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April 12, 2011

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

Re: Active Industrial Uniform Site (Site No. 1-52-125)
D&B Work Assignment No. D004446-01
Quarterly Report No. 19
July 1, 2009 through September 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 July 1, 2009 through September 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 above-referenced Work Assignment.

Groundwater Extraction and Treatment System Operations and Maintenance

During this reporting period, on-site extraction well RW-1 operated at an average pumping rate of approximately 68 gallons per minute (gpm) and off-site extraction well RW-2 operated at an average pumping rate of approximately 83 gpm. Note, as described below, a malfunction at transfer pump #2 caused the treatment system to be inoperative for approximately 90% of this reporting period. Normalized graphs of the average flow rates for RW-1 and RW-2 since May 2009 and August 2008, respectively, are presented in Attachment B. Based on a review of the data, the flow rates for RW-1 and RW-2 continue to show an increasing trend through the end of this reporting period. Approximately 2.74 pounds of total VOCs were removed from the extracted groundwater during this reporting period and approximately 1,205 pounds of total VOCs have been removed since start-up of the system.

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
April 12, 2011

Page 2

The average total VOC removal efficiency for this quarter was approximately 97 percent.

A summary of the extraction and treatment system performance results for this period is provided in Attachment C. A graph of the mass contaminant removal rate over time based on the estimated average total VOC removal rate is also provided in Attachment C.

Approximately 2,153,290 gallons of treated groundwater was discharged to Little Neck Creek during this period. Note that the groundwater extraction system was inoperative for approximately 1,997 hours (approximately 90% of this reporting period) due to two system alarm conditions. Of the 1,997 hours, approximately 2.5 hours of "downtime" was due to a high level condition in air stripper #1 and approximately 1,994 hours of "downtime" was due to a high level condition in the building central drainage sump. The water accumulating in the sump was traced to a malfunction and leak at effluent transfer pump #2. In an e-mail correspondence dated July 10, 2009, D&B informed the NYSDEC of the effluent transfer pump fault and indicated that the treatment system was shut down. In an e-mail correspondence dated July 15, 2009, the NYSDEC indicated that Environmental Assessment and Remediation (EAR), a NYSDEC call-out Contractor, would be completing an assessment and/or replacement of effluent transfer pump #2.

EAR investigated the effluent transfer pump failure during two different site visits completed on July 22 and 24, 2009. During these site visits, D&B recommended that several additional system repair items be completed, including the replacement of several non-pressure rated pipe fittings and the replacement of a leaking moisture knock-out drum. Upon NYSDEC approval, EAR completed the replacement of the effluent transfer pump and piping repairs on August 17, 2009 and D&B was on-site to restart and test the system with EAR. Upon restart of the system, it was noted that the effluent transfer pump #2 motor, which was not replaced as part of the pump replacement, was also malfunctioning and needed to be replaced. The system was shut down and the NYSDEC was notified of the problem via e-mail correspondence dated August 18, 2009.

EAR completed the replacement of the malfunctioning transfer pump motor, as well as installation of a newly fabricated moisture knock-out drum, on September 11, 2009. Following completion of this work, D&B met with EAR to restart the system. Upon system restart, a leak was noted on a fitting in the effluent piping. In addition, the influent flow meter for extraction well RW-2 was not registering influent flow. The system was shut down and the NYSDEC was notified of the problem via e-mail correspondence.

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
April 12, 2011

EAR completed repairs of the effluent piping and an investigation of the malfunctioning influent flow meter on October 2, 2009. Following the completion of this work, D&B met with EAR to restart the system. Upon system restart, all equipment appeared to be in normal operating condition, with the exception of the blower influent vacuum gauge, which was not registering a blower vacuum. Inspection of the gauge revealed a white powder within the gauge tubing and gauge port resulting in the blockage of the tubing and possible fouling of the gauge. However, extraction wells RW-1 and RW-2 were operating at an extraction rate of approximately 90.5 gallons per minute (gpm) and 83.6 gpm, respectively, which is within the design flow rate range of 80 to 100 gpm, as specified in the Active Industrial Uniform Site Contract Documents.

In addition, the RW-2 influent flow meter was registering flow upon system restart; however, D&B has observed intermittent problems with this flow meter since that time. As such, and as is detailed in the recommendations section, it is recommended to further assess this problem and replace the flow meter if warranted.

A summary of system alarm conditions and downtime is provided in Attachment D and copies of system maintenance photo logs and correspondence are provided in Attachment E.

Groundwater Extraction and Treatment System Sampling (Aqueous)

Monthly groundwater samples were not collected during this reporting period due to the 1,997 hours of treatment system downtime from July 9, 2009 through the end of this reporting period.

Groundwater Extraction and Treatment System Sampling (Air)

Monthly air samples were not collected this reporting period due to the 1,997 hours of treatment system downtime from July 9, 2009 through the end of this reporting 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 September 28, 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

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
April 12, 2011

part of a Vapor Intrusion Investigation completed by the NYSDEC and has continued 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 on Figure 2, provided in Attachment A. The locations of the off-site monitoring wells are shown on 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 G.

Concentrations of total VOCs detected in the on-site monitoring wells ranged from 1.1 ug/l in groundwater monitoring well MW-101 to a maximum concentration of 910 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 and guidance values of 5.0 ug/l, respectively; cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE) and trichloroethene (TCE). The maximum concentrations of cis-1,2-DCE (270 ug/l) and TCE (400 ug/l) were detected in groundwater monitoring well MW-106, located in the southeast corner of the site. The maximum concentration of PCE (610 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 groundwater monitoring wells MW-101, MW-102 or MW-108.

Concentrations of cis-1,2-DCE (310 ug/l), TCE (22 ug/l) and PCE (11 ug/l) were detected above their respective Class GA groundwater standards of 5.0 ug/l in off-site groundwater monitoring well MW-2S, located on the corner of Thompson Avenue and Lane Street. Concentrations of cis-1,2-DCE (2.0 ug/l), 1,1-dichloroethane (1.1 ug/l), TCE (1.6 ug/l), methyl tert-butyl ether (MTBE) (1.3 ug/l) and PCE (1.8 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 H includes graphs which summarize historical concentrations of total VOCs, cis-1,2-DCE, PCE, TCE and vinyl chloride (VC) detected in the on-site and off-site monitoring wells from September 2007 through September 2009. Note that the greatest concentrations of VOCs have primarily been detected above their respective standards and guidance values in on-site monitoring wells MW-104 and MW-106. Therefore, separate graphs have been provided for these two monitoring wells in Attachment H. Off-site, concentrations of these compounds have historically been detected below their respective

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
April 12, 2011

groundwater standards in MW-109 and MW-111. Based on a review of the concentrations of VOCs detected in MW-2S, total VOCs have generally decreased in concentration since November 2007; however, since D&B began sampling MW-2S in September 2008, VOCs have exhibited a general increase in concentration. This may be attributable to the significant amount of downtime of on-site extraction well RW-1 and the overall treatment system downtime due to the fouling of RW-1 and various system equipment failures occurring throughout the past year.

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. All sample results have been deemed valid and usable for environmental assessment purposes.

Data Validation Checklists are presented in Attachment I.

Findings

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

- Five of the eight on-site monitoring wells exhibited 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, TCE and PCE 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 a cursory windshield 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 modified since system start-up in December 2001. A new DER-10 document, dated November 2009, has been implemented since the March 1998 ROD was issued.

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
April 12, 2011

Page 6

- The toxicity data, cleanup levels and remedial action objectives, as defined in the March 1997 Record of Decision, have not been modified.

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), it is recommended to install 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 Active Industrial Periodic Review Report. A figure depicting the proposed well locations is provided in Attachment J.
- Continue to monitor VOC concentrations in off-site monitoring well MW-2S in order to ensure that the groundwater extraction and treatment system is capturing VOCs which have the potential to migrate off-site. Note that extraction well RW-1 had been pumping at a reduced flow rate due to iron fouling of the well screen. As stated in Quarterly Report No. 18, 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, given the treatment system continues to operate as designed.
- Replace the effluent filter in order to prevent a recurrence of the leak identified in June 2009 that was noted in Quarterly Report No. 18.
- Further diagnosis of the intermittent flow register problems noted at the RW-2 flow meter.
- Replace the fouled blower influent vacuum gauge and its associated tubing.

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
April 12, 2011

Page 7

In accordance with the division of Environmental Remediation (DER)-31 Green Remediation Policy the following recommendations have been provided in order to minimize the environmental footprint and increase the efficiency of the overall treatment system, and at the same time, decrease cost associated with the operation and maintenance of the treatment system:

- In order to reduce the treatment system electrical consumption, it is recommended to evaluate the current influent water quality, stripper efficiency and blower output. Based on current influent water quality and stripper efficiency, it may be warranted to reduce the blower output, and therefore the treatment system electrical consumption, while still continuing to provide adequate blower output to remove VOCs in treatment system water to concentrations below the site-specific effluent limits. Based on the results of the evaluation, and in order to adjust the blower output, it may be warranted to install a variable frequency drive (VFD) on the blower motor.
- In order to reduce the treatment system electrical consumption, it is recommended to install high efficiency light bulbs in all interior and exterior lighting fixtures.
- In order to reduce the treatment system electrical consumption, it is recommended to install motion sensor lighting on the building exterior.
- In order to reduce the treatment system natural gas consumption, it is recommended to ensure the treatment system thermostat be set at a target temperature which is not excessively high during the winter months, but will still prevent the treatment system piping from freezing upon shutdown.

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

Very truly yours,



Stephen Tauss
Project Manager

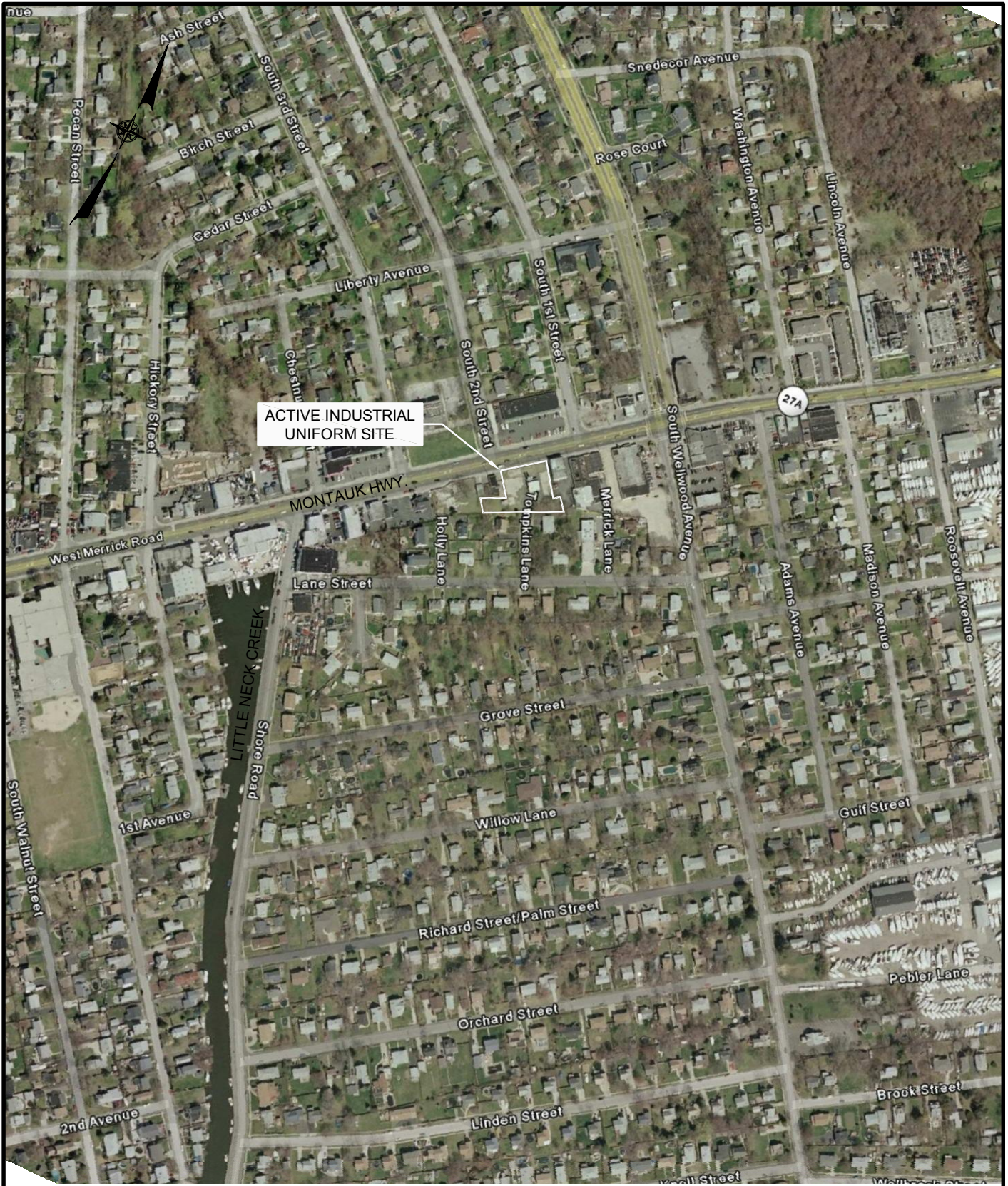
SET/PM/abl
Attachments

cc: R. Walka (D&B)
P. Martorano (D&B)
F. DeVita (D&B)

◆2578\SET12029-PL_QR19.doc(R18)

ATTACHMENT A

FIGURES



SOURCE: GOOGLE EARTH 2005

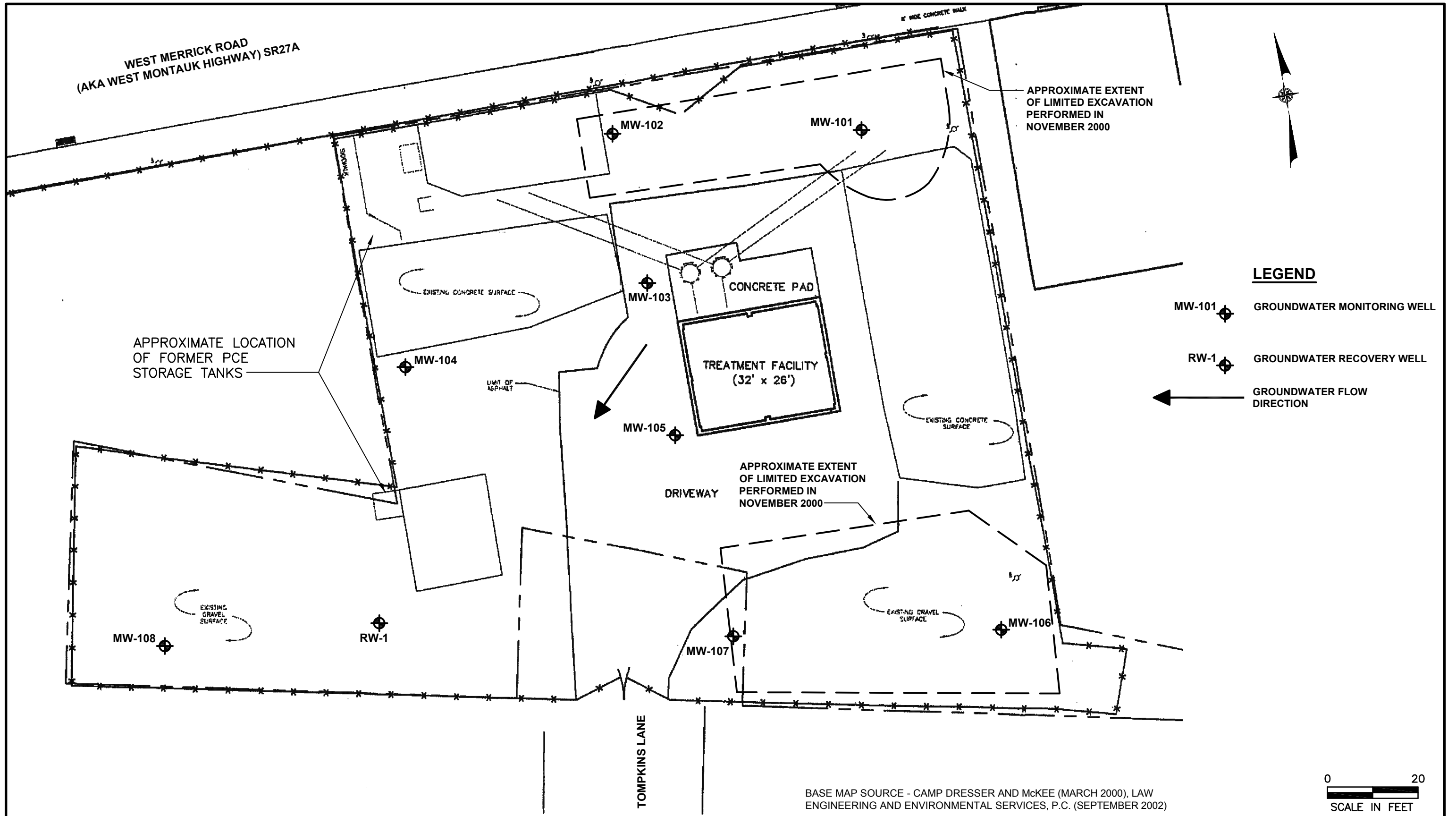


ACTIVE INDUSTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

SITE LOCATION MAP

FIGURE 1-1

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



ACTIVE INDUSTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

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



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

ACTIVE INDUSTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

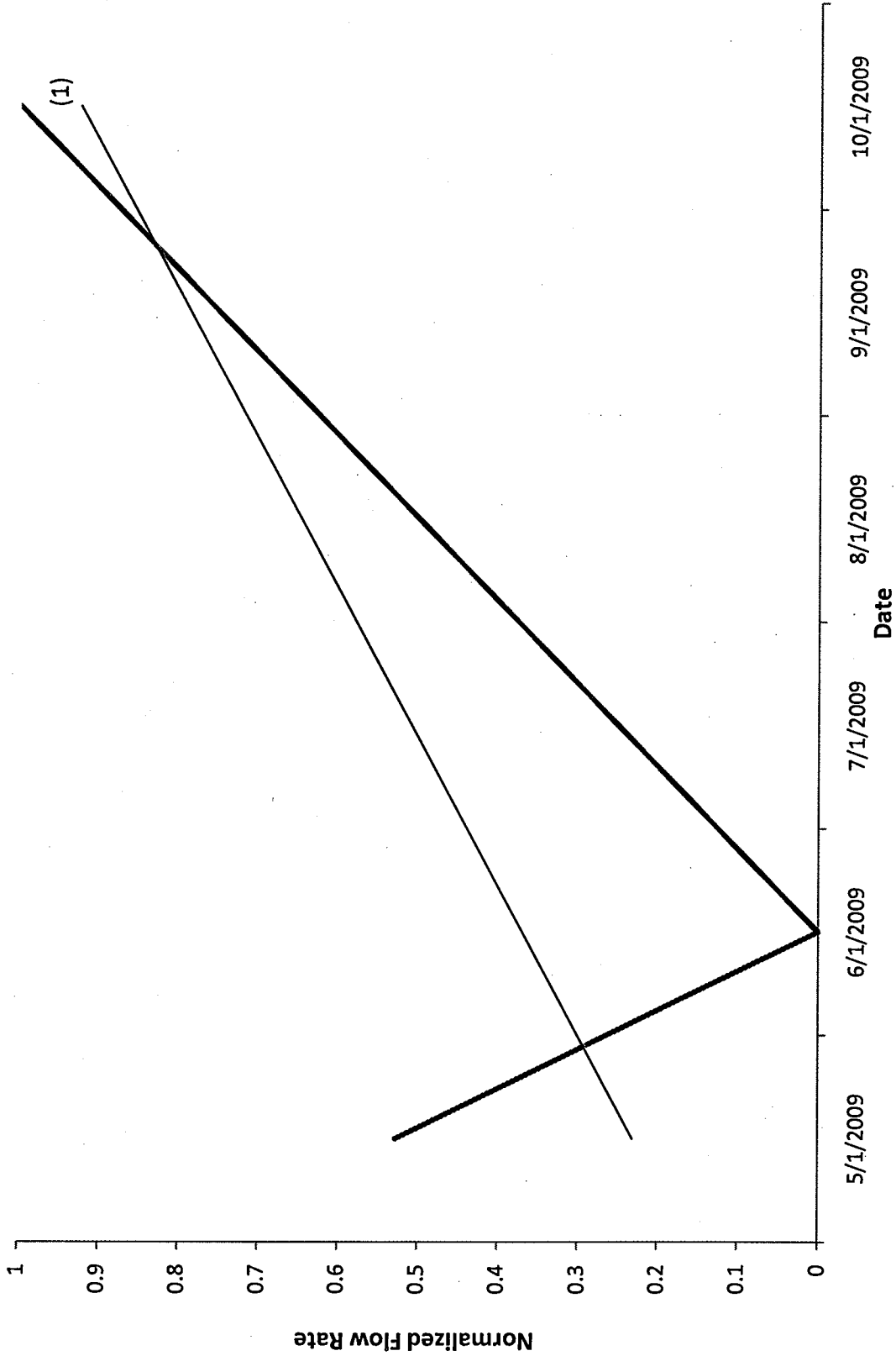
SCALE: 1" = 100'

OFF-SITE MONITORING WELL LOCATION MAP

ATTACHMENT B

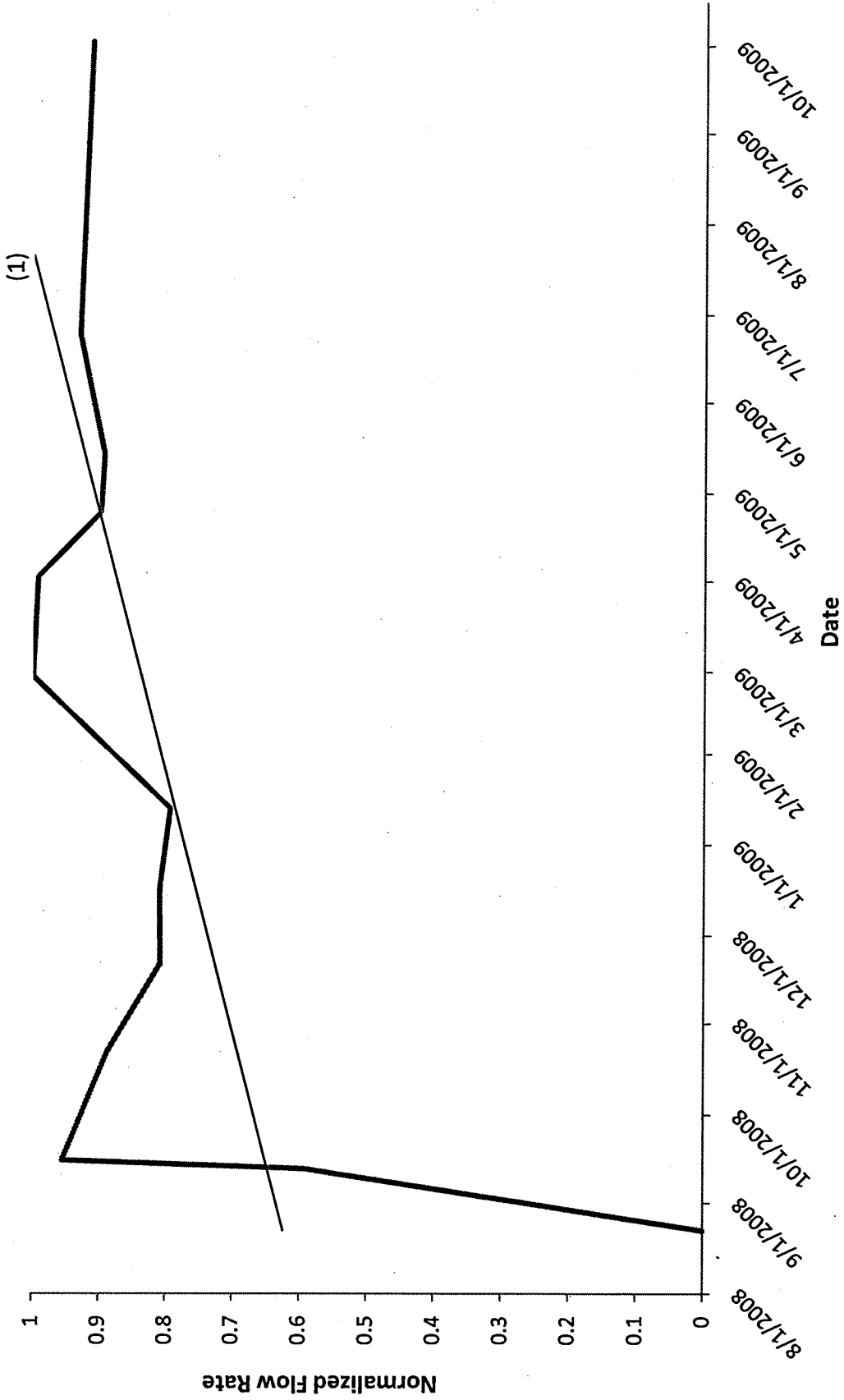
**NORMALIZED GRAPHS OF AVERAGE FLOW RATE
FOR RW-1 AND RW-2**

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



1. Trend Line Formula: $0.2363x + 0.0365$.
2. Graph shown includes data collected after redevelopment of extraction well RW-1 in April 2009.
3. Treatment System not in operation from July 2009 through September 2009.

Active Industrial Unfirom Site
NYSDEC Site No. 1-52-125
Extraction Well RW-2



1. Trend Line Formula: $0.0011x - 44.31$
2. Treatment System not in operation from July 2009 through September 2009.

ATTACHMENT C

PERFORMANCE SUMMARY

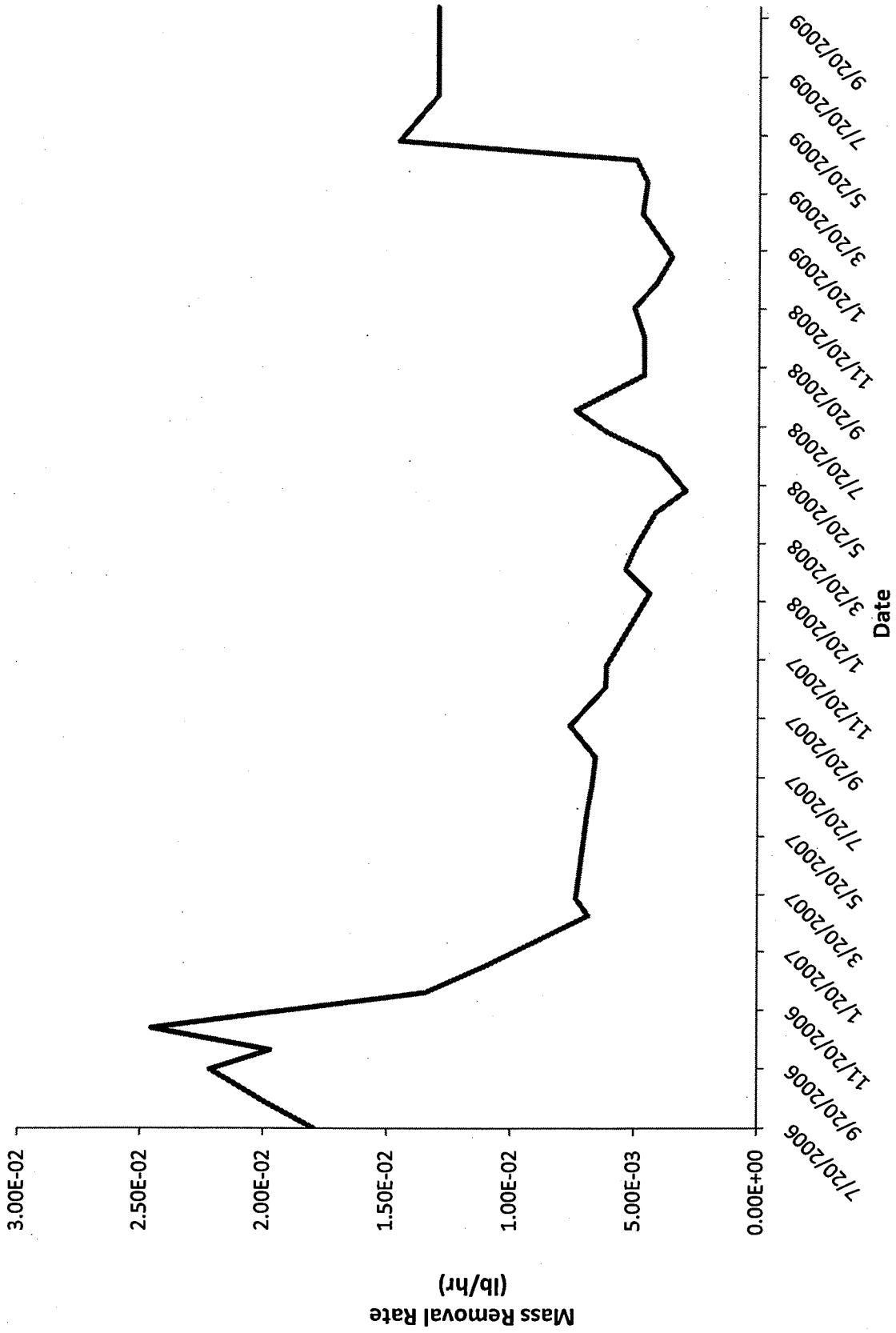
ACTIVE INDUSTRIAL UNIFORM SITE
 NYSDEC SITE NO. 1-52-125
 EXTRACTION AND TREATMENT SYSTEM PERFORMANCE RESULTS - AQUEOUS

| SAMPLE COLLECTION DATE | SYSTEM INFLUENT AVERAGE EXTRACTION RATE (gpm) | SYSTEM INFLUENT TOTAL VOC CONCENTRATION (ug/L) | SYSTEM EFFLUENT TOTAL VOC CONCENTRATION (ug/L) | TOTAL VOC REMOVAL EFFICIENCY (%) | ESTIMATED AVERAGE TOTAL VOC REMOVAL RATE (lb/hr) | ESTIMATED SYSTEM RUNTIME (hr) | CUMULATIVE TOTAL VOC REMOVAL (lbs) |
|------------------------|---|--|--|----------------------------------|--|-------------------------------|------------------------------------|
| 7/20/2006 | 65.32 (RW-1) 0.00 (RW-2) | 550 | < 5.0 | 99.09% | 1.80E-02 | 473 (RW-1) 0 (RW-2) | 1,040.86 |
| 8/17/2006 | 63.60 (RW-1) 91.30 (RW-2) | 258 | < 5.0 | 98.06% | 2.00E-02 | 719 (RW-1) 96 (RW-2) | 1,055.23 |
| 9/19/2006 | 60.33 (RW-1) 90.31 (RW-2) | 294 | < 5.0 | 98.30% | 2.22E-02 | 1016 (RW-1) 1016 (RW-2) | 1,077.73 (2) |
| 10/9/2006 | 59.18 (RW-1) 0.00 (RW-2) | 666 | < 5.0 | 99.25% | 1.97E-02 | 209 (RW-1) 0 (RW-2) | 1,081.85 |
| 11/1/2006 | 58.40 (RW-1) 0.00 (RW-2) | 840 | < 5.0 | 99.40% | 2.45E-02 | 550 (RW-1) 0 (RW-2) | 1,095.35 |
| 12/8/2006 | 56.70 (RW-1) 0.00 (RW-2) | 474 | < 5.0 | 98.95% | 1.34E-02 | 1418 (RW-1) 0 (RW-2) | 1,114.41 (2) |
| 1/5/2007 | 54.22 (RW-1) 0.00 (RW-2) | 405 | < 5.0 | 98.77% | 1.10E-02 | 85 (RW-1) 0 (RW-2) | 1,115.35 |
| 2/26/2007 | 56.28 (RW-1) 0.00 (RW-2) | 244 | < 5.0 | 97.95% | 6.87E-03 | 756 (RW-1) 0 (RW-2) | 1,120.54 |
| 3/16/2007 | 52.37 (RW-1) 0.00 (RW-2) | 281 | < 5.0 | 98.22% | 7.36E-03 | 505 (RW-1) 0 (RW-2) | 1,124.26 (2) |
| 6/15/2007 | 51.33 (RW-1) 0.00 (RW-2) | 269 (4) | < 5.0 | 98.14% | 6.91E-03 | 213 (RW-1) 0 (RW-2) | 1,125.73 (2) |
| 7/12/2007 | 52.26 (RW-1) 0.00 (RW-2) | 257 | < 5.0 | 98.05% | 6.72E-03 | 266 (RW-1) 0 (RW-2) | 1,127.52 |
| 8/10/2007 | 52.47 (RW-1) 0.00 (RW-2) | 251 | < 5.0 | 98.01% | 6.59E-03 | 692 (RW-1) 0 (RW-2) | 1,132.08 |
| 9/12/2007 | 51.57 (RW-1) 0.00 (RW-2) | 295 | < 5.0 | 98.31% | 7.61E-03 | 1232 (RW-1) 0 (RW-2) | 1,141.46 (2) |
| 10/22/2007 | 50.10 (RW-1) 0.00 (RW-2) | 247 | < 5.0 | 97.98% | 6.19E-03 | 504 (RW-1) 0 (RW-2) | 1,144.58 |
| 11/13/2007 | 49.28 (RW-1) 0.00 (RW-2) | 250 | 6.0 | 97.60% | 6.16E-03 | 1019 (RW-1) 0 (RW-2) | 1,150.85 (2) |
| 1/28/2008 | 42.64 (RW-1) 0.00 (RW-2) | 207 | < 5.0 | 97.58% | 4.42E-03 | 650 (RW-1) 0 (RW-2) | 1,153.72 |
| 2/22/2008 | 44.75 (RW-1) 0.00 (RW-2) | 241 | < 5.0 | 97.93% | 5.39E-03 | 473 (RW-1) 0 (RW-2) | 1,156.28 |
| 3/14/2008 | 43.71 (RW-1) 0.00 (RW-2) | 231 | < 5.0 | 97.83% | 5.05E-03 | 923 (RW-1) 0 (RW-2) | 1,160.94 (2) |
| 4/21/2008 | 40.16 (RW-1) 0.00 (RW-2) | 209 | < 5.0 | 97.60% | 4.19E-03 | 480 (RW-1) 0 (RW-2) | 1,162.95 |
| 5/14/2008 | 38.81 (RW-1) 0.00 (RW-2) | 153 | < 5.0 | 96.72% | 2.96E-03 | 552 (RW-1) 0 (RW-2) | 1,164.58 |
| 6/19/2008 | 40.21 (RW-1) 0.00 (RW-2) | 205 | < 5.0 | 97.56% | 4.12E-03 | 1136 (RW-1) 0 (RW-2) | 1,169.26 (2) |
| 7/14/2008 | 39.96 (RW-1) 0.00 (RW-2) | 308 | < 5.0 | 98.38% | 6.16E-03 | 317 (RW-1) 0 (RW-2) | 1,171.21 |
| 8/6/2008 | 36.42 (RW-1) 0.00 (RW-2) | 408 | < 5.0 | 98.77% | 7.43E-03 | 215 (RW-1) 0 (RW-2) | 1,172.81 |
| 9/12/2008 | 33.56 (RW-1) 70.01 (RW-2) | 277 (RW-1) 39.2 (RW-2) | < 5.0 | 95.36% | 4.65E-03 (RW-1) 1.37E-03 (RW-2) | 1,228 (RW-1) 838 (RW-2) | 1,179.67 (2) |
| 10/22/2008 | 19.22 (RW-1) 82.51 (RW-2) | 91.9 | < 5.0 | 94.56% | 4.68E-03 | 483 (RW-1) 483 (RW-2) | 1,181.93 |
| 11/21/2008 | 24.64 (RW-1) 79.18 (RW-2) | 97.6 | < 5.0 | 94.88% | 5.07E-03 | 718 (RW-1) 718 (RW-2) | 1,185.57 |
| 12/16/2008 | 24.55 (RW-1) 79.22 (RW-2) | 80.6 | < 5.0 | 93.80% | 4.18E-03 | 740 (RW-1) 740 (RW-2) | 1,188.67 (2) |
| 1/13/2009 | 25.50 (RW-1) 78.57 (RW-2) | 68.0 | < 5.0 | 92.65% | 3.54E-03 | 0.75 (RW-1) 0.75 (RW-2) | 1,188.67 |
| 2/27/2009 | 29.98 (RW-1) 87.28 (RW-2) | 81.0 | < 5.0 | 93.83% | 4.75E-03 | 157 (RW-1) 157 (RW-2) | 1,189.42 |
| 4/1/2009 | 29.79 (RW-1) 86.99 (RW-2) | 78.1 | < 5.0 | 93.60% | 4.56E-03 | 754 (RW-1) 754 (RW-2) | 1,192.85 (2) |
| 4/24/2009 | 29.38 (RW-1) 83.02 (RW-2) | 89.1 | < 5.0 | 94.39% | 5.01E-03 | 527 (RW-1) 527 (RW-2) | 1,195.50 |
| 5/14/2009 | 88.43 (RW-1) 82.80 (RW-2) | 330 (RW-1) 15.0 (RW-2) | < 5.0 | 98.48% | 1.46E-02 (RW-1) 6.21E-04 (RW-2) | 305 (RW-1) 408 (RW-2) | 1,200.20 |
| 6/24/2009 | 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 |
| 10/12/2009 | 66.12 (RW-1) 84.37 (RW-2) | 153 | < 5.0 | 96.73% | 1.30E-02 | 210 (RW-1) 210 (RW-2) | 1,204.99 (2) |

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

NOTES:
 2. Estimated through the end of the reporting period.
 3. Performance results for the reporting period are shaded.
 4. COMB-INF concentration approximated from 6/24/09 sample results.

Active Industrial Uniform Site
NYSDEC Site No. 1-52-125
Treatment System Mass Removal Rate



APPENDIX D

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 |
|--------------------|-------------------|---|
| 7/7/09 3:50 PM | 7/7/09 6:20 PM | Alarm condition 3 & 5: Reset VFDs. Hand pumped strippers #1 and #2 to low level. Restarted system. |
| 7/9/09 9:00 PM | 10/1/09 12:00 AM | Alarm condition 3: High level in sump due to leak from transfer pump #2; system shutdown to repair/replace transfer pump #2, repair non-pressure rated pipe fitting and broken valves, and repair/replace the moisture knock-out drum tank. (1) |
| | | |
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NOTES:

1. Maintenance event performed by Environmental Assessment and Remediation

ATTACHMENT E

PHOTO LOGS/CORRESPONDENCE



ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Active Industrial Uniform
63 West Merrick Road
Lindenhurst, NY
NYSDEC Site # 152125

EAR Photos From Initial Site Walk (07-22-09)



Non-pressure rated elbow

Replace elbow and all
PVC between existing
flange and new flange

Cut, and insert flange





Effluent transfer
pump to be removed
for evaluation/repair





Non-Pressure Rated Elbow



Air/Water Separator to be replaced

Leak from bottom of drum





Sump pump piping to be replaced/reconfigured



Transfer pump to be removed and evaluated/repaired

Effluent filter basket to be potentially replaced





Pressure meter to potentially be replaced



Broken handle on globe valve



Supports recommended for potable water line



Paul Martorano

From: Trego, Donald A. [Trego@ENVIRO-ASMNT.COM]
Sent: Friday, July 24, 2009 1:07 PM
To: Payson Long
Cc: Paul Martorano; Hough, Kevin
Subject: FW: Magnatex Pumps Quote T-3662 by CP

Mr. Long,

Please see below for a shipping estimate from Magnatex. If you want the entire exact pump from Magentex, the total cost would be \$6797.56 (without our contract markup).

If you decide to replace the pump with the exact replacement, rather than a similar pump with equal specifications, I would be required to submit a single source vendor request for approval by NYSDEC contract and payments section (CPS).

Please let me know how you would like us to proceed.

Sincerely,

Donald A Trego
Vice President
Environmental Assessment & Remediations
Trego@Enviro-Asmnt.com
Phone: 1-888-EAR-6789
Fax: 631-447-6497
www.Enviro-Asmnt.com

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From: Christi Prust [mailto:cprust@magnatexpumps.com]
Sent: Friday, July 24, 2009 12:53 PM
To: Trego, Donald A.
Cc: lhoff@magnatexpumps.com
Subject: RE: Magnatex Pumps Quote T-3662 by CP

Donald,

Due to our current shop load, lead time would be 2-4 weeks for the parts and/or the pump.
We will not collect sales tax in NY.
Shipping FedEx 3 days – for parts - \$44.40
Shipping FedEx 3 days – for pump - \$707.56
Shipping quote is only valid for (1) week.

12/22/2009

Please let me know if you have any questions or if there is anything I can do to further assist you. Thanks and have a great day!

Best Regards,

Christi Prust
Magnatex Pumps, Inc.
719-329-0777

From: Trego, Donald A. [mailto:Trego@ENVIRO-ASMNT.COM]
Sent: Friday, July 24, 2009 9:15 AM
To: Christi Prust
Subject: RE: Magnatex Pumps Quote T-3662 by CP

Can you please provide a cost for shipping to Patchogue, NY and any applicable sales tax? I need a firm total cost to provide to my client. Also, what is the lead time on the parts and pump?

Thanks.

Donald A Trego
Vice President
Environmental Assessment & Remediations
Trego@Enviro-Asmnt.com
Phone: 1-888-EAR-6789
Fax: 631-447-6497
www.Enviro-Asmnt.com

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From: Christi Prust [mailto:cprust@magnatexpumps.com]
Sent: Friday, July 24, 2009 11:10 AM
To: Trego, Donald A.
Subject: FW: Magnatex Pumps Quote T-3662 by CP

Dear Donald,

Per our phone conversation – the price of the inner magnet + impeller assembly is \$4912 and the price for the complete bare pump, MTA-A10-P-F20-2-FE is \$6090.

Please let me know if you have any questions or if there is anything I can do to further assist you. Thanks and have a great afternoon!

12/22/2009

Best regards,

Christi Prust
Magnatex Pumps, Inc.
719-329-0777
cprust@magnatexpumps.com
www.magnatexpumps.com



ENVIRONMENTAL
ASSESSMENT &
REMIATIONS

Active Industrial Uniform
63 West Merrick Road
Lindenhurst, NY
NYSDEC Site # 152125

EAR Photos Of Damage To Effluent Transfer Pump
(07-23-09/07-24-09)



Effluent transfer
pump





Model: MTA-A10-P-F20-2-FE
Size: 3x2x6
Material: PFA
HP: 15
Serial # T-502111-1B/P2



Broken Parts



Damage to PFA Liner and Casing



Other Damaged Parts

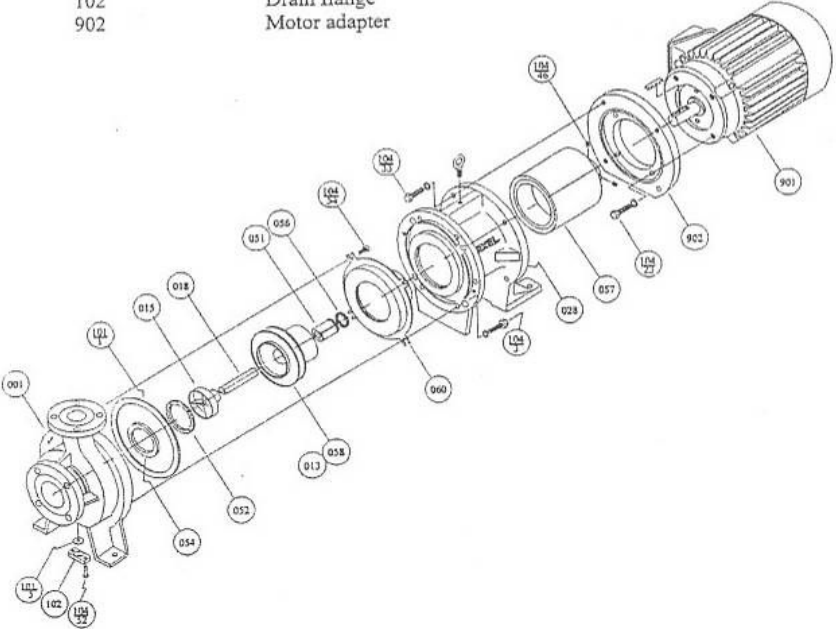


Explode View Drawing Of Transfer Pump

13b. EXPLODED VIEW DRAWING

MODEL MTA-A10

| <u>Item no.</u> | <u>Description</u> |
|-----------------|-------------------------|
| 001 | Casing |
| 015 | Shaft support |
| 018 | Shaft |
| 028 | Bracket |
| 051 | Bushing |
| 052 | Mouth ring |
| 054 | Front thrust ring |
| 056 | Rear thrust ring |
| 057 | Outer magnet |
| 058+013 | Inner magnet + Impeller |
| 060 | Rear casing |
| 101-1 | Casing gasket |
| 101-5 | Drain gasket |
| 102 | Drain flange |
| 902 | Motor adapter |



Paul Martorano

From: Trego, Donald A. [Trego@ENVIRO-ASMNT.COM]
Sent: Monday, July 27, 2009 11:52 AM
To: Payson Long
Cc: Paul Martorano; Stephen Tauss; Hough, Kevin
Subject: Site ID 152125 Active Industrial Remedial Services Call-out 118404 - Effluent Pump

Mr. Long,

I have contacted another supplier (Hayes Pump) of a magnetic drive, Teflon lined, close coupled transfer pump that is rated for the same performance specifications (250 GPM @ 160 TH) as the transfer pump previously in service (Magnatec). Their applications engineer provided the attached quote. As you can see from the attached PDF, their recommended pump requires a 25 HP motor. This increase in HP would not only greatly increase electrical usage cost, but would require a change in several system electrical components (Variable Freq Drive, wiring, etc.). Also, the cost of \$18,436 (before tax, and shipping) is far greater than the cost of replacing the pump end on the previous in service pump (Magantec \$6797.56).

Please call to discuss.

Sincerely,

Donald A Trego
Vice President
Environmental Assessment & Remediations
Trego@Enviro-Asmnt.com
Phone: 1-888-EAR-6789
Fax: 631-447-6497
www.Enviro-Asmnt.com

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12/22/2009

Environmental Assessment & Remediations

INQ NO: Email of 7/27/09
 Proposal No: LAB09-07-27 01
 Item No: ITEM 001

July 27, 2009

Attn: Mr. Donald A Trego

MODEL:3298 M SIZE:2x3-8 QTY: 1

Operating conditions

SERVICE Transfer
 LIQUID Water / 5 % Hydrochoric Acid Temp. 70.0 deg F, SP.GR 1.000, Viscosity 1.000 cp, rated / max. suction pressure 0.0 / 0.0 psi g
 CAPACITY Rated 250.0 gpm
 HEAD 160.0 (ft)
Performance at 3560 RPM
 PUBLISHED EFFY 57.0% (CDS)
 RATED EFFY 56.5%
 RATED POWER 17.9 hp (Run out 20.6 hp)
 NPSHR 17.4 ft
 DISCH PRESSURE(R) 76.4 psi g (96.9 psi g @ Shut off) Based on 0.0 psi g Suc.press
 PERF. CURVE 5229-1 (Rotation CW viewed from coupling end)
 SHUT OFF HEAD 223.8 ft
 MIN. FLOW Continuous Stable: 44.0 gpm Hydraulic: 44.0 gpm Thermal: N/A

| PRICE in USD | |
|---|---------------|
| Pump Unit | Incl |
| Driver | Incl |
| Boxing | |
| Testing | |
| Freight | |
| Accessories | |
| Total 1 Unit | 18,436 |
| Shipment: 4 to 6 weeks Ex-Works / Factory | |

Materials

CONSTRUCTION Tefzel lined (close coupled)
 CASING Ductile iron/ Tefzel lined (max.casing.pres. @ rated temp. 225.0 psi g)
 MAGNETS Neodymium-Iron
 IMPELLER CFR Tefzel - Enclosed (7.3750 in rated, max=8.3800 in, min=5.5000 in)
 STAT. SHAFT MAT. Silicon Carbide
 MAG DRIVE ASSY D07717A03
 BASEPLATE Channel steel E01096A01

Casing connections

Casing drain flanged

Flanges

150# raised face

Liquid end features

Containment Shell O-ring in Viton
 Impeller balance holes
 Magnets balanced to ISO 1940 G6.3 balance levels
 Thrust and radial bearings-carbon

Testing

Non witnessed casing hydrostatic-test

Painting

Goulds Blue standard painting

Protection devices

0.4-10A (PS20, 100-240VAC)

Driver : Electric motor Manufacturer : Pump mfg`s Choice

| | | | |
|------------------|---------------------|------------|------------------------|
| FURNISHED BY | Pump mfg | MOUNTED BY | Pump mfg |
| RATING | 25.0 hp (18.6 KW) | ENCLOSURE | TEFC - Epact Efficient |
| PHASE/FREQ/VOLTS | 3/60 Hz/208-230/460 | SPEED | 3600 RPM |
| INSULATION/SF | F/1.15 | FRAME | 284TSC |

Weights and Measurements

| | |
|--|---------------------------------|
| TOTAL NET UNIT WEIGHT / VOLUME | 766.0 lb / 10.7 ft ³ |
| TOTAL GROSS UNIT WEIGHT / GROSS VOLUME | 862.0 lb / 19.2 ft ³ |

Program Version 1.30.0.0

Our offer does not include specific review and incorporation of any Statutory or Regulatory Requirements and the offer is limited to the requirements of the design specifications. Should any Statutory or Regulatory requirements need to be reviewed and incorporated then the Customer is responsible to identify those and provide copies for review and revision of our offer.

Our quotation is offered in accordance with our comments and exceptions identified in our proposal.

[Click here to download the pump Bulletin](#)

PUMPSMART FLOW ECONOMY ESTIMATES

FIXED SPEED

13.3
gpm/kW

Expected range for typical operation 10.4 to 16.2 gpm/kW



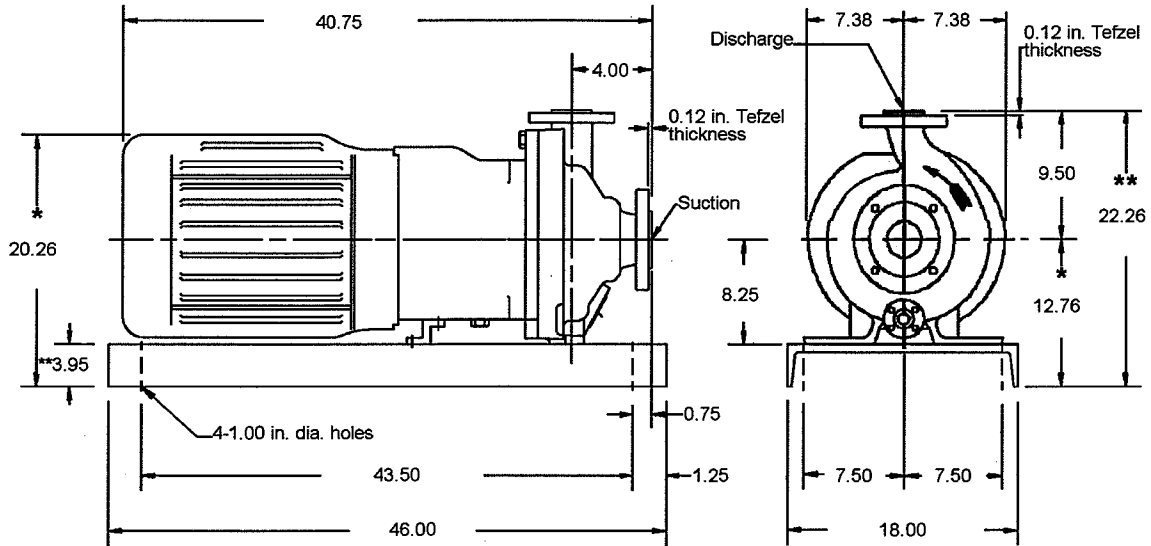
PUMPSMART

19.5
gpm/kW

Expected range for typical operation 15.9 to 22.5 gpm/kW

[Click Here To Learn More!](#)

Estimated Annual Savings 2,600 USD



Pump specification

| | | | |
|--|--------------------|-----------|---------------|
| SUCT.FLANGE SIZE 3" | DRILLING ANSI 150# | FACING RF | FINISH SMOOTH |
| DISCH.FLANGE SIZE 2" | DRILLING ANSI 150# | FACING RF | FINISH SMOOTH |
| PUMP ROTATION (LOOKING AT PUMP FROM MOTOR) | | CW | |
| TYPE OF LUBRICATION | N/A | COOLED | NO |
| TYPE OF STUFFING BOX | N/A | COOLED | NO |
| TYPE OF SEALING | SEALLESS PUMP | | |

Weights and Measurements

| | |
|-----------------|----------------------|
| PUMP | 176.0 lb |
| MOTOR | 340.0 lb |
| BASEPLATE | 250.0 lb |
| TOTAL | 766.0 lb |
| GR.VOLUME w/BOX | 19.2 ft ³ |
| GR.WEIGHT w/BOX | 862.0 lb |

Motor specification

| | | | | | |
|------------|------------------------|-----------|----------|-------|-------------------|
| MOTOR BY | PUMP MFG | MOUNT BY | PUMP MFG | MFG. | PUMP MFG'S CHOICE |
| FRAME | 284TSC | POWER | 25.0 hp | RPM | 3600 |
| PHASE | 3 | FREQUENCY | 60 HZ | VOLTS | 208-230/460 |
| INSULATION | F | S.F. | 1.15 | | |
| ENCLOSURE | TEFC - EPACT EFFICIENT | | | | |

Notes and References

- MTR DIMENSIONS ARE APPROXIMATE
- INSTALL FOUNDATION BOLTS IN PIPE SLEEVES
- ALLOW FROM 0.75 to 1.50in. FOR GROUTING. SEE INSTRUCTION BOOK FOR DETAILS.
- **Tolerance is +0 -0.56 in.
- *Tolerance is +0 -0.50 in.
- ** Foundation bolt grip thickness

FOR PUMP TAPPED OPENINGS REFER TO DWG.:
TLAB09-07-27 01 / ITEM 001

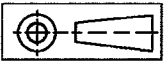
Auxiliary specification

| | |
|--------------|-------------------------|
| COUPLING BY | CPLG TYPE |
| CPL GUARD BY | CPLG GUARD MATL |
| BASEPLATE | CHANNEL STEEL E01096A01 |

DRAWING IS FOR REFERENCE ONLY.
NOT CERTIFIED FOR CONSTRUCTION UNLESS SIGNED.

Customer: Environmental Assessment & Remediations
Serial No:
Customer P.O. No:
Item No: ITEM 001
End User: Environmental Assessment & Remediations
Service: Transfer

DRAWING NO LAB09-07-27 01/ITEM 001



All dimensions are in inches.
Drawing is not to scale
Weights (lbs) are approximate

Copyright 2009
ITT Corp

Job/Inq.No. : Email of 7/27/09
 Purchaser : Environmental Assessment & Remediations
 End User : Environmental Assessment & Remediations Issued by : Lewis Blanche
 Item/Equip.No. : ITEM 001 Quotation No. : LAB09-07-27 01 Date : 07/27/2009
 Service : Transfer
 Order No. : Certified By : Rev. : 0

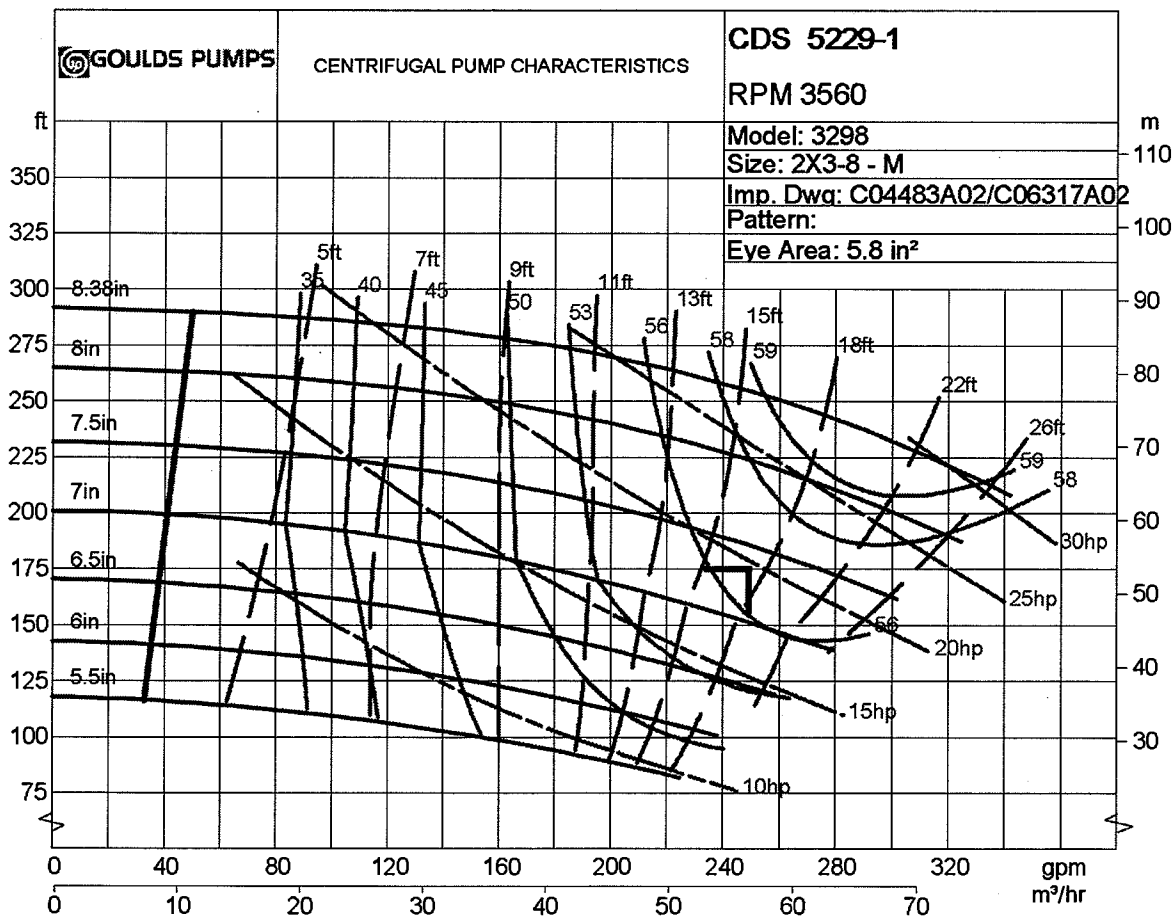
Operating Conditions

Liquid: Water / 5% Hydrochloric Acid
 Temp.: 70.0 deg F
 S.G./Visc.: 1.000/1.000 cp
 Flow: 250.0 gpm
 TDH: 160.0 ft
 NPSHa:
 Solid size:
 % Susp. Solids (by wtg):
 Max. Solids Size: 0.0060 in

Pump Performance

Published Efficiency: 57.0 % Suction Specific Speed: 6,180 gpm(US) ft
 Rated Pump Efficiency: 56.5 % Min. Hydraulic Flow: 44.0 gpm
 Rated Total Power: 17.9 hp Min. Thermal Flow: N/A
 Non-Overloading Power: 20.6 hp Power@Min. Flow: 11.29 hp
 Imp. Dia. First 1 Stg(s): 7.3750 in
 NPSHr: 17.4 ft
 Shut off Head: 223.8 ft
 Vapor Press:

- Notes:**
1. Power and efficiency Losses are not reflected on the curve below.
 2. Elevated temperature effects on performance are not included.



Paul Martorano

From: Trego, Donald A. [Trego@ENVIRO-ASMNT.COM]
Sent: Wednesday, July 29, 2009 4:45 PM
To: Payson Long
Cc: Stephen Tauss; Paul Martorano; Hough, Kevin
Subject: Site ID 152125 Active Industrial Remedial Services Call-out 118404 - Effluent Pump

Mr. Long,

As discussed, and approved by yourself and CPS, a replacement Magnatex Pump (MTA-A10-P-F20-2-FE) was ordered today.

I will keep you posted as to the status.

Please let me know if you have any questions.

Donald A Trego
Vice President
Environmental Assessment & Remediations
Trego@Enviro-Asmnt.com
Phone: 1-888-EAR-6789
Fax: 631-447-6497
www.Enviro-Asmnt.com

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Paul Martorano

From: Trego, Donald A. [Trego@ENVIRO-ASMNT.COM]
Sent: Friday, August 07, 2009 2:52 PM
To: Payson Long
Cc: Paul Martorano; Stephen Tauss; Hough, Kevin
Subject: Site ID 152125 Active Industrial Remedial Services Call-out 118404 - Status

Mr. Long,

This e-mail is to provide you with a brief status update on our activities at the above referenced project.

- 1) The effluent transfer pump replacement has been ordered and should ship from the manufacturer today.
- 2) A new 110 gallon 304 SS drum and associated 304 SS materials to construct a new knockout tank have been ordered. The drum should arrive in approximately 2 weeks. We will construct the new knockout tank when all the parts arrive and install upon completion.
- 3) Most of the piping repairs/replacements have been completed. Everything that can be done has been done. We are waiting on the replacement transfer pump to complete the piping repairs/replacements.
- 4) As we discussed today, EAR went to the site this afternoon to conduct basic property maintenance (i.e. grass cutting). We will plan on conducting the maintenance bi-weekly.

Please let me know if you have any comments or questions.

Sincerely,

Donald A Trego
Vice President
Environmental Assessment & Remediations
Trego@Enviro-Asmnt.com
Phone: 1-888-EAR-6789
Fax: 631-447-6497
www.Enviro-Asmnt.com

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12/22/2009

Paul Martorano

From: Trego, Donald A. [Trego@ENVIRO-ASMNT.COM]
Sent: Monday, August 17, 2009 11:36 AM
To: Payson Long
Cc: Paul Martorano; Stephen Tauss; Hough, Kevin
Subject: Site ID 152125 Active Industrial Remedial ServicesCall-out118404

Mr. Long,

As we discussed, the replacement transfer pump has been installed and the piping complete. We will be meeting onsite with D&B today at 15:00 so they can start up the system. We will be there to monitor the pump startup.

If you have any questions or concerns, please let me know.

Sincerely,

Donald A Trego
Vice President
Environmental Assessment & Remediations
Trego@Enviro-Asmnt.com
Phone: 1-888-EAR-6789
Fax: 631-447-6497
www.Enviro-Asmnt.com

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12/22/2009

Paul Martorano

From: Trego, Donald A. [Trego@ENVIRO-ASMNT.COM]
Sent: Thursday, September 03, 2009 11:33 AM
To: Payson Long
Cc: Paul Martorano; Hough, Kevin; Stephen Tauss
Subject: Site ID 152125 Active Industrial Remedial Services Call-out118404

Mr. Long,

As we discussed, the electrical motor for the effluent transfer pump was ordered last week after your approval. The motor has shipped and is expected to arrive at our office on September 8, 2009. Upon arrival, we will install and then meet with D&B to re-start the system.

The new 304 SS knockout tank has been fabricated to the original design and has been installed.

As discussed, when we removed the level sensor from the old knockout tank the bottom float was broken and off of the level rod. Please see attached photo. We have contacted the manufacturer and the replacement float is \$10 + shipping and markup. With your approval we will order the replacement float and repair the level sensor.

Donald A Trego
Vice President
Environmental Assessment & Remediations
Trego@Enviro-Asmnt.com
Phone: 1-888-EAR-6789
Fax: 631-447-6497
www.Enviro-Asmnt.com

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12/22/2009



ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Active Industrial Uniform
63 West Merrick Road
Lindenhurst, NY
NYSDEC Site # 152125

EAR Site Photos 09-18-09

Flange On System Effluent Piping That Was Leaking



Water Leaking From Cracked Flange

Rusted Bolts and Nuts



Inside Of Effluent Pipe



Flange Against Back Wall



Drain Pipe In Front Of Flange



Cut Off Rusted Bolts



New Flange And Piping Repair



New Coupling



Effluent Flow Meter Details





ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Active Industrial Uniform
63 West Merrick Road
Lindenhurst, NY
NYSDEC Site # 152125

EAR Site Photos 09-10-09

Old, Rusted Steel Knock-Out Tank



New, 304 Stainless Steel Knockout Tank





New Electrical Motor Attached To New Transfer Pump



Finished Re-Piping



Water Line Secured



Yard Maintenance
(Photo from 09-10-09)



ATTACHMENT F

ANALYTICAL RESULTS

**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 | 9/28/2009 | 9/28/2009 | 9/28/2009 | 9/28/2009 | 9/28/2009 | 9/28/2009 | 9/28/2009 | 9/28/2009 | |
| 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) | (ug/L) |
| VOCs | | | | | | | | | |
| Dichlorodifluoromethane | U | U | U | U | U | U | U | U | 5 GV |
| Chloromethane | U | U | U | U | U | U | U | U | 5 ST |
| Vinyl chloride | U | U | U | U | U | U | 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-Dichloroethane | 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 | 50 GV |
| Carbon disulfide | U | U | U | U | U | U | U | U | 60 GV |
| Methylene chloride | U | U | U | U | U | U | U | U | 5 ST |
| trans-1,2-Dichloroethane | 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 | 5 ST |
| 2-Butanone | U | U | U | U | U | U | U | U | 50 GV |
| cis-1,2-Dichloroethane | U | U | U | U | 18 J | 270 J | U | 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-Dichloropropane | 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 |
| Trichloroethane | U | U | U | 34 J | 9.1 | 400 | 2.5 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-Dichloropropane | U | U | U | U | U | U | U | U | 0.4 ST |
| 4-Methyl-2-pentanone | U | U | U | U | U | U | U | U | 5 ST |
| Toluene | U | U | U | U | U | U | U | U | 5 ST |
| trans-1,3-Dichloropropane | 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 |
| Tetrachloroethane | 1.1 J | 1.2 J | 12 | 610 | 46 | 240 | 26 | 1.5 J | 5 ST |
| 2-Hexanone | U | U | U | U | U | U | U | U | 60 GV |
| Dibromochloromethane | U | U | U | U | U | U | U | U | 60 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 | 60 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 | 5 ST |
| n-Propylbenzene | U | U | U | U | U | U | U | U | 0.04 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 | 5 ST |
| 1,4-Dichlorobenzene | U | U | U | U | U | U | U | U | 3 ST |
| n-Butylbenzene | U | U | U | U | U | U | U | U | 3 ST |
| 1,2-Dichlorobenzene | U | U | U | U | U | U | U | U | 5 ST |
| 1,2-Dibromo-3-chloropropane | U | U | U | U | U | U | U | U | 3 ST |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | U | U | U | 0.04 ST |
| Hexachlorobutadiene | U | U | U | U | U | U | U | U | 5 ST |
| Naphthalene | U | U | U | U | U | U | U | U | 0.5 ST |
| 1,2,3-Trichlorobenzene | U | U | U | U | U | U | U | U | 10 GV |
| Total VOCs | 1.1 | 1.2 | 12 | 644 | 73.1 | 910 | 28.5 | 1.5 | 5 ST |
| GENERAL CHEMISTRY | | | | | | | | | |
| pH (S.U.) | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.3 | 6.2 | 6-9 |

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

ATTACHMENT G

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 | Sample ID | Sample Date | Sample ID | Sample Date | Sample ID | Sample Date | Sample ID | Sample Date | Sample ID | Sample Date | Sample ID | Sample Date | Sample ID | Sample Date | Sample ID |
| 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 | 5U | | 5U | | 5U | | | | 5U | | 5U | | 5U | | 5U | |
| Tetrachloroethene | 5U | | J | | J | | J | | 5U | | 5U | | 5U | | 5U | |
| trans-1,2-Dichloroethene | 5U | | 5U | | 5U | | 2J | | 5U | | 5U | | 5U | | 5U | |
| Trichloroethene | 5U | | 3J | | 4J | | | | 5U | | 5U | | 5U | | 5U | |
| Vinyl chloride | 5U | | 5U | | 5U | | J | | 5U | | 5U | | 25U | | 5U | |

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

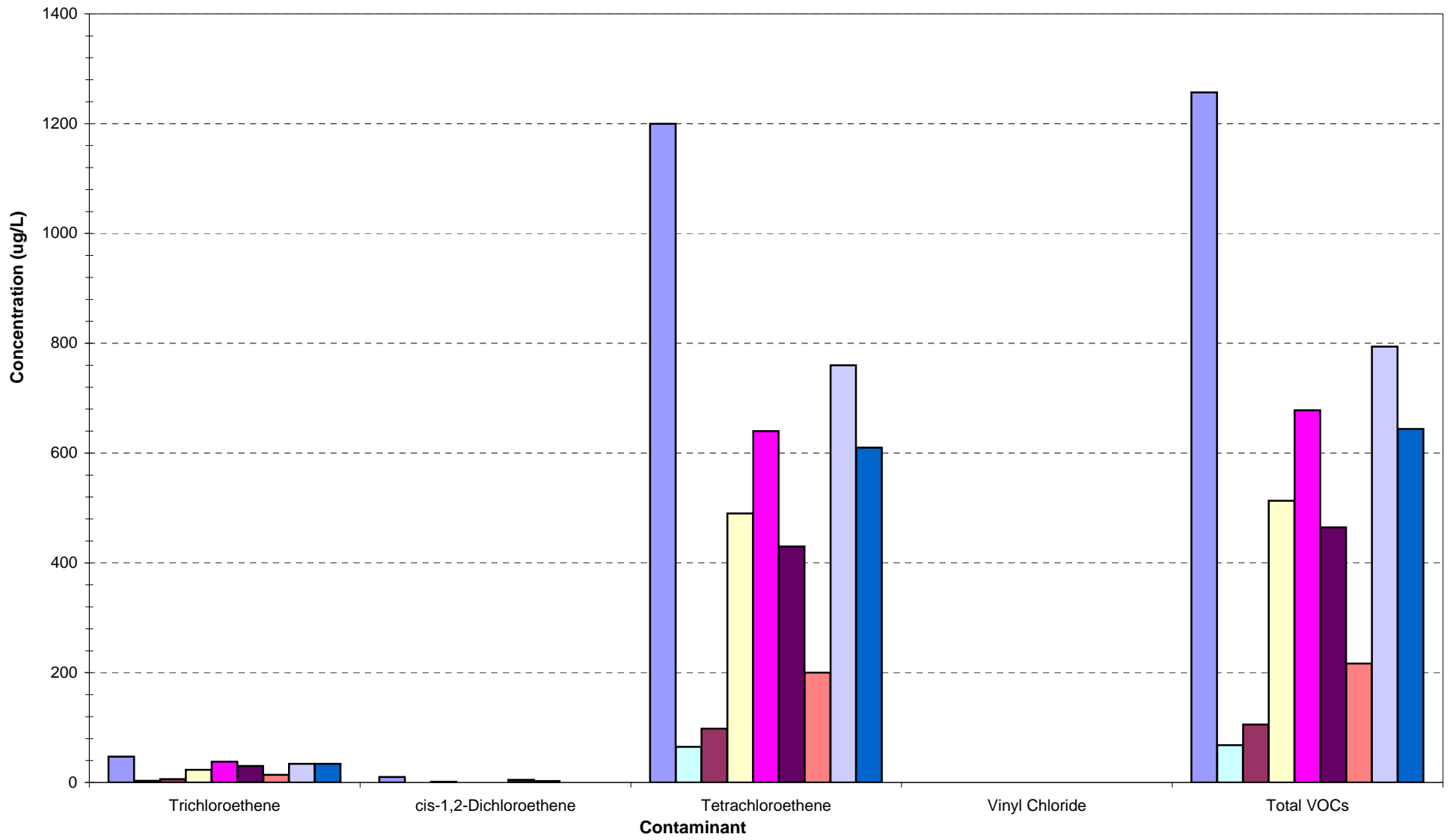
Groundwater Effluent Limitations (NYSDEC, 1998).

Detections are indicated in BOLD

ATTACHMENT H

MONITORING WELL TREND BAR GRAPHS

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

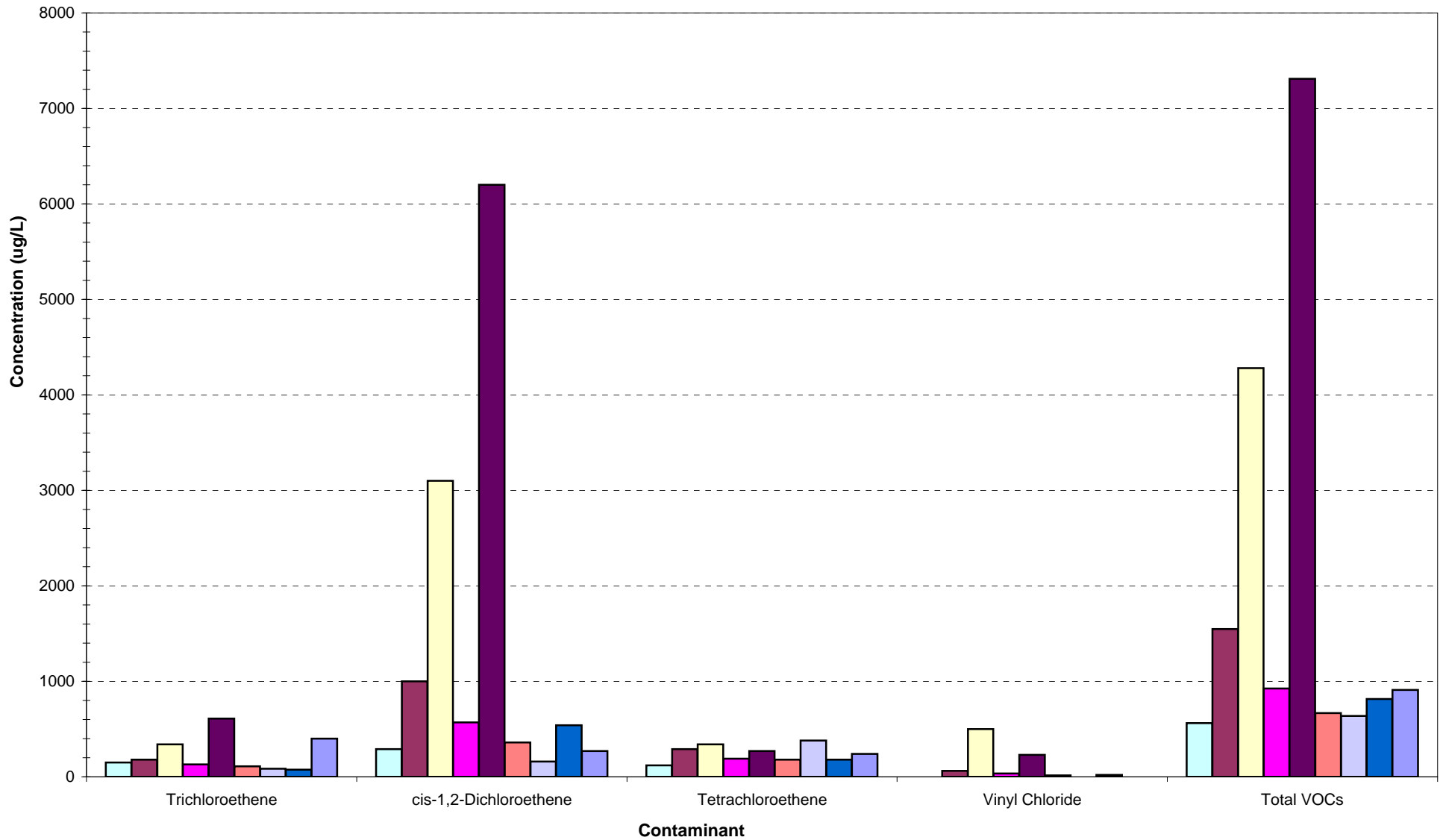


Sample Date Legend

| | | |
|-----------|-----------|------------|
| 9/28/2007 | 1/3/2008 | 3/6/2008 |
| 6/24/2008 | 9/9/2008 | 12/15/2008 |
| 4/1/2009 | 6/23/2009 | 9/28/2009 |

* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

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

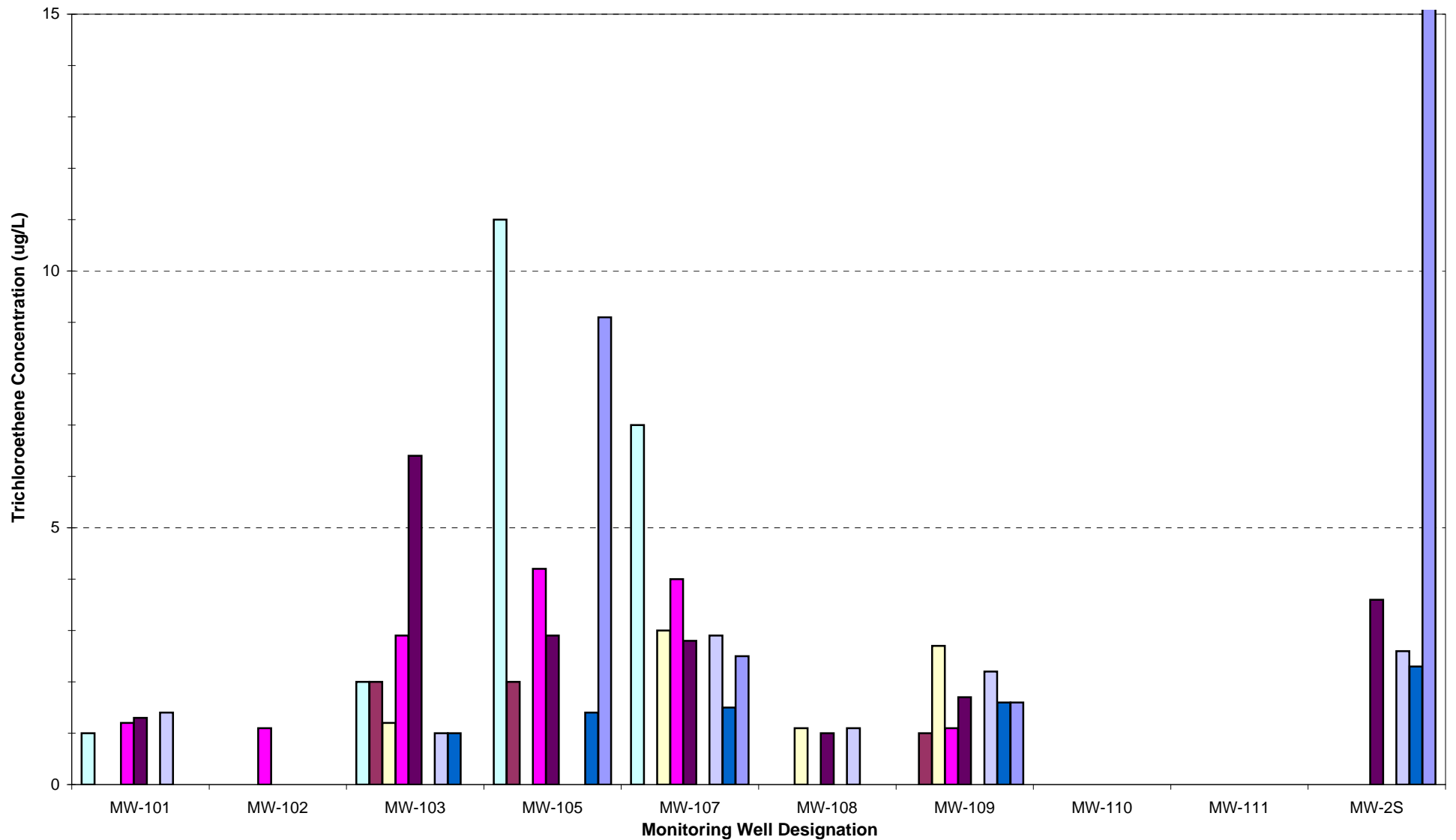


Sample Date Legend

| | | |
|-----------|-----------|------------|
| 9/28/2007 | 1/3/2008 | 3/6/2008 |
| 6/24/2008 | 9/9/2008 | 12/15/2008 |
| 4/1/2009 | 6/23/2009 | 9/28/2009 |

* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

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



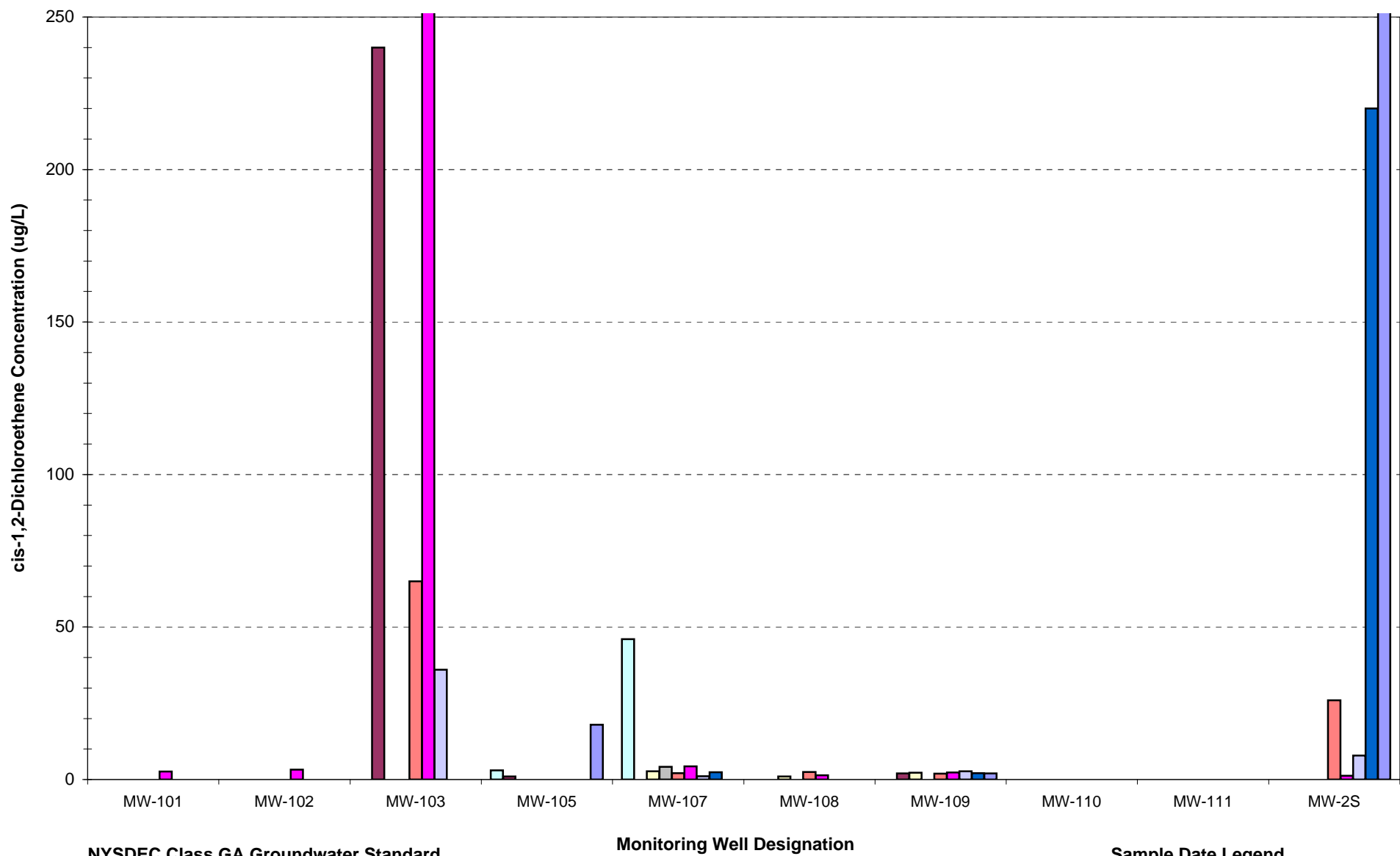
NYSDEC Class GA Groundwater Standard
Trichloroethene - 5 ug/l

Sample Date Legend

| | | |
|-----------|-----------|------------|
| 9/28/2007 | 1/3/2008 | 3/6/2008 |
| 6/24/2008 | 9/9/2008 | 12/15/2008 |
| 4/1/2009 | 6/23/2009 | 9/28/2009 |

* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

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



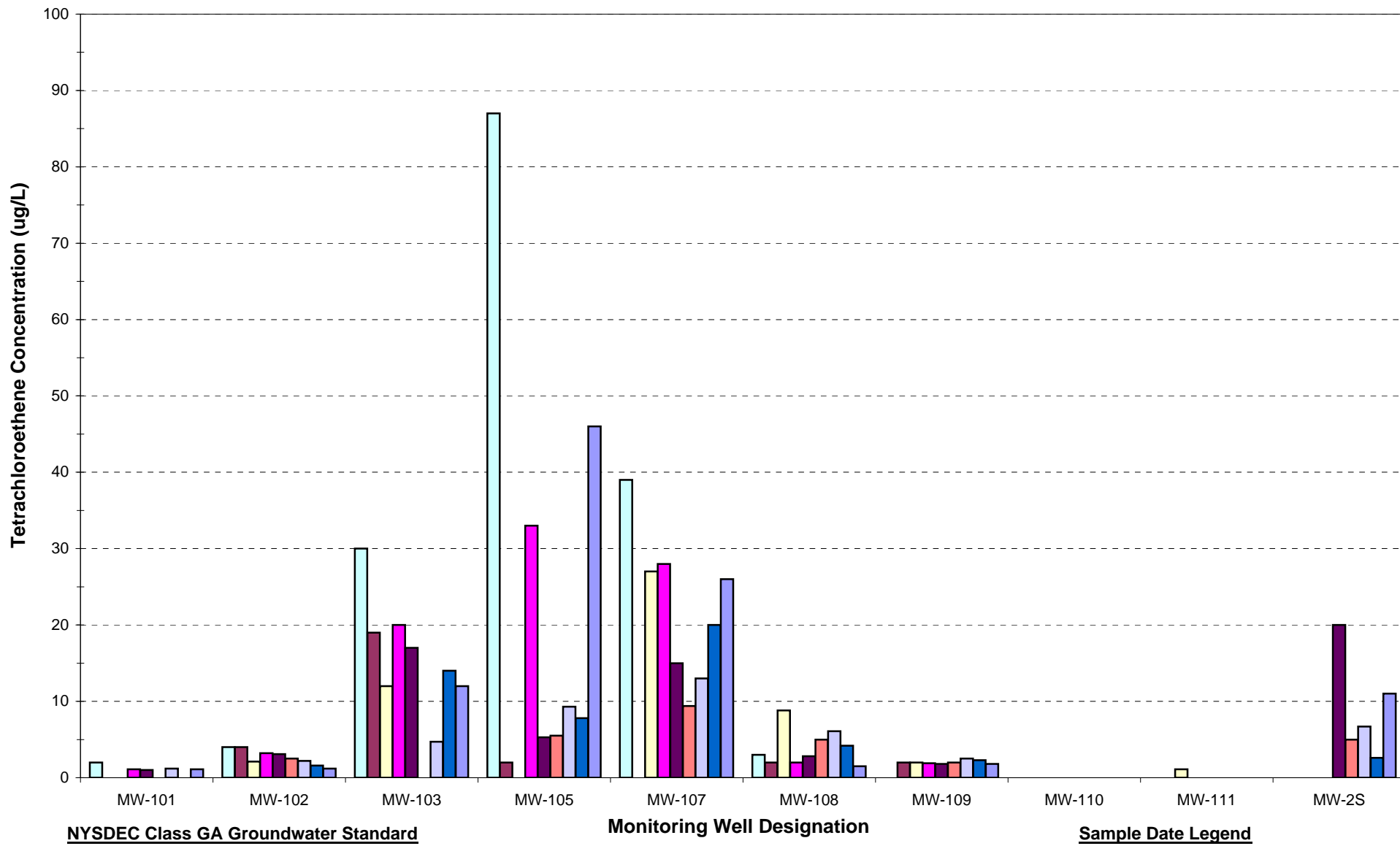
NYSDEC Class GA Groundwater Standard
cis-1,2-dichloroethene - 5 ug/l

Sample Date Legend

| | | |
|-----------|-----------|------------|
| 9/28/2007 | 1/3/2008 | 3/6/2008 |
| 6/24/2008 | 9/9/2008 | 12/15/2008 |
| 4/1/2009 | 6/23/2009 | 9/28/2009 |

* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

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



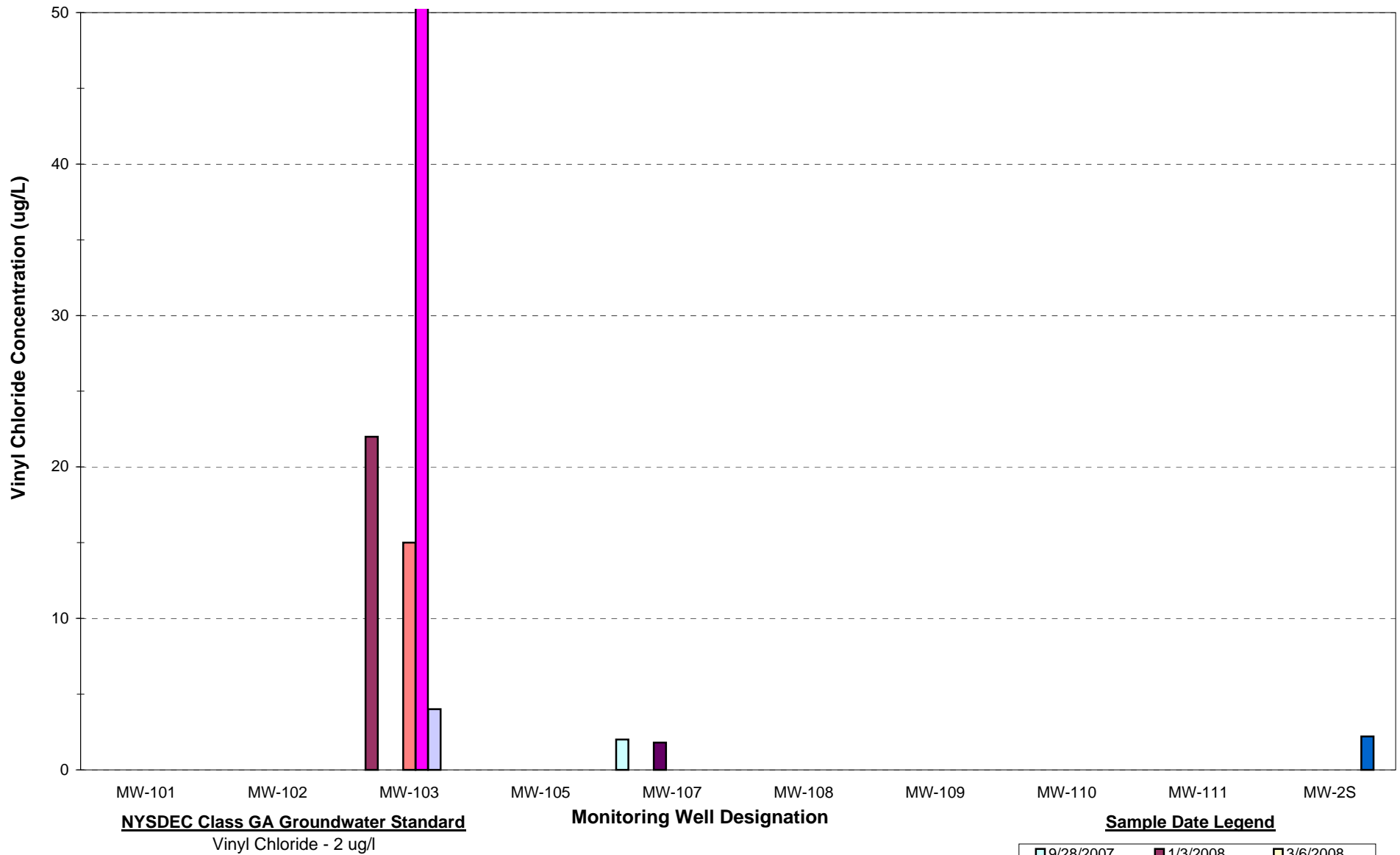
NYSDEC Class GA Groundwater Standard
Tetrachloroethene - 5 ug/l

Sample Date Legend

| | | |
|-----------|-----------|------------|
| 9/28/2007 | 1/3/2008 | 3/6/2008 |
| 6/24/2008 | 9/9/2008 | 12/15/2008 |
| 4/1/2009 | 6/23/2009 | 9/28/2009 |

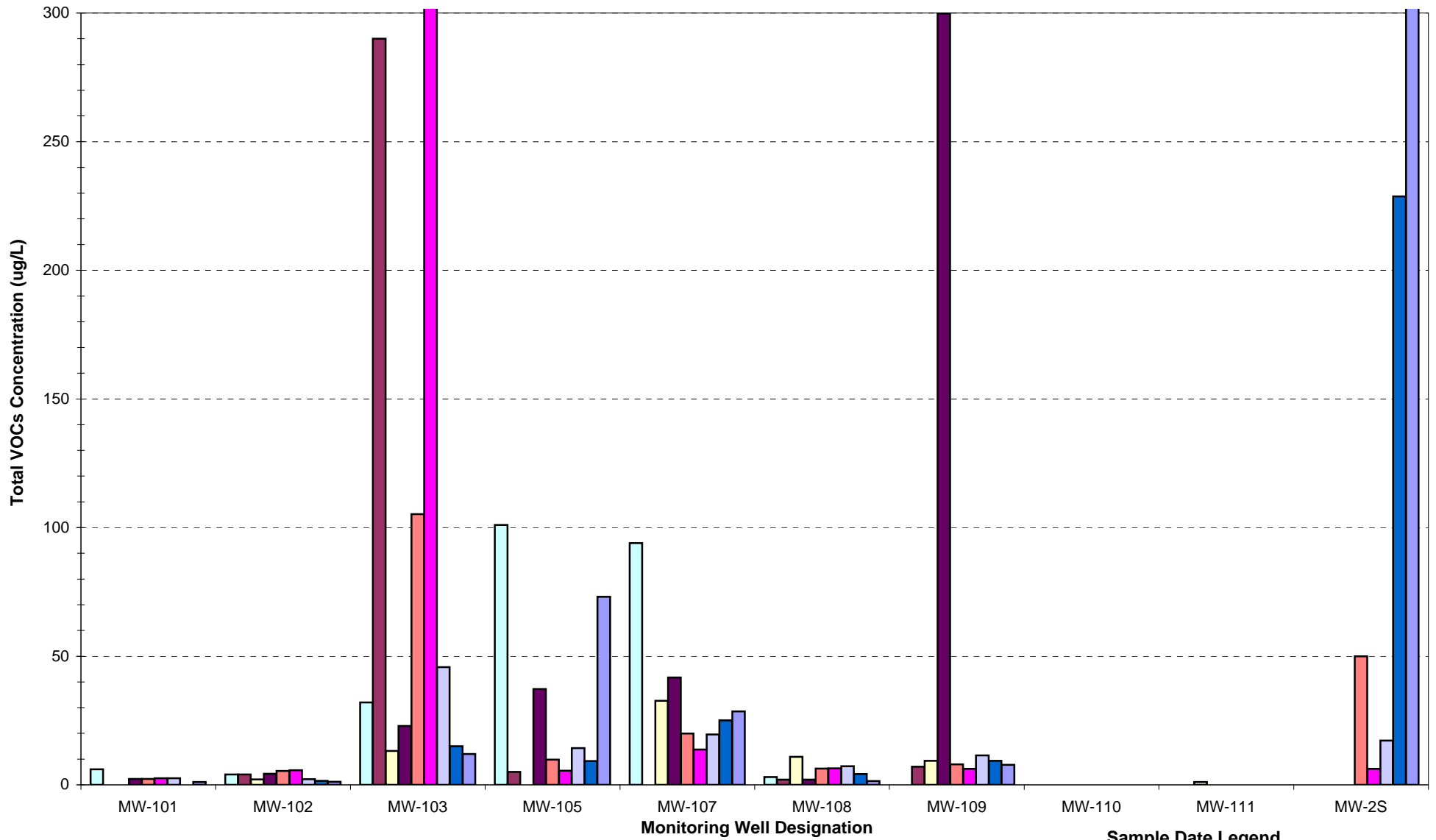
* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

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



* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

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



* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

ATTACHMENT I

DATA VALIDATION CHECKLISTS

DATA VALIDATION CHECK LIST

| | |
|---------------------------|----------------------------------|
| Project Name: | Active Industrial |
| Project Number: | 2578-04 |
| Sample Date(s): | September 28, 2009 |
| Matrix/Number of Samples: | Water/ 11 Trip Blank/ 1 |
| Analyzing Laboratory: | Mitkem Laboratories, Warwick, RI |

Analyses: Volatile Organic Compounds (VOCs): USEPA SW 846 method 8260

Laboratory Report No: SH1887 Date:10/21/2009

ORGANIC ANALYSES

VOCS

| | Reported | | Performance Acceptable | | Not Required |
|---|----------|-----|------------------------|-----|--------------|
| | No | Yes | No | Yes | |
| 1. Holding times | | X | | X | |
| 2. Blanks | | | | | |
| A. Method blanks | | X | | X | |
| B. Trip blanks | | X | | X | |
| C. Field blanks | | | | | X |
| 3. Matrix spike (MS) %R | | X | X | | |
| 4. Matrix spike duplicate (MSD) %R | | X | X | | |
| 5. MS/MSD precision (RPD) | | X | 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 exception:

Sample result exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

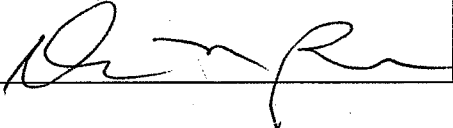
| Sample ID | Compound | Original Analysis | Diluted Analysis | Reported Analysis |
|-----------|------------------------|-------------------|------------------|-------------------|
| MW-2S | Cis-1,2-dichloroethene | 280 E | 310 D | 310 D |

- 3-5. The %Rs for 1,2,3-trichloropropane was below the QC limit in the MS associated with the samples. The %Rs for 2-butanone and cis-1,2-dichloroethene were above the QC limit in the MSD associated with the samples. 1,2,3-Trichloropropane was not detected in the all samples

and were qualified as estimated (UJ). Cis-1,2-dichloroethene was detected in several samples and were qualified as estimated (J).

The RPD was above the QC limit in the MS/MSD for cis-1,2-dichloroethene associated with the samples. Cis-1,2-dichloroethene were not detected in the associated samples and were qualified as estimated (J/UJ).

6. The %R was above the QC limit for 1,1,1-trichloroethane, 1,2-dichloroethane and bromodichloromethane in the LCS associated with MW-104 and MW-106. They were not detected in the samples and therefore did not impact the usability of the reported sample results.
9. The surrogate %R for dibromfluormethane was above QC limits in MW-109, MW-102, MW-105, MW-103 and MW-2S. All VOCs that were detected in the associated samples were qualified as estimated (J).

| | |
|------------------------------------|--|
| VALIDATION PERFORMED BY & DATE: | Donna M. Brown 12/10/2009 |
| VALIDATION PERFORMED BY SIGNATURE: |  |

ATTACHMENT J

**PROPOSED OFF-SITE
MONITORING WELL LOCATION MAP**



LEGEND

PROPOSED MONITORING WELL  MW-113

EXISTING/HISTORICAL MONITORING WELL  MW-109



SOURCE: GOOGLE EARTH 2005



ACTIVE INDUSTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK
**PROPOSED OFF-SITE MONITORING
WELL LOCATION MAP**

FIGURE 5-2