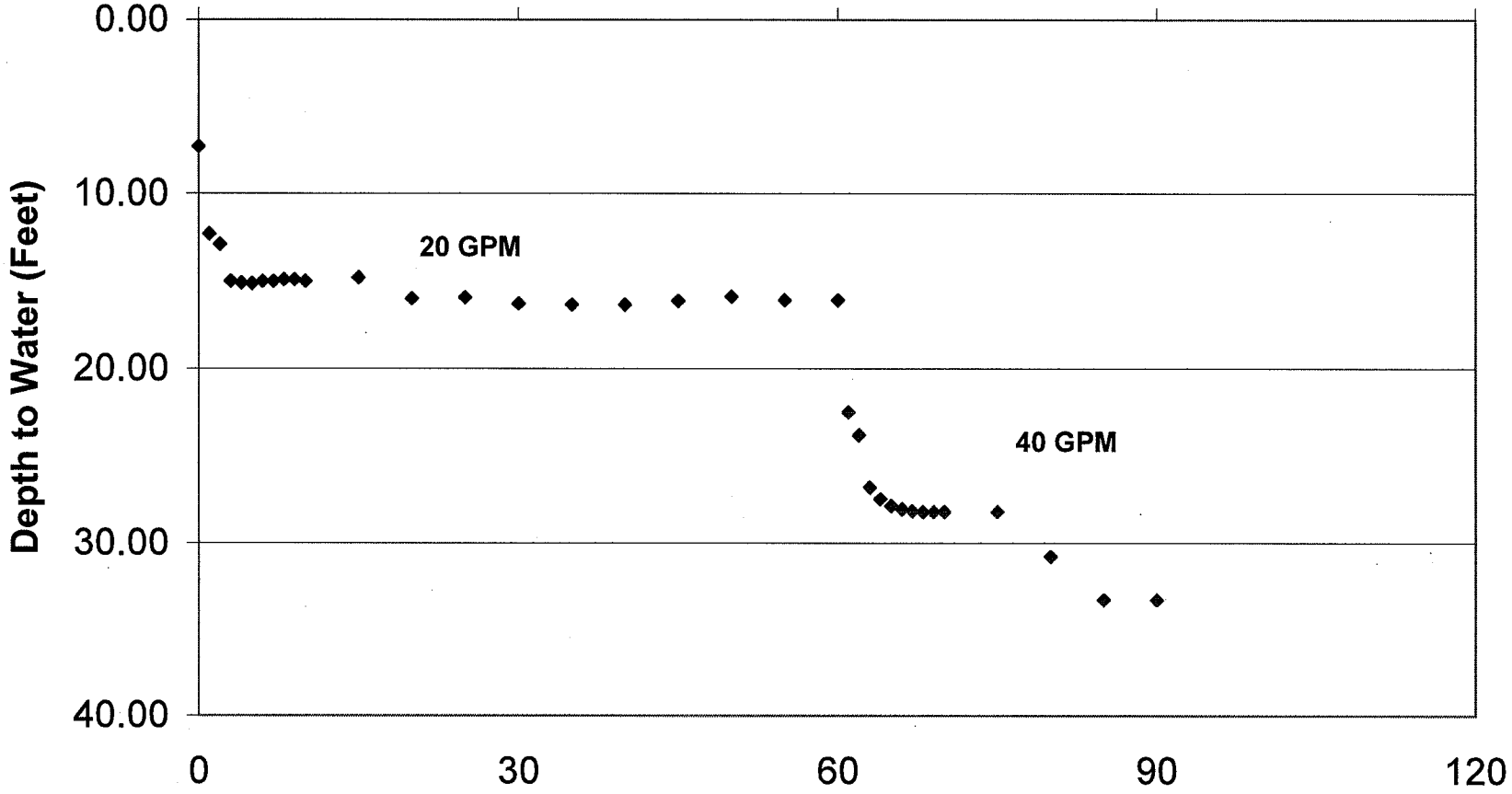
PUMP / MOTOR INFO: 7 1/2 hp **PUMP SETTING:** Intake 34'

COMMENTS:

Time	Elapsed Time (min)	Depth to Water (ft btomp)	Drawdown (feet)	Pumping Rate (gpm)	Pressure (psi)	Notes
2:40	0	7.30		20		
2:41	1	12.30	5.00	20	43	B-18.6 R-18.1 Y-17.7
2:42	2	12.90	5.60	20		Megs 4.5
2:43	3	15.00	7.70	20		Resistance .5
2:44	4	15.10	7.80	20		
2:45	5	15.13	7.83	20		
2:46	6	15.00	7.70	20		
2:47	7	15.00	7.70	20	42	
2:48	8	14.90	7.60	20		
2:49	9	14.90	7.60	20		
2:50	10	15.00	7.70	20		
2:55	15	14.80	7.50	20		
3:00	20	16.00	8.70	20		
3:05	25	15.95	8.65	20		
3:10	30	16.30	9.00	20		
3:15	35	16.35	9.05	20		
3:20	40	16.37	9.07	20		
3:25	45	16.15	8.85	20		
3:30	50	15.90	8.60	20		
3:35	55	16.10	8.80	20	42	
3:40	60	16.10	8.80	20		
3:41	61	22.50	15.20	40	38	
3:42	62	23.80	16.50	40		
3:43	63	26.80	19.50	40		
3:44	64	27.47	20.17	40		

Time	Elapsed Time (min)	Depth to Water (ft btomp)	Drawdown (feet)	Pumping Rate (gpm)	Pressure (psi)	Notes
3:45	65	27.85	20.55	40	35	
3:46	66	28.05	20.75	40		
3:47	67	28.15	20.85	40		
3:48	68	28.20	20.90	40		
3:49	69	28.20	20.90	40		
3:50	70	28.20	20.90	40		
3:55	75	28.20	20.90	40	35	
4:00	80	30.80	23.50	40		
4:05	85	33.30	26.00	40	30	
4:10	90	33.30	26.00	40		Out of Water

Dvirka & Bartilucci
Lindenhurst, NY
Well #RW-1 Step-Rate Pumping Test
Pre Rehabilitation
04/27/09



* Static Water Level: 4.2'
Pump Intake: '
TOTAL DEPTH: 36.6'

PUMP TEST
Post-Treatment

DATE: 05/04/09 **WELL # / NAME:** RW-1 **DURATION OF TEST:** 2 hrs

CLIENT: Dvirka & Bartilucci **LOCATION:** Lindenhurst, NY

WELL DIAMETER: 8" **DEPTH:** 36' 6" **SCREEN DIAMETER:** 8" **LENGTH:** 25'

SWL: 9.75' **DISCHARGE PIPE:** 3" **METHOD OF MEASUREMENT:** Meter

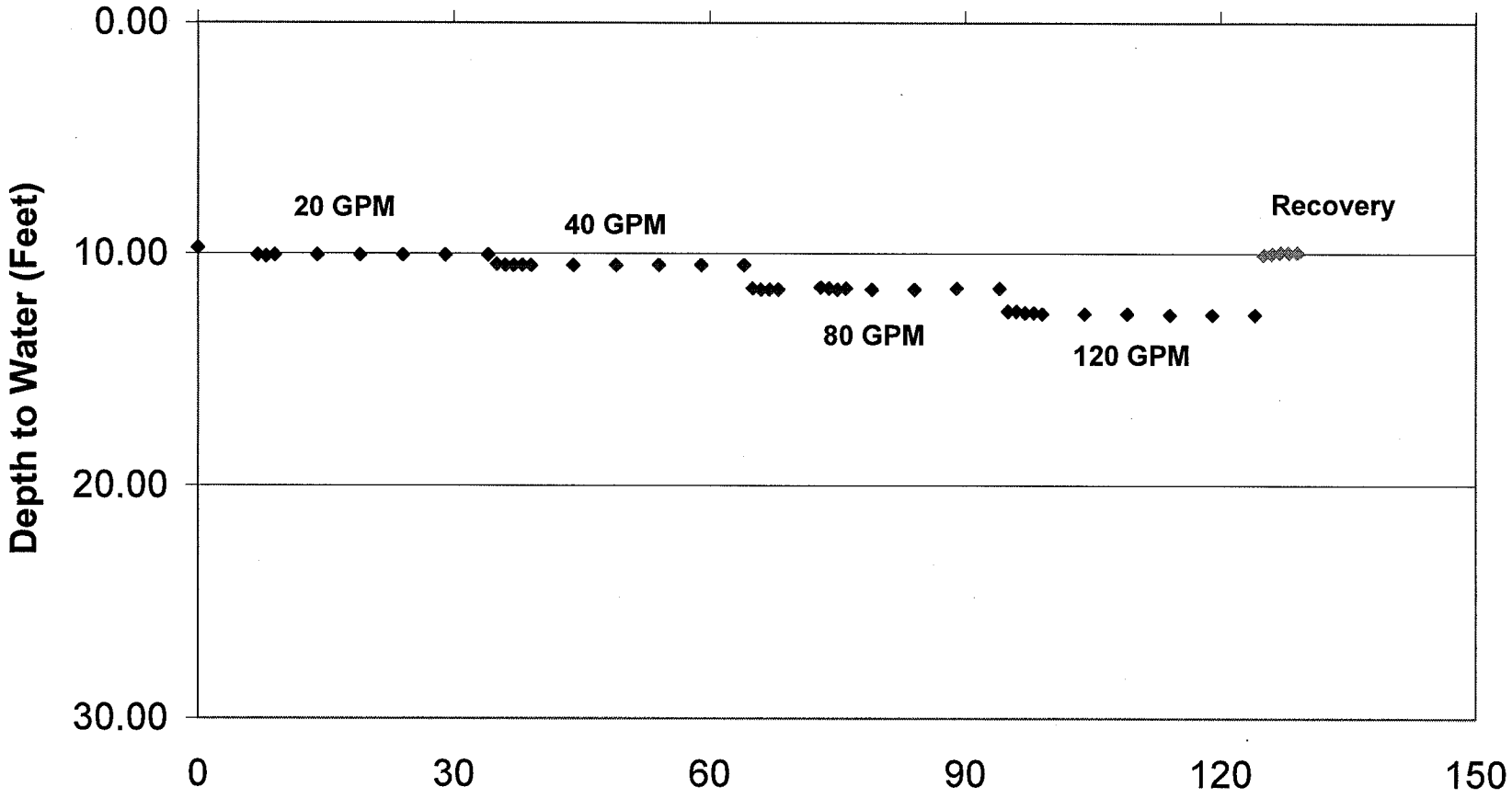
PUMP / MOTOR INFO: 7 1/2 hp **PUMP SETTING:** Intake 34'

COMMENTS:

Time	Elapsed Time (min)	Depth to Water (ft btomp)	Drawdown (feet)	Pumping Rate (gpm)	Pressure (psi)	Notes
1:31	0	9.75		20		Start
1:38	7	10.05	0.30	20	43	
1:39	8	10.10	0.35	20		
1:40	9	10.05	0.30	20		
1:45	14	10.05	0.30	20	43	B-13.1 R-13.7 Y-13.1
1:50	19	10.05	0.30	20		
1:55	24	10.05	0.30	20	43	
2:00	29	10.05	0.30	20		
2:05	34	10.05	0.30	20		
2:06	35	10.45	0.70	40	37	Rate Change - 40GPM
2:07	36	10.50	0.75	40		
2:08	37	10.50	0.75	40		
2:09	38	10.50	0.75	40	37	
2:10	39	10.50	0.75	40		B-13 R-13.8 Y-13.1
2:15	44	10.50	0.75	40		
2:20	49	10.50	0.75	40		
2:25	54	10.50	0.75	40		
2:30	59	10.50	0.75	40		
2:35	64	10.50	0.75	40	37	
2:36	65	11.50	1.75	80	34	Rate Change - 80GPM
2:37	66	11.55	1.80	80		
2:38	67	11.55	1.80	80		
2:39	68	11.55	1.80	80	34	
2:40	69					System Shut Down
2:44	73	11.45	1.70	80		Back On

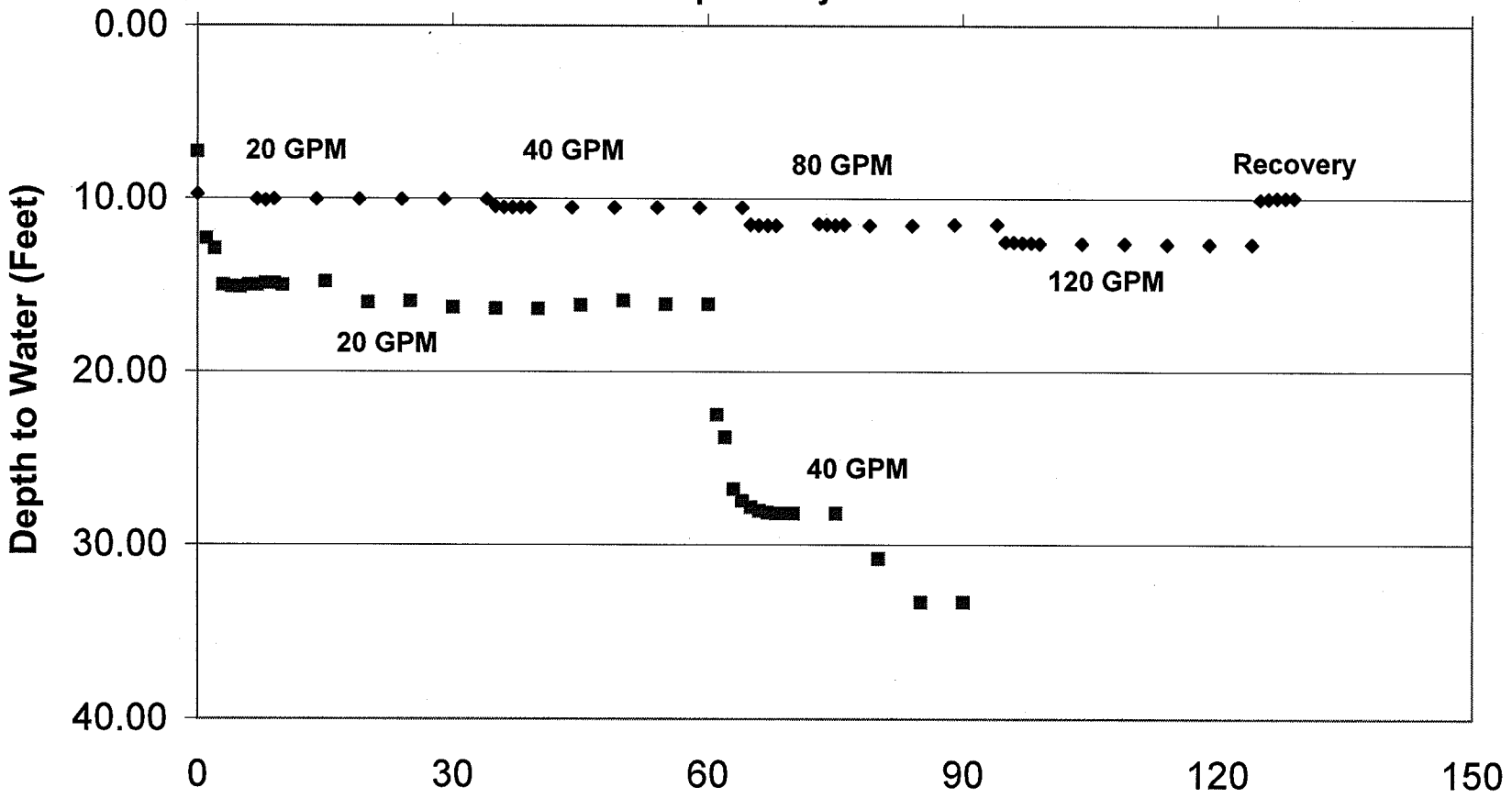
Time	Elapsed Time (min)	Depth to Water (ft btomp)	Drawdown (feet)	Pumping Rate (gpm)	Pressure (psi)	Notes
2:45	74	11.50	1.75	80		
2:46	75	11.55	1.80	80	34	
2:47	76	11.50	1.75	80		
2:50	79	11.55	1.80	80		
2:55	84	11.55	1.80	80	34	B-14 R-14.7 Y-14
3:00	89	11.50	1.75	80		
3:05	94	11.50	1.75	80		
3:06	95	12.50	2.75	120	26	Rate Change 120GPM
3:07	96	12.50	2.75	120		
3:08	97	12.55	2.80	120		
3:09	98	12.55	2.80	120		
3:10	99	12.60	2.85	120	26	B-14.8 R-15.4 Y-14.7
3:15	104	12.60	2.85	120	26	
3:20	109	12.60	2.85	120		
3:25	114	12.65	2.90	120		
3:30	119	12.65	2.90	120		
3:35	124	12.65	2.90	120		Stop
Recovery						
3:36	125	10.05	0.30			
3:37	126	10.00	0.25			
3:38	127	9.95	0.20			
3:39	128	9.95	0.20			
3:40	129	9.95	0.20			

Dvirka & Bartilucci
Lindenhurst, NY
Well #RW-1 Step-Rate Pumping Test
Post Rehabilitation
05/04/09



* Static Water Level: 9.75'
Pump Intake: '
TOTAL DEPTH: 36.6'

Dvirka & Bartilucci
Lindenhurst, NY
Well #RW-1 Step-Rate Pumping Test
Pre - Post Comparison
April / May 2009



* Static Water Level: 9.75'
Pump Intake: '
TOTAL DEPTH: 36.6'

ATTACHMENT D

WASTE CHARACTERIZATION RESULTS

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
WASTE CHARACTERIZATION RESULTS

SAMPLE ID DATE OF COLLECTION UNITS	ASWC-1 5/5/2009 ug/L	HAZARDOUS WASTE REGULATORY LEVEL ug/L
Volatile Organics*		
Vinyl Chloride	U	200
1,1-Dichloroethene	U	400
2-Butanone	U	300
Chloroform	U	300
Carbon Tetrachloride	U	600
1,2-Dichloroethane	U	100
Benzene	U	60
Trichloroethene	U	700
Tetrachloroethene	1.7 J	1,400
Chlorobenzene	U	1,700
Semivolatile Organics		
1,4-Dichlorobenzene	U	7,500
2-Methylphenol	U	200,000
4-Methylphenol	U	200,000
Hexachloroethane	U	3,000
Nitrobenzene	U	2,000
Hexachlorobutadiene	U	500
2,4,6-Trichlorophenol	U	2,000
2,4,5-Trichlorophenol	U	400,000
2,4-Dinitrotoluene	U	130
Hexachlorobenzene	U	130
Pentachlorophenol	U	100,000
Pyridine	U	5,000
Pesticides		
gamma-BHC	U	400
Heptachlor	U	8
Heptachlor epoxide	U	--
Endrin	U	--
Methoxychlor	U	10
Toxaphene	U	500
Chlordane	U	30
Herbicides		
2,4-D	U	10,000
2,4,5-TP (Silvex)	U	1,000
Metals		
Arsenic	13.8 B	5,000
Barium	181 B	100,000
Cadmium	2.7 B	1,000
Chromium	33.5	5,000
Lead	2.6 B	5,000
Mercury	0.091 B	200
Selenium	U	1,000
Silver	U	5,000
Wet Chemistry		
Ignitability, in °F	> 140	< 140
Reactive Cyanide, in mg/kg	U	250
Reactive Sulfide, in mg/kg	61	500
Corrosivity (pH), in s.u.	6.2	< 2 or ≥ 12.5

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL but greater than the IDL

J: Compound found at a concentration below the detection limit

ATTACHMENT E

WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYCESQG		516 781-3000	DUIR0901

5. Generator's Name and Mailing Address
DUIRKA + BARTIUCCI
330 CROSSWAYS PARK DR
WOODBURY, NY 11797
Generator's Phone:

Generator's Site Address (if different than mailing address)
Project @ WATER TREATMENT
63-65 WEST MONTAUK HWY
LINDENHURST NY

6. Transporter 1 Company Name
ACTION TRUCKING INC
U.S. EPA ID Number
NYD064748304

7. Transporter 2 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number
NJD080631369

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS LLC
1 EDEN LANE
FLANDERS NJ 07836 (973) 347-1809
Facility's Phone:
U.S. EPA ID Number
NJD980536583

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON DOT, NON RCRA, NON HAZARDOUS SOLIDS CONTAINING LIQUIDS (Well Cuttings)	1	DM	450	P	ID27 L
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
GEN 360867 LINE 1 = SOLID WASTE (VEX5167) NJDEP20071-08999

LICENCE PLATE # T96-F8Y (NJ) COUNTY OF ORIGIN NASSAU
1 METAL 55 OPEN

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: AS AGENT TO NYSDEC KEVIN METKOFF
Signature:
Month 06 Day 24 Year 09

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JOHN WOLF
Signature:
Month 06 Day 24 Year 09

Transporter 2 Printed/Typed Name: C. PAOLILLO
Signature:
Month 06 Day 26 Year 09

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
8:00
Printed/Typed Name: MARY K. GASKILL
Signature:
Month 07 Day 02 Year 09

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

ATTACHMENT F

DESCRIPTION OF SYSTEM ALARM CONDITIONS

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
SUMMARY OF SYSTEM DOWNTIME

SHUT-OFF DATE/TIME	RESTART DATE/TIME	CAUSE FOR SHUTDOWN
4/3/09 2:15 PM	4/3/09 4:00 PM	Alarm condition 3 & 5: Reset VFDs. Hand pumped strippers #1 and #2 to low level. Restarted system.
4/27/09 1:23 PM	4/27/09 2:45 PM	Non-routine maintenance: Aqua-Freed application for RW-1 and Aquaguard installation. Restart only RW-1 to test pumping rate.
4/27/09 4:00 PM	4/30/09 9:35 AM	Non-routine maintenance: Aqua-Freed application for RW-1 and Aquaguard installation. Restart only RW-2 to run system while introducing purge water from RW-1 redevelopment.
4/27/09 4:00 PM	5/4/09 5:00 PM	Non-routine maintenance: Aqua-Freed application for RW-1 and Aquaguard installation. Restart RW-1.
5/5/09 6:50 AM	5/5/09 4:15 PM	Alarm condition 3 & 5: Reset VFDs. Hand pumped strippers #1 and #2 to low level. Restarted system.
5/5/09 4:52 PM	5/5/09 5:16 PM	Alarm condition 3 & 5: Reset VFDs. Hand pumped strippers #1 and #2 to low level. Reset PID set points based on high flows. Restarted system.
6/12/09 3:36 AM	6/12/09 7:18 PM	Alarm condition 3 & 5: Reset VFDs. Hand pumped strippers #1 and #2 to low level. Restarted system.
6/16/09 7:37 PM	6/19/09 3:30 PM	Alarm condition 3: High level building sump. Hand pumped sump level to low level. Restarted system.
6/24/09 9:20 AM	6/24/09 12:45 PM	Routine/Non-Routine Maintenance Event[1] - Performed routine blower maintenance. Patch hole in effluent filter with epoxy. Restart system.

NOTES:

1. Maintenance event performed by Systematic Technologies, Inc.

ATTACHMENT G

SYSTEM MAINTENANCE REPORT

MAINTENANCE AND INSPECTION REPORT

ACTIVE INDUSTRIAL UNIFORM SITE, LINDENHURST, NY

Date: 6/24/09				
Name of Personnel Onsite	Title	Time Arrived	Time Departed	Total Hours
J. Sorensen	Technician	0910	1310	4 on site
O. Rodriguez	Technician	0910	1310	4 on site

Check off Items that were completed:

- ☐ Item 1: Snow Removal
- ☑ Item 2: Pressure Blower Maintenance
- ☐ Item 2A: Pressure Blower Fan Wheel Replacement
- ☐ Item 3: Transfer Pump Maintenance
- ☐ Item 4: Air Stripper Maintenance
- ☐ Item 5: Granular Activated Carbon Removal and Replacement
- ☐ Item 6: Removal and Replacement of Air Stripper Packing Material
- ☐ Item 7: Solids Filtration Change-out
- ☑ Item 8: Non-Routine Maintenance Services

Description of Work:

Item 2: Pressure Blower Maintenance
1. Inspected fan wheel for wear and corrosion – none found.
2. Inspected fan wheel for buildup of materials – none found.
3. Inspected motor winding for dust and dirt – none found.
4. Lubricated motor bearings.

Item 8: Non-Routine Maintenance
1. Vegeation clearing
2. Repaired leak in solids filter housing using epoxy

Name of Part / Supply / Material	Manufacturer	Model Number	Quantity Used
Bearing Grease	Mobil	Mobilith SHC100	Not Measurable
Fuel	BP	87 Octane Gasoline	5 Gallons
Epoxy Repair Kit	Devcon	Fasmetal	1 Kit

Description of Waste Generated	Volume of Waste	Disposal Facility (Name & Address)	Waste Transporter (Name & Address)

In signing this report I hereby certify that to the best of my knowledge the maintenance and inspection activities performed during this event conform to the requirements specified under contract between STI and Dvirka and Bartilucci

Luke Sorensen 7/13/09

Signature / Print / Date

MAINTENANCE AND INSPECTION REPORT

ACTIVE INDUSTRIAL UNIFORM SITE, LINDENHURST, NY

Date: 4/1/09

Name of Personnel Onsite	Title	Time Arrived	Time Departed	Total Hours
L. Sorensen	President	1320	1610	2.833 On Site, 1.5 Travel

Check off Items that were completed:

- ☐ Item 1: Snow Removal
- ☐ Item 2: Pressure Blower Maintenance
- ☐ Item 2A: Pressure Blower Fan Wheel Replacement
- ☐ Item 3: Transfer Pump Maintenance
- ☐ Item 4: Air Stripper Maintenance
- ☐ Item 5: Granular Activated Carbon Removal and Replacement
- ☐ Item 6: Removal and Replacement of Air Stripper Packing Material
- ☐ Item 7: Solids Filtration Change-out
- ☒ Item 8: Non-Routine Maintenance Services

Description of Work:

Item 8: Non-Routine Maintenance Services:

1.) Install UPS System
2.) Install vacuum breaker
3.) Diagnose/repair inoperable sump float switch (open circuit)

Name of Part / Supply / Material	Manufacturer	Model Number	Quantity Used
UPS System	APC	BE550G	1
Vacuum Breaker	McMaster-Carr	4817K55	1

Description of Waste Generated	Volume of Waste	Disposal Facility (Name & Address)	Waste Transporter (Name & Address)

In signing this report I hereby certify that to the best of my knowledge the maintenance and inspection activities performed during this event conform to the requirements specified under contract between STI and Dvirka and Bartilucci. Luke Sorensen 4/13/09

Signature / Print / Date

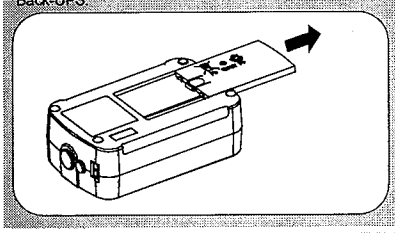
Back-UPS® ES 450/550G
User Guide

www.apc.com

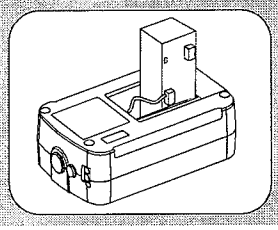
1 Connect Battery

For safety, the Back-UPS ES is shipped with one battery wire disconnected. The UPS will not operate until the wire is connected to the touch-safe battery terminal.
NOTE: Small sparks may occur during battery connection. This is normal.

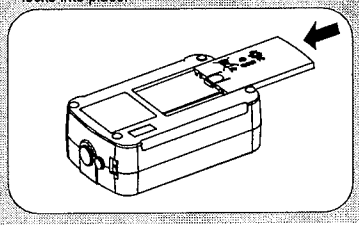
❶ Turn the Back-UPS ES over and press in the release tab. Slide the plastic battery cover off of the Back-UPS.



❷ Connect the battery wire firmly to the battery terminal.



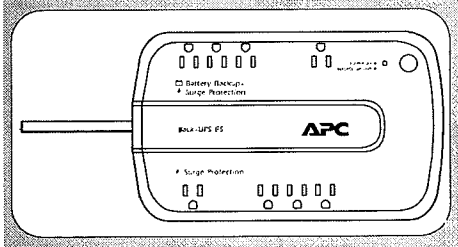
❸ Insert the battery back into the compartment. Slide the plastic battery cover until the release tab locks into place.



2 Connect Equipment

Battery Back-up + Surge Protection

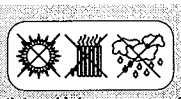
These outlets are powered whenever the Back-UPS ES is switched ON. During a power outage or other utility problems (brownouts, over-voltages), these outlets will be powered for a limited time by the Back-UPS ES. Plug your computer, monitor, and other peripheral devices into the outlets.



Surge Protection

These outlets provide full-time protection from surges even if the Back-UPS ES is switched OFF. Plug your printer, fax machine, scanner, or other peripherals that do not need battery power into these outlets.

Place the Back-UPS ES to avoid:
- Direct sunlight
- Excessive heat
- Excessive humidity or contact with fluids



Plug the Back-UPS ES power cord directly into a wall outlet; not into a surge protector or power strip.

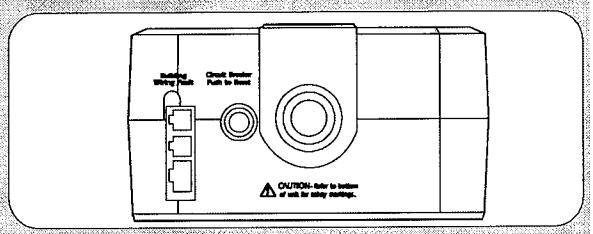
Connect Computer Cable

The supplied cable and software provide automatic file saving and shutdown of the operating system in the case of a sustained power outage.

Connect the cable to the Data Port of the Back-UPS ES. Connect the other end of the cable to the USB port on your computer. The software will automatically find the computer's USB Port.

Connect Modem / Phone / DSL / Fax

The Back-UPS protects a single line (2-wire) phone (including Digital Subscriber Line - DSL), Home Phoneline Networking Association (HPNA) type equipment, modem, or fax machines from surges when connected through the UPS as shown in the drawing below.



3 Turn the Unit On and Install the Software

Press the ON/OFF switch turn the unit ON.

A single short beep and the green "Power On" indicator confirms the Back-UPS ES is on and ready to provide protection.

The Back-UPS ES should charge for at least 16 hours to ensure sufficient runtime. The unit is being charged whenever it is connected to utility power, whether the unit is turned ON or OFF.

If the red Building Wiring Fault indicator (located on the end near the power cord) is lit, your building wiring presents a shock hazard that should be corrected by a qualified electrician.

Install the PowerChute Personal Edition software.
Place the PowerChute CD into the computer and following the installation instructions on the screen.

4 Transfer Voltage and Sensitivity Adjustment (Optional)

To adjust the transfer voltage:

1. Plug the Back-UPS into the utility power source. The Back-UPS will be in "Standby mode" (no indicators are lit).
2. Press the ON/OFF push button fully in for 10 seconds. The Online LED will begin glowing in a cyclical order: GREEN-AMBER-RED, indicating it is going into "Program mode".
3. The Back-UPS will then indicate the current sensitivity, as shown in the *Transfer Voltage and Sensitivity Adjustment* table below.
4. To select the LOW sensitivity setting, press the ON/OFF push button until the LED begins flashing GREEN.
5. To select the MEDIUM sensitivity setting, press the ON/OFF push button until the LED begins flashing RED.
6. To select the HIGH sensitivity setting, press the ON/OFF push button until the LED begins flashing AMBER.
7. To exit Programming mode, once sensitivity is set, wait approximately 5 seconds, and all of the LED indicators will be off (unlit).

Status Indicators

The Back-UPS ES indicates operating status using a combination of visual and audible indicators. Use the following table to identify the status of the Back-UPS ES.

Status	Visual Indications (Power On - Green) (Replace Battery - Red)	Audible Indication	Alarm Terminates When
Power On - UPS is supplying conditioned utility power to the load.	Power On pushbutton - ON (lit)	None	Not applicable.
On Battery - UPS is supplying battery power to the load connected to the Battery outlets.	Power On pushbutton - ON (off during beep)	Beeping 4 times every 30 seconds	UPS transfers back to Power On operation, or when UPS is turned off.
Low Battery Warning - UPS is supplying battery power to the load connected to the battery outlets, and the battery is near exhaustion.	Power On indicator is flashing	Rapid beeping (every 1/2 second)	UPS transfers back to normal operation, or when UPS is turned off.
Replace Battery - The battery is disconnected. The battery is in need of charging, or is at the end of its usual life and must be replaced.	Replace Battery indicator is Flashing Power On and Replace Battery indicators - flashing (alternating)	Constant tone Constant tone	UPS is turned off with the power switch.
Overload Shutdown - During On Battery operation a battery power supplied outlet overload was detected.	None	Constant tone	UPS is turned off with the power switch.
Sleep Mode - During On Battery operation the battery power has been completely exhausted and the UPS is waiting for utility power to return to normal.	None	Beeping once every 4 seconds	Utility power is restored, or if utility power is not restored within 32 seconds, or the UPS is turned off.
Building Wiring Fault - Your building wiring presents a shock hazard that should be corrected by a licensed electrician.	Building Wiring Fault LED (red) - ON	None	UPS is unplugged, or UPS is plugged into a properly wired outlet.

Indicators Flashing	Sensitivity Setting	Input Voltage Range (For Utility Operation)	When to Use
Green Flashing	LOW	88-142	Input voltage is extremely low or high. Not recommended for computer loads.
Red Flashing	MEDIUM (factory default)	92-139	Back-UPS frequently goes on battery.
Amber Flashing	HIGH	96-136	Connected equipment is sensitive to voltage fluctuations.

Troubleshooting

Problem	Probable Cause	Solution
Back-UPS ES will not turn on.	The battery is disconnected, and either power is unavailable at the wall outlet, or utility power is having a "brownout" or an "over voltage" condition.	Connect the battery (see *Connect Battery*) and ensure power is available at the wall outlet. If battery is connected and power is unavailable, the unit can be "cold started" (operated on battery power) by holding the power button down until two beeps are heard.
No power available at the Surge Protection outlets.	Surge Protection outlets were overloaded. Utility power not available at the wall outlet.	Reduce the amount of equipment plugged into the Surge Protection outlets. Ensure the fuse or circuit breaker for the outlet is not tripped, and that the wall switch controlling the outlet (if any) is in the ON position.
Back-UPS is on, but Replace Battery indicator flashes, and unit emits a constant tone.	Battery is disconnected.	Connect the battery (see *Connect Battery* diagram).
Connected equipment loses power.	Equipment is connected to the "Surge Protection" outlets. The Back-UPS ES is overloaded. PowerChute Personal Edition software has performed a shutdown due to a power failure. The Back-UPS ES has exhausted its available battery power. Connected equipment does not accept the step-approximated sine waveform from the Back-UPS ES. The Back-UPS ES may require service.	Ensure the equipment you want to stay powered during a power failure is plugged into the "Battery Backup plus Surge Protection" outlets and NOT the "Surge Protection Only" outlets. Make sure the equipment plugged into the outlets of the unit are not overloading its capacity. Try removing some of the equipment and see if the problem continues. The Back-UPS ES is operating normally. The Back-UPS ES can only operate on battery power for a limited amount of time. The unit will eventually turn off when the available battery power has been used. Allow the unit to recharge for 16 hours before expecting maximum runtime. The output waveform is designed for computers and computer-related equipment. It is not designed for use with motor-type equipment. Contact APC Technical Support for further troubleshooting.
The Power On indicator is lit and the Back-UPS ES beeps four times every 30 seconds.	The Back-UPS ES is On Battery.	The Back-UPS ES is operating normally, and using battery power. Once On Battery, you may want to save your current work, power down your equipment, and turn the unit OFF. Once normal power is restored, you may turn the unit back ON, and power your equipment.
The Power On indicator flashes and the Back-UPS beeps twice per second at the same time.	Battery capacity is low (about 2 minutes of use remaining).	The Back-UPS ES is about to shut off due to a low battery charge condition! When the unit beeps twice every second, the battery has about 2 minutes of power remaining. Immediately power down your computer, and turn the unit OFF. When normal power returns, the unit will recharge the battery.
Building Wiring Fault indicator is lit.	Your building wiring presents a shock hazard. Using the Back-UPS with this condition will void the warranty.	Call a qualified electrician for service.
Inadequate runtime.	The battery is not fully charged. Battery is near the end of useful life.	Allow the unit to charge by leaving it plugged into the wall at least 16 hours. As a battery ages, the amount of runtime available will decrease. You can replace the battery by ordering one at www.apc.com. Batteries also age prematurely if the Back-UPS ES is placed near excessive heat.
No phone/fax/DSL signal from the Back-UPS.	Data line from the ISP or wall outlet is connected to the wrong jack on the Back-UPS.	Make sure the data line from the wall outlet is connected to the jack labeled "Wall Outlet".
Internet connection lost during power outage.	Modem lost AC power.	Plug the modem's AC power cord into one of the "Battery Back-up Plus Surge Protection outlets"

Specifications

Model BE450/550G		
Input	Voltage	120 Vrms nominal
	Frequency	60 Hz ± 3
	Brownout Transfer	92 Vrms, typical
	Over-voltage Transfer	139 Vrms, typical
Output	UPS Capacity (4 outlets)	450 VA/550 VA ; 257 W/330 W
	Total Amperage (8 outlets)	12 Amps (including UPS output)
	Voltage - On Battery	115 Vrms ± 8% (step-approximated sine wave)
	Frequency - On Battery	60 Hz ± 1 Hz
	Transfer Time	6 ms typical, 10 ms maximum
Protection and Filter	AC Surge Protection	Full time, 340 joules
	Phone/fax/DSL Surge Protection	Single line (2-wire)
	EMI/RFI Filter	Full time
	AC Input	Resettable circuit breaker
Battery	Type	Sealed, maintenance-free lead acid
	Average Life	3 - 5 years depending on the number of discharge cycles and environmental temperature
Physical	Net Weight	Back-UPS 450: 10 lb (4.5 kg) Back-UPS 550: 12.4 lb (5.6 kg)
	Size	11.2 in (H) x 7.1 in (W) x 3.4 in (D) (28.2 cm x 18 cm x 8.7cm)
	Operating Temperature	+32°F to 104°F (0°C to 40°C)
	Storage Temperature	+5°F to 113°F (-15°C to 45°C)
	Operating Relative Humidity	0 to 95% non-condensing
	Operating Elevation	0 to 10,000 ft (0 to 3,000m)
Safety and Regulatory	Safety Approvals	TUV C-US certified; UL 1778 standard per CSA standard C22.2 No. 107.3, FCC part 68 & FCC part 15 Class B, NOM certified
	EMC Compliance	**Notice:** This device complies with part 68 and part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. "On the bottom of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company."

Order Replacement Battery

Replace with an APC qualified battery. Replacement batteries can be ordered from www.apc.com (valid credit card required). The replacement battery part number for this Back-UPS 450 is RBC 114, and for Back-UPS 550 is RBC 110.

Warranty

The standard warranty is 3 years from the date of purchase. APC's standard procedure is to replace the original unit with a factory reconditioned unit. Customers who must have the original unit back due to assigned asset tags and set depreciation schedules must declare such a need at first contact with APC Technical Support. APC will ship the replacement unit once the defective unit is received by the repair department or cross-ship upon the provision of a valid credit card number. The customer pays for shipping to APC, and APC pays ground freight transportation costs back to the customer.

Service

Please DO NOT RETURN Back-UPS ES to the place of purchase under any circumstances.

1. Consult the Troubleshooting section to eliminate common problems.
2. Verify the battery is connected (see *Connect Battery*) and that the Circuit Breaker is not tripped (see *Troubleshooting* section).

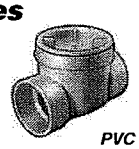
If you still have problems or questions, please contact APC via the internet or at one of the phone numbers listed below.

3. Before contacting APC, please be sure to record the date purchased, UPS model, and serial number (on bottom of unit).
4. Be prepared to troubleshoot the problem over the telephone with a Technical Support Representative. If this is not successful, the representative will issue a Return Material Authorization Number (RMA#) and a shipping address.
5. Pack the unit in its original packaging. If the original packaging is not available, ask APC Technical Support about obtaining a new set. Pack the unit properly to avoid damage in transit. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty (insuring the package for full value is recommended).
6. Write the RMA# on the outside of the package.
7. Return the unit by insured carrier to the address given to you by APC Technical Support.

APC Contact Information

Online Technical Support:	http://support.apc.com http://www.apc.com/support esupport@apcc.com
Web Site:	www.apc.com
USA/Canada:	1.800.800.4272
Mexico:	+52.292.0253 / 52.292.0255
Brazil:	+0800.12.72.1
Worldwide:	+1.401.789.5735

Backwater Swing Check Valves



PVC

- Maximum Pressure: 0 psi (gravity flow)
- Cracking Pressure: 0 psi
- Temperature Range: PVC: 33° to 140° F; ABS: 33° to 180° F

Prevent backflow in drain, waste, and vent piping systems. Valves have a top clean-out lid for easy access. Seal is Buna-N. Approvals: BOCA, IAPMO, and SBCCI. CSA certified. *Note:* Cv factor not rated. For horizontal use only. ***PVC valves*** are white and have a PVC seat; ***ABS valves*** are black and have an ABS seat. **Connections:** Socket weld (not threaded).

Pipe Size	End-to-End Lg.	PVC	Each	ABS	Each
1 1/2"	4 3/16"	**4670K12**	$40.94	**4670K52**	$40.94
2"	4 1/2"	**4670K14**	40.94	**4670K54**	40.94
3"	7 3/8"	**4670K16**	45.29	**4670K56**	45.29
4"	9 3/4"	**4670K18**	52.08	**4670K58**	52.08
6"	15 1/8"	**4670K22**	159.51	**4670K62**	148.51

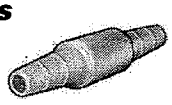
ABS Swing Check Sump Pump Valves

- Maximum Pressure: 50 psi @ 73° F
- Cracking Pressure: 1.5 psi
- Temperature Range: 40° to 140° F

Designed for sump pump line connections, valves are ABS with PVC end connections. They're easy to install—simply slip over ABS, PVC, steel pipe, or copper tubing, and tighten the Type 301 stainless steel hose clamps. Install vertically or horizontally. Disc is EPDM rubber over stainless steel; EPDM acts as soft seat. Color is black. *Note:* Cv factor not rated. **Connections:** Flexible couplers with pipe clamps.

Pipe Size	End-to-End Lg.		Each
1 1/4" to 1 1/2"	4 3/4"	**7744K11**	$13.19
2"	4 1/2"	**7744K12**	26.18

Vacuum Swing Check Valves



- Maximum Vacuum: 29.9" Hg
- Temperature Range: −25° to +176° F

These check valves are used in vacuum lines, relying on back pressure for instant operation in any position. Tapered ends easily connect to soft thermoplastic tubing (arrows on valve indicate direction of free flow). Body is polyethylene, disc is neoprene and acts as soft seat. Color is white. *Note:* Cracking pressure and Cv factor not rated. **Connections:** Barbed.

Fit Tube ID	End-to-End Lg.		Each
5/16" to 1/4"	2 3/4"	**4610K13**	$6.80
1/2" to 3/8"	3 3/16"	**4610K17**	9.43

Vacuum-Breaking Valves with Garden Hose Connections

For use with Hose Bibbs and Sill Cocks

For use with Wall/Yard Faucets

Connect these vacuum breaking valves to hose bibbs and sill cocks or wall/yard faucets. Meant for intermittent use only, valves are not for connections subject to continuous pressure. Body is brass, internal parts are stainless steel, and diaphragm is rubber. Meet American Society of Sanitation Engineers (ASSE) Standard 1011, ANSI A1121.3, and Universal Plumbing Code (UPC). Listed by International Association of Plumbing and Mechanical Officials (IAPMO) and certified by CSA B64.2. Maximum pressure is 125 psi. Temperature range is 33° to 180° F. ***Removable valves*** are secured with a set screw. ***Removable valves with a breakaway set screw*** are secured with a plastic set screw. The head of the screw can be broken off to prevent tampering and removal of the valve. ***Permanent-mount valves*** cannot be removed once they are threaded onto your hose.

Connections: 3/4" garden-hose thread female inlet and male outlet.

O'all Ht.	Brass	Each	Chrome-Plated Brass	Each
For Use with Hose Bibbs and Sill Cocks				
Removable				
1 1/2"	**46605K55**	$19.12	**46605K58**	$24.91
Removable w/Breakaway Screw				
1 3/8"	**46605K75**	9.47	**46605K85■**	19.84
Permanent Mount				
1 3/4"	**46605K65**	22.94	**46605K68■**	26.27
For Use with Wall/Yard Faucets				
Removable				
2"	**46605K88**	24.26	**46605K89**	36.08

■ Overall height is 1 1/2".

Bronze Horizontal-Lift Check Valves

- Maximum Pressure:
  Class 125: 200 psi @ 150° F, Steam: 125 psi @ 353° F;
  Class 300: 1000 psi @ 150° F, Steam: 300 psi @ 421° F
- Cracking Pressure: Less than 1 psi
- Temp. Range: Class 125: −20° to +406° F; Class 300: −20° to +450° F

These rugged valves handle pulsating flow conditions that would cause excessive wear in a swing check valve, meet MSS-SP-80-Type 1, and are rated for steam service. They have a bronze body and work in water, noncorrosive liquids, and gases. Disc is bronze, except 4894K47, which is brass. All have metal-to-metal seat. **Connections:** NPT female.

Pipe Size	Cv Factor	Class 125 End-to-End Lg.		Each	Class 300 End-to-End Lg.		Each
1/2"	2.87	2 5/32"	**4894K47**	$57.98	2 9/16"	**4894K81**	$136.87
3/4"	5.24	2 1/2"	**4894K12**	91.55	3"	**4894K82**	165.31
1"	8.86	3"	**4894K13**	116.82	3 1/2"	**4894K83**	281.44
1 1/4"	15.67	3 19/32"	**4894K14**	154.00	4 1/16"	**4894K84**	375.81
1 1/2"	21.83	3 7/8"	**4894K15**	206.22	4 5/8"	**4894K85**	407.27
2"	37.84	4 21/32"	**4894K16**	306.40	5 3/4"	**4894K86**	505.00

Forged Steel Horizontal-Lift Piston Check Valves—Class 800

Socket Weld

- Maximum Pressure: 1975 psi
- Cracking Pressure: 0.26 to 0.35 psi
- Maximum Temperature: 800° F

Also known as gravity-lift valves, these are API 602, ASME B16.34 certified. The bolted body and cap provide maximum strength for high pressure applications. Piston is Type 410 stainless steel; gasket is Type 316L stainless steel and graphite. Seat is metal-to-metal. Note: For horizontal use only. **Connections:** NPT female or socket weld (not threaded).

Pipe Size	End-to-End Lg.	Cv Factor	NPT Female	Each	Socket Weld	Each
1/2"	3 5/32"	1.2	**4895K63**	$60.87	**4895K83**	$60.31
3/4"	3 35/64"	2.8	**4895K64**	65.77	**4895K84**	65.17
1"	4 21/64"	5	**4895K65**	76.96	**4895K85**	76.26
1 1/4"	5 29/32"	9	**4895K66**	151.17	**4895K86**	149.80
1 1/2"	5 29/32"	12.5	**4895K67**	151.17	**4895K87**	150.63
2"	7 3/32"	17.5	**4895K68**	211.45	**4895K88**	211.45

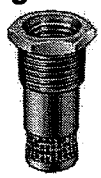
FDA-Compliant Nylon Check Valves

- Maximum Pressure: 150 psi @ 70° F
- Cracking Pressure: 0.5 psi
- Temperature Range: −60° to +200° F

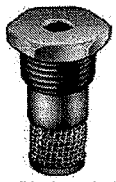
Made of material that meets FDA requirements for use with soft tubing in food and beverage applications, these check valves fit into tight spots and have good chemical resistance. Diaphragm is silicone. Color is natural white. *Note:* Cv factor is not rated. **Connections:** Barbed.

For Tube ID	End-to-End Lg.		Each	For Tube ID	End-to-End Lg.		Each
1/8"	1 5/16"	**2987K21**	$3.70	1/4"	1 11/16"	**2987K25**	$3.70
3/16"	1 11/16"	**2987K23**	3.70	3/8"	1 15/16"	**2987K27**	3.87

Inline Vacuum-Breaking Valves



w/NPT Female Outlet



w/Unthreaded Outlet

For use on steam coils, heat exchangers, and space heaters to prevent water hammer, these valves fit directly into vessels or your processing line. Ball is spring-loaded and kept closed by pressure. When pressure drops below atmospheric, creating a vacuum situation, the valve opens and lets in air. As soon as the vacuum is broken and the pressure rises above atmospheric, the valve quickly closes again. Choose a brass or Type 303 stainless steel valve body. All have stainless steel internal parts with an EPR (ethylene propylene rubber) seat. Maximum pressure is 300 psi. Temperature range is −20° to +365° F. **Connections:** NPT male inlet; choose from NPT female outlet or unthreaded hole diameter.

To Order: Please specify NPT female outlet or unthreaded.

Pipe Size, Inlet × Outlet	Ht.	Tube OD	Brass	Each	Type 303 Stainless Steel	Each
3/8" × 1/4"	1 1/2"	9/16"	**4817K13♥**	$43.93	**4817K63**	$80.92
1/2" × 3/8"	1 3/4"	11/16"	**4817K54**	46.48	**4817K64**	93.34
3/4" × 1/2"	2 1/8"	13/16"	**4817K55**	60.54	**4817K65**	121.32
1" × 3/4"	2 3/8"	1 1/16"	**4817K56**	108.97	**4817K66**	157.61
1 1/4" × 1"	2 15/16"	1 5/16"	**4817K57**	172.69	**4817K67**	207.04
1 1/2" × 1 1/4"	3 1/16"	1 9/16"	**4817K58**	173.78	**4817K68**	230.77

♥ Available with NPT female outlet only.

ATTACHMENT H

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	COMB INF	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L)
SAMPLE TYPE	WATER	WATER	WATER	
DATE OF COLLECTION	4/24/2009	5/14/2009	6/24/2009	
COLLECTED BY	D&B	D&B	D&B	
UNITS	(ug/L)	(ug/L)	(ug/L)	
VOCs				
Dichlorodifluoromethane	U	U	U	5 GV
Chloromethane	U	U	U	--
Vinyl chloride	U	U	U	2 ST
Bromomethane	U	U	U	5 ST
Chloroethane	U	U	U	5 ST
Trichlorofluoromethane	U	U	U	5 ST
1,1-Dichloroethene	U	U	U	5 ST
Acetone	U	U	U	50 GV
Iodomethane	U	U	U	--
Carbon disulfide	U	U	U	60 GV
Methylene chloride	U	U	U	5 ST
trans 1,2-Dichloroethene	U	U	U	5 ST
Methyl-tert butyl ether	4.1 J	3.6 J	3.8 J	10 GV
1,1-Dichloroethane	U	U	U	5 ST
Vinyl acetate	U	U	U	--
2-Butanone	U	U	U	50 GV
cis-1,2-Dichloroethene	17	21	51	5 ST
2,2-Dichloropropane	U	U	U	5 ST
Bromochloromethane	U	U	U	5 ST
Chloroform	U	U	U	7 ST
1,1,1-Trichloroethane	U	U	U	5 ST
1,1-Dichloropropene	U	U	U	5 ST
Carbon tetrachloride	U	U	U	5 ST
1,2-Dichloroethane	U	U	U	0.6 ST
Benzene	U	U	U	1 ST
Trichloroethene	14	21	27	5 ST
1,2-Dichloropropane	U	U	U	1 ST
Bromodichloromethane	U	U	U	5 ST
cis-1,3-Dichloropropene	U	U	U	0.4 ST
4-Methyl-2-pentanone	U	U	U	--
Toluene	U	U	U	5 ST
trans-1,3-Dichloropropene	U	U	U	0.4 ST
1,1,2-Trichloroethane	U	U	U	1 ST
1,3-Dichloropropane	U	U	U	5 ST
Tetrachloroethene	54	77	71	5 ST
2-Hexanone	U	U	U	50 GV
Dibromochloromethane	U	U	U	50 GV
1,2-Dibromoethane	U	U	U	5 ST
Chlorobenzene	U	U	U	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	5 ST
Ethylbenzene	U	U	U	5 ST
Xylene (total)	U	U	U	5 ST
Styrene	U	U	U	5 ST
Bromoform	U	U	U	50 GV
Isopropylbenzene	U	U	U	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	5 ST
Bromobenzene	U	U	U	5 ST
1,2,3-Trichloropropane	U	U	U	0.04 ST
n-Propylbenzene	U	U	U	5 ST
2-Chlorotoluene	U	U	U	5 ST
1,3,5-Trimethylbenzene	U	U	U	5 ST
4-Chlorotoluene	U	U	U	5 ST
tert-Butylbenzene	U	U	U	5 ST
1,2,4-Trimethylbenzene	U	U	U	5 ST
sec-Butylbenzene	U	U	U	5 ST
4-Isopropyltoluene	U	U	U	5 ST
1,3-Dichlorobenzene	U	U	U	3 ST
1,4-Dichlorobenzene	U	U	U	3 ST
n-Butylbenzene	U	U	U	5 ST
1,2-Dichlorobenzene	U	U	U	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	5 ST
Hexachlorobutadiene	U	U	U	0.5 ST
Naphthalene	U	U	U	10 GV
1,2,3-Trichlorobenzene	U	U	U	5 ST
Total VOCs	89.1	122.6	152.8	

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	COMB INF	NYSDEC CLASS GA GROUNDWATER STANDARDS
SAMPLE TYPE	WATER	WATER	WATER	
DATE OF COLLECTION	4/24/2009	5/14/2009	6/24/2009	
COLLECTED BY	D&B	D&B	D&B	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)
INORGANIC COMPOUNDS				
Aluminum	20.2 B	U	U	--
Antimony	3.8 B	3.8 J	U	3
Arsenic	U	U	U	25
Barium	29.6 B	22.4 J	19.8 J	1,000
Beryllium	U	U	U	--
Cadmium	0.32 B	0.53 J	0.51 J	5
Calcium	111,000	78,800	79,700	--
Chromium	U	0.15 J	U	--
Cobalt	0.91 B	0.55 J	0.62 J	--
Copper	17 B	6.2 J	12.7 J	200
Iron	**676**	147	**420**	300
Lead	2.2 B	U	2.9 J	25
Magnesium	133,000	83,800	87,600 E	--
Manganese	**2,120**	**1,720**	**1,710 E**	300
Mercury	0.034 B	U	U	0.7
Nickel	1.5 B	0.87 J	U	100
Potassium	35,000	22,300	23,300	--
Selenium	U	U	U	10
Silver	U	U	U	50
Sodium	**1,150,000**	**737,000 D**	**720,000 D**	20,000
Thallium	U	U	U	--
Vanadium	U	U	U	--
Zinc	20.4	48.2 J	94.4	--
Iron and Manganese	**2,796**	**1,867**	**2,130**	500
GENERAL CHEMISTRY				
pH (S.U.)	**6.3**	**6.1**	**5.9**	6.5 - 8.5

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standards

ABBREVIATIONS:

ug/L: Micrograms per liter
--: Not established

QUALIFIERS:

B: Analyte detected greater than IDL, but less than CRDL.
U: Compound analyzed for but not detected.
E: Compound concentration exceeds instrument calibration range, value estimated.

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

SAMPLE ID	RW-1 INF	RW-2 INF	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L)
SAMPLE TYPE	WATER	WATER	
DATE OF COLLECTION	6/24/2009	6/24/2009	
COLLECTED BY	D&B	D&B	
UNITS	(ug/L)	(ug/L)	
VOCs			
Dichlorodifluoromethane	U	U	5 GV
Chloromethane	U	U	--
Vinyl chloride	U	U	2 ST
Bromomethane	U	U	5 ST
Chloroethane	U	U	5 ST
Trichlorofluoromethane	U	U	5 ST
1,1-Dichloroethene	U	U	5 ST
Acetone	U	U	50 GV
Iodomethane	U	U	--
Carbon disulfide	U	U	60 GV
Methylene chloride	U	U	5 ST
trans 1,2-Dichloroethene	U	U	5 ST
Methyl-tert butyl ether	J	7.3	10 GV
1,1-Dichloroethane	U	1.0 J	5 ST
Vinyl acetate	U	U	--
2-Butanone	U	U	50 GV
cis-1,2-Dichloroethene	**120**	3.6 J	5 ST
2,2-Dichloropropane	U	U	5 ST
Bromochloromethane	U	U	5 ST
Chloroform	U	U	7 ST
1,1,1-Trichloroethane	U	U	5 ST
1,1-Dichloropropene	U	U	5 ST
Carbon tetrachloride	U	U	5 ST
1,2-Dichloroethane	U	U	0.6 ST
Benzene	U	U	1 ST
Trichloroethene	**56**	2.8 J	5 ST
1,2-Dichloropropane	U	U	1 ST
Bromodichloromethane	U	U	5 ST
cis-1,3-Dichloropropene	U	U	0.4 ST
4-Methyl-2-pentanone	U	U	--
Toluene	U	U	5 ST
trans-1,3-Dichloropropene	U	U	0.4 ST
1,1,2-Trichloroethane	U	U	1 ST
1,3-Dichloropropane	U	U	5 ST
Tetrachloroethene	**130**	U	5 ST
2-Hexanone	U	U	50 GV
Dibromochloromethane	U	U	50 GV
1,2-Dibromoethane	U	U	5 ST
Chlorobenzene	U	U	5 ST
1,1,1,2-Tetrachloroethane	U	U	5 ST
Ethylbenzene	U	U	5 ST
Xylene (total)	U	U	5 ST
Styrene	U	U	5 ST
Bromoform	U	U	50 GV
Isopropylbenzene	U	U	5 ST
1,1,2,2-Tetrachloroethane	U	U	5 ST
Bromobenzene	U	U	5 ST
1,2,3-Trichloropropane	U	U	0.04 ST
n-Propylbenzene	U	U	5 ST
2-Chlorotoluene	U	U	5 ST
1,3,5-Trimethylbenzene	U	U	5 ST
4-Chlorotoluene	U	U	5 ST
tert-Butylbenzene	U	U	5 ST
1,2,4-Trimethylbenzene	U	U	5 ST
sec-Butylbenzene	U	U	5 ST
4-Isopropyltoluene	U	U	5 ST
1,3-Dichlorobenzene	U	U	3 ST
1,4-Dichlorobenzene	U	U	3 ST
n-Butylbenzene	U	U	5 ST
1,2-Dichlorobenzene	U	U	3 ST
1,2-Dibromo-3-chloropropane	U	U	0.04 ST
1,2,4-Trichlorobenzene	U	U	5 ST
Hexachlorobutadiene	U	U	0.5 ST
Naphthalene	U	U	10 GV
1,2,3-Trichlorobenzene	U	U	5 ST
Total VOCs	306	14.7	

NOTES:

[ ] Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

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 EXTRACTION WELLS - INORGANIC COMPOUNDS AND GENERAL CHEMISTRY

SAMPLE ID	RW-1 INF	RW-2 INF	NYSDEC CLASS GA GROUNDWATER STANDARDS
SAMPLE TYPE	WATER	WATER	
DATE OF COLLECTION	6/24/2009	6/24/2009	
COLLECTED BY	D&B	D&B	
UNITS	(ug/L)	(ug/L)	(ug/L)
INORGANIC COMPOUNDS			
Aluminum	U	U	--
Antimony	3.0 J	U	3
Arsenic	U	U	25
Barium	17.3 J	23.6 J	1,000
Beryllium	U	U	--
Cadmium	U	0.89 J	5
Calcium	21,700	143,000	--
Chromium	U	U	--
Cobalt	0.40 J	0.63 J	--
Copper	4.1 J	20.7 J	200
Iron	76.9 J	**639**	300
Lead	U	3.9 J	25
Magnesium	3,950 JE	169,000 E	--
Manganese	**1,080 E**	**2,490 E**	300
Mercury	U	U	0.7
Nickel	U	U	100
Potassium	2,450 J	45,800	--
Selenium	U	U	10
Silver	U	U	50
Sodium	**26,800**	**1,570,000 D**	20,000
Thallium	U	U	--
Vanadium	U	U	--
Zinc	10.9 J	29.8 J	--
Iron and Manganese	**1,157**	**3,129**	500
GENERAL CHEMISTRY			
pH (S.U.)	**6.0**	**6.0**	6.5 - 8.5

NOTES:

Concentration exceeds NYSDEC Groundwater Standards

ABBREVIATIONS:

ug/L: Micrograms per liter
--: Not established

QUALIFIERS:

B: Analyte detected greater than IDL, but less than CRDL.
U: Compound analyzed for but not detected.
E: Compound concentration exceeds instrument calibration range, value estimated

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

SAMPLE ID	AS-MID	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L)
SAMPLE TYPE	WATER	
DATE OF COLLECTION	6/24/2009	
COLLECTED BY	D&B	
UNITS	(ug/L)	
VOCs		
Dichlorodifluoromethane	U	5 GV
Chloromethane	U	--
Vinyl chloride	U	2 ST
Bromomethane	U	5 ST
Chloroethane	U	5 ST
Trichlorofluoromethane	U	5 ST
1,1-Dichloroethene	U	5 ST
Acetone	U	50 GV
Iodomethane	U	--
Carbon disulfide	U	60 GV
Methylene chloride	U	5 ST
trans 1,2-Dichloroethene	U	5 ST
Methyl-tert butyl ether	3.2 J	10 GV
1,1-Dichloroethane	U	5 ST
Vinyl acetate	U	--
2-Butanone	U	50 GV
cis-1,2-Dichloroethene	3.1 J	5 ST
2,2-Dichloropropane	U	5 ST
Bromochloromethane	U	5 ST
Chloroform	U	7 ST
1,1,1-Trichloroethane	U	5 ST
1,1-Dichloropropene	U	5 ST
Carbon tetrachloride	U	5 ST
1,2-Dichloroethane	U	0.6 ST
Benzene	U	1 ST
Trichloroethene	U	5 ST
1,2-Dichloropropane	U	1 ST
Bromodichloromethane	U	5 ST
cis-1,3-Dichloropropene	U	0.4 ST
4-Methyl-2-pentanone	U	--
Toluene	U	5 ST
trans-1,3-Dichloropropene	U	0.4 ST
1,1,2-Trichloroethane	U	1 ST
1,3-Dichloropropane	U	5 ST
Tetrachloroethene	U	5 ST
2-Hexanone	U	50 GV
Dibromochloromethane	U	50 GV
1,2-Dibromoethane	U	5 ST
Chlorobenzene	U	5 ST
1,1,1,2-Tetrachloroethane	U	5 ST
Ethylbenzene	U	5 ST
Xylene (total)	U	5 ST
Styrene	U	5 ST
Bromoform	U	50 GV
Isopropylbenzene	U	5 ST
1,1,2,2-Tetrachloroethane	U	5 ST
Bromobenzene	U	5 ST
1,2,3-Trichloropropane	U	0.04 ST
n-Propylbenzene	U	5 ST
2-Chlorotoluene	U	5 ST
1,3,5-Trimethylbenzene	U	5 ST
4-Chlorotoluene	U	5 ST
tert-Butylbenzene	U	5 ST
1,2,4-Trimethylbenzene	U	5 ST
sec-Butylbenzene	U	5 ST
4-Isopropyltoluene	U	5 ST
1,3-Dichlorobenzene	U	3 ST
1,4-Dichlorobenzene	U	3 ST
n-Butylbenzene	U	5 ST
1,2-Dichlorobenzene	U	3 ST
1,2-Dibromo-3-chloropropane	U	0.04 ST
1,2,4-Trichlorobenzene	U	5 ST
Hexachlorobutadiene	U	0.5 ST
Naphthalene	U	10 GV
1,2,3-Trichlorobenzene	U	5 ST
Total VOCs	6.3	

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

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
ST: Standard Value
GV: Guidance Value

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	COMB EFF	NYSDEC Site Specific Effluent Limitation
SAMPLE TYPE	WATER	WATER	WATER	
DATE OF COLLECTION	4/24/2009	5/14/2009	6/24/2009	
COLLECTED BY	D&B	D&B	D&B	
UNITS	(ug/L)	(ug/L)	(ug/L)	
VOCs				(ug/L)
Dichlorodifluoromethane	U	U	U	NL
Chloromethane	U	U	U	NL
Vinyl chloride	U	U	U	10
Bromomethane	U	U	U	NL
Chloroethane	U	U	U	NL
Trichlorofluoromethane	U	U	U	NL
1,1-Dichloroethene	U	U	U	NL
Acetone	U	U	U	NL
Iodomethane	U	U	U	NL
Carbon disulfide	U	U	U	NL
Methylene chloride	U	U	U	NL
trans 1,2-Dichloroethene	U	U	U	10*
Methyl-tert butyl ether	U	1.6 J	1.5 J	NL
1,1-Dichloroethane	U	U	U	NL
Vinyl acetate	U	U	U	NL
2-Butanone	U	U	U	NL
cis-1,2-Dichloroethene	U	U	U	10*
2,2-Dichloropropane	U	U	U	NL
Bromochloromethane	U	U	U	NL
Chloroform	1.6 J	U	U	NL
1,1,1-Trichloroethane	U	U	U	5
1,1-Dichloropropene	U	U	U	NL
Carbon tetrachloride	U	U	U	NL
1,2-Dichloroethane	U	U	U	NL
Benzene	U	U	U	NL
Trichloroethene	U	U	U	10
1,2-Dichloropropane	U	U	U	NL
Bromodichloromethane	U	U	U	NL
cis-1,3-Dichloropropene	U	U	U	NL
4-Methyl-2-pentanone	U	U	U	NL
Toluene	U	U	U	NL
trans-1,3-Dichloropropene	U	U	U	NL
1,1,2-Trichloroethane	U	U	U	NL
1,3-Dichloropropane	U	U	U	NL
Tetrachloroethene	U	U	U	4
2-Hexanone	U	U	U	NL
Dibromochloromethane	U	U	U	NL
1,2-Dibromoethane	U	U	U	NL
Chlorobenzene	U	U	U	NL
1,1,1,2-Tetrachloroethane	U	U	U	NL
Ethylbenzene	U	U	U	NL
Xylene (total)	U	U	U	5**
Styrene	U	U	U	NL
Bromoform	U	U	U	NL
Isopropylbenzene	U	U	U	NL
1,1,2,2-Tetrachloroethane	U	U	U	NL
Bromobenzene	U	U	U	NL
1,2,3-Trichloropropane	U	U	U	NL
n-Propylbenzene	U	U	U	NL
2-Chlorotoluene	U	U	U	NL
1,3,5-Trimethylbenzene	U	U	U	NL
4-Chlorotoluene	U	U	U	NL
tert-Butylbenzene	U	U	U	NL
1,2,4-Trimethylbenzene	U	U	U	NL
sec-Butylbenzene	U	U	U	NL
4-Isopropyltoluene	U	U	U	NL
1,3-Dichlorobenzene	U	U	U	NL
1,4-Dichlorobenzene	U	U	U	NL
n-Butylbenzene	U	U	U	NL
1,2-Dichlorobenzene	U	U	U	NL
1,2-Dibromo-3-chloropropane	U	U	U	NL
1,2,4-Trichlorobenzene	U	U	U	NL
Hexachlorobutadiene	U	U	U	NL
Naphthalene	U	U	U	NL
1,2,3-Trichlorobenzene	U	U	U	NL
Total VOCs	U	U	U	

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

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

SAMPLE ID	COMB EFF	NYSDEC Site Specific Effluent Limitation
SAMPLE TYPE	WATER	
DATE OF COLLECTION	6/24/2009	
COLLECTED BY	D&B	
UNITS	(ug/L)	
INORGANIC COMPOUNDS		(ug/L)
Aluminum	U	4,000
Antimony	U	NL
Arsenic	U	140
Barium	18.3 B	NL
Beryllium	U	NL
Cadmium	0.44 J	30
Calcium	82,100	NL
Chromium	U	NL
Cobalt	0.42 J	NL
Copper	2.7 J	38
Iron	126	4,000
Lead	U	NL
Magnesium	90,200 E	NL
Manganese	1,260 E	2,000
Mercury	0.028 J	NL
Nickel	U	65
Potassium	24,200	NL
Selenium	U	NL
Silver	U	9
Sodium	761,000 D	NL
Thallium	U	NL
Vanadium	U	NL
Zinc	16.6 J	370
GENERAL CHEMISTRY		
pH (S.U.)	7.4	6 - 9

NOTES:

Concentration exceeds NYSDEC Site Specific Effluent Limitation

QUALIFIERS:

B: Concentration above IDL but less than CRDL.
U: Compound analyzed for but not detected.
E: Compound concentration exceeds instrument calibration

ABBREVIATIONS:

ug/L: Micrograms per liter
NL : No limit specified
NS: Not sampled

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
RESULTS OF SYSTEM EFFLUENT ANALYSIS - SEMI-ANNUAL PARAMETERS

SAMPLE ID	COMB EFF	NYSDEC Site Specific Effluent Limitation
SAMPLE TYPE	WATER	
DATE OF COLLECTION	6/24/2009	
COLLECTED BY	D&B	
WET CHEMISTRY		
Alkalinity, Total (mg/L $CaCO_3$)	--	NL
Total Dissolved Solids (mg/L)	3,000	Monitor
Total Suspended Solids (mg/L)	ND	20
pH (S.U.)	7.4	6 - 9
Chemical Oxygen Demand (mg/L)	ND	NL
FIELD TESTS		
pH (S.U.)	--	6 - 9
Temperature (^{o}C)	--	NL
Turbidity (NTU)	8.7	NL
Conductivity (uS)	5.96	NL
Dissolved Oxygen (mg/L)	6.84	NL
Total Chlorine (mg/L)	0.06	NL

ABBREVIATIONS:

ug/L: Micrograms per liter
mg/L: Milligrams per liter
uS: Microsemens
S.U.: Standard Units
NTU: Nephelometric Turbidity Units
NL - No limit specified
ND - Not detected

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
RESULTS OF ANALYSIS OF GROUNDWATER SAMPLING - VOLATILE ORGANIC COMPOUNDS (VOCS)

SAMPLE ID	MW-101	MW-102	MW-103	MW-104	MW-105	MW-106	MW-107	MW-108	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L)
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF COLLECTION	6/23/2009	6/23/2009	6/23/2009	6/23/2009	6/23/2009	6/23/2009	6/23/2009	6/23/2009	
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B	D&B	D&B	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
VOCs									
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	U	U	U	--
Vinyl chloride	U	U	U	U	U	20 J	U	U	2 ST
Bromomethane	U	U	U	U	U	U	U	U	5 ST
Chloroethane	U	U	U	U	U	U	U	U	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	U	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	U	U	5 ST
Acetone	U	U	U	U	U	U	U	U	50 GV
Iodomethane	U	U	U	U	U	U	U	U	--
Carbon disulfide	U	U	U	U	U	U	U	U	60 GV
Methylene chloride	U	U	U	U	U	U	1.2 J	U	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	U	U	5 ST
Methyl-tert butyl ether	U	U	U	U	U	U	U	U	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	U	U	5 ST
Vinyl acetate	U	U	U	U	U	U	U	U	--
2-Butanone	U	U	U	U	U	U	U	U	50 GV
cis-1,2-Dichloroethene	U	U	U	U	U	540	2.4 J	U	5 ST
2,2-Dichloropropane	U	U	U	U	U	U	U	U	5 ST
Bromochloromethane	U	U	U	U	U	U	U	U	5 ST
Chloroform	U	U	U	U	U	U	U	U	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	5 ST
1,1-Dichloropropene	U	U	U	U	U	U	U	U	5 ST
Carbon tetrachloride	U	U	U	U	U	U	U	U	5 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	0.6 ST
Benzene	U	U	U	U	U	U	U	U	1 ST
Trichloroethene	U	U	1.0 J	34 J	1.4 J	75	1.5 J	U	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	U	U	1 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	5 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	0.4 ST
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	--
Toluene	U	U	U	U	U	U	U	U	5 ST
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	0.4 ST
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	1 ST
1,3-Dichloropropane	U	U	U	U	U	U	U	U	5 ST
Tetrachloroethene	U	1.6 J	14	760	7.8	180	20	4.2 J	5 ST
2-Hexanone	U	U	U	U	U	U	U	U	50 GV
Dibromochloromethane	U	U	U	U	U	U	U	U	50 GV
1,2-Dibromoethane	U	U	U	U	U	U	U	U	5 ST
Chlorobenzene	U	U	U	U	U	U	U	U	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	U	U	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	5 ST
Xylene (total)	U	U	U	U	U	U	U	U	5 ST
Styrene	U	U	U	U	U	U	U	U	5 ST
Bromoform	U	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	U	U	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	5 ST
Bromobenzene	U	U	U	U	U	U	U	U	5 ST
1,2,3-Trichloropropane	U	U	U	U	U	U	U	U	0.04 ST
n-Propylbenzene	U	U	U	U	U	U	U	U	5 ST
2-Chlorotoluene	U	U	U	U	U	U	U	U	5 ST
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	U	5 ST
4-Chlorotoluene	U	U	U	U	U	U	U	U	5 ST
tert-Butylbenzene	U	U	U	U	U	U	U	U	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	U	5 ST
sec-Butylbenzene	U	U	U	U	U	U	U	U	5 ST
4-Isopropyltoluene	U	U	U	U	U	U	U	U	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	3 ST
n-Butylbenzene	U	U	U	U	U	U	U	U	5 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	U	U	0.5 ST
Naphthalene	U	U	U	U	U	U	U	U	10 GV
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	U	5 ST
Total VOCs	0	1.6	15	794	9.2	815	25.1	4.2	
GENERAL CHEMISTRY									
pH (S.U.)	6.5	6.5	6.4	6.4	6.4	6.6	6.7	6.3	6 - 9

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

(1) - Sample analyzed at a dilution of 25:1.
(2) - Sample analyzed at a dilution of 2.5:1.
(3) - Sample analyzed at a dilution of 4:1.

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 ANALYSIS OF GROUNDWATER SAMPLING - VOLATILE ORGANIC COMPOUNDS (VOCS)

SAMPLE ID	MW-109	MW-110[3]	MW-111	MW-2S					NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L)
SAMPLE TYPE	WATER	WATER	WATER	WATER					
DATE OF COLLECTION	6/23/2009	6/23/2009	6/23/2009	6/23/2009					
COLLECTED BY	D&B	D&B	D&B	D&B					
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)					
VOCs									
Dichlorodifluoromethane	U		U	U					5 GV
Chloromethane	U		U	U					--
Vinyl chloride	U		U	2.2 J					2 ST
Bromomethane	U		U	U					5 ST
Chloroethane	U		U	U					5 ST
Trichlorofluoromethane	U		U	U					5 ST
1,1-Dichloroethene	U		U	U					5 ST
Acetone	U		U	U					50 GV
Iodomethane	U		U	U					--
Carbon disulfide	U		U	U					60 GV
Methylene chloride	U		U	U					5 ST
trans 1,2-Dichloroethene	U		U	1.6 J					5 ST
Methyl-tert butyl ether	2.1 J		U	U					10 GV
1,1-Dichloroethane	1.2 J		U	U					5 ST
Vinyl acetate	U		U	U					--
2-Butanone	U		U	U					50 GV
cis-1,2-Dichloroethene	2.1 J		U	220 D					5 ST
2,2-Dichloropropane	U		U	U					5 ST
Bromochloromethane	U		U	U					5 ST
Chloroform	U		U	U					7 ST
1,1,1-Trichloroethane	U		U	U					5 ST
1,1-Dichloropropene	U		U	U					5 ST
Carbon tetrachloride	U		U	U					5 ST
1,2-Dichloroethane	U		U	U					0.6 ST
Benzene	U		U	U					1 ST
Trichloroethene	1.6 J		U	2.3 J					5 ST
1,2-Dichloropropane	U		U	U					1 ST
Bromodichloromethane	U		U	U					5 ST
cis-1,3-Dichloropropene	U		U	U					0.4 ST
4-Methyl-2-pentanone	U		U	U					--
Toluene	U		U	U					5 ST
trans-1,3-Dichloropropene	U		U	U					0.4 ST
1,1,2-Trichloroethane	U		U	U					1 ST
1,3-Dichloropropane	U		U	U					5 ST
Tetrachloroethene	2.3 J		U	2.6 J					5 ST
2-Hexanone	U		U	U					50 GV
Dibromochloromethane	U		U	U					50 GV
1,2-Dibromoethane	U		U	U					5 ST
Chlorobenzene	U		U	U					5 ST
1,1,1,2-Tetrachloroethane	U		U	U					5 ST
Ethylbenzene	U		U	U					5 ST
Xylene (total)	U		U	U					5 ST
Styrene	U		U	U					5 ST
Bromoform	U		U	U					50 GV
Isopropylbenzene	U		U	U					5 ST
1,1,2,2-Tetrachloroethane	U		U	U					5 ST
Bromobenzene	U		U	U					5 ST
1,2,3-Trichloropropane	U		U	U					0.04 ST
n-Propylbenzene	U		U	U					5 ST
2-Chlorotoluene	U		U	U					5 ST
1,3,5-Trimethylbenzene	U		U	U					5 ST
4-Chlorotoluene	U		U	U					5 ST
tert-Butylbenzene	U		U	U					5 ST
1,2,4-Trimethylbenzene	U		U	U					5 ST
sec-Butylbenzene	U		U	U					5 ST
4-Isopropyltoluene	U		U	U					5 ST
1,3-Dichlorobenzene	U		U	U					3 ST
1,4-Dichlorobenzene	U		U	U					3 ST
n-Butylbenzene	U		U	U					5 ST
1,2-Dichlorobenzene	U		U	U					3 ST
1,2-Dibromo-3-chloropropane	U		U	U					0.04 ST
1,2,4-Trichlorobenzene	U		U	U					5 ST
Hexachlorobutadiene	U		U	U					0.5 ST
Naphthalene	U		U	U					10 GV
1,2,3-Trichlorobenzene	U		U	U					5 ST
Total VOCs	9.3		U	228.7					
GENERAL CHEMISTRY									
pH (S.U.)	6.0		6.2	6.0					6 - 9

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

(3) - Monitoring well MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

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 ANALYSIS OF VAPOR PHASE CARBON VESSEL (VPCV) INFLUENT - VOLATILE ORGANIC COMPOUNDS (VOCs)

SAMPLE ID	VPCV-INF	VPCV-INF	VPCV-INF
SAMPLE TYPE	AIR	AIR	AIR
DATE OF COLLECTION	4/24/2009	5/14/2009	6/24/2009
COLLECTED BY	D&B	D&B	D&B
UNITS	(ug/m^3)	(ug/m^3)	(ug/m^3)
VOCs			
Acetone	U	4.4 B	9.0
Benzene	2.5	0.13	0.5
Benzyl Chloride	U	U	U
Bromodichloromethane	U	U	U
Bromoform	U	U	U
Bromomethane	U	U	U
1,3-Butadiene	U	U	U
2-Butanone (MEK)	1.9	0.87	4.7
Carbon Disulfide	U	U	57
Carbon Tetrachloride	U	0.10	U
Chlorobenzene	1.3	0.33	0.8
Chlorodibromomethane	U	U	U
Chloroethane	U	U	U
Chloroform	0.95	0.25	0.8
Chloromethane	1.4	0.67	1.1
Cyclohexane	2.0	U	U
1,2-Dibromoethane	U	U	U
1,2-Dichlorobenzene	2.3	0.44	1.2
1,3-Dichlorobenzene	0.77	0.21	U
1,4-Dichlorobenzene	2.3	0.37	1.1
Dichlorodifluoromethane	2.8	0.59	2.3
1,1-Dichloroethane	10	2.0	3.8
1,2-Dichloroethane	U	U	U
1,1-Dichloroethylene	1.7	0.4	1.4
cis-1,2-Dichloroethylene	190	70	350
t-1,2-Dichloroethylene	2.0	0.54	2.4
1,2-Dichloropropane	U	U	U
cis-1,3-Dichloropropene	U	U	U
trans-1,3-Dichloropropene	U	U	U
1,2-Dichlorotetrafluoroethane (114)	U	U	U
Ethanol	4.5	2.5 B	5.7
Ethyl Acetate	U	U	U
Ethylbenzene	1.6	U	U
4-Ethyl Toluene	0.80	U	U
n-Heptane	2.2	U	U
Hexachlorobutadiene	U	U	U
Hexane	5.2	U	1.1
2-Hexanone	U	0.19	U
Isopropanol	0.57	1.2	0.7
Methyl tert-Butyl Ether (MTBE)	36	5.9	19
Methylene Chloride	2.0	1.1 B	6.3
4-Methyl-2-Pentanone (MIBK)	U	U	U
Propene	4.9	U	U
Styrene	U	U	U
1,1,2,2-Tetrachloroethane	U	U	U
Tetrachloroethylene	580	160	740
Tetrahydrofuran	U	U	U
Toluene	9.6	0.16	2.9
1,2,4-Trichlorobenzene	U	U	U
1,1,1-Trichloroethane	6.7	1.0	1.8
1,1,2-Trichloroethane	U	U	U
Trichloroethylene	130	69	220
Trichlorofluoromethane	1.3	0.28	1.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	U	U	U
1,2,4-Trimethylbenzene	3.0	0.23	1.6 U
1,3,5-Trimethylbenzene	1.4	U	U
Vinyl Acetate	U	U	U
Vinyl Chloride	3.6	2.1	2.2
m/p-Xylene	5.8	U	1.3
o-Xylene	3.0	U	0.6
Total VOCs	946	325	1,441

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

QUALIFIERS:
U: Compound analyzed for but not detected.
J: Analyte detected at or below quantitation limits

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

SAMPLE ID	VPCV-MID	VPCV-MID	VPCV-MID
SAMPLE TYPE	AIR	AIR	AIR
DATE OF COLLECTION	4/24/2009	5/14/2009	6/24/2009
COLLECTED BY	D&B	D&B	D&B
UNITS	(ug/m^3)	(ug/m^3)	(ug/m^3)
VOCs			
Acetone	4.4	1.5	4.4
Benzene	U	U	U
Benzyl Chloride	U	U	U
Bromodichloromethane	U	U	U
Bromoform	U	U	U
Bromomethane	U	U	U
1,3-Butadiene	U	U	U
2-Butanone (MEK)	1.1	0.27	1.3
Carbon Disulfide	U	0.11	U
Carbon Tetrachloride	U	U	U
Chlorobenzene	U	U	U
Chlorodibromomethane	U	U	U
Chloroethane	U	U	U
Chloroform	1.1	0.14	1.2
Chloromethane	1.4	0.42	1.1
Cyclohexane	U	U	U
1,2-Dibromoethane	U	U	U
1,2-Dichlorobenzene	U	U	U
1,3-Dichlorobenzene	U	U	U
1,4-Dichlorobenzene	U	U	U
Dichlorodifluoromethane	3.0	0.56	2.8
1,1-Dichloroethane	12	1.5	9.9
1,2-Dichloroethane	U	U	U
1,1-Dichloroethylene	2.4	0.39	3.5
cis-1,2-Dichloroethylene	240	41	280
t-1,2-Dichloroethylene	2.7	0.34	2.9
1,2-Dichloropropane	U	U	U
cis-1,3-Dichloropropene	U	U	U
trans-1,3-Dichloropropene	U	U	U
1,2-Dichlorotetrafluoroethane (114)	U	U	U
Ethanol	2.0	0.84 B	2.0
Ethyl Acetate	U	U	U
Ethylbenzene	U	U	U
4-Ethyl Toluene	U	U	U
n-Heptane	U	U	U
Hexachlorobutadiene	U	U	U
Hexane	U	U	U
2-Hexanone	U	U	U
Isopropanol	1.0	0.18	U
Methyl tert-Butyl Ether (MTBE)	15	0.95	5.4
Methylene Chloride	2.4	1.0 B	4.2
4-Methyl-2-Pentanone (MIBK)	U	U	U
Propene	U	U	U
Styrene	U	U	U
1,1,2,2-Tetrachloroethane	U	U	U
Tetrachloroethylene	17	0.56	4.5
Tetrahydrofuran	U	U	U
Toluene	U	U	U
1,2,4-Trichlorobenzene	U	U	U
1,1,1-Trichloroethane	6.0	0.70	3.2
1,1,2-Trichloroethane	U	U	U
Trichloroethylene	61	7.1	48
Trichlorofluoromethane	1.3	0.19	1.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	U	U	U
1,2,4-Trimethylbenzene	0.72	U	U
1,3,5-Trimethylbenzene	U	U	U
Vinyl Acetate	U	U	U
Vinyl Chloride	4.1	2.1	6.3
m/p-Xylene	U	U	U
o-Xylene	U	U	U
Total VOCs	345	60	382

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

QUALIFIERS:
U: Compound analyzed for but not detected.
J: Analyte detected at or below quantitation limits

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	VPCV-EFF
SAMPLE TYPE	AIR	AIR	AIR
DATE OF COLLECTION	4/24/2009	5/14/2009	6/24/2009
COLLECTED BY	D&B	D&B	D&B
UNITS	(ug/m^3)	(ug/m^3)	(ug/m^3)
VOCs			
Acetone	7.5	4.0 B	6.9
Benzene	U		U
Benzyl Chloride	U		U
Bromodichloromethane	U		U
Bromoform	U		U
Bromomethane	U		U
1,3-Butadiene	U		U
2-Butanone (MEK)	1.5	0.79	2.3
Carbon Disulfide	U	0.17	U
Carbon Tetrachloride	U		U
Chlorobenzene	U		U
Chlorodibromomethane	U		U
Chloroethane	U		U
Chloroform	0.8		0.58
Chloromethane	1.4	0.53	1.1
Cyclohexane	U		U
1,2-Dibromoethane	U		U
1,2-Dichlorobenzene	U		U
1,3-Dichlorobenzene	U		U
1,4-Dichlorobenzene	U		U
Dichlorodifluoromethane	3.1	0.55	3.0
1,1-Dichloroethane	9.5	0.57	6.6
1,2-Dichloroethane	U		U
1,1-Dichloroethylene	2.1	1.4	3
cis-1,2-Dichloroethylene	220	16	160
t-1,2-Dichloroethylene	2.3	0.15	1.6
1,2-Dichloropropane	U		U
cis-1,3-Dichloropropene	U		U
trans-1,3-Dichloropropene	U		U
1,2-Dichlorotetrafluoroethane (114)	U		U
Ethanol	2.6	2.3 B	3.4
Ethyl Acetate	U		U
Ethylbenzene	U		U
4-Ethyl Toluene	U		U
n-Heptane	U		U
Hexachlorobutadiene	U		U
Hexane	U	0.12	U
2-Hexanone	U	0.13	0.46
Isopropanol	32	5.1	0.64
Methyl tert-Butyl Ether (MTBE)	6.3	0.12	0.97
Methylene Chloride	3.1	1.4 B	4.8
4-Methyl-2-Pentanone (MIBK)	U		U
Propene	U		U
Styrene	U		U
1,1,2,2-Tetrachloroethane	U		U
Tetrachloroethylene	1.4	0.17	1.4
Tetrahydrofuran	U		U
Toluene	U		U
1,2,4-Trichlorobenzene	U		U
1,1,1-Trichloroethane	3.6	0.18	1.2
1,1,2-Trichloroethane	U		U
Trichloroethylene	9.2	0.39	3.7
Trichlorofluoromethane	1.3	0.24	1.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	U		U
1,2,4-Trimethylbenzene	0.93		U
1,3,5-Trimethylbenzene	U		U
Vinyl Acetate	U		U
Vinyl Chloride	3.7	0.98	6.3
m/p-Xylene	U		U
o-Xylene	U		U
Total VOCs	312	35	209

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

QUALIFIERS:
U: Compound analyzed for but not detected.
J: Analyte detected at or below quantitation limits

ACTIVE INDUSTRIAL UNIFORM SITE
NYSDEC SITE No. 1-52-125
SUMMARY OF VAPOR EMISSION RATES

Vapor Phase Carbon Vessel Effluent (VPCV-EFF) Sample Collection Date: April 24, 2009

Compound Detected [1]	Concentration (ug/m^3)	Flow Rate (ft^3/min)	Emission Rate (lbs/hr)	NYSDEC Required Effluent Limits (lbs/hr)	Percentage of NYSDEC Permitted Effluent Limits Detected
Acetone	7.5	955	2.7E-05	NL	--
2-Butanone (MEK)	1.5	955	5.4E-06	NL	--
Chloroform	0.8	955	2.9E-06	NL	--
Chloromethane	1.4	955	5.0E-06	NL	--
Dichlorodifluoromethane	3.1	955	1.1E-05	NL	--
1,1-Dichloroethane	9.5	955	3.4E-05	NL	--
1,1-Dichloroethylene	2.1	955	7.5E-06	NL	--
1,2-Dichloroethylene (total)	222.3	955	8.0E-04	3.0E-03	26.5%
Ethanol	2.6	955	9.3E-06	NL	--
Isopropanol	32	955	1.1E-04	NL	--
Methyl tert-Butyl Ether (MTBE)	6.3	955	2.3E-05	NL	--
Methylene Chloride	3.1	955	1.1E-05	NL	--
Tetrachloroethylene	1.4	955	5.0E-06	7.0E-03	0.1%
1,1,1-Trichloroethane	3.6	955	1.3E-05	NL	--
Trichloroethylene	9.2	955	3.3E-05	6.0E-03	0.5%
Trichlorofluoromethane	1.3	955	4.7E-06	NL	--
1,2,4-Trimethylbenzene	0.93	955	3.3E-06	NL	--
Vinyl Chloride	3.7	955	1.3E-05	1.4E-02	0.1%
Total VOCs	312	955	1.1E-03	5.0E-01	0.2%

Vapor Phase Carbon Vessel Effluent (VPCV-EFF) Sample Collection Date: May 14, 2009

Compound Detected [1]	Concentration (ug/m^3)	Flow Rate (ft^3/min)	Emission Rate (lbs/hr)	NYSDEC Required Effluent Limits (lbs/hr)	Percentage of NYSDEC Permitted Effluent Limits Detected
Acetone	4	1,033	1.5E-05	NL	--
2-Butanone (MEK)	0.79	1,033	3.1E-06	NL	--
Carbon Disulfide	0.17	1,033	6.6E-07	NL	--
Chloromethane	0.53	1,033	2.1E-06	NL	--
Dichlorodifluoromethane	0.55	1,033	2.1E-06	NL	--
1,1-Dichloroethane	0.57	1,033	2.2E-06	NL	--
1,1-Dichloroethylene	1.4	1,033	5.4E-06	NL	--
1,2-Dichloroethylene (total)	16.15	1,033	6.3E-05	3.0E-03	2.1%
Ethanol	2.3	1,033	8.9E-06	NL	--
Hexane	0.12	1,033	4.6E-07	NL	--
2-Hexanone	0.13	1,033	5.0E-07	NL	--
Isopropanol	5.1	1,033	2.0E-05	NL	--
Methyl tert-Butyl Ether (MTBE)	0.12	1,033	4.6E-07	NL	--
Methylene Chloride	1.4	1,033	5.4E-06	NL	--
Tetrachloroethylene	0.17	1,033	6.6E-07	7.0E-03	0.0%
1,1,1-Trichloroethane	0.18	1,033	7.0E-07	1.0E-03	0.1%
Trichloroethylene	0.39	1,033	1.5E-06	6.0E-03	0.0%
Trichlorofluoromethane	0.24	1,033	9.3E-07	NL	--
Vinyl Chloride	0.98	1,033	3.8E-06	1.4E-02	0.0%
Total VOCs	35.3	1,033	1.4E-04	5.0E-01	0.0%

Vapor Phase Carbon Vessel Effluent (VPCV-EFF) Sample Collection Date: June 24, 2009

Compound Detected [1]	Concentration (ug/m^3)	Flow Rate (ft^3/min)	Emission Rate (lbs/hr)	NYSDEC Required Effluent Limits (lbs/hr)	Percentage of NYSDEC Permitted Effluent Limits Detected
1,1,1-Trichloroethane	1.20	1,036	4.7E-06	1.0E-03	0.5%
1,1-Dichloroethane	6.60	1,036	2.6E-05	NL	--
1,1-Dichloroethylene	2.70	1,036	1.0E-05	NL	--
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.60	1,036	6.2E-06	NL	--
2- Butanone (MEK)	2.30	1,036	8.9E-06	NL	--
2-Hexanone	0.46	1,036	1.8E-06	NL	--
Acetone	6.90	1,036	2.7E-05	NL	--
Chloroform	0.58	1,036	2.3E-06	NL	--
Chloromethane	1.10	1,036	4.3E-06	NL	--
cis-1,2-Dichloroethylene	160	1,036	6.2E-04	3.0E-03	20.7%
Dichlorodifluoromethane	3.00	1,036	1.2E-05	NL	--
Ethanol	3.40	1,036	1.3E-05	NL	--
Isoproponol	0.64	1,036	2.5E-06	NL	--
Methyl tert-Butyl Ether (MTBE)	0.97	1,036	3.8E-06	NL	--
Methylene Chloride	4.80	1,036	1.9E-05	NL	--
Tetrachloroethylene	1.40	1,036	5.4E-06	7.0E-03	0.1%
Trichloroethylene	3.70	1,036	1.4E-05	6.0E-03	0.2%
Trichlorofluoromethane	1.50	1,036	5.8E-06	NL	--
Vinyl chloride	6.30	1,036	2.4E-05	1.4E-02	0.2%
Total VOCs	209.15	1,036	8.1E-04	5.0E-01	0.2%

NOTES:

1. Only detected compounds are listed. All other VOCs were undetected during this sampling event.

Concentration exceeds NYSDEC permitted effluent limits

ABBREVIATIONS:

NL - No limit specified in permit application
ug/m^3 - Micrograms per cubic meter
ft^3/min - Cubic feet per minute
lbs/hr - Pounds per hour

ATTACHMENT I

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)
4/19/2005	79.80 (RW-1) 0.00 (RW-2)	562	3 J	99.47%	2.24E-02	444	808.15
5/16/2005	77.67 (RW-1) 0.00 (RW-2)	636	< 5.0	99.21%	2.47E-02	644	824.08
6/20/2005	75.85 (RW-1) 0.00 (RW-2)	693	< 5.0	99.28%	2.63E-02	1083	852.56 (2)
7/25/05 (3)	69.61 (RW-1) 82.32 (RW-2)	378	< 5.0	98.68%	2.87E-02	576 (RW-1) 464 (RW-2)	867.36
8/30/05 (3)	70.25 (RW-1) 83.00 (RW-2)	277	< 5.0	98.19%	2.12E-02	599 (RW-1) 599 (RW-2)	880.08
9/30/05 (3)	68.70 (RW-1) 82.50 (RW-2)	535	< 5.0	99.07%	4.05E-02	755 (RW-1) 460 (RW-2)	904.13 (2)
10/24/2005	67.10 (RW-1) 82.70 (RW-2)	397	< 5.0	98.74%	2.97E-02	559 (RW-1) 559 (RW-2)	920.76
11/21/2005	63.83 (RW-1) 81.58 (RW-2)	464	< 5.0	98.92%	3.37E-02	669 (RW-1) 669 (RW-2)	943.35
12/19/2005	63.82 (RW-1) 80.60 (RW-2)	244	< 5.0	97.95%	1.76E-02	969 (RW-1) 969 (RW-2)	960.44 (2)
1/24/2006	63.00 (RW-1) 78.85 (RW-2)	258	< 5.0	98.06%	1.83E-02	566 (RW-1) 566 (RW-2)	970.79
2/24/2006	67.00 (RW-1) 79.00 (RW-2)	390	< 5.0	98.72%	2.85E-02	673 (RW-1) 442 (RW-2)	989.97
3/22/2006	66.55 (RW-1) 0.00 (RW-2)	540	< 5.0	99.07%	1.80E-02	848 (RW-1) 0 (RW-2)	1,005.21 (2)
4/14/2006	65.46 (RW-1) 0.00 (RW-2)	560	< 5.0	99.11%	1.83E-02	395 (RW-1) 0 (RW-2)	1,012.46
5/23/2006	64.27 (RW-1) 0.00 (RW-2)	223	< 5.0	97.76%	7.17E-03	423 (RW-1) 0 (RW-2)	1,015.49
6/22/2006	64.76 (RW-1) 0.00 (RW-2)	567	< 5.0	99.12%	1.84E-02	918 (RW-1) 0 (RW-2)	1,032.35 (2)
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 (6)	< 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%	1.30E-02	157 (RW-1) 157 (RW-2)	1,202.25

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. Extraction well RW-2 restarted on 7/5/05 @16:20. Mass removal rates reflect operation of both extraction wells RW-1 and RW-2.
4. Performance results for the reporting period are shaded.
5. COMB-INF result approximated as average of 3/16/07 and 7/12/07 results due to laboratory reporting error.

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

ATTACHMENT J

MW-2S SAMPLING RESULTS

Table 4.3: Groundwater VOC Results

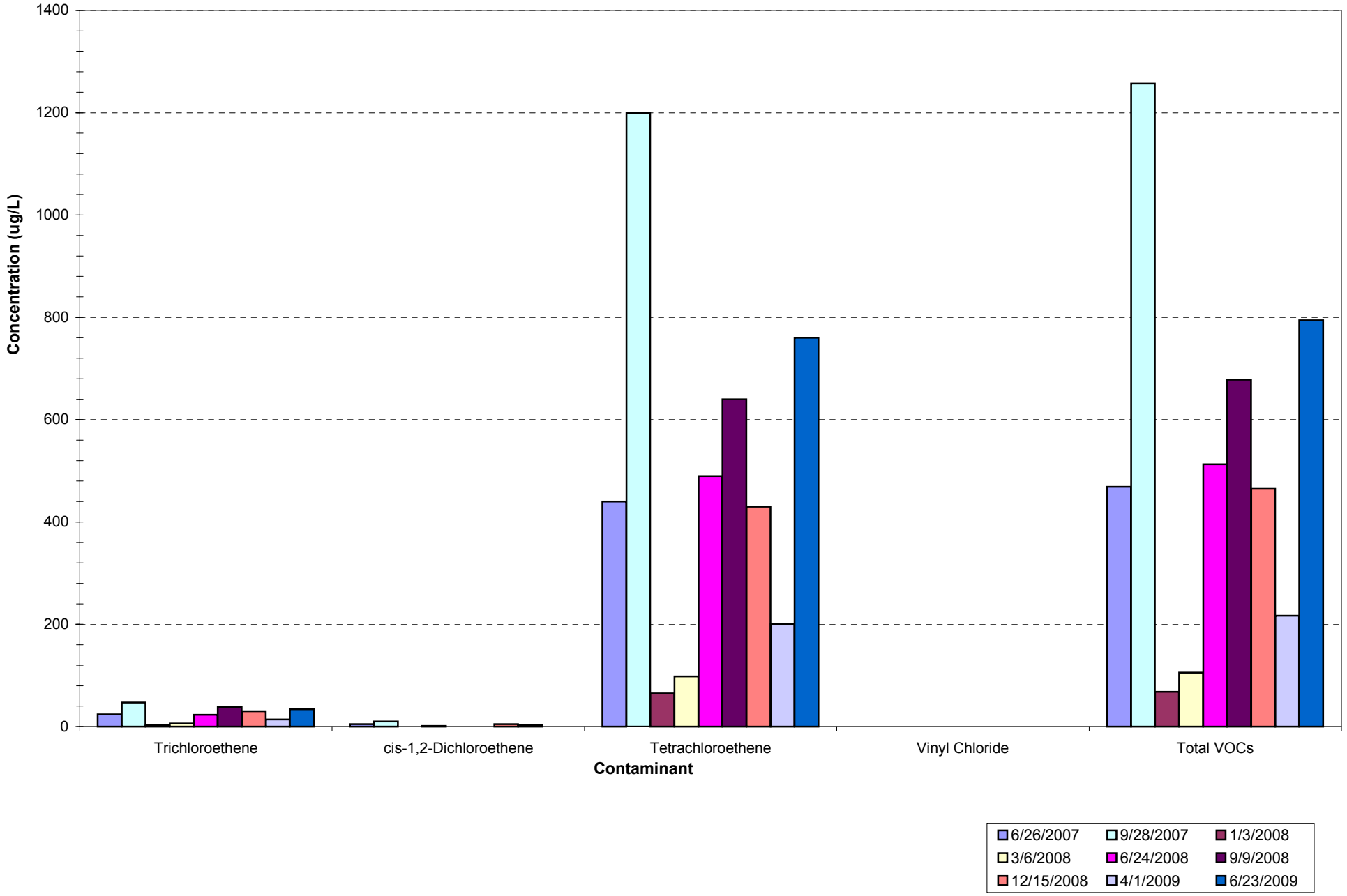
Location	MW-101		MW-104		MW-104		MW-106		MW-107		MW-108		MW-2S		DP-08	
Sample Date	11/28/2007		11/28/2007		11/28/2007		11/27/2007		11/27/2007		11/28/2007		11/28/2007		1/23/2008	
Sample ID	AIMW101		AIMW104		AIMW104DUP		AIMW106		AIMW107		AIMW108		AIMW2S		AIGW08	
QC Code	FS		FS		FD		FS		FS		FS		FS		FS	
Parameter	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cis-1,2-Dichloroethene	5	U	5	U	5	U	**260**		5	U	5	U	**530**	J	5	U
Tetrachloroethene	5	UJ	**77**	J	**74**	J	**64**	J	5	UJ	5	UJ	**120**	J	5	U
trans-1,2-Dichloroethene	5	U	5	U	5	U	**2**	J	5	U	5	U	**5**	J	5	U
Trichloroethene	5	U	**3**	J	**4**	J	**23**		5	U	5	U	**110**	J	5	U
Vinyl chloride	5	U	5	U	5	U	**4**	J	5	U	5	U	25	U	5	U

Notes:
Results in microgram per liter (µg/L)
Only detected compounds shown.
Samples analyzed for VOCs by EPA Method 8260B
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
J = Estimated value
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance values and Groundwater Effluent Limitations (NYSDEC, 1998).
Detections are indicated in **BOLD**
Highlighted results exceed criteria

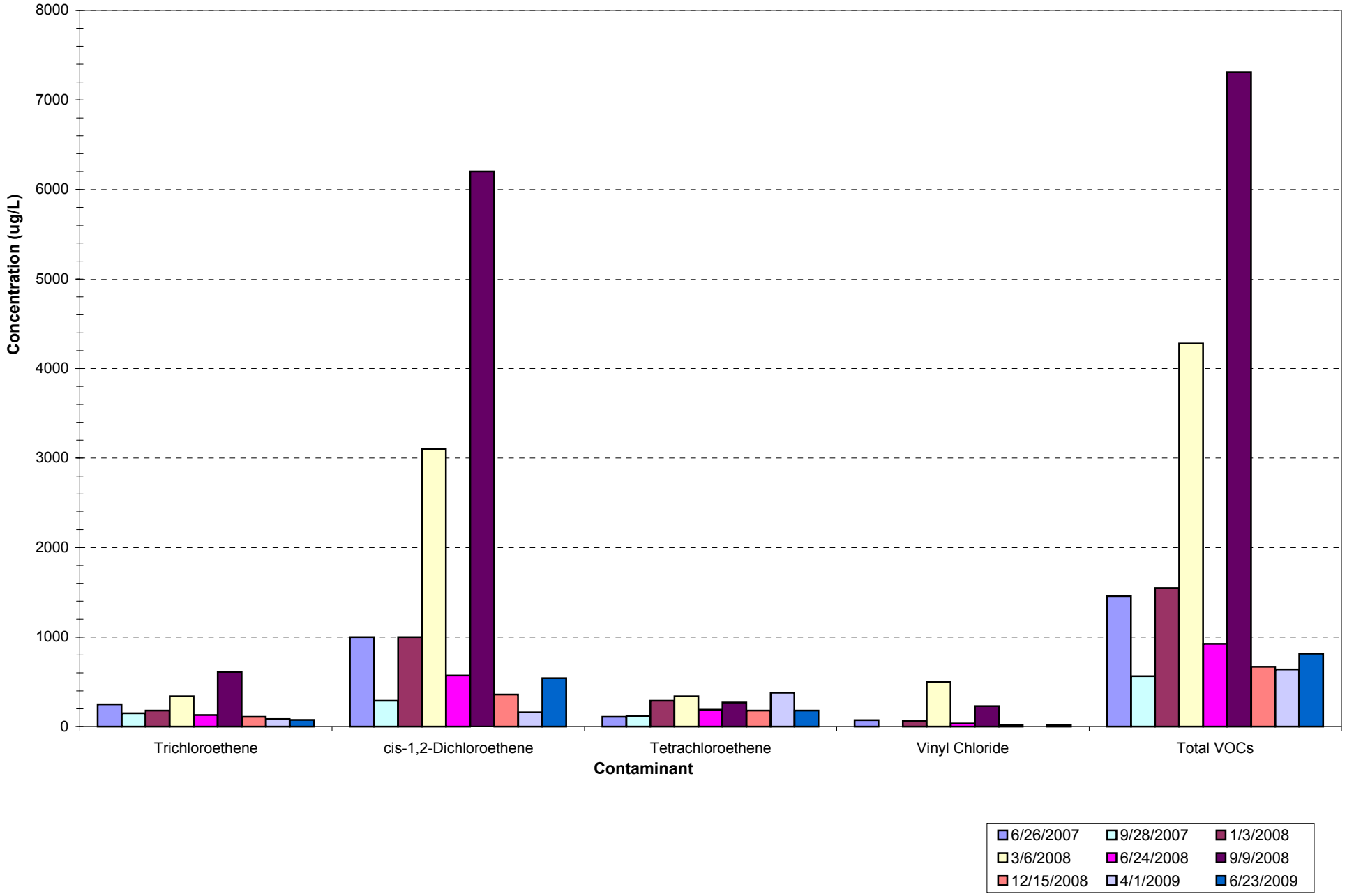
ATTACHMENT K

MONITORING WELL TREND BAR GRAPHS

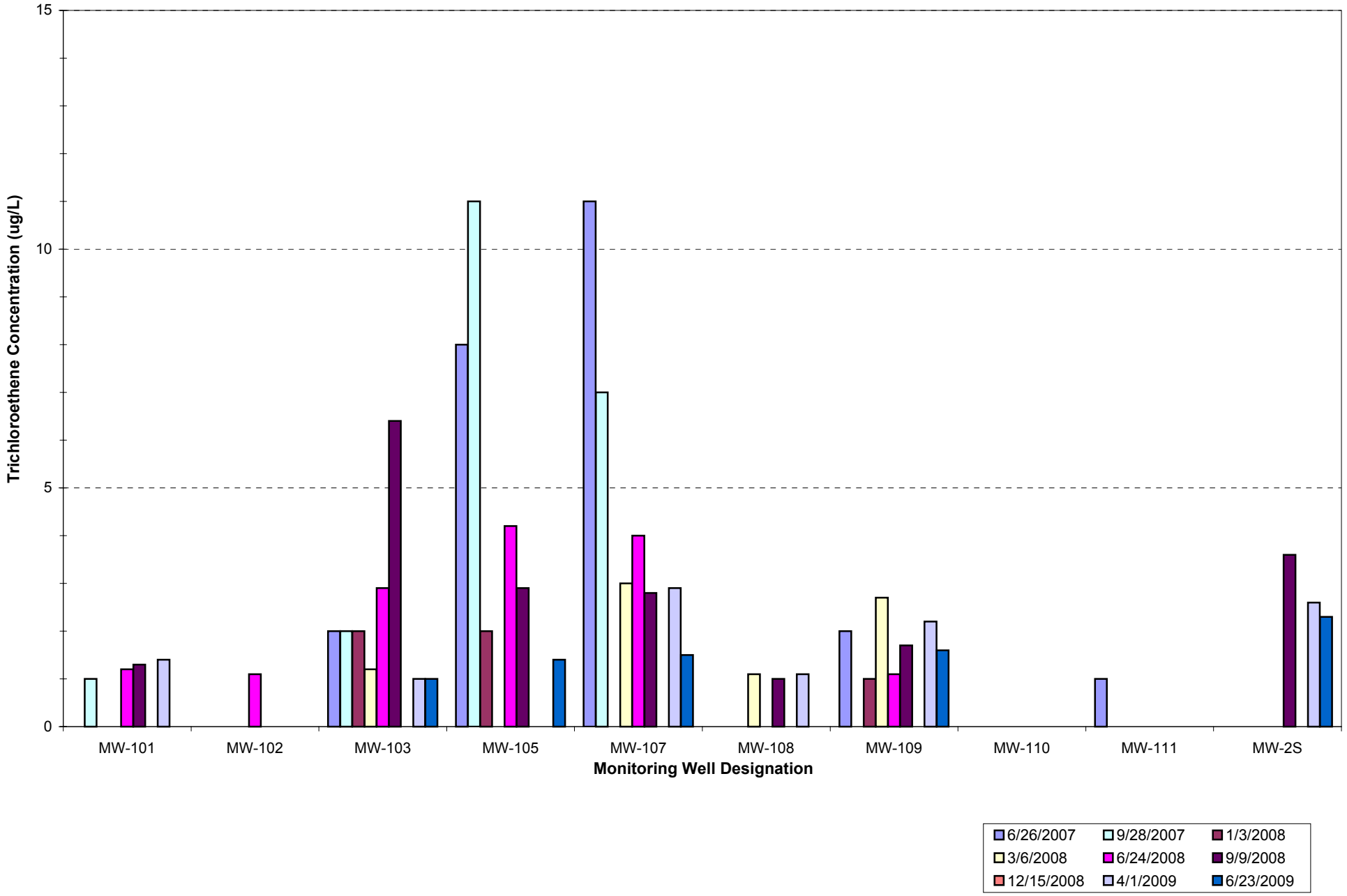
Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Summary of Groundwater Sampling Results - MW-104



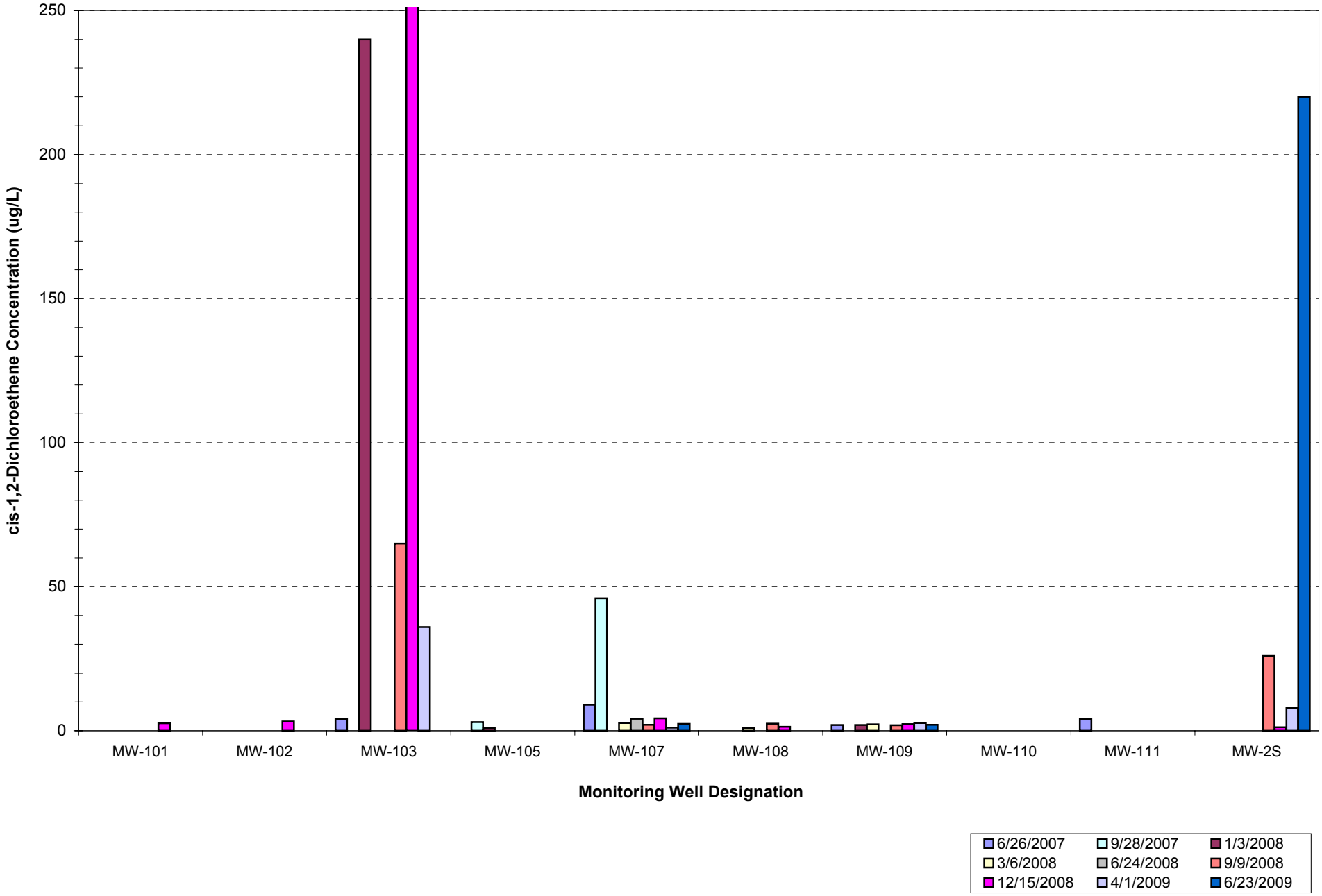
Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Summary of Groundwater Sampling Results - MW-106



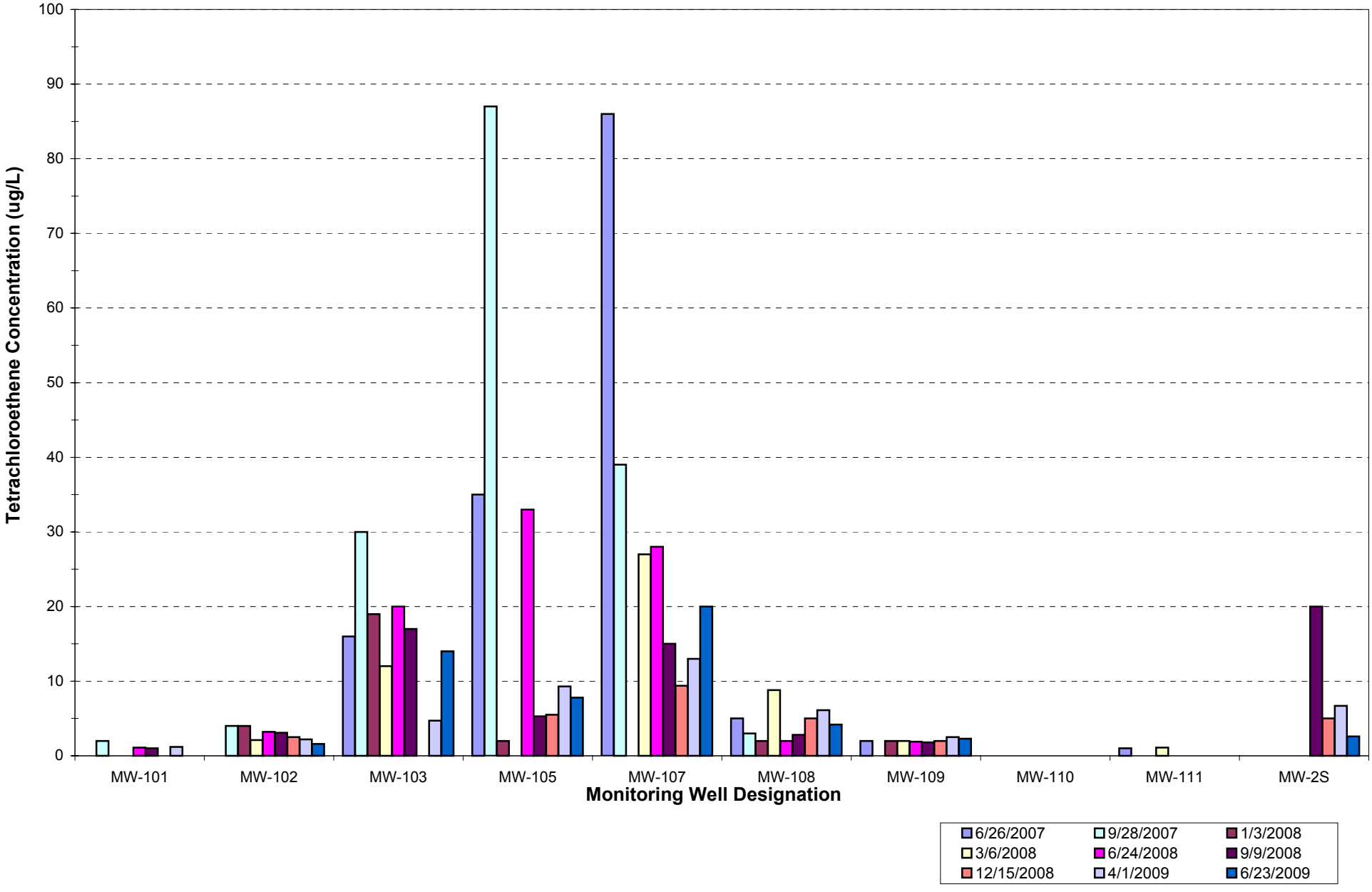
Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Summary of Groundwater Sampling Results - Trichloroethene



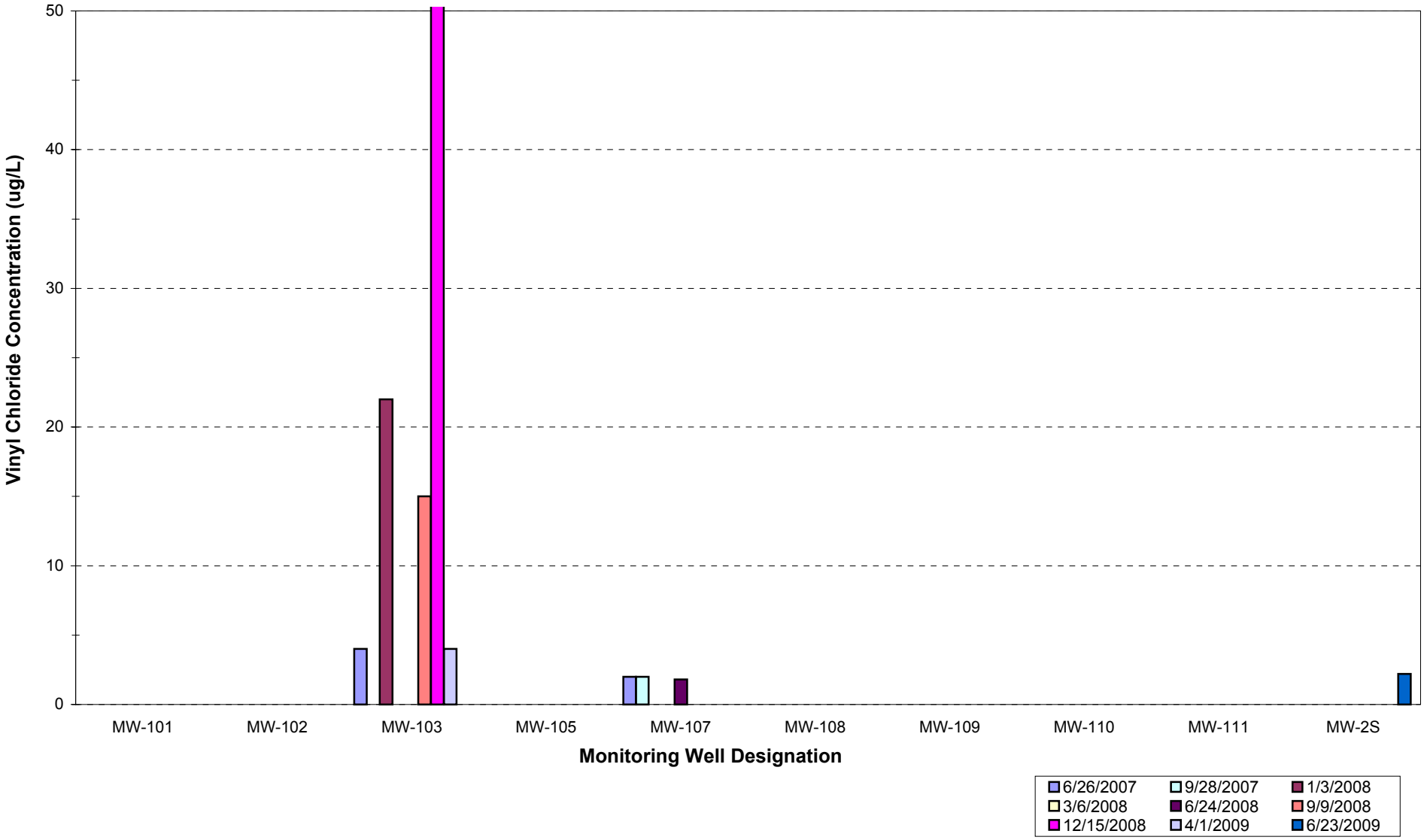
Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Summary of Groundwater Sampling Results - cis-1,2-Dichloroethene



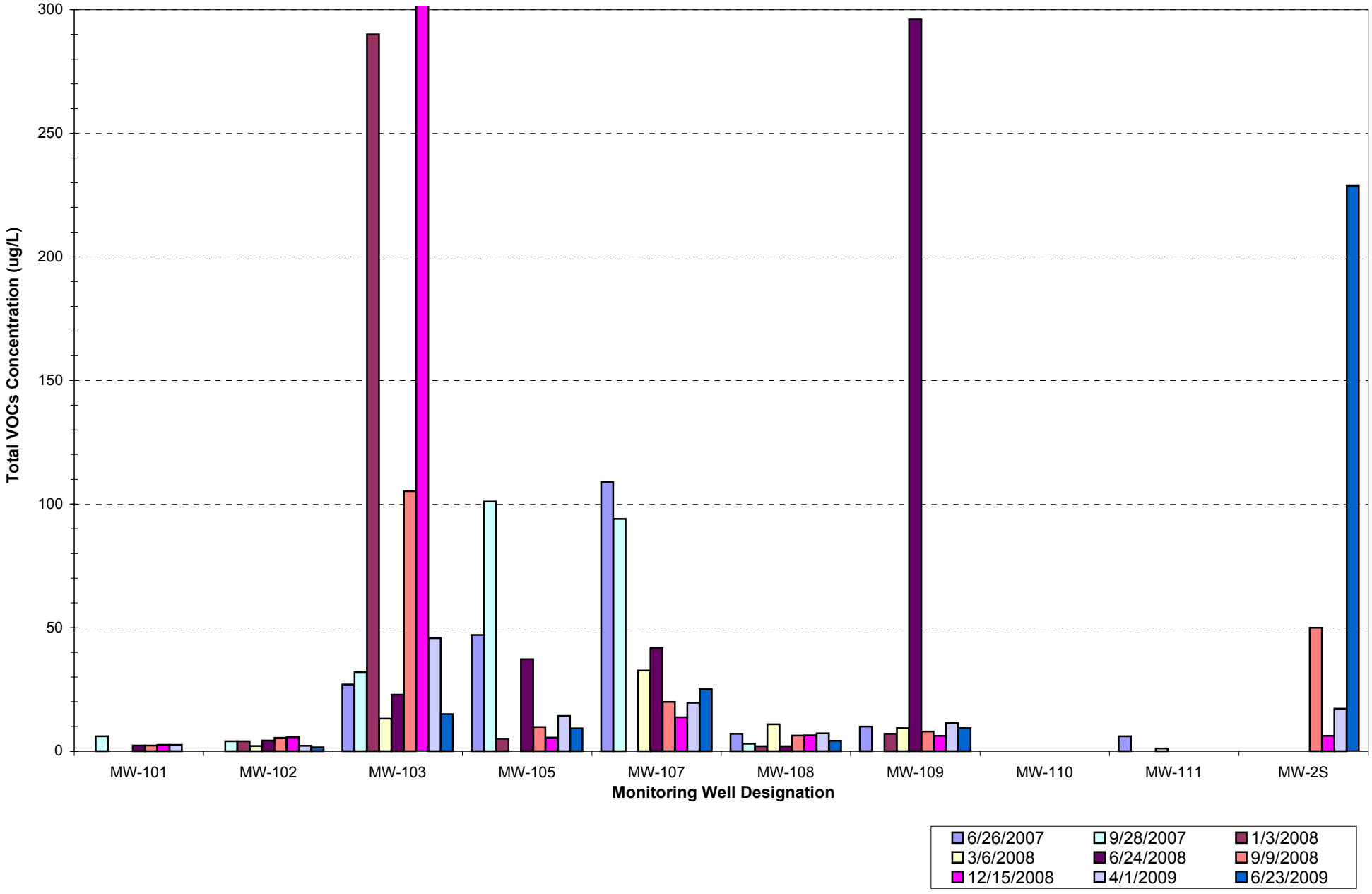
Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Summary of Groundwater Sampling Results - Tetrachloroethene



Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Summary of Groundwater Sampling Results - Vinyl Chloride



Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Summary of Groundwater Sampling Results - Total VOCs



ATTACHMENT L

DATA VALIDATION CHECKLISTS

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial
Project Number:	2578-04
Sample Date(s):	April 24, 2009
Matrix/Number of Samples:	Water/ 2 Trip Blank/ 0
Analyzing Laboratory:	Mitkem Laboratories, Warwick, RI
Analyses:	Volatile Organic Compounds (VOCs): USEPA SW 846 method 8260 Metals: USEPA ILM4.1
Laboratory Report No:	SH0710 Date:5/26/2009

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. 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. LCS duplicate (LCSD) %R		X	X		
8. LCS/LCSD precision (RPD)		X		X	
9. Surrogate spike recoveries		X	X		
10. Instrument performance check		X	X		
11. Internal standard retention times and areas		X		X	
12. Initial calibration RRF's and %RSD's		X		X	
13. Continuing calibration RRF's and %D's		X	X		
14. 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 exceptions:

6&7. The %R was below the QC limit of 75 % for benzene, 1,2-dichloropropane, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, n-propylbenzene, 2-chlorotoluene, 1,3,5-trimethylbenzene, 4-chlorotoluene, 1,2,4-trimethylbenzene, 4-isopropyltoluene and n-butylbenzene in the LCS and LCSD associated with COMB INFRE. These compounds were not detected in the sample and were qualified as estimated (UJ) in COMB INFRE.

9&10. The surrogate %R dibromfluoromethane was above QC limits in COMB INF and COMB INFRE. The COMB INF was outside tuning times and the reanalysis was within tuning times. The reanalysis was reported.

13. The %R was above the QC limit of 20 % for trichlorofluoromethane, 1,1,1-trichloroethane, carbon tetrachloride, tetrachloroethene, dibrochloromethane, and bromoform associated with all samples and bromommethane, chloroethane, iodomethane, 2,2-dichloropropane, chloroform 1,2-dichloroethane, trichloroethene, bromodichloromethane, 1,1,1,2-tetrachloroethane and isopropylbenzene in the continuing calibration associated with COMB INFRE. The above compounds were qualified as estimated (J/UJ) in associated samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X	X		
B. Field blanks					X
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R		X	X		
9. Post digestive spike sample %R		X		X	
10. Duplicate %RPD		X	X		
11. Serial dilution check %D		X	X		
12. Field duplicates RPD					X

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

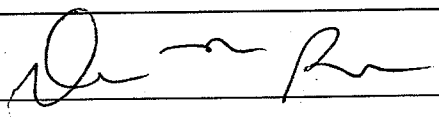
Comments:
Performance was acceptable, with the following exceptions:

2A. Barium, cobalt, copper, nickel and zinc were detected in preparation blanks and detected in COMB INF at concentration less than ten times the concentration found in the blanks which were qualified as non-detect (U).

8. The %R for cobalt, nickel and zinc were below QC limits in the spike sample. These metals were qualified as estimated (J/UJ) in COMB INF.

10. The %RPD for iron and selenium were above QC limits in the spike sample. These metals were qualified as estimated (J/UJ) in COMB INF.

11. The %D was above the QC limit of 10 % for the serial dilution sample for barium, iron, magnesium and manganese associated with COMB INF. These metals were qualified as estimated (J/UJ) in COMB INF.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 08/20/2009
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial
Project Number:	2578-04
Sample Date(s):	April 24, 2009
Matrix/Number of Samples:	Air/ 3
Analyzing Laboratory:	Con-test Analytical Laboratory, East Longmeadow, MA
Analyses:	Volatile Organic Compounds (VOCs): TO15
Laboratory Report No:	25054 Date:5/5/2009

ORGANIC ANALYSES
VOCS

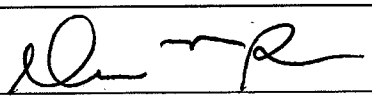
	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Method blanks		X	X		
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory Control Sample (LCS) %R		X		X	
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X	X		
12. 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 exceptions:

2. Acetone, ethanol, methylene chloride, propene, and 2-butanone were detected in the method blank. Ethanol, methylene chloride, and 2-butanone were qualified as non-detect (U) in VPCV-EFF, VPCV-INF and VPCV-MID. Acetone was qualified as non-detect (U) in VPCV-MID.

11. The %R for isopropanol was above the QC limit of 30 % for in the continuing calibration associated with all samples. Isopropanol was qualified as estimated (J) in sample VPCV-EFF, VPCV-INF, and VPCV-MID.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 05/27/2009
VALIDATION PERFORMED BY SIGNATURE:	
PEER REVIEW BY & DATE:	Robbin Petrella 06/01/2009

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial
Project Number:	2578-04
Sample Date(s):	May 14, 2009
Matrix/Number of Samples:	Water/ 2 Trip Blank/ 0
Analyzing Laboratory:	Mitkem Laboratories, Warwick, RI
Analyses:	Volatile Organic Compounds (VOCs): USEPA SW 846 method 8260 Metals: USEPA ILM4.1
Laboratory Report No:	SH0852 Date:5/29/2009

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. 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. LCS duplicate (LCSD) %R		X		X	
8. LCS/LCSD precision (RPD)		X		X	
9. Surrogate spike recoveries		X		X	
10. Instrument performance check		X		X	
11. Internal standard retention times and areas		X		X	
12. Initial calibration RRF's and %RSD's		X	X		
13. Continuing calibration RRF's and %D's		X	X		
14. 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 exceptions:

12. The %RSD was above the QC limit of 20 % for 2-butanone in the initial calibration. 2-Butanone was not detected in the samples and therefore did not impact the usability of the reported sample results.

13. The %R was above the QC limit of 20 % for dichlorodifluoromethane, 2-butanone and 1,2,3-trichloropropane in the continuing calibration associated with all samples. The above compounds were qualified as estimated (J/UJ) in associated samples.

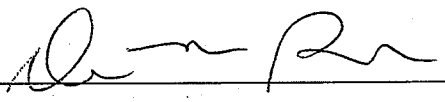
INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X	X		
B. Field blanks					X
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R					X
9. Post digestive spike sample %R					X
10. Duplicate %RPD					X
11. Serial dilution check %D					X
12. Field duplicates RPD					X

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

Comments:
Performance was acceptable, with the following exception:

2A. Antimony, chromium and zinc were detected in preparation blanks and detected in COMB INF at concentration less than ten times the concentration found in the blanks which were qualified as non-detect (U).

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 08/20/2009
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial
Project Number:	2578-04
Sample Date(s):	May 14, 2009
Matrix/Number of Samples:	Air/ 3
Analyzing Laboratory:	Con-test Analytical Laboratory, East Longmeadow, MA
Analyses:	Volatile Organic Compounds (VOCs): TO15
Laboratory Report No:	09E0348 Date:6/22/2009

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. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X	X		
12. Field duplicates RPD					X

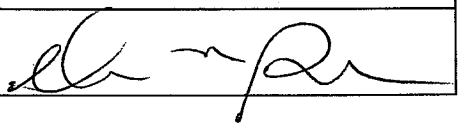
VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
Performance was acceptable with the following exceptions:

2. Acetone, ethanol and methylene chloride were detected in the method blank. Ethanol and methylene chloride were qualified as non-detect (U) in EFF, INF and MID. Acetone was qualified as non-detect (U) in MID.

6. The %R was above QC limits for benzyl chloride and bromoform. They were not detected in the samples and therefore qualification of the data was not necessary.

11. The %D for bromomethane was above the QC limit of 30 % for in the continuing calibration associated with all samples. Bromomethane was qualified as estimated (J/UJ) in all samples.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 09/16/2009
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial
Project Number:	2578-04
Sample Date(s):	June 23 & 24, 2009
Matrix/Number of Samples:	Water/ 16 Trip Blank/ 0
Analyzing Laboratory:	Mitkem Laboratories, Warwick, RI
Analyses:	Volatile Organic Compounds (VOCs): USEPA SW 846 method 8260 Metals and Wet Chem: Metals by USEPA method ILM4.1 and Total dissolved and suspended solids by method 2540 and COD by method 5220.
Laboratory Report No:	SH1137 Date:7/8/2009

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. 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. LCS duplicate (LCSD) %R		X	X		
8. LCS/LCSD precision (RPD)		X		X	
9. Surrogate spike recoveries		X	X		
10. Instrument performance check		X		X	
11. Internal standard retention times and areas		X		X	
12. Initial calibration RRF's and %RSD's		X		X	
13. Continuing calibration RRF's and %D's		X		X	
14. 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 with the following exceptions:

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

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-25	Cis-1,2-dichloroethene	220 E	220 D	220 D

6&7. The %R was below the QC limit of 75 % for iodomethane , 1,2-dibromoethane and chlorobenzene in the LCS and LCSD associated with MW-106 and MW-104. These compounds were not detected in the sample and were qualified as estimated (UJ) in MW-106 and MW-104.

The %R was above the QC limit of 125 % for 1,2,3-trichlorobenzene and naphthalene in the LCS and LCSD associated with MW-111, MW-25, MW-105 and MW-103. 1,2,3-Trichlorobenzene and naphthalene were not detected in the samples and therefore did not impact the usability of the reported sample results.

9. The surrogate %R dibromfluoromethane was slightly above QC limits in MW-105 and MW-103. Qualification of the data was not necessary.

INORGANIC ANALYSES
METALS

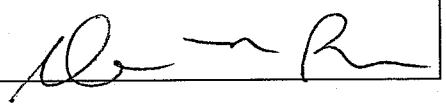
	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X	X		
B. Field blanks					X
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R		X		X	
9. Post digestive spike sample %R					X
10. Duplicate %RPD		X		X	
11. Serial dilution check %D		X	X		
12. Field duplicates RPD					X

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

Comments:
Performance was acceptable, with the following exception:

2A. Copper and iron were detected in preparation blanks and detected in samples at concentration less than ten times the concentration found in the blanks. Copper in COMB INF, EFF, RW-1 and RW-2; and iron in EFF and RW-1 were qualified as non-detect (U).

11. The %D was above the QC limit of 10 % for the serial dilution sample for magnesium and manganese associated with all samples. Magnesium and manganese was qualified as estimated (J/UJ) in all samples.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 08/20/2009
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Active Industrial
Project Number:	2578-04
Sample Date(s):	June 24, 2009
Matrix/Number of Samples:	Air/ 3
Analyzing Laboratory:	Con-test Analytical Laboratory, East Longmeadow, MA
Analyses:	Volatile Organic Compounds (VOCs): TO15
Laboratory Report No:	09F0506 Date:7/9/2009

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. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X	X		
11. Continuing calibration RRF's and %D's		X	X		
12. 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

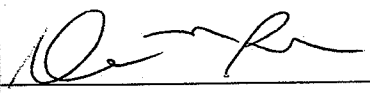
Comments:
Performance was acceptable with the following exceptions:

2. Acetone and methylene chloride were detected in the method blank. Methylene chloride was qualified as non-detect (U) in EFF, INF and MID.

6. The %R was above QC limits for 1,2,4-trichlorobenzene. 1,2,4-Trichlorobenzene was not detected in the samples and therefore qualification of the data was not necessary.

10. The %RSD for acetone and ethanol were above the QC limit of 40 % for in the initial calibration associated with all samples. The above compounds were qualified as estimated (J/UJ) in all samples.

11. The %RSD for benzyl chloride and 1,2,4-trichlorobenzene were above the QC limit of 30 % for in the continuing calibration associated with all samples. The above compounds were qualified as estimated (J/UJ) in all samples.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 07/20/2009
VALIDATION PERFORMED BY SIGNATURE:	
PEER REVIEW BY & DATE:	Robbin Petrella 8/7/2009