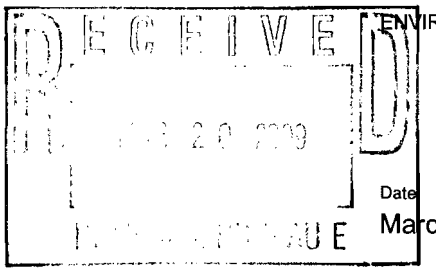
ARCADIS
Infrastructure, environment, buildings

ARCADIS
6723 Towpath Road
P.O. Box 66
Syracuse
New York 13214-0066
Tel 315.446.9120
Fax 315.671.9450
www.arcadis-us.com

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



Subject:
McKesson Envirosystems
Bear Street Site
Syracuse, New York
Site No. 07-34-020

Date:
March 19, 2009

Contact:
David J. Ulm

Phone:
315.671.9210

Email:
david.ulm@
arcadis-us.com

Our ref:
B0026003.00190 #10

Dear Mr. Long:

This Biannual Process Control Monitoring Report (Biannual Report) for the McKesson Envirosystems, Bear Street Site (the Site), located at 400 Bear Street in Syracuse, New York, has been prepared by ARCADIS on behalf of McKesson Corporation. This report describes the operation and maintenance (O&M) activities conducted and the monitoring results obtained from July through December 2008. This report was prepared in accordance with the requirements of the New York State Department of Environmental Conservation- (NYSDEC-) approved Site Operation and Maintenance Plan (Site O&M Plan) (Blasland, Bouck & Lee, Inc. [BBL], Revised August 1999). It was also prepared in accordance with a December 29, 1999 letter from David J. Ulm (BBL), to Michael J. Ryan, P.E. (NYSDEC), which presented the long-term process control monitoring program as an addendum to the Site O&M Plan (BBL 1999b). The Site O&M Plan and the addendum are collectively referred to herein as the Site O&M Plan.

The Site is divided horizontally into three areas, Area 1, 2 and 3, as shown on Figure 1. Additionally, the Site is divided vertically into two operable units (OUs): OU1 – Unsaturated Soil and OU2 – Saturated Soil and Groundwater. The NYSDEC-selected remedy for both OUs includes ongoing O&M activities. Since completing OU1 remedial activities in 1994/1995 and commencing OU2 in-situ anaerobic bioremediation treatment activities in July 1998, biannual reports have been submitted to NYSDEC, detailing both the O&M activities and the results of the process control monitoring program. A site description and history, along with a description of completed remedial actions and ongoing O&M activities, are detailed in previous biannual reports, including BBL's August 2001 Biannual Report, which

documented remedial activities from July through December 2000 (BBL 2001). That information remains the same; therefore, it is not repeated herein.

As detailed in the Biannual Report submitted in June 2007, the OU2 in-situ anaerobic bioremediation treatment program was modified to an in-situ aerobic bioremediation treatment program in August 2006. Mr. Mark Mateunas (NYSDEC) verbally approved the modification in July 2006. From August 2006 to October 2008, the in-situ aerobic bioremediation treatment program consisted of amending the groundwater with an oxygen source and macronutrients. In October 2008 the in-situ aerobic bioremediation treatment program was modified to include a new oxygen source in Areas 2 and 3; at that time macronutrient amendments were discontinued in Areas 1, 2, and 3. Mr. Gerald Ryder (NYSDEC) verbally approved the modification in October 2008.

During the current reporting period (July through December 2008), no substantial system repairs were required and system operations functioned properly. The Area 3 in-situ aerobic bioremediation treatment system operated satisfactorily during this reporting period without interruption, and approximately 619,033 gallons of water were pumped from the withdrawal trench and introduced into the Area 3 infiltration trenches, as detailed herein.

The information provided in this Biannual Report has been organized into the following sections:

- **I. In-situ Aerobic Bioremediation Treatment Program Activities** – Describes the in-situ aerobic bioremediation treatment program activities conducted between July and December 2008.

- **II. Hydraulic Process Control Monitoring** – Describes the results of the hydraulic process control monitoring activities conducted between July and December 2008.

- **III. Chemical of Concern (COC) Process Control and Biannual Groundwater Monitoring Program** – Describes the August 2008 results of the COC process control and Biannual Groundwater Monitoring Program, and provides a summary of the COC data obtained at the Site from 1988 through August 2008.

- **IV. Conclusions** – Provides conclusions based on the results of the process control monitoring activities.

- **V. Recommendations** – Provides recommendations for the in-situ aerobic bioremediation treatment program and monitoring activities.

I. In-situ Aerobic Bioremediation Treatment Program Activities

The in-situ aerobic bioremediation treatment program was verbally approved by NYSDEC in July 2006 as an alternate approach to lowering aniline and other COC concentrations at the three areas. This treatment program consists of introducing an oxygen source and macronutrients into Areas 1, 2 and 3. The oxygen source for all three areas between August 10, 2006 (beginning of the in-situ aerobic bioremediation treatment program) until October 2008 (modifications of the in-situ aerobic bioremediation treatment program) was dilute hydrogen peroxide (H_2O_2); the macronutrients include nitrogen and phosphorus in the form of Miracle-Gro®.

In October 2008, the in-situ aerobic bioremediation treatment program was modified to include an oxygen infusion system to provide a continuous source of oxygen gas to the groundwater in Areas 2 and 3 via in situ submerged oxygen curtain (iSOC®) units and the installation of an oxygen diffuser into the Area 3 equalization (EQ) tank, which was installed in January 2009. However, H_2O_2 amendments continued to be added to groundwater in Area 1. Installation of the oxygen diffuser into the Area 3 EQ tank was delayed for 3 months until January 2009; the supplier of the system was inoperative in October 2008 due to damages incurred to their business during the 2008 Gulf Coast hurricane season.

The following activities were conducted as part of this treatment program during this reporting period (see Figure 1 for referenced locations).

- Added H_2O_2/nutrient-amended groundwater into the infiltration trenches in Areas 1, 2 and 3 once per week.

- Added H_2O_2/nutrient-amended groundwater into piezometers in Area 1 (PZ-S, PZ-G, PZ-Q and PZ-R), Area 2 (PZ-W) and Area 3 (PZ-E); and to well points in Area 1 (WP-4 and WP-5) and Area 3 (WP-1, WP-2, WP-3, WP-6, WP-7 and WP-8) once per week to better distribute dissolved oxygen (DO) into the shallow hydrogeologic unit.

- Measured DO levels in the field once per week in Area 1 (MW-33), Area 2 (MW-36) and Area 3 (MW-27 and MW-28).

H_2O_2 was added to the groundwater at a concentration of 200 parts per million (ppm), and nutrients were added at a carbon:nitrogen:phosphorus ratio of 50:25:10.

The installation of the oxygen infusion system was verbally approved by NYSDEC during a phone conversation between Mr. Ryder (NYSDEC) and Ms. Dawn Penniman (ARCADIS) in October 2008 and confirmed in a December 31, 2008 letter from Mr. Ryder to Ms. Penniman. The oxygen infusion system installed in Area 2 consists of the installation of five 2-inch diameter by approximately 20-foot deep diffusion wells parallel to the existing groundwater infiltration trench in Area 2 located between MW-34 and TW-02RR, the construction of a shed in Area 2 to house the oxygen delivery system, and the installation of five iSOC® units (one unit placed in each diffusion well). Figure 2 shows the approximate locations of the shed and diffusion wells in Area 2.

A similar oxygen infusion system was installed in Area 3 and consists of the installation of eight 2-inch diameter by approximately 20-foot deep diffusion wells, including eight iSOC® units (one unit placed in each diffusion well). The diffusion wells are located in the center of Area 3 between existing groundwater infiltration trench A and trench B, and upgradient of MW-8SR and MW-27; an oxygen diffuser has been placed within the existing EQ tank located inside the Area 3 shed. Figure 3 shows the approximate location of the diffusion wells in Area 3.

Based on the quantities of nutrients that have been added to the groundwater to date and the decrease in COC concentrations, it was assumed that the nutrients present in the groundwater are at sufficient quantities for aerobic biodegradation to continue. Therefore, nutrient amendments were discontinued for Areas 1, 2 and 3 in October 2008.

II. Hydraulic Process Control Monitoring

The hydraulic process control monitoring program was established in each of the three impacted areas to:

- confirm that containment has been established in each area
- verify that the groundwater withdrawal rates in Area 3 do not cause the freshwater/saltwater interface to upcone to the bottom of the withdrawal trench
- verify that saturated soil/groundwater conditions within the shallow hydrogeologic unit are conducive to microbial degradation of the COCs by aerobic microbial populations

- optimize the system operation performance in Area 3

As part of the hydraulic process control monitoring activities, groundwater level measurements were obtained at existing monitoring wells and piezometers that are screened entirely within the sand layer of the shallow hydrogeologic unit and located in and around each of the three areas. Groundwater level measurements were also obtained from selected deep monitoring wells (MW-3D, MW-6D, MW-9D, MW-11D, MW-18, MW-19, MW-23I, MW-24DR and MW-25D). Additionally, a surface water level measurement was obtained from a staff gauge located in the Barge Canal adjacent to the Site. The hydraulic process control monitoring activities were conducted on August 25, 2008. The monitoring locations are shown on Figure 1. Prior to conducting the hydraulic (and COC) monitoring, Ms. Penniman (ARCADIS) notified Mr. Ryder (NYSDEC) via an August 2008 e-mail.

Table 1 summarizes the groundwater level measurements obtained during the August 25, 2008 hydraulic process control monitoring event, as well as those obtained since October 2006 (just after initiating the in-situ aerobic bioremediation treatment program). Table 2 in Attachment A summarizes the historical groundwater level measurements obtained from June 1998 (immediately prior to commencing the in-situ anaerobic bioremediation treatment activities) through June 2006 (prior to initiating the in-situ aerobic bioremediation treatment program). Figure 4 depicts the potentiometric surface of the Site's shallow hydrogeologic unit using the August 2008 data set. Site-wide groundwater elevations for this round of sampling were consistent with elevations measured since the startup of the treatment system. The results and corresponding conclusions of the hydraulic process control monitoring are also summarized below.

- A closed-loop hydraulic cell continues to be maintained in Area 3, as shown on Figure 4.

- The groundwater withdrawal rate in Area 3 ranged from approximately 1.66 to 3.80 gallons per minute from July through December 2008.

- The withdrawal of groundwater continues to induce a hydraulic gradient in Area 3 from perimeter monitoring wells MW-25S and MW-17R toward the withdrawal trench.

- In Area 3, approximately 75 percent of the recovered groundwater continues to be introduced to the secondary infiltration trench "B," and the remaining 25 percent continues to be introduced to the secondary infiltration trench "A." This introduction

of recovered groundwater into the secondary infiltration trenches typically increases the rate at which H_2O_2/nutrient-amended groundwater moves through the area of relatively higher concentrations of COCs (between the secondary infiltration and recovery trenches).

- The hydraulic data that were obtained over the 9.5-year operating history of the treatment system in Area 3 have consistently indicated no discernable effect on the hydraulic gradient of the deep hydrogeologic unit.

The weekly conductivity measurements of groundwater pumped from the withdrawal trench in Area 3 ranged from approximately 1 to 2.18 millisiemens per centimeter (mS/cm), which is consistent with the range of the conductivity levels measured prior to system operation (1 to 4 mS/cm). These measurements are well below the measured conductivity of the deep unit, which is greater than the calibration range of the field instrument (10 mS/cm). These data indicate that the operation of the Area 3 treatment system has not caused the freshwater/saltwater interface to upcone to the base of the withdrawal trench.

III. COC Process Control and Biannual Groundwater Monitoring Program

The COC process control and Biannual Groundwater Monitoring Program activities were conducted from August 25 through 28, 2008, in accordance with the Site O&M Plan. Groundwater samples were collected August 26 through 28, 2008. In addition, the following groundwater quality parameters were measured in the field during this August 2008 COC sampling event: temperature, conductivity, DO and oxidation/reduction potential. The existing monitoring wells and piezometers that were used to conduct the long-term process control monitoring program and a schedule for implementing this program are provided in Table 2. The monitoring locations are shown on Figure 1. It should be noted that the November interim sampling event proposed in the previous biannual report was not conducted because the iSOC® units were not installed until late October when temperatures decreased. Generally microbial degradation rates decrease by approximately 50% when groundwater temperatures drop 10 ° C. The groundwater temperatures at Bear Street typically decrease between 5 to 10 ° C during the winter months. Therefore, conducting the interim sampling event during the winter months would provide information on the system during the time when the microorganisms are least active. The affect of the iSOC® units on the degradation of the COCs may not be as clear during the winter than during warmer temperatures generally occurring in the spring/summer months when the next biannual sampling events will be conducted.

In accordance with the requirements of the NYSDEC-approved monitoring program, laboratory analytical results for the August 2008 samples were validated. A summary of these validated COC groundwater analytical results is presented in Table 3 and shown on Figures 5 and 6. These figures and table also summarize the COC groundwater analytical results obtained during the biannual monitoring events conducted from September 2006 through August 2008, which collectively represent the results obtained from the start of the in-situ aerobic bioremediation treatment activities. The COC groundwater analytical results obtained prior to September 2006 are summarized on the table and figures in Attachment A. Copies of the validated analytical laboratory reports associated with the August 2008 sampling event are presented in Attachment B. A summary of the COC analytical results and DO measurements, and the downgradient perimeter monitoring locations for each of the three areas is presented herein.

During the August 2008 sampling event, the presence or absence of non-aqueous phase liquid (NAPL) was assessed in existing monitoring wells and piezometers based on observations made during the process control monitoring event. NAPL was not identified in any of the monitoring wells or piezometers used during the process control monitoring program.

To monitor the effectiveness of the in-situ aerobic biodegradation treatment program, DO levels continue to be measured on a weekly basis at monitoring locations MW-27, MW-28, MW-33 and MW-36 during this reporting period. In addition, DO levels were measured on a weekly basis at monitoring locations MW-8SR and TW-02RR immediately following the installation of the oxygen infusion system in October 2008. Table 4 summarizes these DO measurements.

The COC analytical results and DO measurements, along with the downgradient perimeter monitoring locations for each area, are summarized below.

Area 1

- COC concentrations detected in groundwater samples collected from Area 1 monitoring wells during August 2008 were generally low, ranging from non-detect to concentrations just slightly greater than their respective NYSDEC Groundwater Quality Standard (Table 3 and Figure 5). All COC concentrations detected during August 2008 at Area 1 monitoring wells were approximately equal to or below concentrations detected during the March 2008 sampling event, with the exception of benzene concentrations detected at MW-9S and MW-31, and N,N-

dimethylaniline concentrations at MW-31, which were slightly higher during this reporting period.

- Although benzene, ethylbenzene, xylene and N,N-dimethylaniline at MW-9S exceeded their respective NYSDEC Groundwater Quality Standards in August 2008, the concentrations are consistent with those detected during prior sampling events conducted during the aerobic bioremediation program.

- Benzene and N,N-dimethylaniline concentrations at MW-31 were detected above their respective NYSDEC Groundwater Quality Standards this reporting period; however, they are consistent with concentrations detected during prior sampling events conducted during the aerobic bioremediation program.

- The aniline concentration detected at MW-33 has remained below standard for the last three sampling events; it declined from 46 parts per billion [ppb] detected in June and August 2007 to 0.1 ppb in November 2007, which is below the NYSDEC Groundwater Quality Standard (5 ppb), to non-detect in March and August 2008.

- During this reporting period, weekly DO levels were measured at MW-33 from July 2 to December 29, 2008 and are summarized in Table 4. The DO levels ranged from 0.42 to 2.06 ppm. Aerobic conditions in groundwater are generally indicated when DO levels are greater than 2 ppm, as shown in Table 4 only one DO level measured this reporting period in Area 1 was greater than 2 ppm.

- The DO data were evaluated using the Mann-Kendall statistical analysis to determine if there has been a statistically significant (confidence interval <95 percent) increase in DO concentrations. The results of the Mann-Kendall Test indicate that there is a statistically significant increasing trend in DO concentrations at MW-33. There appears to be a promising upward trend in the DO concentrations at MW-33.

Area 2

- COC concentrations detected in groundwater samples collected from Area 2 monitoring wells were generally low, with the exception of the aniline concentrations detected in the groundwater samples collected from TW-02RR (Table 3 and Figure 5). The aniline concentrations at MW-34 and MW-36 were below their respective NYSDEC Groundwater Quality Standard during this reporting period; these concentrations are among the lowest detected since June

2006, prior to the start of the in-situ aerobic bioremediation treatment program in August 2006.

- The aniline concentrations detected in groundwater samples collected at TW-02RR was higher during this reporting period (9,600 ppb in August 2008) than the concentrations detected during the previous sampling period (7,500 ppb in March 2008). No other COCs, except benzene and xylene, were detected at concentrations greater than their respective NYSDEC Groundwater Quality Standards in the groundwater samples collected at this location during the August 2008 sampling event. The August 2008 benzene and xylene concentrations were consistent with previous detections at TW-02RR.

- The aniline concentration detected at MW-34 (0.6 ppb) was below the NYSDEC Groundwater Quality Standard (5 ppb); this is consistent with or lower than historical concentrations. No other COCs, except N,N-dimethylaniline, were detected at concentrations greater than their respective NYSDEC Groundwater Quality Standard in the August 2008 sampling event at this location.

- The aniline concentrations detected at MW-36 have been continuously decreasing for the last five sampling events from 1,300 ppb in June 2007 to 4.5 ppb in August 2008, which is below the NYSDEC Groundwater Quality Standard (5 ppb). No other COCs, except benzene, xylene and N,N-dimethylaniline, were detected at concentrations greater than their respective NYSDEC Groundwater Quality Standard in the August 2008 sampling event at this location.

- Weekly DO levels were measured in Area 2 (MW-36) from July 2 to December 29, 2008 and are summarized in Table 4. The DO levels ranged from 0.50 to 1.89 ppm. Weekly DO levels were measured at TW-02RR from November 7, 2008 through December 29, 2008, DO levels ranged from 0.43 to 1.15 ppm.

- The DO data were evaluated using the Mann-Kendall statistical analysis to determine if there has been a statistically significant (confidence interval <95 percent) increase in DO concentrations. The results of the Mann-Kendall Test indicate that there is a statistically significant increasing trend in DO concentrations at MW-36. The Mann-Kendall Test indicates there is no significant trend in DO concentrations at TW-02RR; however the results do support that there is an increasing trend within the 75 percent confidence interval. There appears to be a promising upward trend in the DO concentrations at MW-36.

Area 3

- COC concentrations detected in groundwater samples collected from Area 3 monitoring wells during the August 2008 sampling event were generally consistent with or lower than the concentrations detected in the previous sampling event conducted in March 2008, with the exception of the aniline concentration detected at MW-8SR (Table 3 and Figure 6).

- Monitoring well MW-8SR is located in the center of Area 3 and within the area that has been identified as containing relatively higher concentrations of COCs (Figure 6). The aniline concentration detected at MW-8SR (32,000 ppb) during this reporting period was higher than the March 2008 concentration (5,800 ppb), but consistent with previous sampling events. The other COC concentrations exceeding their respective NYSDEC Groundwater Quality Standard in the groundwater sample collected from MW-8SR in August 2008 (i.e., benzene, toluene, ethylbenzene and xylene [BTEX]) were consistent with previously detected concentrations.

- The aniline concentration detected at MW-27 decreased from 13,000 ppb in March 2008 to 2,400 ppb in August 2008. The fluctuations in aniline concentrations that have been detected at MW-27 may be due in part to a seasonal effect. The other COCs detected in the groundwater sample collected from MW-27 in August 2008 (i.e., BTEX) were relatively low or below their respective NYSDEC Groundwater Quality Standard and consistent with previously detected concentrations.

- Monitoring well MW-28 is also located within Area 3 and historically exhibited relatively higher concentrations of methylene chloride and aniline. The aniline concentration detected at MW-28 (0.7 ppb) was below the NYSDEC Groundwater Quality Standard (5ppb) this reporting period; this is the lowest concentration of aniline detected at MW-28 since initiating bioremediation treatment at the Site. Methylene chloride concentrations continue to be below detection limits in groundwater samples collected from MW-28, consistent with samples collected since the October 2003 sampling event. No other COCs were detected above their respective Groundwater Quality Standard in groundwater samples collected from MW-28, with the exception of benzene (3.8 ppb), which is just slightly greater than its NYSDEC Groundwater Quality Standard of 1 ppb.

- The aniline concentration detected at MW-30 (31 ppb) was above the Groundwater Quality Standard (5 ppb) this reporting period, and consistent with prior detections.

No other COCs were detected at concentrations greater than their respective NYSDEC Groundwater Quality Standard at MW-30.

- Weekly DO levels were measured at MW-27 and MW-28 from July 2 through December 29, 2008 and are summarized in Table 4. The DO levels at MW-27 ranged from 0.53 to 2.03 ppm. The DO levels at MW-28 ranged from 0.53 to 2.42 ppm. Weekly DO levels were measured at MW-8SR from November 7, 2008 through December 29, 2008 and ranged from 0.60 to 1.02 ppm.

- The DO data were evaluated using the Mann-Kendall statistical analysis to determine if there has been a statistically significant (confidence interval <95 percent) increase in DO concentrations. The results of the Mann-Kendall Test indicate that there are statistically significant increasing trends in DO concentrations at MW-27, MW-28 and MW-8SR. There appears to be a promising upward trend in the DO concentrations at MW-27, MW-28 and MW-8SR.

Downgradient Perimeter Monitoring Locations

There was one detection above the NYSDEC Groundwater Quality Standard at the downgradient perimeter monitoring locations (Table 2) during the August 2008 sampling event (Table 3 and Figure 6). Benzene (1.8 ppb) was detected at MW-17R; this is the only COC detected above the NYSDEC Groundwater Quality Standard (1 ppb) at MW-17R since June 2004.

IV. Conclusions

The process control monitoring data presented in this Biannual Report will continue to be used to monitor the effectiveness of the in-situ aerobic bioremediation treatment activities. The following conclusions are based on the process control monitoring data obtained to date.

- A closed loop hydraulic cell continues to be maintained in Area 3.

- Operation of the Area 3 treatment system has not caused the freshwater/saltwater interface to upcone to the base of the withdrawal trench.

- COCs were not detected above the NYSDEC Groundwater Quality Standards at the perimeter sampling location in August 2008; except for Benzene at MW-17R. This is the first time since June 2004 that Benzene had been detected at MW-17R; however the concentration was only slightly greater than the NYSDEC

Groundwater Quality Standard. These results indicate that the groundwater in Area 3 is contained in the Area 3 treatment system and is not flowing downgradient of Area 3. The closed-loop hydraulic cell in Area 3 supports this conclusion.

- COC concentrations detected in the groundwater samples collected from Area 1 demonstrate a decrease since the in-situ bioremediation treatment activities began in July 1998. COC concentrations have continued to remain low since the in-situ aerobic bioremediation treatment program was introduced in August 2006. In August 2008, the COCs in this area were mostly non-detect or below the NYSDEC Groundwater Quality Standard, including aniline in groundwater at MW-33. A few COCs (e.g., N,N–dimethylaniline, benzene, ethylbenzene and xylene) continue to be present at concentrations greater than their respective NYSDEC Groundwater Quality Standards.

- Based on the DO levels measured in Area 1, it does not appear that aerobic conditions (i.e., DO levels greater than 2 ppm) were maintained; however, the results of the Mann-Kendall Test indicate there is a statistically increasing trend in DO concentrations. The aniline concentrations within Area 1 (i.e., MW-33) have decreased below the NYSDEC Groundwater Quality Standard suggesting that the in-situ aerobic bioremediation treatment program facilitated the reduction of aniline.

- In the downgradient edge of Area 1, the aniline concentrations previously detected in MW-33 have decreased below the NYSDEC Groundwater Quality Standard. During the August 2008 sampling event aniline was not detected in the groundwater sample from MW-33. Aniline has remained below the NYSDEC Groundwater Quality Standard for the last three sampling events, since November 2007.

- Overall, the COC groundwater concentrations within Area 2 have decreased over the last seven sampling events since June 2006. The concentrations continue to be relatively low, with the exception of aniline detected at monitoring location TW-02RR; aniline concentrations remain consistent with prior detections since November 2004 and are lower than the concentration detected in June 2006. The aniline concentration detected at MW-36 has decreased since June 2007 to below the NYSDEC Groundwater Quality Standard. In addition, aniline and N,N-dimethylaniline concentrations remain relatively low at MW-34. Despite the increase in aniline concentration detected at TW-02RR in August 2008, overall the results indicate that the in-situ aerobic bioremediation treatment program is facilitating the reduction of aniline.

- Based on the DO levels measured in Area 2 it does not appear that aerobic conditions were achieved; however, the results of the Mann-Kendall Test indicate there is a statistically significant increasing trend in DO concentrations at MW-36. There is no statistically significant trend in DO concentrations at TW-02RR; however, there appears to be a promising upward trend in DO concentrations at TW-02RR. The aniline concentrations within Area 2 (i.e., TW-02RR) have decreased overall between June 2006 and August 2008 suggesting that the in-situ aerobic bioremediation program facilitated the reduction of aniline.

- Since initiating the in-situ bioremediation treatment activities in 1998, the concentrations of most COCs detected at Area 3 monitoring locations have decreased or remained relatively constant. In particular, aniline concentrations at MW-27 and MW-28 have decreased (i.e., 83 and 99.9 percent, respectively) between the end of the anaerobic bioremediation treatment program in June 2006 and the August 2008 sampling event. The concentration of aniline (32,000 ppb) detected at MW-8SR in August 2008 increased to levels consistent with detections prior to the start of the in-situ aerobic bioremediation treatment program in August 2006; however, the concentration detected in March 2008 was 75 percent lower than the concentration in June 2006, prior to the start of the in-situ aerobic bioremediation treatment program.

- Based on the DO levels measured in Area 3 it does not appear that aerobic conditions were achieved; however, the results of the Mann-Kendall Test indicate there are statistically significant increasing trends in DO concentrations at MW-27, MW-28 and MW-8SR. The aniline concentrations within Area 3 (i.e., MW-8SR, MW-27 and MW-28) have decreased overall between June 2006 and August 2008 suggesting that the in-situ aerobic bioremediation treatment program facilitated the reduction of aniline.

V. Recommendations

The in-situ aerobic bioremediation program generally has reduced the aniline and other COC concentrations at the Site, and it is recommended that an oxygen source continue to be introduced into Areas 1, 2 and 3. Based on the quantities of nutrients that have been added to the groundwater to date and the decrease in COC concentrations the nutrient amendments were discontinued for Areas 1, 2 and 3. It is recommended that nutrient amendments continue to be discontinued. In addition, decreasing aniline concentrations in Area 1 indicate that monthly H_2O_2 amendments provide adequate oxygen for the continuation of aerobic degradation of aniline in Area 1 and should be continued.

The monitoring results of the current in-situ aerobic bioremediation program indicate that a constant source of oxygen may need to be supplied for continuous aniline reduction in the areas of relatively high aniline concentrations (i.e., TW-02RR, MW-27 and MW-8SR) in Area 2 and 3. Therefore, the oxygen infusion system was installed in Areas 2 and 3 via iSOC® units and the installation of an oxygen diffuser into the Area 3 equalization (EQ) tank. It is anticipated that the constant source of oxygen may result in less fluctuation of the aniline concentrations and a faster treatment time than was observed with the H_2O_2 amendments. Therefore, it is recommended that the oxygen infusion system continue to be maintained. Further recommendations will be made based on the results of weekly DO measurements and the next biannual sampling event.

Although the NYSDEC-approved Remedial Design/Remedial Action Work Plan for OU2 (BBL 1997) identified that the groundwater extraction, amendment and infiltration program implemented in Area 3 does not require a SPDES permit because the groundwater is infiltrated into the shallow hydrogeologic unit under a controlled manner that mitigates the potential for migration beyond the impacted area, Mr. Ryder (NYSDEC) requested in his December 31, 2008 letter to Ms. Penniman (ARCADIS) that the USEPA's Injection Well requirements for the oxygen infusion system be reviewed to make sure that the Site is in compliance with those requirements.

The Biannual Groundwater Monitoring Program activities will continue to be conducted at the Site (Table 2). The first biannual sampling event of 2009 is tentatively scheduled to be conducted during the week of March 23, 2009. An interim sampling event is anticipated to be conducted in late June 2009. Samples will be collected at MW-8SR, MW-27, MW-36 and TW-02RR. In addition, it is recommended that DO levels continue to be measured in the field at MW-33 in Area 1, MW-36 and TW-02RR in Area 2, and MW-27, MW-28, and MW-8SR in Area 3 once per week.

The in-situ aerobic biodegradation treatment activities will continue to be conducted in accordance with the site-specific Health and Safety Plan (BBL 1999c).

As discussed in this Biannual Report and summarized in Table 2, the monitoring activities conducted at the Site are included in the Biannual Groundwater Monitoring Program and the revised Process Control Monitoring Program. The activities included in the Biannual Groundwater Monitoring Program will continue, and will include the biannual collection of chemical and hydraulic data from downgradient perimeter wells/piezometers to determine whether groundwater that contains COC concentrations in excess of their respective NYSDEC Groundwater Quality Standard is migrating beyond the Site boundary.

As stated in the January 5th email from Mr. Rider (NYSDEC) to Ms. Penniman (ARCADIS), the process to reclassify this Site from a Class 2 Inactive Hazardous Waste Disposal Site (i.e., significant threat to the public health or environment – action required) to a Class 4 Inactive Hazardous Waste Disposal Site (i.e., Site properly closed – requires continued management) has been initiated.

If you have any questions or require additional information, please do not hesitate to contact me at 315.671.9210.

Sincerely,

ARCADIS

David J. Ulm
Senior Vice President

DEP/cmb
Attachments

Copies:
Mr. Gerald Ryder, NYSDEC (w/out Attachment B)
Mr. Jim Burke, P.E., NYSDEC (w/out Attachment B)
Mr. Chris Mannes, NYSDEC (w/out Attachment B)
Ms. Henriette Hamel, R.S., NYSDOH (w/out Attachment B)
Ms. Jean Mescher, McKesson Corporation (w/out Attachment B)
Mr. Christopher Young, P.G., de maximis, inc. (w/out Attachment B)

ARCADIS

Tables

Table 1. Summary of Select Groundwater Level Measurements, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Location	Reference Elevation (feet AMSL)	10/30/06	6/6/07	11/12/07	3/24/08	8/25/2008
Canal	393.39	364.29	362.99	362.06	364.34	363.21
Collection Sump	372.81	363.18	362.26	361.86	363.81	362.14
MW-3S	376.54	369.08	--	367.60	367.93	365.19
MW-3D	375.56	366.90	365.52	365.24	366.62	365.11
MW-6D	377.07	367.07	365.72	365.44	366.83	365.31
MW-9D	376.76*	366.91	365.83	365.56	366.87	365.35
MW-11D	373.68	366.53	--	364.92	366.32	364.85
MW-11S	373.50	366.11	364.27	363.88	365.69	363.86
MW-18	372.57	363.82	362.63	362.32	363.51	362.26
MW-19	376.00	364.09	362.93	362.61	363.84	362.43
MW-23I	372.77	366.43	365.02	364.74	366.12	364.64
MW-23S	372.61	365.28	362.98	362.56	364.81	362.62
MW-24DR	375.14	366.59	365.28	364.90	366.31	364.81
MW-24SR	375.55	366.49	365.21	364.83	366.26	364.73
MW-25D	373.67	366.64	365.30	364.95	366.35	364.85
MW-25S	373.39	365.26	363.32	362.87	364.84	362.88
PZ-4D	376.11	366.64	365.29	364.98	366.39	364.90
PZ-5D	375.58	366.87	365.49	365.19	366.69	365.09
PZ-9D	377.29	366.91	365.26	366.09	366.68	365.18
PZ-A	373.94	365.62	363.11	362.72	364.83	362.96
PZ-B	373.92	365.85	363.12	362.62	365.03	362.87
PZ-C	374.85	367.14	365.85	365.30	367.15	365.16
PZ-D	375.12	367.68	365.98	365.40	367.29	365.28
PZ-E	374.12	368.13	365.16	364.07	366.58	364.14
PZ-F	377.06	368.32	366.18	365.76	367.99	365.50
PZ-G	377.16	368.64	366.28	365.82	368.14	365.94
PZ-HR	376.99	368.31	366.23	365.74	368.00	365.48
PZ-I	375.15	369.00	366.49	365.92	368.55	365.50
PZ-J	374.89	367.96	366.16	365.82	367.69	365.55
PZ-K	373.19	365.58	363.36	362.91	364.96	363.08
PZ-L	374.62	365.23	362.94	362.63	364.64	362.79
PZ-M	374.35	365.60	363.54	363.11	365.13	363.30
PZ-N	376.94**	367.51	365.76	365.26	367.05	365.09
PZ-O	375.36	365.42	363.22	362.82	365.01	362.91
PZ-P	376.89	368.30	366.31	365.83	368.06	365.58
PZ-Q	377.61	368.61	366.33	365.83	368.23	365.57
PZ-R	377.05	368.51	366.19	365.79	368.20	365.55
PZ-S	378.13	372.48	366.51	365.81	368.21	365.55
PZ-T	376.25	368.04	366.24	365.84	367.89	365.52
PZ-U	375.35	367.99	366.07	365.80	367.75	365.52
PZ-V	375.78	367.97	366.17	365.78	367.78	365.48
PZ-W	375.78	367.79	366.01	365.69	367.59	365.46

Notes:

1. AMSL = above mean sea level (NGVD of 1929)
2. * = Monitoring well MW-9D inner PVC pipe was reduced (cut) by 1½ inches on 9/19/01. The reference elevation prior to 9/19/01 was 376.88 feet AMSL. The new reference elevation for MW-9D is 376.76 feet AMSL.
3. ** = The reference elevation for PZ-N was 376.02 feet AMSL prior to 11/16/00. The new reference elevation is 376.94 feet AMSL.
4. - - = No groundwater level measurement was obtained.

Table 2. Revised Long-Term Hydraulic and COC Process Control Monitoring Schedule, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Location	Annual Sampling Schedule	
	First Sampling Event	Second Sampling Event
Upgradient		
MW-1	C	C
MW-3S	C	C
MW-3D	H	H
Area 1		
TW-01	C	C
MW-6D	H	H
MW-9S	C	C
MW-9D	H	H
MW-31	C	C
MW-32	C	C
MW-33	C	C
PZ-F	H	H
PZ-G	H	H
PZ-HR	H	H
PZ-P	H	H
PZ-Q	H	H
PZ-R	H	H
PZ-S	H	H
Area 2		
TW-02RR	C	C
PZ-9D	H	H
MW-34	C	C
MW-35	C	C
MW-36	C	C
PZ-I	H	H
PZ-J	H	H
PZ-T	H	H
PZ-U	H	H
PZ-V	H	H
PZ-W	H	H
Area 3		
MW-8SR	C	C
MW-27	C	C
MW-28	C	C
MW-29	C	C
MW-30	C	C
PZ-A	H	H
PZ-B	H	H

See notes on page 2.

Table 2. Revised Long-Term Hydraulic and COC Process Control Monitoring Schedule, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Location	Annual Sampling Schedule	
	First Sampling Event	Second Sampling Event
Area 3 (Cont'd.)		
PZ-C	H	H
PZ-D	H	H
PZ-E	H	H
PZ-K	H	H
PZ-L	H	H
PZ-M	H	H
PZ-N	H	H
PZ-O	H	H
MW-11S	H	H
MW-11D	H	H
Downgradient Perimeter Monitoring Locations		
MW-17R	C	C
MW-18	C, H	C, H
MW-19	C, H	C, H
MW-23I	C, H	C, H
MW-23S	C, H	C, H
MW-24SR	H	C, H
MW-24DR	H	C, H
MW-25S	C, H	C, H
MW-25D	C, H	H
PZ-4S	C	NM
PZ-4D	C, H	H
PZ-5S	NM	C
PZ-5D	H	C, H

Notes:

1. H = Hydraulic monitoring (groundwater level measurements).
2. C = Monitoring for chemicals of concern (COCs).
3. NM = Not monitored.
4. The hydraulic monitoring identified in this table will be conducted on a semi-annual basis. The hydraulic monitoring also includes measuring the conductivity of groundwater recovered from Area 3 from a sampling port located before the equalization tank.
5. Field groundwater parameters including pH, temperature, conductivity, dissolved oxygen and oxidation/reduction potential are measured during each COC sampling event.
6. Each of the monitoring wells and piezometers used for hydraulic and COC monitoring during the semi-annual monitoring event are checked for the presence (if any) of non-aqueous phase liquid.
7. Based on the results obtained, the scope and/or the frequency for the hydraulic and/or COC components of the long-term process control monitoring program, as detailed herein, may be modified. Any modifications would be made in consultation with the New York State Department of Environmental Conservation (NYSDEC).
8. This table is based on the NYSDEC-approved Operation and Maintenance Plan (Blasland, Bouck & Lee, Revised August 1999), including the NYSDEC-approved December 29, 1999 Addendum with the modifications detailed in the October 2004 Biannual Process Control Monitoring Report.

Table 3. Summary of Groundwater Monitoring Data, September 2006 through August 2008, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-1	11/06	370.3	355.3	<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0	<3.0
	6/07			<5	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			7.4	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
MW-3S	11/08	365.1	350.1	<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
MW-8SR[C]	9/06	362.7	352.7	NS	NS	NS	NS	NS	NS	NS	52,000 (51,000)	<520 (<520)	NS
	11/06			28	16	100	84	270	<500	<1.0	28,000	<200	<3.0
	6/07			58	14	110	83	250	<500	<2.0	2,700	<22	<6.0
	8/07			NS	NS	NS	NS	NS	NS	NS	17,000	<100	NS
	11/07			<5.0 J	12	22	73	210	<500	<1.0	22,000 J	<100 J	<3.0
	3/08			<10 [9.6 J]	5.5 [5.7]	22 [22]	70 [68]	160 [160]	<500 [<500]	<2.0 [<2.0]	5,800 [5,200]	<25 [<50]	<6.0 [<6.0]
	8/08			8.2 J [<10]	11 [11]	24 [22]	70 [70]	190 [190]	<500 [<500]	<2.0 [<2.0]	32,000 [25,000]	<250 [<250]	<6.0 [<6.0]
MW-9[B]	11/06	365.6	356	<5.0	1.4	3.5 J	23	63	<500	<1.0	0.5 J	3.3 J	<3.0
(Replaced by MW-9S)	6/07			<5.0	1.4	3.3 J	42	110	<500	<1.0	<5.0	4.1	<3.0
	11/07			<5.0	0.9 J	2.0 J	11	58	<500 J	<1.0	1.7 J	8.6	<3.0
	3/08			<5.0 J	1.1	3.0 J	37	73	<500	1.2	0.7 J	6.8	<3.0
	8/08			24	3.7	3.3 J	21	72	<500	<1.0	<5.5	5.1	<3.0
MW-17[A]	11/06	365.7	356.1	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
(Replaced by MW-17R)	6/07			<5.0	0.7 J	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			2.3 J	1.8	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
MW-18	11/06	325.15	316.15	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			5.5	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
MW-19	11/06	318.45	309.45	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.5	<1.1	<3.0
	11/07			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
MW-23S	11/06	364.1	354.1	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0

See notes on page 4.

Table 3. Summary of Groundwater Monitoring Data, September 2006 through August 2008, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-23I	11/06	341.2	336.2	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
MW-24S[A]	11/06	358.4	352.4	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
(Replaced by MW-24SR)	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.7	<0.6	<3.0
MW-24D[A]	11/06	334.4	341.2	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
(Replaced by MW-24DR)	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.7	<0.6	<3.0
MW-25S	11/06	361.2	356.2	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5	<1	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.2	<0.5	<3.0
MW-25D	6/07	349.55	344.55	12 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
MW-27	9/06	362.5	354.5	NS	NS	NS	NS	NS	NS	NS	1,700	<10	NS
	11/06			31 (24)	14 (14)	71 (71)	42 (45)	91 (110)	<500 (<500)	<1.0 (<1.0)	33,000 (33,000)	<210 (<200)	<3.0 (<3.0)
	6/07			21	8.4	9.5	14	24	<500	<1.0	1,100	<10	<3.0
	8/07			NS	NS	NS	NS	NS	NS	NS	<10 J (4,300 J)	<1.0 (<20)	NS
	11/07			<5.0 J (<5.0)	6.6 (5.9)	4.7 J (4.1 J)	8.6 (7.2)	24 (21)	<500 (<500)	<1.0 (<1.0)	3,000 J (3,800 J)	<25 J (<25 J)	<3.0 (<3.0)
	3/08			21	9.4	23	43	68	<500	<2.0	13,000	<100	<6.0
	8/08			3.8 J	5	2.2 J	1.8 J	10	<500	<1.0	2,400	<25	<3.0
MW-28	9/06	363.6	355.6	NS	NS	NS	NS	NS	NS	NS	280	<2.2	NS
	11/06			12	8.2	1.4 J	5.6	4.4 J	<500	<1.0	1,000	<5.2	<3.0
	6/07			13	4.6	0.4 J	0.8 J	0.6 J	<500	<1.0	60	<1.0	<3.0
	8/07			NS	NS	NS	NS	NS	NS	NS	40	<1.0	NS
	11/07			<5.0 J	4.5	0.5 J	1.4 J	0.8 J	<500	<1.0	29 J	<0.5 J	<3.0
	3/08			<5.0	4.0	0.5 J	1.6 J	1.3 J	<500	<1.0	81	0.9	<3.0
	8/08			<5.0	3.8	<5.0	<4.0	<5.0	<500	<1.0	0.7 J	<0.5	<3.0
MW-29	11/06	362.9	345.9	5.4	<1.0	<5.0	<4.0	<5.0	<500	<1.0	0.4 J	<1.0	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	0.5 J	<500	<1.0	<5.5	<1.1	<3.0
	11/07			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0 J	<0.5 J	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
MW-30	11/06	363.5	355.5	11	1.0	<5.0	<4.0	<5.0	<500	<1.0	200	<1.0	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	30	<1.1	<3.0
	11/07			<5.0 J	0.8 J	<5.0	<4.0	<5.0	<500	<1.0	49	<0.5	<3.0
	3/08			<5.0	0.6 J	<5.0	<4.0	0.2 J	<500	<1.0	3.0 J	0.7	<3.0
	8/08			<5.0	0.7 J	<5.0	<4.0	<5.0	<500	<1.0	31	<0.5	<3.0

See notes on page 4.

Table 3. Summary of Groundwater Monitoring Data, September 2006 through August 2008, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-31	9/06	363.7	355.4	NS	NS	NS	NS	NS	NS	NS	1.6	3.4	NS
	11/06			R	6.9	<5.0	<4.0	<5.0	<500	<1.0	0.4 J	1.1 J	<3.0
	6/07			<5.0	14	0.7 J	<4.0	1.3 J	<500	<1.0	<5.0	2.0	<3.0
	8/07			NS	NS	NS	NS	NS	NS	NS	0.5 J	2.7	NS
	11/07			<5.0 (<5.0)	12 (10)	<5.0 (0.4 J)	<4.0 (<4.0)	1.1 J (1.4 J)	<500 J (<500 J)	<1.0 (<1.0)	<5.0 (0.3 J)	2.3 (2.8)	<3.0 (<3.0)
	3/08			<5.0 J	2.0	<5.0	<4.0	<5.0	<500	<1.0	0.2 J	1.6	<3.0
	8/08			22	13	0.4 J	<4.0	2.2 J	<500	<1.0	<5.6	2.4	<3.0
MW-32	11/06	364	356	R	<1.0	0.8 J	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	0.1 J	0.8	<3.0
	3/08			<5.0 J	0.8 J	<5.0	<4.0	<5.0	<500	<1.0	<5.0	0.8	<3.0
	8/08			5.8	0.3 J	<5.0	<4.0	<5.0	<500	<1.0	<5.7	<0.6	<3.0
MW-33	9/06	344.1	356.1	NS	NS	NS	NS	NS	NS	NS	940	8.0	NS
	11/06			17 J	8.6	0.7 J	<4.0	<5.0	<500	<1.0	84	2.9 J	<3.0
	6/07			<5.0	5.7	0.4 J	<4.0	<5.0	<500	<1.0	46	2.6	<3.0
	8/07			NS	NS	NS	NS	NS	NS	NS	46	4.2	NS
	11/07			<5.0	4.0	<5.0	<4.0	<5.0	<500 J	<1.0	0.1 J	3.5	<3.0
	3/08			<5.0 J	4.1	<5.0	<4.0	<5.0	<500	<1.0	<5.0	4.1	<3.0
	8/08			<5.0	3.2	<5.0	<4.0	<5.0	<500	<1.0	<5.9	2.8	<3.0
MW-34	11/06	362.7	354.7	49 J	<1.0	0.6 J	<4.0	0.6 J	<500	<1.0	9.9	1.2 J	<3.0
	6/07			22	0.9 J	0.5 J	<4.0	0.6 J	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	0.8 J	0.6 J	<4.0	1.1 J	<500 J	<1.0	0.3 J	1.5	<3.0
	3/08			16	1.0 J	0.5 J	<4.0	1.1 J	<500	<1.0	24	1.3	<3.0
	8/08			12	0.8 J	0.5 J	<4.0	1.1 J	<500	<1.0	0.6 J	1.6	<3.0
MW-35	11/06	363	355	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	1.1	<1.0 J	<3.0
	6/07			13	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			5.4	<1.0	<5.0	<4.0	<5.0	<500	<1.0	1.1 J	<0.5	<3.0
MW-36	9/06	363.6	355.6	NS	NS	NS	NS	NS	NS	NS	3.5	1.2	NS
	11/06			130 J	3.6	1.2 J	<4.0	1.1 J	<500	<1.0	420	1.7 J	<3.0
	6/07			33	4.6	1.4 J	0.8 J	5.0	<500	<1.0	1,300	<10	<3.0
	8/07			NS	NS	NS	NS	NS	NS	NS	740	<5.0	NS
	11/07			10	4.5	1.7 J	0.9 J	5.3	<500 J	<1.0	480 J	3.4 J	<3.0
	3/08			8.0 J	4.2	1.5 J	0.8 J	5.5	<500	<1.0	130	3.0	<3.0
	8/08			27	3.7	1.4 J	0.6 J	5.7	<500	<1.0	4.5 J	3.2	<3.0
TW-01	11/06	365.1	355.4	R	0.7 J	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			7.8	0.5 J	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	0.2 J	1.1	<3.0
	3/08			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	1.0	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0

See notes on page 4.

Table 3. Summary of Groundwater Monitoring Data, September 2006 through August 2008, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
TW-02RR[C]	9/06	363.3	353.3	NS	NS	NS	NS	NS	NS	NS	7,600	<52	NS
	11/06			78 J	4.9	1.4 J	2.2 J	6.2	<500	<1.0	2,100	<10 J	<3.0
	6/07			17	5.5	1.3 J	4.0	8.8	<500	<1.0	6,800	<100	<3.0
	8/07			NS	NS	NS	NS	NS	NS	NS	4,000 J	<20	NS
	11/07			5.5	5.8	1.2 J	3.0 J	7.6	<500 J	<1.0	3,700	<25	<3.0
	3/08			6.4 [5.2]	4.5 J [2.3 J]	1.3 J [0.7 J]	3.8 J [1.9 J]	10 [4.8 J]	<500 [<500]	<1.0 [<1.0]	7,500 [5,400]	<50 [<50]	<3.0 [<3.0]
	8/08			9 [9.6]	4.4 [4.6]	1.0 J [1.1 J]	2.3 J [2.4 J]	6.7 [7.0]	<500 [<500]	<1.0 [<1.0]	9,600 [7,000]	<71 [<56]	<3.0 [<3.0]
PZ-4D	6/07	350.8	345.9	<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.5	<1.1	<3
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
PZ-4S	6/07	362.79	357.88	<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.5	<1.1	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
PZ-5D	11/06	353.5	348.6	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	11/07			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.1	<0.5	<3.0
PZ-5S	11/06	361.42	356.52	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	11/07			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.3	<0.5	<3.0

General Notes:

1. Concentrations are presented in micrograms per liter, which is equivalent to parts per billion.
2. Compounds detected are indicated by bold-faced type.
3. Detections exceeding New York State Department of Environmental Conservation (NYSDEC) Groundwater Standards (Part 700) are indicated by shading.
4. Duplicate sample results are presented in brackets (e.g., [14]).
5. Replacement wells for MW-8 and MW-9 were installed 8/95.
6. Replacement wells for MW-17, MW-24S, MW-24D, and TW-02 were installed 11/97 - 12/97.
7. The sampling events in 9/06 and 8/07 were interim sampling events to gauge the effects of the in-situ aerobic biodegradation treatment activities.
8. The laboratory analytical results for the duplicate sample collected from monitoring well MW-27 during the 8/07 sampling event indicated the presence of aniline at 4,300 milligrams per liter. Because aniline was not detected in the original sample, MW-27, DUP-1 and TW-02RR were all reanalyzed outside of hold time due to the difference in concentration between the parent sample and the field duplicate. The duplicate result for aniline was positively identified; however, the associated numerical value is an estimated concentration only. The concentration for TW-02RR was significantly lower than the original result. Therefore, the original result for TW-02RR was qualified as estimated.

Superscript Notes:

[A] = Wells/piezometers MW-17, MW-24S and MW-24D were abandoned 11/97 - 1/98.
[B] = Well MW-9 was abandoned during OU1 soil remediation activities (1994).
[C] = Wells MW-8S and TW-02R were abandoned in 8/04 and replacement wells MW-8SR and TW-02RR were installed in 8/04.

Abbreviations:

AMSL = Above mean sea level (NGVD of 1929).
NA Not available.
NS Not sampled.

Analytical Qualifiers:

J = The compound was positively identified; however, the numerical value is an estimated concentration only.
< = Compound was not detected at the listed quantitation limit.
R = The sample results were rejected.

Table 4. Summary of Dissolved Oxygen Measurements, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Date	Dissolved Oxygen (ppm)					
	MW-33 (Area 1)	MW-36 (Area 2)	TW-02RR (Area 2)	MW-27 (Area 3)	MW-28 (Area 3)	MW-8SR (Area 3)
8/21/06	N/R	N/R	N/R	N/R	3.35	N/R
8/28/06	0.28	N/R	N/R	0.88	2.18	N/R
9/1/06	0.53	N/R	N/R	0.41	0.40	N/R
9/8/06	0.22	N/R	N/R	0.42	0.53	N/R
9/21/06	0.17	N/R	N/R	0.21	0.37	N/R
9/29/06	0.28	N/R	N/R	0.37	0.40	N/R
10/6/06	0.16	N/R	N/R	0.43	0.29	N/R
10/13/06	0.21	N/R	N/R	0.33	0.31	N/R
10/28/06	0.17	N/R	N/R	0.24	0.29	N/R
11/10/06	0.37	N/R	N/R	0.33	0.38	N/R
11/16/06	0.27	N/R	N/R	0.23	0.21	N/R
11/22/06	0.41	N/R	N/R	0.37	0.42	N/R
12/4/06	0.29	N/R	N/R	0.23	0.32	N/R
12/7/06	0.24	N/R	N/R	0.22	0.29	N/R
12/14/06	0.57	N/R	N/R	0.27	0.32	N/R
1/7/07	0.30	N/R	N/R	0.27	0.21	N/R
1/12/07	0.24	N/R	N/R	0.27	0.30	N/R
1/19/07	0.23	N/R	N/R	0.20	0.37	N/R
1/26/07	0.26	N/R	N/R	0.61	0.57	N/R
2/9/07	0.24	N/R	N/R	0.28	0.44	N/R
2/22/07	0.33	N/R	N/R	0.44	0.30	N/R
3/2/07	0.62	N/R	N/R	0.20	0.36	N/R
3/16/07	0.29	N/R	N/R	0.37	0.55	N/R
3/23/07	0.25	N/R	N/R	0.22	0.46	N/R
3/30/07	0.47	N/R	N/R	0.45	0.79	N/R
4/5/07	0.31	N/R	N/R	0.59	0.91	N/R
4/19/07	0.32	N/R	N/R	0.27	0.73	N/R
4/26/07	0.26	N/R	N/R	0.49	0.48	N/R
5/11/07	0.50	N/R	N/R	0.43	0.58	N/R
5/25/07	0.22	N/R	N/R	0.53	0.81	N/R
6/1/07	0.30	N/R	N/R	0.32	0.70	N/R
6/29/07	0.48	0.90	N/R	1.87	2.76	N/R
7/3/07	0.21	0.48	N/R	0.43	0.66	N/R
7/13/07	0.38	0.38	N/R	0.68	1.18	N/R
7/19/07	0.36	0.22	N/R	0.52	0.98	N/R
7/27/07	0.24	0.32	N/R	0.50	0.86	N/R
8/3/07	0.47	0.47	N/R	0.57	0.79	N/R
8/9/07	0.63	0.31	N/R	0.42	0.70	N/R
8/16/07	0.37	0.31	N/R	0.40	0.85	N/R
8/24/07	0.38	0.33	N/R	0.50	0.88	N/R
8/31/07	0.54	0.40	N/R	0.52	0.77	N/R
9/7/07	0.47	0.40	N/R	0.35	0.52	N/R
9/14/07	0.40	0.38	N/R	0.39	0.83	N/R
9/21/07	0.36	0.31	N/R	0.34	0.46	N/R
9/28/07	0.28	0.43	N/R	0.57	0.71	N/R
10/5/07	0.38	0.41	N/R	0.41	0.68	N/R
10/12/07	0.41	0.44	N/R	0.65	1.03	N/R
10/19/07	0.44	0.52	N/R	0.59	1.02	N/R
10/26/07	0.32	0.50	N/R	0.71	1.04	N/R

See notes on page 3.

Table 4. Summary of Dissolved Oxygen Measurements, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Date	Dissolved Oxygen (ppm)					
	MW-33 (Area 1)	MW-36 (Area 2)	TW-02RR (Area 2)	MW-27 (Area 3)	MW-28 (Area 3)	MW-8SR (Area 3)
11/2/07	0.38	0.48	N/R	0.44	0.90	N/R
11/9/07	0.43	0.43	N/R	0.68	1.04	N/R
11/16/07	0.50	0.64	N/R	0.33	0.38	N/R
11/21/07	0.56	0.32	N/R	0.44	1.24	N/R
11/30/07	0.42	0.51	N/R	0.84	1.28	N/R
12/7/07	0.44	0.41	N/R	0.54	0.66	N/R
12/14/07	0.49	0.55	N/R	0.55	1.02	N/R
12/20/07	0.45	0.44	N/R	0.89	0.90	N/R
12/28/07	0.42	0.46	N/R	0.56	1.10	N/R
1/4/08	0.46	0.39	N/R	0.77	0.89	N/R
1/11/08	0.48	0.36	N/R	0.64	0.91	N/R
1/18/08	0.45	0.44	N/R	0.74	1.02	N/R
1/25/08	0.42	0.33	N/R	0.96	0.92	N/R
2/1/08	0.43	0.38	N/R	0.89	1.03	N/R
2/8/08	0.42	0.61	N/R	0.63	0.77	N/R
2/15/08	0.46	0.54	N/R	0.86	0.99	N/R
2/22/08	0.53	0.51	N/R	0.84	0.71	N/R
2/29/08	0.44	0.45	N/R	0.73	0.92	N/R
3/7/08	0.61	0.45	N/R	0.74	1.01	N/R
3/14/08	0.65	0.34	N/R	0.77	0.82	N/R
3/21/08	0.65	0.46	N/R	0.63	0.81	N/R
3/28/08	0.62	0.33	N/R	0.71	0.87	N/R
4/4/08	0.66	0.44	N/R	0.68	0.98	N/R
4/9/08	0.77	0.35	N/R	0.54	0.79	N/R
4/20/08	0.68	0.41	N/R	0.64	0.77	N/R
4/25/08	0.48	0.61	N/R	0.43	0.76	N/R
5/2/08	0.44	0.48	N/R	0.66	0.79	N/R
5/9/08	0.46	0.41	N/R	0.67	0.81	N/R
5/16/08	0.49	0.44	N/R	0.79	0.97	N/R
5/22/08	0.38	0.40	N/R	0.43	0.59	N/R
5/30/08	0.44	0.34	N/R	0.72	0.55	N/R
6/6/08	0.31	0.33	N/R	0.40	0.67	N/R
6/13/08	0.38	0.37	N/R	0.48	0.58	N/R
6/20/08	0.41	0.70	N/R	0.40	0.58	N/R
6/27/08	0.68	0.90	N/R	0.69	1.02	N/R
7/2/08	0.97	0.88	N/R	1.03	1.18	N/R
7/10/08	1.07	0.86	N/R	1.24	1.40	N/R
7/18/08	2.06	1.89	N/R	2.03	2.31	N/R
7/23/08	1.94	1.75	N/R	1.98	2.42	N/R
8/1/08	1.29	1.12	N/R	1.27	1.48	N/R
8/8/08	1.21	1.38	N/R	1.43	1.71	N/R
8/15/08	1.29	1.53	N/R	1.68	1.94	N/R
8/22/08	1.06	1.05	N/R	1.07	1.40	N/R
8/29/08	1.18	0.98	N/R	1.04	1.32	N/R
9/5/08	0.90	0.78	N/R	1.02	1.17	N/R
9/12/08	0.85	0.83	N/R	0.87	1.00	N/R
9/19/08	0.91	1.03	N/R	0.97	1.07	N/R
9/25/08	0.74	0.68	N/R	0.74	0.96	N/R
10/3/08	0.77	0.54	N/R	0.81	0.92	N/R
10/10/08	0.71	0.58	N/R	0.77	1.03	N/R
10/17/08	0.69	0.62	N/R	0.70	0.98	N/R

See notes on page 3.

Table 4. Summary of Dissolved Oxygen Measurements, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Date	Dissolved Oxygen (ppm)					
	MW-33 (Area 1)	MW-36 (Area 2)	TW-02RR (Area 2)	MW-27 (Area 3)	MW-28 (Area 3)	MW-8SR (Area 3)
10/23/08	0.66	0.89	N/R	0.91	0.71	N/R
10/31/08	0.47	0.50	N/R	0.62	0.68	N/R
11/7/08	0.42	0.58	0.43	0.53	0.53	0.60
11/14/08	0.55	0.66	1.15	0.74	0.63	0.70
11/21/08	0.90	0.81	0.90	1.02	1.20	1.02
11/25/08	0.90	0.78	0.88	0.80	1.12	0.88
12/4/08	0.74	0.78	0.76	0.94	1.02	0.92
12/12/08	0.77	0.79	0.79	0.96	1.09	0.88
12/18/08	0.80	0.83	0.80	0.84	1.03	0.86
12/22/08	0.78	0.82	0.79	0.91	1.09	0.87
12/29/08	0.83	0.80	0.86	0.84	0.98	0.93

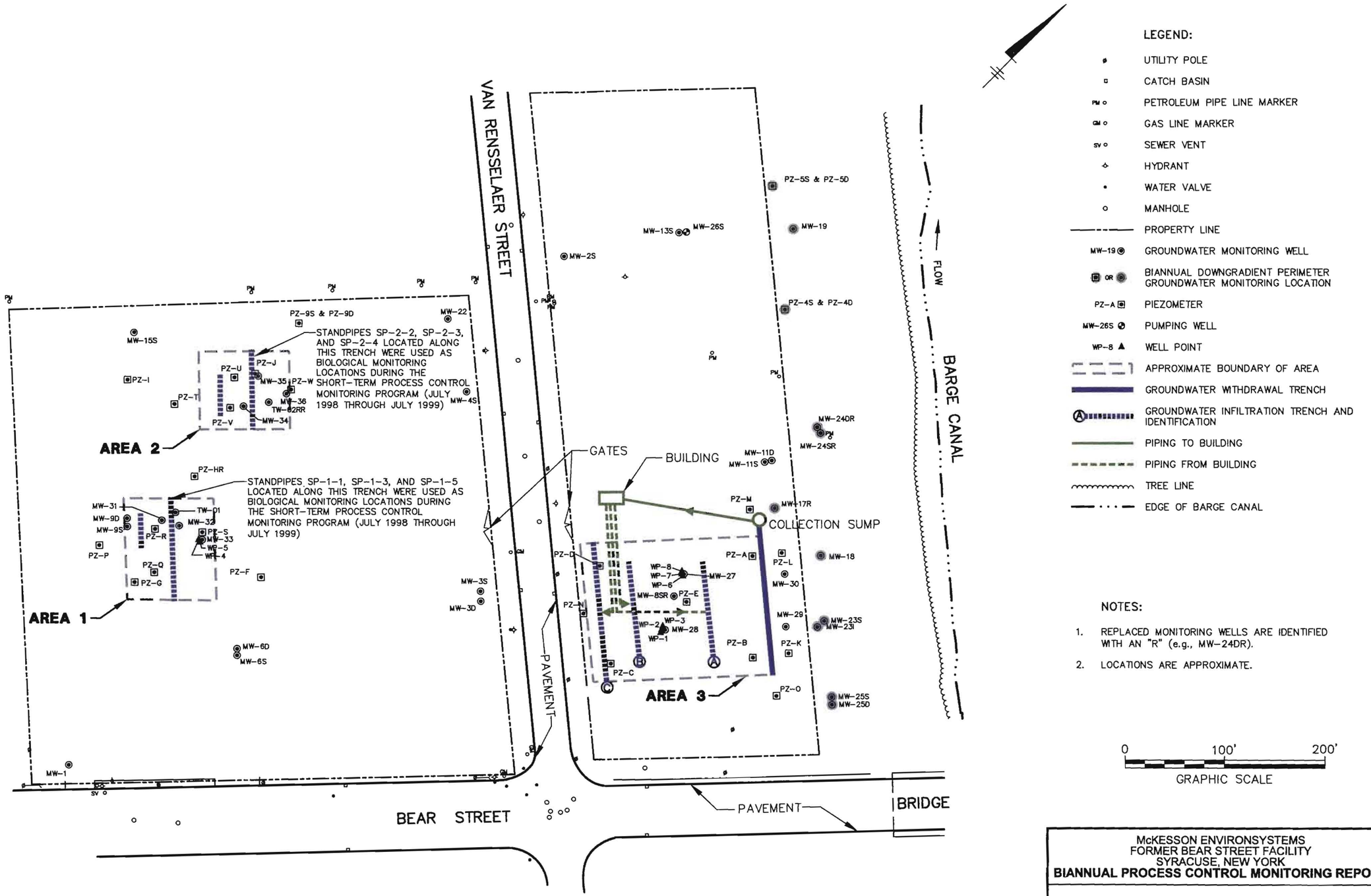
Notes:

1. No readings were taken at MW-36 between 8/21/2008 and 6/1/2008.
2. DO readings were taken at TW-02RR and MW-8SR beginning November 7, 2008, just after the installation of the oxygen infusion system in Areas 2 and 3.

DO = Dissolved oxygen.
N/R = no reading was taken.
ppm = parts per million

ARCADIS

Figures



LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER
- GAS LINE MARKER
- SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- GROUNDWATER MONITORING WELL
- BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- PIEZOMETER
- PUMPING WELL
- WELL POINT
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH AND IDENTIFICATION
- PIPING TO BUILDING
- PIPING FROM BUILDING
- TREE LINE
- EDGE OF BARGE CANAL

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. LOCATIONS ARE APPROXIMATE.

0 100' 200'

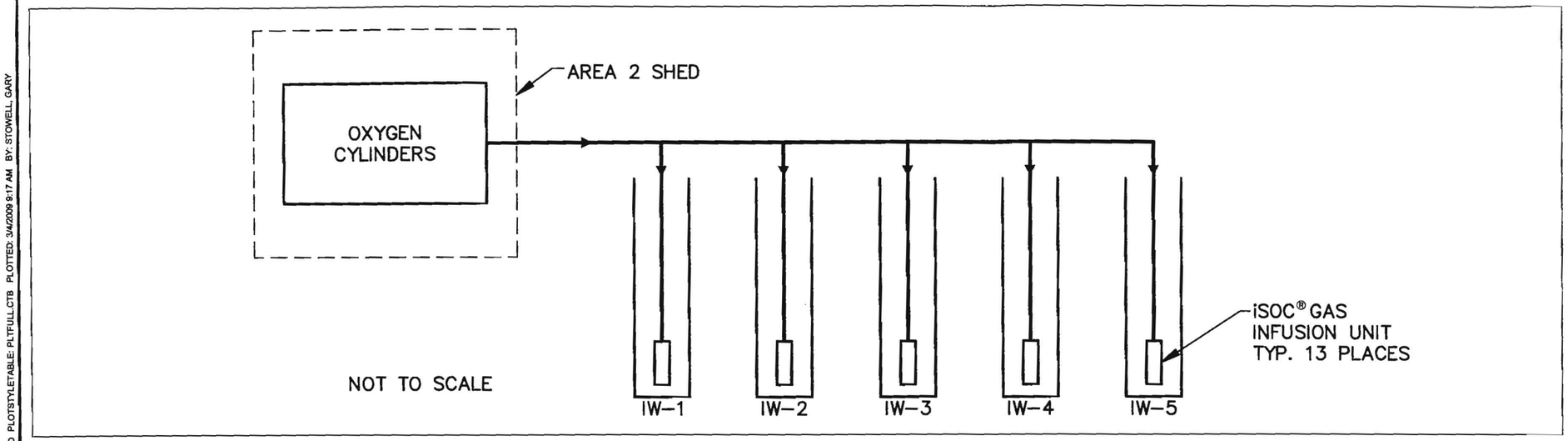
GRAPHIC SCALE

McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

SITE PLAN

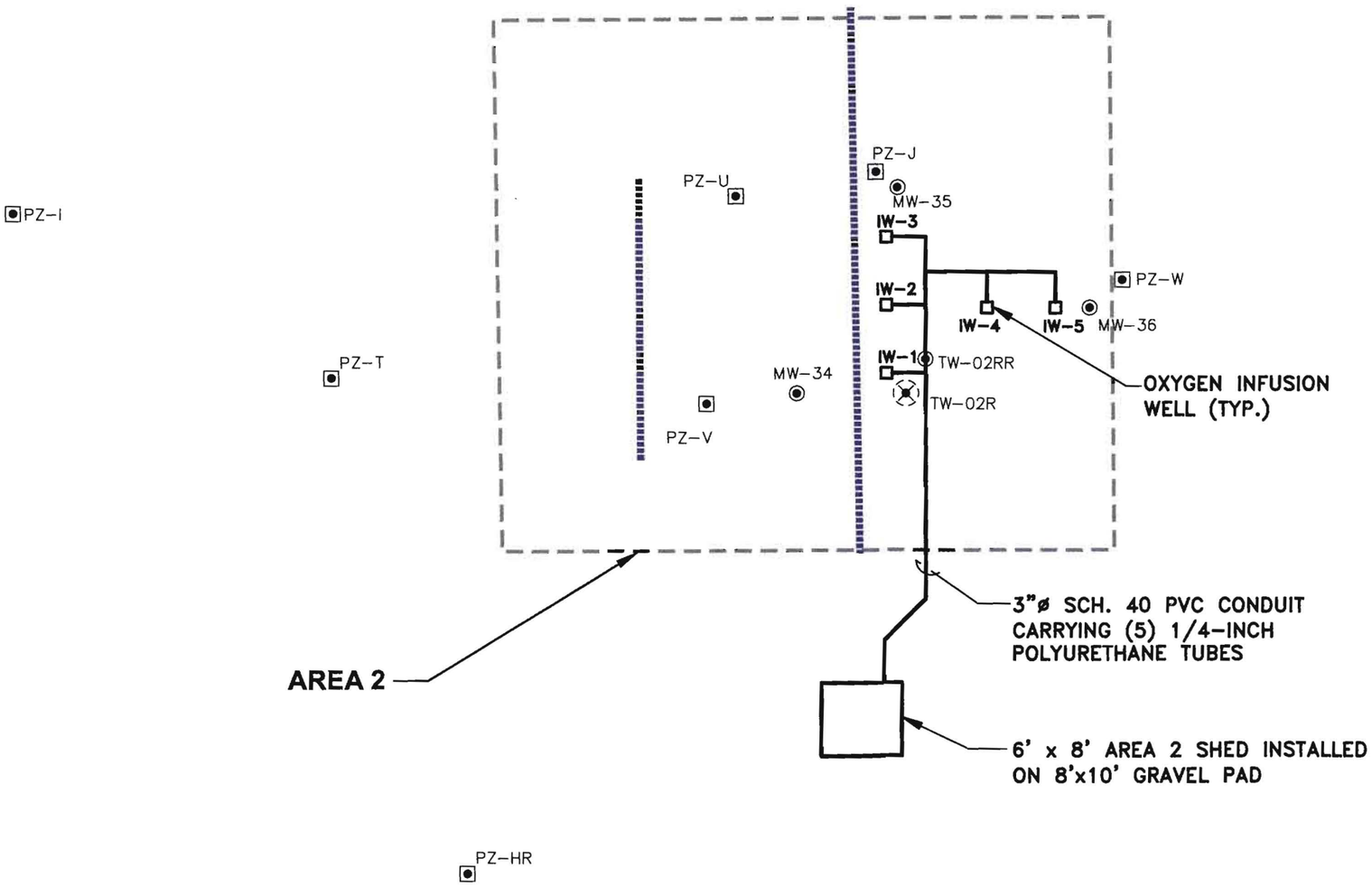
ARCADIS

FIGURE 1



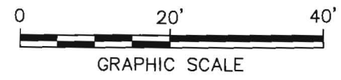
LEGEND:

- MW-19 ◉ GROUNDWATER MONITORING WELL
- PZ-A ◘ PIEZOMETER
- TW-02R ⊗ REMOVED GROUNDWATER MONITORING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER INFILTRATION TRENCH



NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. LOCATIONS ARE APPROXIMATE.

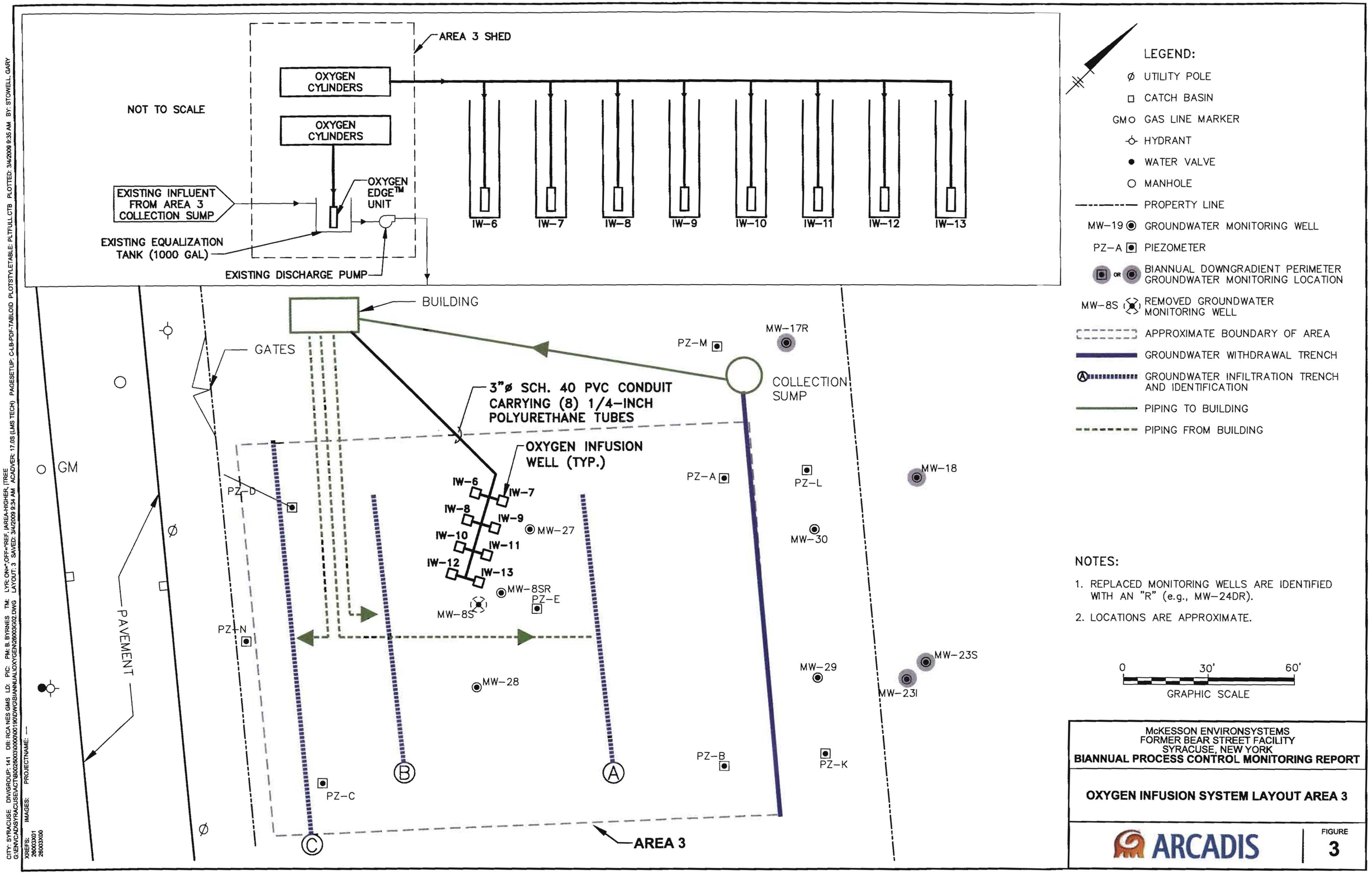


McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

OXYGEN INFUSION SYSTEM LAYOUT AREA 2

ARCADIS

FIGURE **2**



NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

OXYGEN INFUSION SYSTEM LAYOUT AREA 3

ARCADIS

FIGURE 3

CITY: SYRACUSE DIV/GROUP: 141 DB: ROANES GMS LD: PIC: PM: B. BYRNES TM: LYR: ON=*;OFF=*REF;AREA+HIGHER, [TREE
G:\ENV\CAD\SYRACUSE\ACT\B0026003\0006\0160\DWG\BIANNUAL\OXYGEN\26003G02.DWG LAYOUT: 3 SAVED: 3/4/2009 9:34 AM ACADVER: 17.0S (LMS TECH) PAGESETUP: C-LB-PDF-TABLOID PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/4/2009 9:35 AM BY: STOWELL, GARY
XREFS: IMAGES: PROJECTNAME: --
26003X01
26003X00

TW-02RR

Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	78 J	17	–	5.5	6.4	9.0
Benzene	–	4.9	5.5	–	5.8	4.5 J	4.4
Toluene	–	1.4 J	1.3 J	–	1.2 J	1.3 J	1.0 J
Ethylbenzene	–	2.2 J	4.0	–	3.0 J	3.8 J	2.3 J
Xylene	–	6.2	8.8	–	7.6	10	6.7
Methanol	–	<500	<500	–	<500 J	<500	<500
Trichloroethene	–	<1.0	<1.0	–	<1.0	<1.0	<1.0
Aniline	7,600	2,100	6,800	4,000 J	3,700	7,500	9,600
N,N–dimethylaniline	<52	<10 J	<100	<20	<25	<50	<71
Methylene Chloride	–	<3.0	<3.0	–	<3.0	<3.0	<3.0

MW-35

Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	13	<5.0	<5.0 J	5.4
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500 J	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	1.1	<5.0	<5.0	<5.0	1.1 J
N,N–dimethylaniline	<1.0 J	<1.0	<0.5	<0.5	<0.5
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-36

Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	130 J	33	–	10	8.0 J	27
Benzene	–	3.6	4.6	–	4.5	4.2	3.7
Toluene	–	1.2 J	1.4 J	–	1.7 J	1.5 J	1.4 J
Ethylbenzene	–	<4.0	0.8 J	–	0.9 J	0.8 J	0.6 J
Xylene	–	1.1 J	5.0	–	5.3	5.5	5.7
Methanol	–	<500	<500	–	<500 J	<500	<500
Trichloroethene	–	<1.0	<1.0	–	<1.0	<1.0	<1.0
Aniline	3.5	420	1,300	740	480 J	130	4.5 J
N,N–dimethylaniline	1.2	1.7 J	<10	<5.0	3.4 J	3.0	3.2
Methylene Chloride	–	<3.0	<3.0	–	<3.0	<3.0	<3.0

MW-34

Date	11/06	6/07	11/07	3/08	8/08
Acetone	49 J	22	<5.0	16	12
Benzene	<1.0	0.9 J	0.8 J	1.0 J	0.8 J
Toluene	0.8 J	0.5 J	0.8 J	0.5 J	0.5 J
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	0.6 J	0.6 J	1.1 J	1.1 J	1.1 J
Methanol	<500	<500	<500 J	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	9.9	<5.0	0.3 J	24	0.6 J
N,N–dimethylaniline	1.2 J	<1.0	1.5	1.3	1.6
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

TW-01

Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	7.8	<5.0	<5.0 J	<5.0
Benzene	0.7 J	0.5 J	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500 J	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	0.2 J	<5.0	<5.6
N,N–dimethylaniline	<1.0 J	<1.0	1.1	1.0	<0.6
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-31

Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	R	<5.0	–	<5.0	<5.0 J	22
Benzene	–	5.9	14	–	12	2.0	13
Toluene	–	<5.0	0.7 J	–	<5.0	<5.0	0.4 J
Ethylbenzene	–	<4.0	<4.0	–	<4.0	<4.0	<4.0
Xylene	–	<5.0	1.3 J	–	1.1 J	<5.0	2.2 J
Methanol	–	<500	<500	–	<500 J	<500	<500
Trichloroethene	–	<1.0	<1.0	–	<1.0	<1.0	<1.0
Aniline	1.6	0.4 J	<5.0	0.5 J	<5.0	0.2 J	<5.6
N,N–dimethylaniline	3.4	1.1 J	2.0	2.7	2.3	1.8	2.4
Methylene Chloride	–	<3.0	<3.0	–	<3.0	<3.0	<3.0

MW-9S

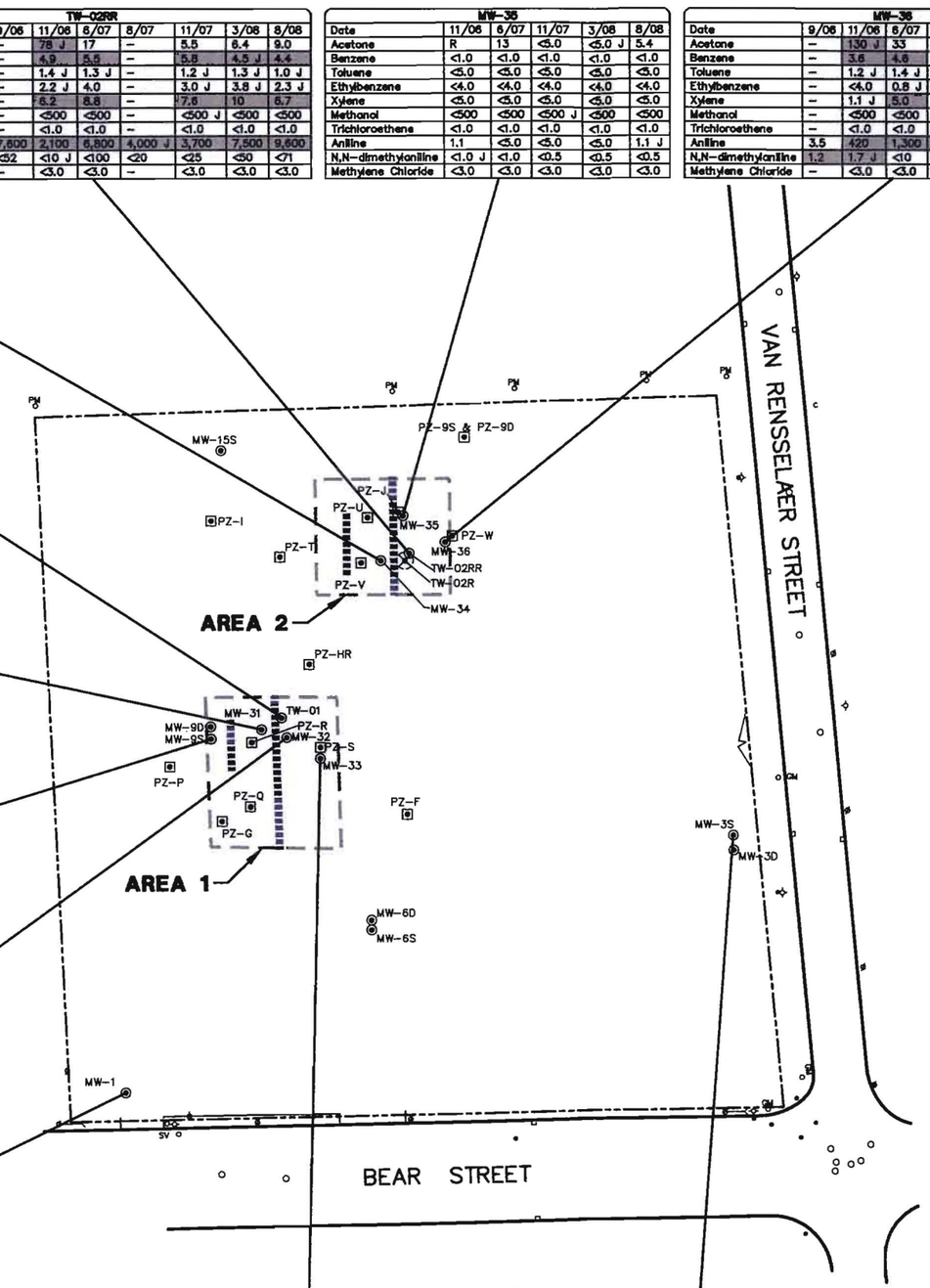
Date	11/06	6/07	11/07	3/08	8/08
Acetone	<5.0	<5.0	<5.0	<5.0 J	24
Benzene	1.4	1.4	0.9 J	1.1	3.7
Toluene	3.5 J	3.3 J	2.0 J	3.0 J	3.3 J
Ethylbenzene	23	42	11	37	21
Xylene	83	110	58	73	72
Methanol	<500	<500	<500 J	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	1.2	<1.0
Aniline	0.5 J	<5.0	1.7 J	0.7 J	<5.5
N,N–dimethylaniline	3.3 J	4.1	8.6	6.8	5.1
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-32

Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	<5.0	<5.0	<5.0 J	5.8
Benzene	<1.0	<1.0	<1.0	0.8 J	0.3 J
Toluene	0.8 J	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500 J	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	0.1 J	<5.0	<5.7
N,N–dimethylaniline	<1.0 J	<1.0	0.8	0.8	<0.6
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-1

Date	11/06	6/07	11/07	3/08	8/08
Acetone	<5.0	<5.0	<5.0	<5.0 J	7.4
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500 J	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.6
N,N–dimethylaniline	<1.0	<1.0	<0.5	<0.5	<0.6
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0



MW-33

Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	17 J	<5.0	–	<5.0	<5.0 J	<5.0
Benzene	–	8.5	5.7	–	4.0	4.1	3.2
Toluene	–	0.7 J	0.4 J	–	<5.0	<5.0	<5.0
Ethylbenzene	–	<4.0	<4.0	–	<4.0	<4.0	<4.0
Xylene	–	<5.0	<5.0	–	<5.0	<5.0	<5.0
Methanol	–	<500	<500	–	<500 J	<500	<500
Trichloroethene	–	<1.0	<1.0	–	<1.0	<1.0	<1.0
Aniline	840	84	46	48	0.1 J	<5.0	<5.9
N,N–dimethylaniline	8.0	2.9 J	2.6	4.2	3.5	4.1	2.8
Methylene Chloride	–	<3.0	<3.0	–	<3.0	<3.0	<3.0

MW-3S

Date	11/06	6/07	11/07	3/08	8/08
Acetone	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500 J	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.6
N,N–dimethylaniline	<1.0	<1.0	<0.5	<0.5	<0.6
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER
- GAS LINE MARKER
- SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- GROUNDWATER MONITORING WELL
- PIEZOMETER
- REMOVED GROUNDWATER MONITORING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER INFILTRATION TRENCH

SAMPLE IDENTIFICATION

MW-36

Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	130 J	33	–	10	8.0 J	27
Benzene	–	3.6	4.6	–	4.5	4.2	3.7
Toluene	–	1.2 J	1.4 J	–	1.7 J	1.5 J	1.4 J
Ethylbenzene	–	<4.0	0.8 J	–	0.9 J	0.8 J	0.6 J
Xylene	–	1.1 J	5.0	–	5.3	5.5	5.7
Methanol	–	<500	<500	–	<500 J	<500	<500
Trichloroethene	–	<1.0	<1.0	–	<1.0	<1.0	<1.0
Aniline	3.5	420	1,300	740	480 J	130	4.5 J
N,N–dimethylaniline	1.2	1.7 J	<10	<5.0	3.4 J	3.0	3.2
Methylene Chloride	–	<3.0	<3.0	–	<3.0	<3.0	<3.0

CONCENTRATION (ppb)

DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW–24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY COC CONCENTRATIONS DETECTED OR THAT HAVE BEEN DETECTED ARE PRESENTED ON THIS FIGURE (SEE ATTACHMENT A FIGURES 1 AND 3).
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. R = THE SAMPLE RESULT WAS REJECTED.
9. THE 9/06 AND 8/07 SAMPLING EVENTS WERE INTERIM SAMPLING EVENTS, ANALYZING FOR ANILINE & N,N–DIMETHYLANILINE ONLY.
10. DATA VALUES FOR ANILINE AND N,N–DIMETHYLANILINE AT TW–02RR PRESENTED WITH THE 11/07 DATA ARE THE RESULTS OF SAMPLES COLLECTED IN 12/07. THE ORIGINAL SAMPLE COLLECTED IN 11/07 WAS DAMAGED AND HAD TO BE RESAMPLED.
11. SAMPLE DATA ARE COMPARED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION GROUNDWATER QUALITY STANDARDS (GQS) (TECHNICAL AND OPERATIONAL GUIDANCE SERIES 1.1.1).
12. NA – STANDARD NOT AVAILABLE.

0 100' 200'

GRAPHIC SCALE

NYSDEC GQS	
Acetone	50
Benzene	1
Toluene	5
Ethylbenzene	5
Xylene	5
Methanol	NA
Trichloroethene	5
Aniline	5
N,N–dimethylaniline	1
Methylene Chloride	5

McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR SEPTEMBER 2006 - AUGUST 2008 AREAS 1 & 2 (AEROBIC TREATMENT)

ARCADIS

FIGURE 5

MW-27							
Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	31	21	–	<5.0 J	21	3.6 J
Benzene	–	14	8.4	–	6.6	9.4	5.0
Toluene	–	71	9.5	–	4.7 J	23	2.2 J
Ethylbenzene	–	42	14	–	8.6	43	1.8 J
Xylene	–	91	24	–	24	88	10
Methanol	–	<500	<500	–	<500	<500	<500
Trichloroethene	–	<1.0	<1.0	–	<1.0	<2.0	<1.0
Aniline	1,700	33,000	1,100	<10 J	3,000 J	13,000	2,400
N,N-dimethylaniline	<10	<210	<10	<1.0	<25 J	<100	<25
Methylene Chloride	–	<3.0	<3.0	–	<3.0	<6.0	<3.0

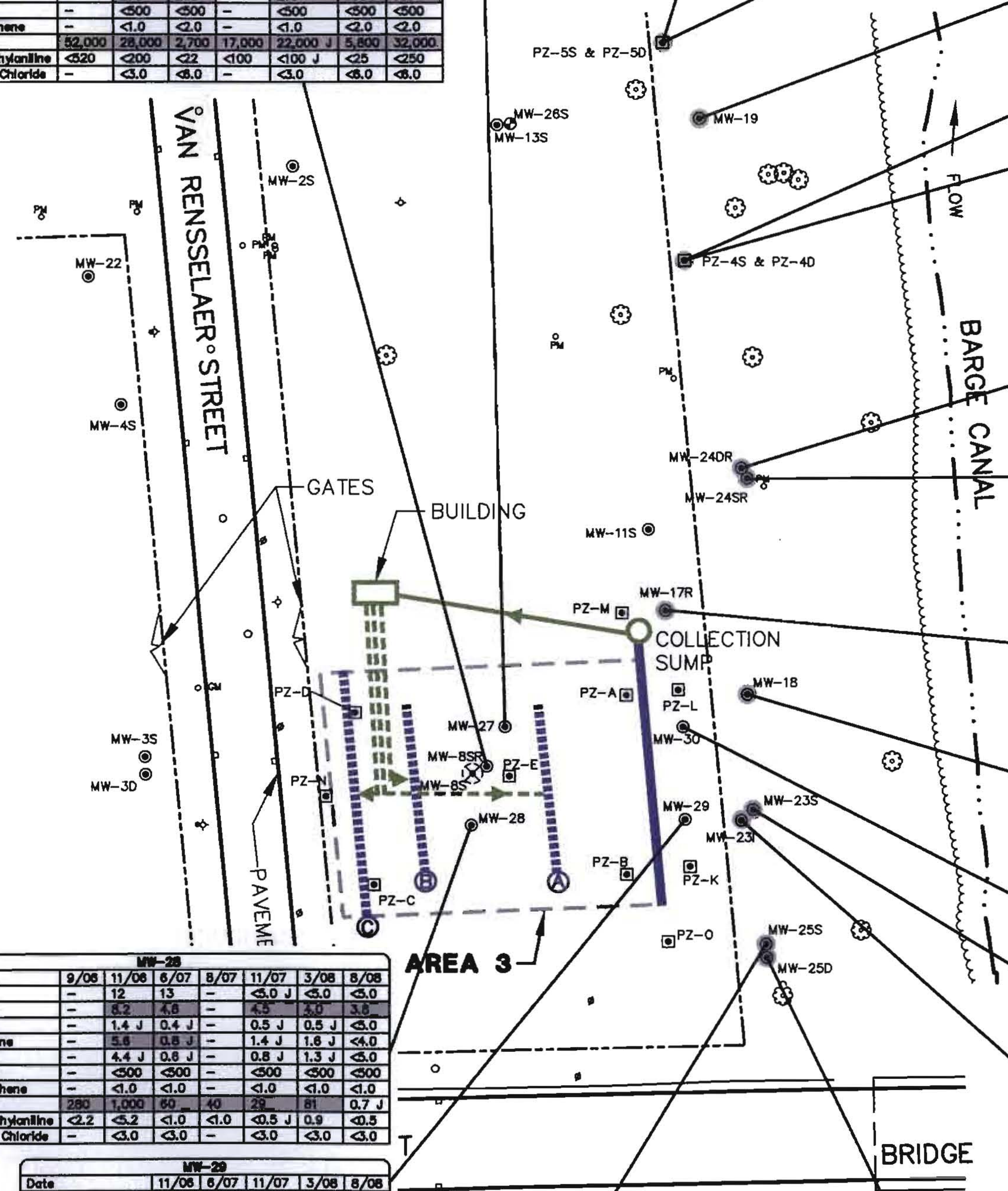
PZ-5S			
Date	11/06	11/07	8/08
Acetone	R	<5.0 J	<5.0
Benzene	–	<1.0	<1.0
Toluene	–	<5.0	<5.0
Ethylbenzene	–	<4.0	<4.0
Xylene	–	<5.0	<5.0
Methanol	–	<500	<500
Trichloroethene	–	<1.0	<1.0
Aniline	–	<5.0	<5.3
N,N-dimethylaniline	–	<0.5	<0.5
Methylene Chloride	–	<3.0	<3.0

PZ-5D			
Date	11/06	11/07	8/08
Acetone	–	<5.0 J	<5.0
Benzene	–	<1.0	<1.0
Toluene	–	<5.0	<5.0
Ethylbenzene	–	<4.0	<4.0
Xylene	–	<5.0	<5.0
Methanol	–	<500	<500
Trichloroethene	–	<1.0	<1.0
Aniline	<1.0	<5.0	<5.1
N,N-dimethylaniline	–	<0.5	<0.5
Methylene Chloride	–	<3.0	<3.0

MW-19					
Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	<5.0	<5.0 J	<5.0	<5.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.5	<5.0	<5.0	<5.6
N,N-dimethylaniline	<1.0 J	<1.1	<0.5	<0.5	<0.6
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

PZ-4S		
Date	6/07	3/08
Acetone	<5.0	<5.0
Benzene	<1.0	<1.0
Toluene	<5.0	<5.0
Ethylbenzene	<4.0	<4.0
Xylene	<5.0	<5.0
Methanol	<500	<500
Trichloroethene	<1.0	<1.0
Aniline	<5.5	<5.0
N,N-dimethylaniline	<1.1	<0.5
Methylene Chloride	<3.0	<3.0

MW-8SR							
Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	28	58	–	<5.0 J	<10	8.2 J
Benzene	–	16	14	–	12	5.5	11
Toluene	–	100	110	–	22	22	24
Ethylbenzene	–	84	83	–	73	70	70
Xylene	–	270	250	–	210	160	190
Methanol	–	<500	<500	–	<500	<500	<500
Trichloroethene	–	<1.0	<2.0	–	<1.0	<2.0	<2.0
Aniline	52,000	26,000	2,700	17,000	22,000 J	5,600	32,000
N,N-dimethylaniline	<520	<200	<22	<100	<100 J	<25	<250
Methylene Chloride	–	<3.0	<6.0	–	<3.0	<6.0	<6.0



PZ-4D		
Date	6/07	3/08
Acetone	<5.0	<5.0
Benzene	<1.0	<1.0
Toluene	<5.0	<5.0
Ethylbenzene	<4.0	<4.0
Xylene	<5.0	<5.0
Methanol	<500	<500
Trichloroethene	<1.0	<1.0
Aniline	<5.5	<5.0
N,N-dimethylaniline	<1.1	<0.5
Methylene Chloride	<3.0	<3.0

MW-24DR			
Date	11/06	11/07	8/08
Acetone	R	<5.0	<5.0
Benzene	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0
Methanol	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.7
N,N-dimethylaniline	<1.0 J	<0.5	<0.6
Methylene Chloride	<3.0	<3.0	<3.0

MW-24SR			
Date	11/06	11/07	8/08
Acetone	R	<5.0	<5.0
Benzene	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0
Methanol	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.7
N,N-dimethylaniline	<1.0 J	<0.5	<0.8
Methylene Chloride	<3.0	<3.0	<3.0

MW-17R					
Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	<5.0	<5.0	<5.0	2.3 J
Benzene	<1.0	0.7 J	<1.0	<1.0	1.8
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500 J	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.0
N,N-dimethylaniline	<1.0 J	<1.0	<0.5	<0.5	<0.5
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-18					
Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	<5.0	<5.0	<5.0	5.5
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.6
N,N-dimethylaniline	<1.0 J	<1.0	<0.5	<0.5	<0.8
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-30					
Date	11/06	6/07	11/07	3/08	8/08
Acetone	11	<5.0	<5.0 J	<5.0	<5.0
Benzene	1.0	<1.0	0.8 J	0.6 J	0.7 J
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	0.2 J	<5.0
Methanol	<500	<500	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	200	30	49	3.0 J	31
N,N-dimethylaniline	<1.0	<1.1	<0.5	0.7	<0.5
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-28							
Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	12	13	–	<5.0 J	<5.0	<5.0
Benzene	–	8.2	4.6	–	4.5	4.0	3.8
Toluene	–	1.4 J	0.4 J	–	0.5 J	0.5 J	<5.0
Ethylbenzene	–	5.6	0.8 J	–	1.4 J	1.6 J	<4.0
Xylene	–	4.4 J	0.6 J	–	0.8 J	1.3 J	<5.0
Methanol	–	<500	<500	–	<500	<500	<500
Trichloroethene	–	<1.0	<1.0	–	<1.0	<1.0	<1.0
Aniline	280	1,000	60	40	29	81	0.7 J
N,N-dimethylaniline	<2.2	<5.2	<1.0	<1.0	<0.5 J	0.9	<0.5
Methylene Chloride	–	<3.0	<3.0	–	<3.0	<3.0	<3.0

MW-29					
Date	11/06	6/07	11/07	3/08	8/08
Acetone	5.4	<5.0	<5.0 J	<5.0	<5.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	0.5 J	<5.0	<5.0	<5.0
Methanol	<500	<500	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	0.4 J	<5.5	<5.0 J	<5.0	<5.0
N,N-dimethylaniline	<1.0	<1.1	<0.5 J	<0.5	<0.5
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-25S					
Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	<5.0	<5.0	<5.0	<5.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.2
N,N-dimethylaniline	<1.0 J	<1.0	<0.5	<0.5	<0.5
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-25D		
Date	6/07	3/08
Acetone	12 J	<5.0
Benzene	<1.0	<1.0
Toluene	<5.0	<5.0
Ethylbenzene	<4.0	<4.0
Xylene	<5.0	<5.0
Methanol	<500	<500
Trichloroethene	<1.0	<1.0
Aniline	<5.0	<5.0
N,N-dimethylaniline	<1.0	<0.5
Methylene Chloride	<3.0	<3.0

MW-23					
Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	<5.0	<5.0	<5.0	<5.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.0
N,N-dimethylaniline	<1.0 J	<1.0	<0.5	<0.5	<0.5
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

MW-23S					
Date	11/06	6/07	11/07	3/08	8/08
Acetone	R	<5.0	<5.0	<5.0	<5.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene	<5.0	<5.0	<5.0	<5.0	<5.0
Methanol	<500	<500	<500	<500	<500
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.6
N,N-dimethylaniline	<1.0 J	<1.0	<0.5	<0.5	<0.6
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PMO PETROLEUM PIPE LINE MARKER
- GMO GAS LINE MARKER
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- OR BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- MW-26S PUMPING WELL
- MW-8S REMOVED GROUNDWATER MONITORING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- (A) GROUNDWATER INFILTRATION TRENCH AND IDENTIFICATION
- PIPING TO BUILDING
- PIPING FROM BUILDING
- TREE LINE
- EDGE OF BARGE CANAL

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY COC CONCENTRATIONS DETECTED OR HAVE BEEN DETECTED ARE PRESENTED ON THIS FIGURE (SEE ATTACHMENT A FIGURES 2 AND 4).
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. R = THE SAMPLE RESULT WAS REJECTED.
9. THE 9/06 AND 8/07 SAMPLING EVENTS WERE INTERIM SAMPLING EVENTS, ANALYZING FOR ANILINE & N,N-DIMETHYLANILINE ONLY.
10. SAMPLE DATA ARE COMPARED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) GROUNDWATER QUALITY STANDARDS (GQS) (TECHNICAL AND OPERATIONAL GUIDANCE SERIES 1.1.1).
11. NA – STANDARD NOT AVAILABLE.

NYSDEC GQS	
Acetone	50
Benzene	1
Toluene	5
Ethylbenzene	5
Xylene	5
Methanol	NA
Trichloroethene	5
Aniline	5
N,N-dimethylaniline	1
Methylene Chloride	5

SAMPLE IDENTIFICATION

MW-28							
Date	9/06	11/06	6/07	8/07	11/07	3/08	8/08
Acetone	–	12	13	–	<5.0 J	<5.0	<5.0
Benzene	–	8.2	4.6	–	4.5	4.0	3.8
Toluene	–	1.4 J	0.4 J	–	0.5 J	0.5 J	<5.0
Ethylbenzene	–	5.6	0.8 J	–	1.4 J	1.6 J	<4.0
Xylene	–	4.4 J	0.6 J	–	0.8 J	1.3 J	<5.0
Methanol	–	<500	<500	–	<500	<500	<500
Trichloroethene	–	<1.0	<1.0	–	<1.0	<1.0	<1.0
Aniline	280	1,000	60	40	29	81	0.7 J
N,N-dimethylaniline	<2.2	<5.2	<1.0	<1.0	<0.5 J	0.9	<0.5
Methylene Chloride	–	<3.0	<3.0	–	<3.0	<3.0	<3.0

DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.

CONCENTRATION (ppb)

0 100' 200'

GRAPHIC SCALE

McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR SEPTEMBER 2006 - AUGUST 2008 AREA 3 (AEROBIC TREATMENT)

ARCADIS

FIGURE 6

CITY: SYRACUSE DIV/GROUP: 141 DB: RCA NES GMS LD: PIC: PM: B. BYRNES TM: LYR: ON=*;OFF=*REF; [AREA-HIGHER PAGESETUP: C-LB-PDF-TABLOID PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/4/2009 12:24 PM BY: STOWELL, GARY
G:\ENVCAD\SYRACUSE\ACT\B0026003\0000\00190\DWG\BIANNUAL\26003C04.DWG LAYOUT: 6 SAVED: 3/4/2009 12:24 PM ACADVER: 17.0S (LMS TECH)
XREFS: 26003X01 26003X00 IMAGES: PROJECTNAME: ---

ARCADIS

Attachment A

Table 1. Summary of Historical Groundwater Monitoring Data

Table 2. Summary of Historical Groundwater Level Measurements

Figures 1 – 4.
Groundwater Monitoring Data Summaries

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-1	3/88	370.3	355.3	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	1/89			<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	7/99			0.7 JN	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	9/00			8 J	<10 J	3 J	<10 J	5.0 J	<1,000	<10 J	<10 J	<10	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	10
	9/01			<10	<10	<10	<10	<10	<1,000 J	<10	<10	<10	<10
	4/02			<12	<5.0	<5.0	<5.0	<10	990 J	<5	<5	<5	<5
	10/02			<25	<10	<10	<10	<20	<1,000	<10	<5	R	<10
	5/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/03			<12	<5	<5	<5	<10	<1,000	<5	2 J	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	0.2 J	<1.0	<3.0
	11/05			<1.3 J	<0.3	<0.4	<0.5	<0.5	<1,000	<0.4	<1.0	<1.0 J	<0.5
	6/06			<5.0 J	<1.0 J	<5.0 J	<4.0 J	<5.0 J	<1,000 J	<1.0 J	<1.0 J	<1.0 J	<3.0 J
MW-2S	3/88	368.1	353.1	<1,000	1,900	110	610	2,800	<1,000	<10	<10	<10	<10
	1/89			<1,000	2,000	65	330	1,200	<1,000	<10	<11	<11	<10
	11/89			<1,000	1,800	<100	360	810	38,000	<100	<100	<100	<100
MW-3S	3/88	365.1	350.1	<100	<1	<1	<1	<1	<1,000	50	<10	<10	110
	1/89			<10,000	<100	120	<100	<100	<1,000	1,100	<11	5,570	4,700
	11/89			<10,000	<100	<100	<100	<100	<1,000	100	<52	440	2,700
	11/91			2,900	10	10	4.0	31	<1,000	<10	790	170	<10
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5.0	15	2.0 J	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	7/99			<10	1 J	0.7 J	<10	<10	<1,000	<10	9 J	<10	<10
	3/00			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10	<10	<10
	9/00			<10 J	1 J	2 J	<10 J	<10 J	<1,000	<10 J	2 J	1 J	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	3 J	8 J	1 J	2 J	<1,000 J	<10	690 D (69)[B]	4 J	<10
	4/02			<12	<5	<5	<5	<10	370 J	<5.0	1.7 J	<5	<5
	10/02			<25	<10	<10	<10	<20	<1,000	<10	<5	R	<10
	5/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/03			<12	<5	<5	<5	<10	<1,000	<5	4 J	<5	<5
	6/04			6.0 J	<10	<10	<10	<20	<1,000	<10	0.8 J	<6	<10

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-3S	11/04			<25	<10	<10	<10	<20	150 J	<10	4 J	<5.0	<10
(cont'd)	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	15	<1.0	<3.0
	11/05			<1.3 J	<0.3	<0.4	<0.5	<0.4	<1,000	<0.4	<1.0	<1.0 J	<0.5
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-3D	8/95	343.8	339	<1,000	<25 D	<25 D	<25 D	<25 D	<1,000	<25 D	1 J	5 J	200 D
MW-4S	3/88	365.5	350.5	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	1/89			<100	<1	<1	<1	<1	<1,000	<1	<11	19	280
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
MW-5[C]	3/88	363.3	348.3	<100	<1	<1	<1	<1	<1,000	<1	230	130	<1
	1/89			<100	<1	<1	<1	<1	<1,000	<1	54	<11	<1
	11/89			<100	<1	<1	<1	<1	<1,000	<1	17	<10	<1
MW-6[D]	1/89	365.5	355.9	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
(Replaced by MW-6S)	11/89			<10	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
MW-7[D]	1/89	367	357.4	<100	<1	<1	<1	2	<1,000	<1	<11	<11	100
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
MW-8[D]	1/89	364.7	355.1	<1,000,000	<10,000	<10,000	<10,000	<10,000	430,000	<10,000	2,900	24,000	3,200,000
(Replaced by MW-8S)[E]	11/89			470,000	<10,000	<10,000	<10,000	<10,000	300,000	<10,000	8,500	52,000	2,800,000
	11/91			<1,000,000	<10,000	<10,000	<10,000	<30,000	150,000	<10,000	6,000	33,000	1,600,000
	8/95			<1,000	<250,000D	<250,000D	<250,000D	<250,000D	22,000	60,000 JD	<25,000D	380,000 D	7,700,000 D
	9/98			<10,000 J	<10,000	<10,000	<10,000	<10,000	7,900	3,300 J	1,200 J	26,000 D	140,000
	2/99			<20,000	<20,000	<20,000	<20,000	<20,000	16,000JN	11,000 J	30,000 D	120,000 D	650,000 DB
	7/99			10 J	22 J	240 J	58 J	220 J	17,000	11,000 J	24,000	77,000 D	450,000 D
	3/00			<100,000	<100,000	<100,000	<100,000	<100,000	30,000 J	<100,000	62,000	270,000 D	1,300,000
	9/00			<50,000 J	<50,000 J	<50,000 J	<50,000 J	<50,000 J	14,000 J	9,200 J	42,000 D	59,000	540,000 BJ
	3/01			<50,000	<50,000	<50,000	<50,000	<50,000	53,000	11,000 J	90,000 D	120,000 D	590,000
	9/01			<400	<400	430	170 J	680	8,900 J	18,000 JD	21,000	29,000	440,000 BD
	4/02			2,100	50 J	410	100 J	400	<1,000	9,600 J	793,000 D	773,000 D	660,000 D
	10/02			120 J	23	310	73	267 J	<1,000	3,100	80,000	21,000 J	320,000
	5/03			<12	20 J	600 D	61	300	<1,000	6,700 D	79,000 D	29,000	910,000 D
	10/03			21	25	330 D	93	360	1,200 J	3,100 D	67,000 D	24,000 D	400,000 D
	6/04			<25	40	330 EJ	110	400	<1,000	6,900 D	56,000	51,000	1,200,000 D
MW-8SR	11/04	362.7	352.7	<1,200	<500	100 DJ	<500	164 DJ	<1,000	<500	35,000 D	5,300 D	10,000 D
	6/05			31 J	13	100	53	180	<1,000	<1.0	30,000	<200	<3.0
	11/05			15 J	13	130	66	260	<1,000	<1.0	32,000	<260 J	<3.0
	6/06			48	15	120	79	260	<1,000	<1.0	23,000	<200	<3.0
MW-9[D]	1/89	365.6	356	1,600	NA	64	130	270	<1,000	<10	660	1,200	1,500
(Replaced by MW-9S)	11/89			<1,000	48	25	60	60	<1,000	<10	670	150	<10
	11/91			<100	<10	9	19	30	<1,000	<1.0	95	18	<1
	8/95			<1,000	11 JD	26 JD	69 D	226 JD	<1,000	<50	50	28	110 D
	7/99			<10	4 J	2 J	9 J	18	<1,000	<10	<10	5.0 J	<10

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-9[D]	3/00			<10	2 J	2 J	11	21	<1,000 J	<10	2.0 J	9.0 J	<10
(cont'd)	9/00			<10 J	11 J	2 J	6.0 J	18 J	<1,000	<10 J	1.0 J	6.0 J	<10 J
	3/01			<10	1 J	3 J	17	61	<1,000	<10	2.0 J	11	<10
	9/01			<10	10	3 J	7.0 J	35	<1,000 J	<10	<10	10	<10
	4/02			<23	10	2 J	6	17 J	370 J	<5	9	43	<5
	10/02			16 J	38	40	2 J	15 J	<1,000	<10	<5.0	2.0 J	<10
	5/03			<12	11	<5	7	18	<1,000	<5.0	0.9 J	3.0 J	<5
	10/03			<12	2 J	<5	5	19	<1,000	<5.0	1.0 J	<5.0	<5
	6/04			14 J	6 J	2.0 J	8 J	19 J	<1,000	<10	<5.0	<5.0	<10
	11/04			<25	4 J	2 J	9 J	30 J	<1,000	<10	<5.0	<5.0	<10
	6/05			44 J	1.9	3.2 J	24	64	<1,000	<1.0	2.6	1.9	<3.0
	11/05			<1.3 J	3.5	3.8	11	33	<1,000	<0.4	1.4	6.1 J	<0.5
	6/06			<5.0 J	1.1 J	2.3 J	25 J	60 J	<1,000 J	<1.0 J	<1.1 J	3.8 J	<3.0 J
MW-10[D]	1/89	355.5	345.9	<1,000,000	<10,000	<10,000	<10,000	<10,000	210,000	<10,000	720	9,400	520,000
(Replaced by MW-9D)	11/89			<100,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	900	2,400	28,000
	11/91			<100	<1	3.0	2.0	<3.0	<1,000	<1	230	<10	341
	8/95			<1,000	<25 UD	<25 UD	<25 UD	<25 UD	<1,000	<25 UD	<5.0	<10	350 D
MW-11[D]	1/89	355.1	345.5	<100	<1	<1	<1	<1	8,400	<1	<12	<12	1
(Replaced MW-6D)	11/89			<100	<1	<1	<1	<1	<1,000	<1	230	<52	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
MW-11S	12/94	359.9	354.9	<380	<10	<10	<10	<10	880	<10	<5	<10	<10
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<26
	10/95			NA	<5	<5	<5	<5	NA	<5	NA	NA	<5
MW-11D	12/94	349.8	344.8	<310	<5	<5	<5	<5	2,100	<5	<5	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	10/95			NA	<5	<5	<5	<5	NA	<5	NA	NA	<5
MW-12D[D]	1/89	354.8	345.2	<100,000	<1,000	<1,000	<1,000	<1,000	12,000	<1,000	67	410	120,000
(Replaced MW-8D)[E]	11/89			69,000	<1,000	<1,000	<1,000	<1,000	39,000	<1,000	<1,000	4,900	360,000
	11/91			<1,000,000	<10,000	<10,000	<10,000	<30,000	<10,000	<10,000	750	5,800	220,000
	8/95			<1,000	450 JD	430 JD	430 JD	1,250 JD	<1,000	<1,300 D	30 D	230 D	<13,000 D
	8/96			13	<10	<10	<10	<10	<1,000	2.0 J	<5	<10	40
MW-13S	11/89	368.7	359.1	<100	3	<1	<1	<1	<1,000	<1.0	<52	<52	<1.0
	11/90			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
	11/91			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
	11/92			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
MW-14D[C]	1/89	359	349.4	<100	<1	<1	<1	<1	<1,000	<1.0	<11	<11	<1.0
	11/89			<100	<1	<1	<1	<1	<1,000	<1.0	<10	<10	<1.0
MW-15S	1/89	370	360.25	<100	<1	<1	<1	<1	<1,000	<1.0	<11	<11	<1.0
	11/89			<100	<1	<1	<1	<1	<1,000	<1.0	<52	<52	<1.0
MW-16D[C]	1/89	350.8	341.2	<100	<1	<1	<1	<1	<1,000	<1.0	<11	<11	<1.0
	11/89			<100	<1	<1	<1	<1	<1,000	<1.0	<10	<10	<1.0

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-17[C]	11/90	365.7	356.1	<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
(Replaced by MW-17R)	11/91			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
	11/92			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<11
	10/95			NA	<5	<5	<5	<5	NA	2 J	NA	NA	<5
	8/96			11	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/99			<10	1 J	<10	<10	<10	<1,000	<10	<10	<10	<10 J
	3/00			<10	8 J	<10	<10	<10	<1,000 J	<10	<5.0	<10	<10
	9/00			<10 J	15 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	24 J	4 J	1 J
	3/01			<10	8 J	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	5 J	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	6	<5	<5	<10	620 J	<5	150 (<5)[F]	110 (<5)[F]	<5
	10/02			<25 J	14	<10	<10	<20	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	8	<5	<5	<5	<1,000	<5	<5	<5	<5
	11/03			<12	7	<5	<5	<10	<1,000	<5	<5	<5	<5
	6/04			<25	5 J	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	200 J	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0	0.8 J	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1	<3.0
MW-18	11/89	325.15	316.15	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	12/94			<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-18	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
(cont'd)	4/02			<10	<10	<10	<10	<20	720 J	<10	280 D (<5)[F]	200 D (<5)[F]	<10
	10/02			6 J	<10	<10	<10	<20	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	280 J	<5	<5	<5	<5
	10/03			<12	<5	<5	<5	<10	<1,000	<5	0.7 J	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	R	R	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1 J	<3.0
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-19	11/89	318.45	309.45	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	12/94			<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<12
	10/95			NA	<5	<5	<5	<5	NA	<5	NA	NA	<5
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	6 J	<11
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	7/99			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	<10	<10	<10 J
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	10/03			<11	<5	<5	<5	<10	<1,000	<5	51 J	16 J	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-20[C]	11/89	329.85	320.85	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
MW-21[C]	11/89	323.65	314.65	<100	<5	<1	<1	<1	<1,000	<1	<10	<10	<1
MW-22	11/89	368.55	359.55	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-23S	12/94	364.1	354.1	<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/96			<10	<10	<10	<10	<10	<1,000	<10	7	<10	<10
	2/97			<10	<10	<10	<10	<10	<1,000	<10	11	<10	<10
	8/97			12	<10	<10	<10	<10	<1,000	<10	92	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	56[H]	7 J	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	10	<10 J
	6/99			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10 J	2 J	<10 J
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	2 U	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	2 J	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<62	<25	<25	<25	<50	380 J	<25	<5	<5	<25
	10/03			<12	<5	<5	<5	<10	<1,000	<5	60	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.2	<1.2	<3.0
MW-23I	12/94	341.2	336.2	<10	<5.0	<5	<5.0	<5.0	<200	<5.0	<5.0	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<11	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10 J
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			4 J	<10	<10	<10	2 J	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	2 J
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	10/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	1 J	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-23I	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
(cont'd)	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0 J	<1.0	0.6 J	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-24S[C]	12/94	358.4	352.4	<10	<5	<5	<5	<5	<1,000	<5	<5	<10	<5
(Replaced by MW-24SR)	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<10
	6/99			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10 J	<10 J	<10 J
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	6/02[F]			NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	16	<6	<5
	6/04[J]			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
MW-24D[C]	12/94	334.4	341.2	<10	<5	<5	<5	<5	<1,000	<5	<5	<10	<5
(Replaced by MW-24DR)	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<10
	7/99			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	<10	<10	<10 J
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	6/02[F]			NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	0.5 J	<5	<5
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5 J	<1	<5	<4	<5	<1,000	<1	<1	<1	<3
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1 J	<3.0
MW-25S	8/95	361.2	356.2	<1,000	<5	<5	<5	<5	<1,000	<5	<5	0.7 J	<10
	10/95			NA	<5	<5	<5	<5	NA	<5	<5	<10	<5
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	130	<10	<10 J
	6/99			<10 J	<10	<10	<10	<10	<1,000 J	<10	110 J	21 J	<10 J
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	5 J	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-25S	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
(cont'd.)	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/02			<25	<10	<10	<10	<20	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	11/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-25D	8/95	349.55	344.55	<1,000	<5	<5	<5	<5	<1,000	<5	<5	1 J	<5
	10/95			NA	<5	<5	<5	<5	NA	3 J	<5	<10	<5
	8/96			15	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<11	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10 J
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	3/01			<10	<10	<10	<10	<10	<1,000	<10	5 J	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	6/06			<5.0 J	<1.0	0.7 J	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-26	12/96	365	355.3	<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
MW-27	9/98	362.5	354.5	23	3 J	4 J	<10	3 J	<1,000	<10	340 DJ	<10	<10
	7/99			<10 J	4 J	2 J	3 J	8 J	<1,000	<10	740 D	<10	<10
	3/00			<10	6 J	<10	8 J	2 J	<1,000 J	<10	110 D	1 J	<10
	9/00			<10 J	4 J	<10 J	3 J	1 J	<1,000 J	<10 J	16 J	2 J	1 J
	3/01			<10	5 J	<10	5 J	2 J	<1,000	<10	260 D	2 J	<10
	9/01			<10	5 J	<10	2 J	<10	<1,000 J	<10	26 J	<10	<10
	4/02			<18	7	11	12	26	<1,000	<5	176,000 DJ	19 J	<5
	10/02			9 J	3 J	<10	<10	<20	<1,000	4 J	2,700 D	100 J	60 JN
	5/03			<12	8	11	23	51	<1,000	<5	15,000 DJ	11	43
	10/03			170	6	<5	<5	3 J	<1,000	<5	3,700 D	<5	240 D
	6/04			23 J	5 J	4 J	2 J	6 J	<1,000	<10	3,700 D	20 J	<10
	11/04			<120 (28)	<50 (4 J)	<50 (2 J)	<50 (<10)	<100 (<20)	<1,000	<50 (<10)	1,100 DJ	<5	310 (490 D)
	6/05			31 J	6.1	15	5.8	15	<1,000	<1.0	5,200	<23	<3.0
	11/05			35 J (37 J)	11 (12)	77 (78)	26 (26)	86 (88)	<1,000 (<1,000)	<1.0 (<1.0)	37,000 (38,000)	<270 J (<260 J)	<3.0 (<3.0)
	6/06			5.3 J (5.8 J)	9.5 J (8.9 J)	50 J (48 J)	25 J (25 J)	66 J (63 J)	<1,000 J (<1,000 J)	<1.0 J (<1.0 J)	14,000 J (12,000 J)	<100 J (<100 J)	<3.0 J (<3.0 J)

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-28	9/98	363.6	355.6	<5,000 J	<5,000	<5,000	<5,000	<5,000	2,200	<5,000	546 D[H]	54	64,000 J
	7/99			<500 J	<500	<500	<500	<500	<1,000	<500	1,100 D	40	39,000 D
	3/00			<10,000	<10,000	<10,000	<10,000	<10,000	<1,000 J	<10,000	1,300 D	30	130,000 J
	9/00			<1,000 J	<1,000 J	<1,000 J	<1,000 J	<1,000 J	<1,000 J	<1,000 J	540 DJ	<10	6,100 BJ
	3/01			<400	<400	<400	<400	<400	<1,000	<400	3,200 D	7 J	5,900 B
	9/01			<400	<400	<400	<400	<400	<1,000 J	<400	1,000 D	<10	4,700 B
	4/02			<49	8	6	9	10 J	<1,000	<5	33,400 D	57	4,600 D
	10/02			14 J	6 J	6 J	11	12 J	<1,000	<10	2,700 D	R	<10
	5/03			13	4 J	2 J	2 J	8 J	<1,000	<5	1,000 DJ	3 J	52
	10/03			24	11	6	12	13 J	<1,000	<5	1,900 D	<5	<5
	6/04			20 J	4 J	2 J	5 J	4 J	<1,000	<10	910 D	<5	<10
	11/04			<120 (<25)	<50 (4 J)	<50 (<10)	<50 (5 J)	<100 (3 J)	190 J	<50 (<10)	640 DJ	<5	<50 (<10)
	6/05			5.2 J	4.5	1.2 J	4.6	3.9 J	<1,000	<1.0	630	<5.0	<3.0
	11/05			6.8 J (7.8 J)	6.1 (5.8)	<5.0 (<5.0)	4.7 (4.7)	<5.0 (<5.0)	<1,000 (<1,000)	<1.0 (<1.0)	380 J (350 J)	<2.2 (<2.1)	<3.0 (<3.0)
	6/06			<5.0 J (<5.0 J)	6.0 J (6.3 J)	1.2 J (1.3 J)	5.3 J (5.4 J)	4.2 J (4.3 J)	<500 J (<1,000 J)	<1.0 J (<1.0 J)	430 J (530 J)	<2.1 J (<5.0 J)	<3.0 J (<3.0 J)
MW-29	9/98	362.9	345.9	<10	<10	<10	<10	2 J	<1,000	<10	<10	13	<10
	2/99			7 J	<10	<10	<10	1 J	<1,000	<10	5 J	4 J	<10
	7/99			<10	<10	<10	<10	<10	<1,000	<10	2 J	4 J	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	450 D	6 J	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	24 J	4 J	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	30	4 J	<10
	9/01			<10	<10	<10	<10	<10	<1,000	<10	7 J	2 J	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	3 J	9	<6
	10/02			<25 J	<10	<10	<10	<20	<1,000	<10	8 J	R	4 JN
	5/03			<12	<5	<5	<5	<10	<1,000	<5	19	1 J	<3
	10/03			<12	<5	<5	<5	<10	<1,000	<5	2 J	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	3 J	<5	<10
	11/04			<120	<50	<50	<50	<100	420 J	<50	<5	<5	<50
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-30	9/98	363.5	355.5	<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	2/99			7 J	<10	<10	<10	<10	<1,000	<10	<10	2 J	<10
	7/99			<10	0.7 J	<10	<10	<10	<1,000	0.5 J	<10	1 J	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	18	2 J	4 J
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	9 J	2 J	2 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	8 J	2 J	<10
	9/01			4 J	2 J	<10	<10	<10	<1,000 J	<10	8 J	1 J	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	250	210	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	R	R	<10
	5/03			<62	<25	<25	<25	<50	<1,000	<25	18	0.6 J	8 J

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-30	10/03			<12	<5	<5	<5	<10	<1,000	<5	4 J	<5	<5
(cont'd.)	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			<120	<50	<50	<50	<100	<1,000	<50	<5	<5	<50
	6/05			<5.0 J	0.3 J	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	0.7 J	0.6 J	<4.0	0.5 J	<1,000	<1.0	240	<1.0 J	<3.0
	6/06			<5.0	0.6 J	0.4 J	<4.0	<5.0	<1,000	<1.0	29	<1.0	<3.0
MW-31	9/98	363.7	355.4	<10	12	<10	<10	<10	<1,000	<10	34	4 J	<10
	7/99			<10	16	<10	<10	<10	<1,000	<10	230 D	3 J	<10
	3/00			<10	16	<10	<10	<10	<1,000 J	<10	3 J	4 J	<10
	9/00			<10 J	12 J	<10 J	<10 J	<10 J	<1,000	<10 J	10	6 J	<10 J
	3/01			21	11	<10	<10	<10	<1,000	<10	<10	5 J	<10
	9/01			<10	14	<10	<10	<10	<1,000 J	<10	91 D	3 J	<10
	4/02			<14	9	<5	<5	<10	<1,000	<5	804 D	21	<5
	10/02			<25	11	<10	<10	<20	<1,000	<10	560 D	1 J	<10
	5/03			<12	9	<5	<5	<10	<1,000	<5	0.9 J	3 J	<5
	10/03			1,200 D	13	<5	<5	<5	<1,000	<5	88	<5	<5
	6/04			15 J	12	<10	<10	<20	<1,000	<10	3 J	<5	<10
	11/04			<25	9 J	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	11	<5.0	<4.0	1.3 J	<1,000	<1.0	3.2	2.7 J	<3.0
	11/05			<1.3 J	6.7	<0.4	<0.5	0.6	<1,000	<0.4	16	<1.0 J	<0.5
	6/06			<5.0 J	11 J	0.6 J	<4.0 J	1.7 J	<1,000 J	<1.0 J	<1.0 J	2.4 J	<3.0 J
MW-32	9/98	364	356	<10	16	2 J	5 J	3 J	<1,000	<10	6,300 D	9 J	<10
	7/99			3 J	14	2 J	4 J	<10	<1,000	56	<10	3 J	<10
	3/00			<10	5 J	<10	<10	<10	<1,000 J	<10	600 D	<10	<10
	9/00			<10 J	12 J	<10 J	<10 J	<10 J	<1,000	<10 J	4,500 D	<10	<10 J
	3/01			<10	5 J	<10	<10	<10	<1,000	<10	1,900 D	2 J	<10
	9/01			<10	10	<10	<10	<10	<1,000 J	<10	1,100 D	2 J	<10
	4/02			<15	4 J	<5	<5	<10	<1,000	<5	4,620 D	11	<5
	10/02			<25	4 J	<10	<10	<20	<1,000	<10	50	R	<10
	5/03			<12	<5	<5	<5	<10	<1,000	<5	0.6 J	0.7 J	<5
	10/03			20	2 J	<5	<5	<10	<1,000	<5	<5	<5	<5
	6/04			6 J	1 J	<10	<10	<20	<1,000	<10	1 J	<5	<10
	11/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	1.0	<5.0	<4.0	<5.0	<1,000	<1.0	0.4 J	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0 J	<1.0 J	<5.0 J	<4.0 J	<5.0 J	<1,000 J	<1.0 J	<1.0 J	<1.0 J	<3.0 J
MW-33	9/98	344.1	356.1	<10	<10	<10	<10	<10	<1,000	<10	9 J	6 J	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	120	6 J	<10
	7/99			5 J	2 J	0.7 J	<10	<10	<1,000	<10	150	6 J	<23
	3/00			<10 J	<10	<10	<10	<10	<1,000 J	<10	51	7 J	11
	9/00			45 J	4 J	1 J	<10 J	<10 J	<1,000	<10 J	540 D	23	330 DJ

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-33	3/01			17 J	<20	<20	<20	<20	<1,000	<20	1,300 D	16	370 B
(cont'd)	9/01			21	5 J	<10	<10	<10	<1,000 J	<10	1,900 D	12	<18
	4/02			<18	3 J	<5	<5	<10	<1,000	<5	2,780 D	21	19
	10/02			11 J	4 J	<10	<10	<20	<1,000	<10	290 D	3 J	4 J
	5/03			88	13	<5	<5	<10	<1,000	<5	2,000	35 J	2,800 D
	10/03			22	2 J	<5	<5	<10	<1,000	<5	1,900 D	<6	<5
	6/04			9 J	12 J	<10 J	<10 J	<20 J	<1,000	<10 J	2,700 D	5 J	<10 J
	11/04			--	--	--	--	--	<1,000	--	2,700 D	5 J	--
	6/05			<5.0 J	11	1.0 J	<4.0	<5.0	<1,000	<1.0	1,800	<10	<3.0
	11/05			<5.0 J	16	1.8 J	<4.0	<5.0	<1,000	<1.0	3,500	<25 J	<3.0
	6/06			<5.0 J	6.7 J	0.7 J	<4.0 J	<5.0 J	<1,000 J	<1.0 J	370 D	3.5 J	<3.0 J
MW-34	9/98	362.7	354.7	<10	<10	<10	<10	<10	<1,000	<10	83	<10	<10
	7/99			2 J	0.9 J	1 J	<10	<10	<1,000	<10	380 D	2 J	<10
	3/00			<10 J	1 J	2 J	<10	<10	<1,000 J	<10	200 D	3 J	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	320 D	4 J	<10 J
	3/01			<10	<10	2 J	<10	2 J	<1,000	<10	700 D	5 J	<10
	9/01			7 J	2 J	2 J	<10	2 J	<1,000 J	<10	76	3 J	<10
	4/02			<32	<5	<5	<5	<10	<1,000	<5	640 D	16	<5
	10/02			37 J	<10	<10	<10	<20	<1,000	<10	380 DJ	2 J	<10
	5/03			16	<5	<5	<5	<10	<1,000	<5	140	3 J	<5
	10/03			9 J	<5	<5	<5	<10	<1,000	<5	18	<5	<5
	6/04			24 J	<10	<10	<10	<20	<1,000	<10	30	<5	<10
	11/04			<25	<10	<10	<10	<20	180 J	<10	14	<5	<10
	6/05			5.6 J	0.7 J	0.9 J	<4.0	1.2 J	<1,000	0.4 J	16	2.5	<3.0
	11/05			20 J	<0.3	0.9	<0.5	1.1	<1,000	<0.4	12	2 J	<0.5
	6/06			6.4	0.6 J	0.5 J	<4.0	<5.0	<1,000	<1.0	16	2.3	<3.0
MW-35	9/98	363	355	<10	<10	<10	<10	<10	<1,000	<10	6 J	5 J	<10
	7/99			<10	0.7 J	<10	<10	<10	<1,000	<10	3 J	4 J	<10
	3/00			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10	2 J	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	<10	3 J	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	<10	<10	<10	<10	<1,000 J	<10	<10	2 J	<10
	4/02			<13	<5	<5	<5	<10	<1,000	<5	3 J	4 J	<5
	10/02			<25	<10	<10	<10	<20	<1,000	<10	2 J	R	<10
	5/03			<12	<5	<5	<5	<10	<1,000	<5	1,000	<100	<5
	10/03			5 J	<5	<5	<5	<10	<1,000	<5	4 J	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	30	4 J	<10
	11/04			<25	<10	<10	<10	<20	240 J	<10	82	<5	<10
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	0.4 J	<1.0	<3.0

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-36	9/98	363.6	355.6	<10	<10	<10	<10	<10	<1,000	<10	290 D	6 J	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	860 D	4 J	<10
	7/99			8 J	0.8 J	<10	<10	<10	<1,000	<10	250	<10	<10
	3/00			<10 J	<10	<10	<10	<10	<1,000 J	<10	60	7 J	<10
	9/00			5 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	38 J	6 J	<5
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			54	<10	<10	<10	<10	<1,000 J	<10	350 D	5 J	<10
	4/02			<20	<5	<5	<5	<10	<1,000	<5	9	41	<5
	10/02			12 J	<10	<10	<10	<20	<1,000	<10	2 J	2 J	<10
	5/03			9 J	<5	<5	<5	<10	<1,000	<5	67	4 J	<5
	10/03			580 D	<5	<5	<5	<10	<1,000	<5	100	<5	<5
	6/04			22 J	<10 J	<10 J	<10 J	<20 J	<1,000	<10 J	33	7	<10 J
	11/04			13 J	<10	<10	<10	<20	<1,000	<10	22	<5	<10
	6/05			24 J	2.1	<5.0	<4.0	1.0 J	<1,000	<1.0	1200 D	<5.4	<3.0
	11/05			77 J	3.6	2.0 J	0.6 J	2.8 J	<1,000	<1.0	1600 D	<10 J	<3.0
	6/06			25	1.6	0.7 J	<4.0	1.2 J	<1,000	<1.0	78	1.9	<3.0
TW-01	12/96	365.1	355.4	<10	82	4 J	6 J	4 J	<1,000	<10	2,000 D	13	4 J
	9/98			<10	15	<10	4 J	<10	<1,000	<10	4,400 DEJ	4 J	<10
	2/99			<10	24	2 J	2 J	2 J	<1,000	<10	9,000 D	5 J	<10
	7/99			<10	16	1 J	3 J	<10	<1,000	<10	4,400 D	4 J	<10
	3/00			<10	16	<10	<10	<10	<1,000 J	<10	280 D	3 J	<10
	9/00			<10 J	11 J	<10 J	<10 J	<10 J	<1,000	<10 J	15	2 J	<10 J
	3/01			<10	5 J	<10	<10	<10	<1,000	<10	<10	3 J	<10
	9/01			<10	10	<10	<10	<10	<1,000 J	<10	<10	2 J	<10
	4/02			<14	3 J	<5	<5	<10	<1,000	<5	8	13	<5
	10/02			<25	7 J	<10	<10	<20	<1,000	<10	<5	R	<10
	5/03			<12	7	<5	<5	<10	<1,000	<5	<5	1 J	<5
	10/03			<12	6	<5	<5	<10	<1,000	<5	0.6 J	<5	<5
	6/04			6 J	3 J	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			<25	2 J	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	1.8	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<1.3 J	1.9	<0.4	<0.5	<0.4	<1,000	<0.4	<1.0	<1.0 J	<0.5
	6/06			<5.0 J	1 J	<5.0 J	<4.0 J	<5.0 J	<1,000 J	<1.0 J	<1.0 J	0.8 J	<3.0 J
TW-02[C]	12/96	363.3	353.3	55	10	77	16	65	<1,000	585 D	15,900 JD	3,920 D	42,449 D
(Replaced by TW-02R)[E]	9/98			<500 J	<500 J	<500 J	<500 J	53,000	5,000	300 J	38,000 D	61,000 D	86,000 D
	2/99			<1,000	<1,000	190 J	<1,000	150 J	14,000JN	<1,000	83,000 D	7,900	14,000 B
	7/99			630	37	240 J	31	150	<1,000	55	100,000 D	3,500 J	9,700 D
	3/00			<1,000 J	<1,000	160 J	<1,000	240 J	<1,000 J	<1,000	64,000 D	3,900	13,000
	9/00			190 J	28 J	95 J	35 J	160 J	<1,000	6 J	79,000	<10,000	390 J
	3/01			81	19	68	28	130	<1,000	<10	67,000 D	650 J	400 D
	9/01			57	25	70	31	140	<1,000 J	<20	63,000 D	32	48 B

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
TW-02	4/02			240	19	65	23	96	<1,000	<5	1,090,000 D	<5,300	14
(cont'd)	10/02			110 J	15	19	23	65	<1,000	<10	80,000 D	10 J	<10
	5/03			240	30	130	49	226	<1,000	<5	160,000 D	230	97
	10/03			68	28	75 J	<5	<10	<1,000	2 J	92,000 D	<260	91
	6/04			140 J	19 J	39 J	31 J	111 J	<1,000	<10 J	82,000	<5,200	4 J
TW-02RR	11/04	363.3	353.3	18 J	4 J	8 J	4 J	16 J	<1,000	<10	7,100 D	<5	<10
	6/05			7.2 J	3.6	2.1 J	3.6 J	9.6	<1,000	0.3 J	8,400	<50	<3.0
	11/05			26 J	6	4.1	3.6	11	<1,000	<0.4	14,000	<110 J	<0.5
	6/06			16	4.4	1.3 J	2.7 J	6.7	<1,000	<1.0	10,000	<100	<3.0
PZ-4D	11/89	350.8	345.9	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	0.8 J	<5
	10/95			NA	<5	<5	<5	<5	NA	<5	<5	<10	<5
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<6	<12	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10 J
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	6/06			<5.0	<1.0	0.5 J	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
PZ-4S	11/89	362.79	357.88	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<18
	10/95			NA	<5	<5	<5	<5	NA	<5	NA	NA	<5
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	6/99			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10 J	<10 J	<10 J
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	3 J	<10
	4/02			<14	<5	<5	<5	<10	<1,000	<5	8 (<5)[F]	<5 (<5)[F]	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
PZ-4S	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
(cont'd.)	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	6/06			<5.0	<1.0	0.6 J	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
PZ-5D	11/89	353.5	348.6	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	12/94			<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<12
	7/99			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	<10	<10	<10 J
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	46	<5	<5
	6/04 [J]			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	0.7 J	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
PZ-5S	11/89	361.42	356.52	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
	12/94			<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			5 J	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<12
	6/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10 J	<10 J	<10 J
	7/99			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10	<10	<10 J
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	9/01			7 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1	<3.0
PZ-5S	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
PZ-8S[I]	9/98	362.6	357.7	<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
PZ-11D[D]	11/89	352.09	347.19	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-11S[D]	11/89	359.09	354.19	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-12D[D]	11/89	350	345.1	<100	<1	<1	<1	<1	<1,000	<1	<53	<53	<1
	11/90			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<1	3	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
PZ-12S[D]	11/89	360	355.1	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	6	<1	<10	<10	5
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
PZ-13D[C]	11/89	349.4	344.4	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-13S[C]	11/89	359.5	354.5	<100	<1	2	<1	2	<1,000	<1	<11	<11	<1

See notes on page 15

Table 1. Summary of Historical Groundwater Monitoring Data, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

General Notes:

1. Concentrations are presented in micrograms per liter, which is equivalent to parts per billion.
2. Compounds detected are indicated by bold-faced type.
3. Detections exceeding New York State Department of Environmental Conservation (NYSDEC) Groundwater Standards (Part 700) are indicated by shading.
4. Replacement wells for MW-6, MW-8, MW-9, MW-10, MW-11 and MW-12D were installed 8/95.
5. Replacement wells for MW-17, MW-24S, MW-24D and TW-02 were installed 11/97 - 12/97.
6. The laboratory analytical results for the duplicate sample collected from monitoring well MW-23S during the 7/99 sampling event indicated the presence of methanol at 5.1 milligrams per liter. Because methanol was not detected in the original sample, the duplicate results were determined, based on the results of the data validation process, to be unacceptable. Furthermore, methanol has not been previously detected in groundwater samples collected from this monitoring well. Accordingly, the detection of methanol appears to be the result of a laboratory error and not representative of actual groundwater quality in the vicinity of monitoring well MW-23S.
7. N,N-dimethylaniline data for 10/02 sampling event for MW-1, MW-3S, MW-28, MW-29, MW-32, MW-35 and TW-01 were rejected due to matrix spike and matrix spike duplicate recoveries below control limits. Aniline and N,N-dimethylaniline data for 10/02 sampling event for MW-30 were rejected due to matrix spike and matrix spike duplicate recoveries below control limits. These wells and piezometers are not perimeter monitoring locations and were not resampled.
8. Aniline and N,N-dimethylaniline results of nondetect for the 6/04 sampling event at MW-18 were rejected due to the deviation from a surrogate recovery that was below 10%. This well was not resampled.
9. Volatile organic compound (VOC) results for the 11/04 sampling event were inadvertently lost due to laboratory equipment failure for monitoring locations MW-1, MW-17R, MW-18, MW-23I, MW-23S, MW-24DR, MW-24SR, MW-25, MW-33, PZ-5D and PZ-5S. In addition, the initial VOC results were also irretrievable due to laboratory equipment failure for monitoring locations MW-27, MW-28, MW-29 and MW-30; however, results for subsequent dilutions of these groundwater samples were valid, but the detection limits were high. The duplicate sample VOC results for MW-27 and MW-28 have lower detection limits and are presented in parentheses. These wells were not resampled.

Superscript Notes:

[A] = Data presented is total xylenes (m- and p-xylenes and o-xylenes). For the 1995 data, the listed quantitation limit applies to the analyses conducted for m- and p-xylenes and o-xylenes.

[B] = Because aniline was detected at monitoring well MW-3S at a concentration of 690 ug/l during the September 2001 sampling event, this well was resampled for aniline on November 8, 2001. Aniline was detected in MW-3S during the November 8, 2001 resampling event at a concentration of 69 ug/l.

[C] = Wells/piezometers MW-5, MW-14D, MW-16D, MW-17, MW-20, MW-21, MW-24S, MW-24D, TW-02, PZ-13S, and PZ-13D were abandoned 11/97 - 1/98.

[D] = Wells/piezometers MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12D, PZ-11D, PZ-11S, PZ-12D, and PZ-12S were abandoned during OU No.1 soil remediation activities (1994)

[E] = Wells MW-8S, MW-8D, and TW-02R were abandoned in 8/04 and replacement wells MW-8SR and TW-02RR were installed in 8/04.

[F] = MW-17R, MW-18, and PZ-4S wells/piezometers were resampled for aniline and N,N-dimethylaniline on June 18, 2002 because N,N-dimethylaniline and/or aniline was detected during the April 2002 sampling event. The results of this additional sampling event are shown in parenthesis. MW-24SR and MW-24DR were also sampled for aniline and N,N-dimethylaniline on June 18, 2002, because N,N-dimethylaniline and/or aniline was detected at nearby perimeter monitoring locations during the April 2002 sampling event.

[G] = MW-17R, MW-18, MW-19, MW-23S, MW-23I, MW-24DR, MW-24SR, MW-25S, PZ-4S, PZ-5S and PZ-5D wells/peizometers were resampled for aniline and N,N-dimethylaniline during 1/03, because the 10/02 results were rejected due to matrix spike and matrix spike duplicate recoveries below control limits. These wells and piezometers are perimeter monitoring locations.

[H] = MW-18, MW-19, MW-23I, MW-23S, MW24DR, MW-24SR, MW-28, PZ-5S and PZ-5D wells/piezometers were resampled for aniline during 12/98, because the 9/98 results were rejected due to laboratory error.

[I] = Piezometer PZ-8S was decommissioned 8/00.

[J] = MW-24SR and PZ-5D well and piezometer were sampled during the June 2004 sampling event because N,N-dimethylaniline and/or aniline was detected at nearby perimeter monitoring locations during the October 2003 sampling event.

Abbreviations:

AMSL = Above mean sea level (NGVD of 1929).
NA = Not available.
ND = Not detected.
NS = Not samplad.

Analytical Qualifiers:

D = Indicates the presence of a compound in a secondary dilution analysis.
J = The compound was positively identified; however, the numerical value is an estimated concentration only.
E = The compound was quantitated above the calibration range.
JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
B = The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
< = Compound was not detected at the listed quantitation limit.
U = Undetected.
R = The sample results were rejected.
– = Sample results are not available. (See Note 9.)

Table 2. Summary of Historical Groundwater Level Measurements, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Location	Reference Elevation (feet AMSL)	6/10/98 Static	6/22/98	7/6/98	7/20/98 Week 1	7/27/98 Week 2	8/5/98 Week 3	8/10/98 (morning) Week 4	8/10/98 (afternoon) Week 4	8/11/98 (morning) Week 4	8/11/98 (afternoon) Week 4	8/12/98 (morning) Week 4	8/12/98 (afternoon) Week 4	10/16/98 Week 13	11/17/98 Week 18
Canal	393.39*	362.91	363.37	363.72	363.08	363.08	362.94		362.78	362.94			362.84	363.27	
Collection Sump	372.81	364.33	363.08	363.68	362.50	361.31	361.83	361.89	362.14	361.00	361.71	361.95	362.31	362.01	361.48
MW-3S	376.54	365.93	366.26	367.82	366.20			365.29							365.25
MW-3D	375.56	365.63	365.87	366.16			364.97	364.85						365.08	365.00
MW-6D	377.07	365.75	366.01	366.29										365.25	365.15
MW-8D	374.68	365.51	365.74	366.05			364.80		364.67	364.79	364.88	364.87	364.87	364.93	364.83
MW-9D	376.76**	365.78					365.14	365.10						365.25	365.16
MW-11D	373.68	365.46	365.67	365.29			364.62	364.49	364.50	364.62		364.69	364.67	364.77	364.68
MW-11S	373.50	364.88	364.62	365.11	364.12	363.70	363.58	363.52	363.58	363.73		363.69	363.74	363.74	363.69
MW-18	372.57	362.64													361.90
MW-19	376.00	362.42													361.78
MW-23I	372.77	365.04	365.34	365.72			364.34		364.45	364.16			364.43	364.43	364.34
MW-23S	372.61	363.99	363.43	364.04	362.92	362.50	362.41		362.40	362.66		362.54	362.67	362.68	362.56
MW-24DR	375.14	365.41													364.63
MW-24SR	375.55	365.15	365.32	365.66	364.91	364.45	364.27		364.20				364.36	364.47	364.37
MW-25D	373.67	365.43													364.74
MW-25S	373.39	363.91	363.64	364.14	363.21	362.95	362.75		362.75			362.89	362.96	363.01	362.89
PZ-4D	376.11	365.46	365.73	366.01	365.21	364.83	364.63		364.54	364.67	364.75	364.74	364.70	364.80	364.69
PZ-5D	375.58	365.66	365.91	366.18	365.36	365.07	364.84		364.76	364.88	364.94	364.93	364.91	364.99	364.89
PZ-8D	375.83	365.90	366.11	366.35			365.25	365.13	365.83					365.35	365.27
PZ-9D	377.29	365.73					365.47	365.28						365.12	365.03
PZ-A	373.94	364.49	363.69	364.28	363.13	362.58	362.56	362.62	362.76	363.39	362.82	362.64	363.02	362.75	362.56
PZ-B	373.92	364.49	363.60	364.21	363.02	362.62	362.50	363.26	362.71	363.00	362.97	362.59	363.01	362.67	362.54
PZ-C	374.85	365.69	366.29	367.02	365.93	365.97	365.47	365.38	365.30	365.54	365.99	365.53	365.54	365.56	365.52
PZ-D	375.12	365.78	366.25	366.99	365.99	365.91	365.53	365.37	365.30	365.53	366.06	365.58	365.67	365.59	365.55
PZ-E	374.12	364.75	364.25	364.86	363.73	364.00	363.41	363.61	363.54	364.22	364.67	364.67	364.08	363.57	363.67
PZ-F	377.06	366.17					365.56	365.50						365.37	365.27
PZ-G	377.16	366.21					365.66	365.60						365.46	365.36
PZ-HR	376.99	366.16					365.54							365.44	365.34
PZ-I	375.15	366.56					365.86	365.64						365.88	365.57
PZ-J	374.89	366.15					365.53	365.40						365.53	365.39
PZ-K	373.19	364.53	363.78	364.35	363.27	362.69	362.69	362.71	362.75	362.92	362.80	362.78	362.98	362.82	362.66
PZ-L	374.62	364.25	363.59	364.18	363.04	362.42	362.48	362.44		362.88	362.63	362.57	362.84	362.65	362.40
PZ-M	374.35	364.70	364.09	364.64	363.52	362.96	362.96	362.96	363.09	363.29	363.15	363.05	363.30	363.12	362.93
PZ-N	376.94***	365.79	366.37	367.06	365.99	365.91	365.53	365.39	365.33	365.55	365.97	365.58	365.59	365.59	365.55
PZ-O	375.36	364.29	363.68	364.29	363.21	362.84	362.72	362.87	362.78	363.05	362.97	362.80	363.03	362.81	362.74
PZ-P	376.89	366.25					365.65	365.60						365.52	365.39
PZ-Q	377.61	366.23					365.64	365.57						365.45	365.35
PZ-R	377.05	366.23		366.94			365.65	365.57						365.50	365.38
PZ-S	378.13	366.19					365.57	365.52						365.43	365.35
PZ-T	376.25	366.14					365.54	365.43						365.52	365.38
PZ-U	375.35	365.99		366.81			365.50	365.33						365.37	365.30
PZ-V	375.78	366.07					365.48	365.35						365.43	365.29
PZ-W	375.78	366.07					365.46	365.31						365.41	365.28

See notes on page 4.

Table 2. Summary of Historical Groundwater Level Measurements, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Location	Reference Elevation (feet AMSL)	12/16/98 Week 22	12/22/98 Week 23	1/6/99 Week 25	1/13/99 Week 26	4/14/99 Week 39	6/3/99 Week 46	7/13/99 Week 52	3/27/00	6/1/00	9/18/00	11/14/00	3/19/01	9/24/01	4/15/02
Canal	393.39*	363.14	362.21	363.11			363.22	362.78	363.73	363.75	362.75^	363.24	363.01	362.96	364.59
Collection Sump	372.81	361.75	363.09	361.93	361.73	363.17	362.45	361.87	362.99	361.48	361.69	361.66	361.59	362.04	362.27
MW-3S	376.54	365.67	366.81	365.67	365.25		365.26		357.10						367.70
MW-3D	375.56	365.04		365.04	364.91	365.41	364.92	364.57	355.64	365.57	364.81	355.16	365.40	364.54	364.16
MW-6D	377.07	365.23	365.36	365.23	365.06	365.62	365.12	364.79	365.85	365.77	364.97	365.34	365.64	364.75	364.22
MW-8D	374.68	364.86		364.88	364.74	365.22	364.77	364.35	365.42	365.36	364.62	364.94	365.18	364.34	364.13
MW-9D	376.76**	365.22	365.36	365.26	365.08	365.65	365.17	364.83	365.88	365.80	365.01	365.36	365.68	364.76	364.05
MW-11D	373.68	364.73		364.73	364.57	365.02	364.60	364.18	365.24	365.18	364.46	364.81	364.96	364.18	364.07
MW-11S	373.50	363.69	364.27	363.79	363.61	364.50	363.88	363.39	364.72	364.35	363.55	363.86	364.48	363.33	363.57
MW-18	372.57	361.93	362.05	362.05	361.84	362.18	361.79	361.38	362.43	361.77	361.71	362.08	362.17	361.50	361.65
MW-19	376.00	361.84	361.98	361.87	361.89	362.15	361.80	361.46	362.58	361.88	361.90	362.25	362.44	361.82	361.83
MW-23I	372.77	364.36		364.47	364.26	364.69	364.28	363.83	364.99	364.93	364.25	364.58	364.73	363.99	363.99
MW-23S	372.61	362.52	363.35	362.66	362.46	363.64	362.94	362.42	363.85	363.17	362.64	362.87	363.59	362.36	363.97
MW-24DR	375.14	364.67	364.81	364.69	364.54	364.96	364.49	364.09	365.19	364.60	364.39	364.77	364.91	364.16	364.06
MW-24SR	375.55	364.44	364.66	364.50	364.33	364.87	364.41	363.95	365.12	365.55	364.30	364.60	364.86	364.05	364.00
MW-25D	373.67	364.76		364.77	364.64	365.07	364.64	364.20	365.28	365.20	364.51	364.84	364.97	364.22	364.19
MW-25S	373.39	362.87	363.48	362.96	362.79	363.89	363.20	364.75	364.12	363.69	362.94	363.23	364.14	362.61	364.39
PZ-4D	376.11	364.73	364.87	364.72	364.55	365.02	364.60	364.22	365.28	365.21	364.49	364.82	365.03	364.22	364.06
PZ-5D	375.58	364.93	365.09	364.94	364.78	365.28	364.86	364.47	365.57	365.48	364.71	365.10	365.36	364.46	364.12
PZ-8D	375.83	365.33	365.48	365.33	365.19	365.78	365.08	365.00							
PZ-9D	377.29	365.08	365.24		364.94	365.50	365.04	364.68	365.70	365.72	364.87	365.16	365.55	364.60	363.75
PZ-A	373.94	362.60	364.04	362.72	362.56	363.81	363.12	362.61	363.95	363.15	362.75	362.91	363.56	362.58	363.92
PZ-B	373.92	362.51	364.27	362.62	363.45	363.91	363.19	362.67	364.08	363.32	362.79	362.94	363.94	362.55	364.44
PZ-C	374.85	365.52	365.97	365.18	365.02	365.79	365.10	364.75	366.04	366.04	365.03	365.35	366.39	364.54	365.68
PZ-D	375.12	365.53	366.06	365.25	365.12	365.79	365.18	364.89	366.09	366.10	365.10	365.46	366.36	364.65	365.58
PZ-E	374.12	363.53	366.41	363.57	363.52	364.93	364.20	363.81	365.16	365.03	363.92	364.40	365.90	363.49	366.51
PZ-F	377.06	365.52	365.73	365.62	365.27	366.36	365.53	365.11	366.89	366.72	365.27	365.70	367.06	364.93	365.50
PZ-G	377.16	365.60	365.76	365.71	365.44	366.44	365.61	365.17	366.89	366.80	365.36	365.75	367.11	364.93	365.39
PZ-HR	376.99	365.54	365.84	365.60	365.39	366.34	365.55	365.11	366.80	366.68	365.33	365.66	367.02	364.91	365.39
PZ-I	375.15	365.90	366.59	366.05	365.76	366.93	365.79	365.23	367.30	367.23	365.55	366.08	367.81	364.91	366.29
PZ-J	374.89	365.55	365.93	365.59	365.47	366.21	365.53	365.14	366.55	366.50	365.32	365.64	366.69	364.96	365.10
PZ-K	373.19	362.66	363.70	362.78	362.58	363.87	363.13	362.59	363.97	363.19	362.69	362.86	363.53	362.49	363.82
PZ-L	374.62	362.51	363.59	362.65	362.45	363.69	363.00	362.47	363.84	363.03	362.61	362.68	363.42	362.47	363.44
PZ-M	374.35	363.01	364.07	363.13	362.94	364.06	363.40	362.90	364.22	363.54	363.05	363.24	363.86	362.90	363.93
PZ-N	376.94***	365.56	366.09	365.31	365.12	365.87	365.19	364.87	366.17	366.12	NM	365.35	366.43	364.47	366.60
PZ-O	375.36	362.75	363.74	362.87	362.68	364.01	363.25	362.73	364.22	363.57	362.86	363.06	364.22	362.64	364.47
PZ-P	376.89	365.61	365.78	365.73	365.44	366.43	365.59	365.18	366.85	366.73	365.34	365.77	367.02	364.93	365.31
PZ-Q	377.61	365.59	365.70	365.71	365.42	366.44	365.60	365.16	366.93	366.78	365.26	365.76	367.21	364.89	366.11
PZ-R	377.05	365.61	365.81	365.67	365.47	366.46	365.61	365.20	366.89	366.81	365.37	365.72	367.21	364.93	365.40
PZ-S	378.13	365.57	365.94	365.65	365.40	366.39	365.56	365.15	366.84	366.73	365.32	365.71	367.12	364.90	365.27
PZ-T	376.25	365.58	365.96	365.64	365.47	366.34	365.53	365.10	366.71	366.65	365.29	375.70	366.90	364.90	365.34
PZ-U	375.35	365.49	365.91	365.55	365.40	366.17	365.46	365.08	366.55	366.49	365.22	365.60	366.75	364.85	365.18
PZ-V	375.78	365.47	365.90	365.52	365.37	366.20	365.44	365.06	366.54	366.50	365.25	365.58	366.76	364.83	365.30
PZ-W	375.78	365.44	365.78	365.53	365.33	366.15	365.41	365.02	366.49	366.41	365.20	365.59	366.63	364.85	365.05

See notes on page 4.

Table 2. Summary of Historical Groundwater Level Measurements, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Location	Reference Elevation (feet AMSL)	6/3/02	6/18/02	10/7/02	1/20/03	5/5/03	10/27/03	6/14/04	11/1/04	6/6/05	10/31/05	6/5/06
Canal	393.39*	363.64	364.17	362.19	^^	363.34	363.34	363.39	363.39	364.39^^^	363.84	363.69
Collection Sump	372.81	361.50	361.42	362.05	361.90	361.91	361.86	362.11	362.00	361.49	362.96	361.70
MW-3S	376.54	366.26	367.50	364.26	366.27	366.38	366.98	366.65	365.54	365.82	368.11	368.19
MW-3D	375.56	364.55	365.10	363.92	365.10	365.53	365.05	365.59	365.27	365.36	366.25	366.07
MW-6D	377.07	364.62	365.21	364.07	365.31	365.75	365.24	365.80	365.46	365.59	366.45	366.29
MW-8D	374.68	364.51	365.01	363.82	^^	365.30	364.83	365.39				
MW-9D	376.76**	364.47	365.10	364.00	365.31	365.79	365.26	365.85	365.51	365.64	366.47	366.34
MW-11D	373.68	364.44	364.92	363.73	364.81	365.17	364.75	365.26	364.93	364.00	365.94	365.78
MW-11S	373.50	363.89	364.33	363.09	364.15	364.38	363.89	364.34	363.98	364.12	365.06	365.04
MW-18	372.57	362.09	362.50	361.37	362.26	362.69	362.26	362.62	362.29	362.37	363.17	363.07
MW-19	376.00	362.11	362.57	361.51	362.52	361.91	362.46	362.89	362.59	362.69	363.50	363.38
MW-23I	372.77	364.34	364.80	363.62	364.60	365.01	364.56	364.99	364.67	364.77	365.66	365.47
MW-23S	372.61	363.38	363.68	362.50	362.26	363.31	362.81	363.04	362.77	362.80	364.05	363.80
MW-24DR	375.14	364.43	364.90	363.71	364.75	365.13	364.69	365.19	364.86	364.94	365.90	365.74
MW-24SR	375.55	364.40	364.86	363.64	364.69	365.03	364.62	365.12	364.78	364.88	365.81	365.66
MW-25D	373.67	364.57	365.02	363.82	364.82	365.24	364.74	365.26	364.93	365.00	364.49	365.77
MW-25S	373.39	363.83	364.21	362.74	363.61	363.67	363.19	363.49	363.08	363.14	365.63	364.13
PZ-4D	376.11	364.43	364.94	363.73	364.81	365.23	364.78	365.28	364.96	365.07	365.96	365.85
PZ-5D	375.58	364.47	365.03	363.81	365.05	365.49	365.02	365.53	365.20	365.29	365.19	365.98
PZ-8D	375.83											
PZ-9D	377.29	364.14	364.79	363.71	365.08	365.64	365.09	365.68	365.35	365.48	366.33	366.19
PZ-A	373.94	363.05	363.22	362.59	^^	363.40	363.57	363.18	362.89	362.96	364.20	364.14
PZ-B	373.92	363.24	363.40	362.65	363.39	363.47	363.89	363.21	362.92	362.92	364.32	364.32
PZ-C	374.85	365.38	366.26	364.19	365.65	365.76	365.44	366.07	365.50	365.65	366.65	366.45
PZ-D	375.12	365.41	366.21	364.21	365.65	365.84	365.53	366.11	365.62	365.75	366.75	366.57
PZ-E	374.12	364.63	364.77	363.47	364.94	365.00	366.92	364.58	364.07	364.47	365.25	366.51
PZ-F	377.06	365.51	366.29	364.29	366.25	366.41	365.46	366.65	365.75	366.13	367.59	367.16
PZ-G	377.16	365.53	366.22	364.36	366.35	366.46	365.43	366.68	365.81	366.14	367.76	366.97
PZ-HR	376.99	365.46	366.19	364.24	366.22	366.41	365.50	366.62	365.81	366.12	367.56	367.14
PZ-I	375.15	366.16	367.05	364.22	366.58	366.90	365.97	367.01	365.26	366.41	368.02	367.82
PZ-J	374.89	365.18	365.89	364.21	365.96	366.73	365.61	366.45	365.86	366.07	367.29	367.04
PZ-K	373.19	363.19	363.48	362.56	363.25	363.36	363.12	363.13	362.84	362.97	364.21	364.01
PZ-L	374.62	362.96	363.26	362.53	363.42	363.25	363.06	363.04	362.79	362.91	364.02	363.89
PZ-M	374.35	363.37	363.62	362.82	363.60	363.77	363.66	363.61	363.31	363.45	364.53	364.40
PZ-N	376.94***	365.29	366.13	364.09	365.54	365.74	364.48	365.95	365.47	365.53	366.56	366.41
PZ-O	375.36	363.63	363.98	362.75	363.61	363.53	363.36	363.43	363.04	363.13	364.36	364.26
PZ-P	376.89	365.48	366.19	364.25	366.25	366.45	365.53	366.65	365.87	366.20	367.63	367.19
PZ-Q	377.61	365.70	366.41	364.41	366.40	366.55	365.38	366.77	365.85	366.21	367.80	367.16
PZ-R	377.05	365.58	366.31	364.31	366.34	366.46	365.31	366.72	365.85	366.17	367.73	367.15
PZ-S	378.13	365.53	366.29	364.31	366.29	366.42	365.42	367.18	367.10	366.31	367.83	367.20
PZ-T	376.25	365.37	366.10	364.20	366.16	366.38	365.74	366.54	365.85	366.13	367.48	367.15
PZ-U	375.35	365.23	365.96	364.18	366.00	365.83	365.66	366.43	365.82	366.05	367.33	367.07
PZ-V	375.78	365.24	365.97	364.15	365.98	366.71	365.84	366.44	365.76	365.99	367.33	367.06
PZ-W	375.78	365.12	365.86	364.09	365.88	366.18	365.49	366.36	365.72	365.98	367.21	366.94

See notes on page 4.

Table 2. Summary of Historical Groundwater Level Measurements, 2008 Biannual Process Control Monitoring Report, McKesson Envirosystems Former Bear Street Facility, Syracuse, New York

Notes:

1. Weeks 1, 2, 3, 4, 13, 18, 22, 23, 25, 26, 39, 46 and 52 are weeks after the initial introduction of Revised Anaerobic Mineral Media (RAMM) into the three impacted areas.
2. 8/10, 8/11, and 8/12/98 water level measurements were taken during the initial discrete RAMM injection event.
3. AMSL = above mean sea level (NGVD of 1929)
4. The groundwater level in PZ-8D was not measured on 3/27/00 and 6/1/00 because this piezometer was damaged and subsequently decommissioned on August 30, 2000.
5. ^ = The canal water-level measurement for the third quarter of the first year of the long-term process control monitoring program was obtained on September 29, 2000.
6. * = The reference elevation for canal gauging point was 363.06 feet AMSL prior to 11/16/00. The canal gauging point was re-marked and re-surveyed 11/16/00. The new reference elevation is 393.39 feet AMSL.
7. NM = The groundwater level in PZ-N was not measured on 9/18/00 because this piezometer was damaged. This piezometer was repaired and subsequently resurveyed on 11/16/00. The new reference elevation for PZ-N is 376.94 feet AMSL.
8. 376.76**
9. *** = The reference elevation for PZ-N was 376.02 feet AMSL prior to 11/16/00 and, as noted above, the new reference elevation is 376.94 feet AMSL.
10. ^^ = Due to frigid weather conditions, the groundwater level in PZ-A and MW-8D could not be measured on 1/20/03, because the locks were frozen. The canal water level for the 1/03 resampling event could not be measured due to strong winds and ice on the water surface.
11. Monitoring location MW-8D was decommissioned on August 3, 2004.
12. The canal water level measurement for the 2005 second quarter long-term process control monitoring program was obtained on November 1, 2005.
13. ^^^ = The water level measurement of the canal collected during the first 2005 monitoring was not measured from the correct measuring point. The spring 2005 measurement was taken approximately 3 feet higher than the surveyed measuring point. This value reflects the corrected canal water level for the spring 2005 monitoring event.

MW-35

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Benzene	<10	0.7 J	<10	<10 J	<10	<10	<5	<10	<5
Aniline	6 J	3 J	<10	<10	<10	<10	3 J	2 J	1,000
N,N-dimethylaniline	5 J	4 J	2 J	3 J	<10	2 J	4 J	R	<100
Acetone	<10	<10	<10 J	<10 J	<10	<10	<13	<25	<12

MW-36

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<10	8 J	<10 J	5 J	<10	54	<20	12 J	9 J
Benzene	<10	<10	0.8 J	<10	<10 J	<10	<10	<5	<10	<5
Aniline	290 D	860 D	250	60	8 J	<10	350 D	9	2 J	67
N,N-dimethylaniline	6 J	4 J	<10	7 J	6 J	<10	5 J	41	2 J	4 J
Methylene Chloride	<10	<10	<10	<10	2 J	<10	<10	<5	<10	<5

TW-02R

Date	12/96	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	53	<500 J	<1,000	630	<1,000 J	190 J	81	57	240	110 J	240
Benzene	10	<500 J	<1,000	37	<1,000	28 J	19	25	19	15	30
Toluene	77	<500 J	190 J	240 J	160 J	95 J	68	70	65	19	130
Ethylbenzene	16	<500 J	<1,000	31	<1,000	35 J	28	31	23	23	49
Xylene	85	140 J	150 J	150	240 J	160 J	130	140	96	85	226
Methanol	<1,000	5,000	14,000 JN	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	<1,000	<1,000	<1,000
Trichloroethene	585 D	300 J	<1,000	55	<1,000	6 J	<10	<20	<5	<10	<5
Aniline	15,900 JD	38,000 D	83,000 D	100,000 D	64,000 D	79,000	67,000 D	63,000 D	1,090,000 D	80,000 D	160,000 D
N,N-dimethylaniline	3,920 D	61,000 D	7,900	3,500 J	3,900	<10,000	650 J	32	<5,300	10 J	230
Methylene Chloride	42,449 D	86,000 D	14,000 B	9,700 D	13,000	390 J	400 D	48 B	14	<10	97

MW-34

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	2 J	<10 J	<10 J	<10	7 J	<32	37 J	16
Benzene	<10	0.9 J	1 J	<10 J	<10	2 J	<5	<10	<5
Toluene	<10	1 J	2 J	<10 J	2 J	2 J	<5	<10	<5
Xylene	<10	<10	<10	<10 J	2 J	2 J	<10	<20	<10
Aniline	83	380 D	200 D	320 D	700 D	76	640 D	380 DJ	140
N,N-dimethylaniline	<10	2 J	3 J	4 J	5 J	3 J	15	2 J	3 J

TW-01

Date	12/96	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Benzene	82	15	24	16	16	11 J	5 J	10	3 J	7 J	7
Toluene	4 J	<10	2 J	1 J	<10	<10 J	<10	<10	<5	<10	<5
Ethylbenzene	8 J	4 J	2 J	3 J	<10	<10 J	<10	<10	<5	<10	<5
Xylene	4 J	<10	2 J	<10	<10	<10 J	<10	<10	<10	<20	<10
Aniline	2,090 D	4,400 DEJ	9,000 D	4,400 D	280 D	15	<10	<10	6	<5	<5
N,N-dimethylaniline	13	4 J	5 J	4 J	4 J	2 J	3 J	2 J	13	R	1 J
Methylene Chloride	4 J	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5
Acetone	<10	<10	<10	<10	<10	<10 J	<10	<10	<14	<25	<12

MW-31

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<10	<10	<10 J	21	<10	<14	<25	<12
Benzene	12	16	16	12 J	11	14	9	11	9
Aniline	34	230 D	3 J	10	<10	91 D	804 D	560 D	0.9 J
N,N-dimethylaniline	4 J	3 J	4 J	6 J	5 J	3 J	21	1 J	3 J

MW-9S

Date	1/89	11/89	11/91	8/95	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	1,800	<1,000	<100	<1,000	<10	<10	<10 J	<10	<10	<23	16 J	<12
Benzene	NA	48	<10	11 JD	4 J	2 J	11 J	1 J	10	10	38	11
Toluene	64	25	9	26 JD	2 J	2 J	2 J	3 J	3 J	2 J	40	<5
Ethylbenzene	130	60	19	69 D	9 J	11	6 J	17	7 J	6	2 J	7
Xylene	270	60	30	228 JD	18	21	18 J	61	35	17 J	15 J	18
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	370 J	<1,000	<1,000
Aniline	660	670	85	50	<10	2 J	1 J	2 J	<10	9	<5	0.9 J
N,N-dimethylaniline	1,200	150	18	28	5 J	9 J	6 J	11	10	43	2 J	3 J
Methylene Chloride	1,500	<10	<1	110 D	<10	<10	<10 J	<10	<10	<5	<10	<5

MW-32

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	3 J	<10	<10 J	<10	<10	<15	<25	<12
Benzene	18	14	5 J	12 J	5 J	10	4 J	4 J	<5
Toluene	2 J	2 J	<10	<10 J	<10	<10	<5	<10	<5
Ethylbenzene	5 J	4 J	<10	<10 J	<10	<10	<5	<10	<5
Xylene	3 J	<10	<10	<10 J	<10	<10	<10	<20	<10
Trichloroethene	<10	86	<10	<10 J	<10	<10	<5	<10	<5
Aniline	6,300 D	<10	800 D	4,500 D	1,900 D	1,100 D	4,620 D	50	0.6 J
N,N-dimethylaniline	4 J	3 J	<10	<10	2 J	2 J	11	R	0.7 J

MW-33

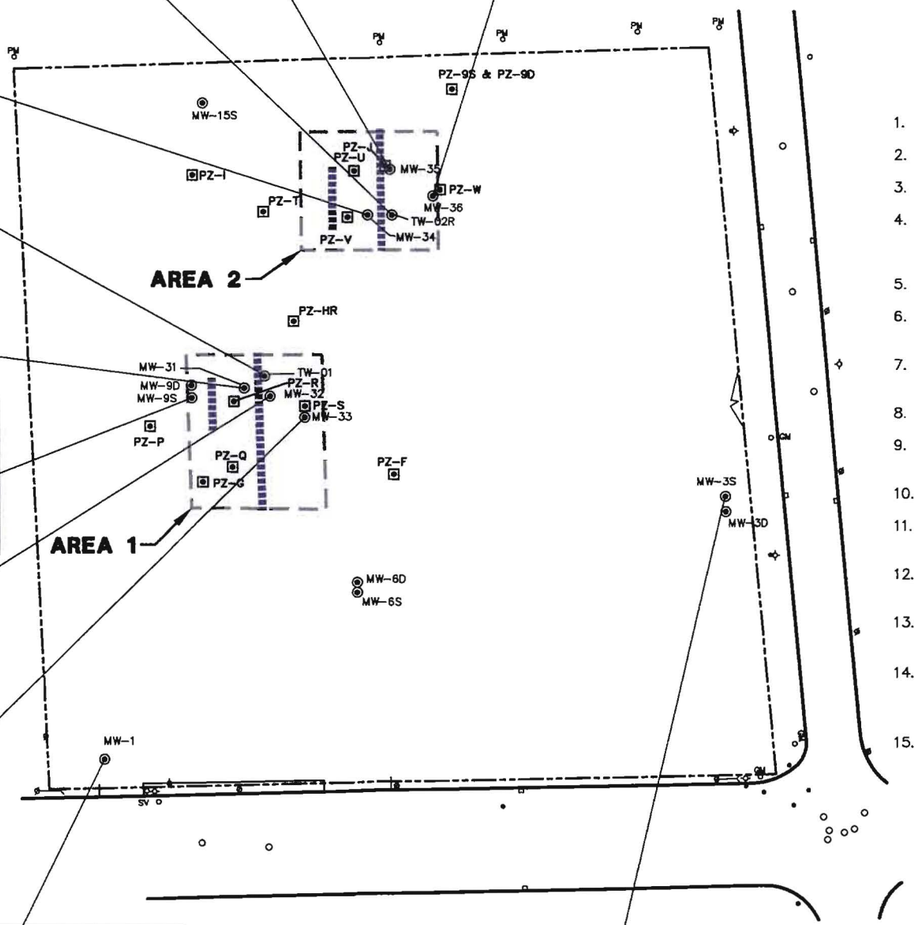
Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<10	5 J	<10 J	45 J	17 J	21	<18	11 J	88
Benzene	<10	<10	2 J	<10	4 J	<20	5 J	3 J	4 J	13
Toluene	<10	<10	0.7 J	<10	1 J	<20	<10	<5	<10	<5
Aniline	9 J	120	150	51	540 D	1,300 D	1,900 D	2,780 D	290 D	2,000
N,N-dimethylaniline	6 J	6 J	6 J	7 J	23	16	12	21	3 J	35 J
Methylene Chloride	<10	<10	5 J	11	330 DJ	370 B	<18	19	4 J	2,800 D

MW-1

Date	3/88	1/89	11/89	11/90	11/91	11/92	8/95	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<100	<100	<100	<100	<100	<100	<1,000	<10	0.7 JN	<10	8 J	<10	<10	<12	<25	<12
Toluene	<1	<1	<1	<1	<1	<1	<5	<10	<10	<10	3 J	<10	<10	<5	<10	<5
Xylene	<1	<1	<1	<3	<3	<3	<5	<10	<10	<10	5 J	<10	<10	<10	<20	<10
Methylene Chloride	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10 J	10	<10	<5	<10	<5
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	990 J	<1,000	<1,000
Aniline	<10	<11	<10	<10	<10	<10	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5

MW-3S

Date	3/88	1/89	11/89	11/91	8/95	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<100	<10,000	<10,000	2,900	<1,000	<10	<10	<10 J	<10 J	<10	<10	<12	<25	<12
Benzene	<1	<100	<100	10	<5	<10	1 J	<10	1 J	<10	3 J	<5	<10	<5
Toluene	<1	120	<100	10	<5	<10	0.7 J	<10	2 J	<10	8 J	<5	<10	<5
Ethylbenzene	<1	<100	<100	4	<5	<10	<10	<10	<10 J	<10	1 J	<5	<10	<5
Xylene	<1	<100	<100	31	<5	<10	<10	<10	<10 J	<10	2 J	<10	<20	<10
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000 J	370 J	<1,000	<1,000
Trichloroethene	50	1,100	100	<10	<5	<10	<10	<10	<10 J	<10	<10	<5	<10	<5
Aniline	<10	<11	<52	790	15	<10	9 J	<10	2 J	<10	890 D (69*)	1.7 J	<5	<5
N,N-dimethylaniline	<10	5,570	440	170	2 J	<10	<10	<10	1 J	<10	4 J	<5	R	<5
Methylene Chloride	110	4,700	2,700	<10	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5



LEGEND:

- UTILITY POLE
- CATCH BASIN
- PM — PETROLEUM PIPE LINE MARKER
- GM — GAS LINE MARKER
- SV — SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-19 — GROUNDWATER MONITORING WELL
- PZ-A — PIEZOMETER
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER INFILTRATION TRENCH

SAMPLE IDENTIFICATION

MW-35

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Benzene	<10	0.7 J	<10	<10 J	<10	<10	<5	<10	<5
Aniline	6 J	3 J	<10	<10	<10	<10	3 J	2 J	1,000
N,N-dimethylaniline	5 J	4 J	2 J	3 J	<10	2 J	4 J	R	<100
Acetone	<10	<10	<10 J	<10 J	<10	<10	<13	<25	<12

CONCENTRATION (ppb)

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY DETECTED COCs ARE PRESENTED ON THIS FIGURE.
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. D = CONCENTRATION IS BASED ON DILUTED SAMPLE ANALYSIS.
9. E = IDENTIFIES COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE INSTRUMENTS.
10. R = THE SAMPLE RESULT WAS REJECTED.
11. B = THE COMPOUND HAS BEEN FOUND IN THE SAMPLE AS WELL AS IN ITS ASSOCIATED BLANK; ITS PRESENCE IN THE SAMPLE MAY BE SUSPECT.
12. N = THIS ANALYSIS INDICATES THE PRESENCE OF A COMPOUND FOR WHICH THERE IS PRESUMPTIVE EVIDENCE TO MAKE AN TENTATIVE IDENTIFICATION.
13. DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.
14. *= MW-3S WAS RESAMPLED ON 11/8/01 DUE TO ANILINE DETECTION DURING 9/2001 SAMPLING EVENT AT A CONCENTRATION OF 690 PPB. ANILINE WAS DETECTED ON 11/8/01 AT A CONCENTRATION OF 69 PPB.
15. THE 10/02 SAMPLING EVENT N,N-DIMETHYLANILINE DATA FOR MW-1, MW-3S, MW-32, MW-35, AND TW-01 WERE REJECTED DUE TO MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES BELOW CONTROL LIMITS. THESE MONITORING WELLS WERE NOT RESAMPLED.

0 100' 200'

GRAPHIC SCALE

McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR 1988 - MAY 2003 AREAS 1 & 2

ARCADIS

FIGURE 1

MW-27

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	23	<10 J	<10 J	<10 J	<10	<10	<18	9 J	<12
Benzene	3 J	4 J	6 J	4 J	5 J	5 J	7	3 J	8
Toluene	4 J	2 J	<10	<10	<10	<10	11	<10	11
Ethylbenzene	<10	3 J	8 J	3 J	5 J	2 J	12	<10	23
Xylene	3 J	8 J	2 J	1 J	2 J	<10	26	<20	51
Aniline	340 DJ	740 D	110 D	16 J	280 D	26	176,000 DJ	2,700 D	15,000 DJ
N,N-dimethylaniline	<10	<10	1 J	2 J	2 J	<10	19 J	100 J	11
Methylene Chloride	<10	<10	<10	1 J	<10	<10	<3	80 JN	43
Trichloroethene	<10	<10	<10	<10 J	<10	<10	<5	4 J	<5

PZ-5S

Date	11/89	12/94	2/96	2/97	9/98	6/99	7/99	9/00	9/01	10/02
Acetone	<100	<10	<1,000	5 J	<10	<10 J	<10 J	<10 J	7 J	<25 J^

PZ-5D

Date	11/89	12/94	2/96	2/97	9/98	7/99	9/00	9/01	10/02
Aniline	<10	<5	<5	<5	<5	<10	<10 J	<10	<5^

MW-19

Date	11/89	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	<10	5 J	<10	<10	<10	<10	<10	<10	<5	<5^	<5
Acetone	<100	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10 J	<10	<10 J	<10	<10	<10	<25 J	<12
Aniline	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5

PZ-4S

Date	11/89	11/90	11/91	11/92	8/95	8/96	8/97	2/99	6/99	3/00	3/01	4/02	10/02	5/03
Aniline	<10	<10	<10	<10	<5	<5	<5	<10	<5	<5	<10	8 (<5)**	<5^	<5
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	3 J	<5 (<5)**	<5^	<5

PZ-4D

Date	11/89	11/90	11/91	11/92	8/95	10/95	8/96	8/97	2/99	3/00	9/00	3/01	4/02	5/03
N,N-dimethylaniline	<10	<10	<10	<10	0.8 J	<10	<10	<12	<10	<10	<10	<10	<5	<5

MW-24DR

Date	12/94	8/95	2/96	2/97	9/98	7/99	9/00	9/01	6/02	10/02
Aniline	<5	<5	<5	<5	<5	<10	<10 J	<10	ND**	<5^

MW-24SR

Date	12/94	8/95	2/96	2/97	9/98	6/99	7/99	3/00	9/01	6/02	10/02
Aniline	<5	<5	<5	<5	<5	<10 J	<10	<10 J	<10	ND**	<5^

MW-17R

Date	11/90	11/91	11/92	8/95	10/95	8/96	8/97	2/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<100	<100	<100	<1,000	NA	11	<10	<10	<10	<10 J	<10	<10	<10	<25 J	<12
Benzene	<1	<1	<1	<5	<5	<10	<10	1 J	8 J	15 J	8 J	5 J	6	14	8
Trichloroethene	<1	<1	<1	<5	2J	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5
Methanol	<1,000	<1,000	<1,000	<1,000	NA	1,000	1,000	1,000	<1,000 J	<1,000 J	<1,000	<1,000	620 J	<1,000	<1,000
Aniline	<10	<10	<10	<5	NA	<5	<5	<10	<5	24 J	<10	<10	150 (<5)**	<5^	<5
N,N-dimethylaniline	<10	<10	<10	<10	NA	<10	<10	<10	<10	4 J	<10	<10	110 (<5)**	<5^	<5
Methylene Chloride	<1	<1	<1	<11	<5	<10	<10	<10 J	<10	1 J	<10	<10	<5	<10	<5

MW-30

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	7 J	<10	<10	<10 J	<10	4 J	<10	<25 J	<62
Benzene	<10	<10	0.7 J	<10	<10 J	<10	2 J	<5	<10	<25
Trichloroethene	<10	<10	0.5 J	<10	<10 J	<10	<10	<5	<10	<25
Aniline	<10	<10	<10	16	9 J	8 J	8 J	250	R	18
N,N-dimethylaniline	<10	2 J	1 J	2 J	2 J	2 J	1 J	210	R	0.6 J
Methylene Chloride	<10	<10	<10	4 J	2 J	<10	<10	<5	<10	8 J

MW-18

Date	11/89	11/90	11/91	11/92	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Methanol	<1,000	<1,000	<1,000	<1,000	<200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000 J	<1,000	<1,000	720 J	<1,000	280 J
Aniline	<10	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	280 D (<5)**	<5^	<5
N,N-Dimethylaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	200 D (<5)**	<5^	<5
Acetone	<100	<100	<100	<100	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10 J	<10	<10 J	<10	<10	<10	8 J	<12

MW-29

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	7 J	<10	<10	<10 J	<10	<10	<10	<25 J	<12
Xylene	2 J	1 J	<10	<10	<10 J	<10	<10	<10	<20	<10
Aniline	<10	5 J	2 J	450 D	24 J	30	7 J	3 J	8	19
N,N-dimethylaniline	13	4 J	4 J	6 J	4 J	4 J	2 J	9	R	1 J
Methylene Chloride	<10	<10	<10	<10	<10 J	<10	<10	<6	4 JN	<3

MW-23S

Date	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	6/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<1,000	<1,000	<10	<10	12	<10	<10	<10 J	<10 J	<10	<10 J	<10	<10	<10	<25 J	<62
Aniline	<5	<5	<5	7	11	92	56	<10	<10 J	<10	<5	<10 J	<10	<10	<5	<5^	<5
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	7 J	10	2 J	<10	2 J	2 J	<10	<10	<5	<5^	<5
Methanol	<200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000 J	<1,000 J	<1,000 J	<1000 J	<1,000	<1,000	<1,000	380 J

MW-23I

Date	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10 J	<10	<10 J	<10	4 J	<10	<25 J	<12
Xylene	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	2 J	<10	<20 J	<5
Methylene Chloride	<5	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	<10 J	<10	<10	2 J	<10	<5
Aniline	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5

MW-25S

Date	8/95	10/95	8/96	8/97	2/99	6/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Aniline	<5	<5	<5	<5	130	110 J	5 J	<5	<10 J	<10	<10	<5	<5^	<5
N,N-dimethylaniline	0.7 J	<10	<10	<10	<10	21 J	<10	<10	<10	<10	<10	<5	<5^	<5

MW-25D

Date	8/95	10/95	8/96	8/97	2/99	3/00	9/00	3/01	4/02	5/03
Acetone	<1,000	NA	15	<10	<10	<10	<10	<10	<10	<12
Trichloroethene	<5	3 J	<10	<10	<10	<10	<10	<10	<5	<5
N,N-dimethylaniline	1 J	<10	<10	<11	<10	<10	<10	<10	<5	<5
Aniline	<5	<5	<5	<5	<5	<10	<5	5 J	<5	<5

MW-8S

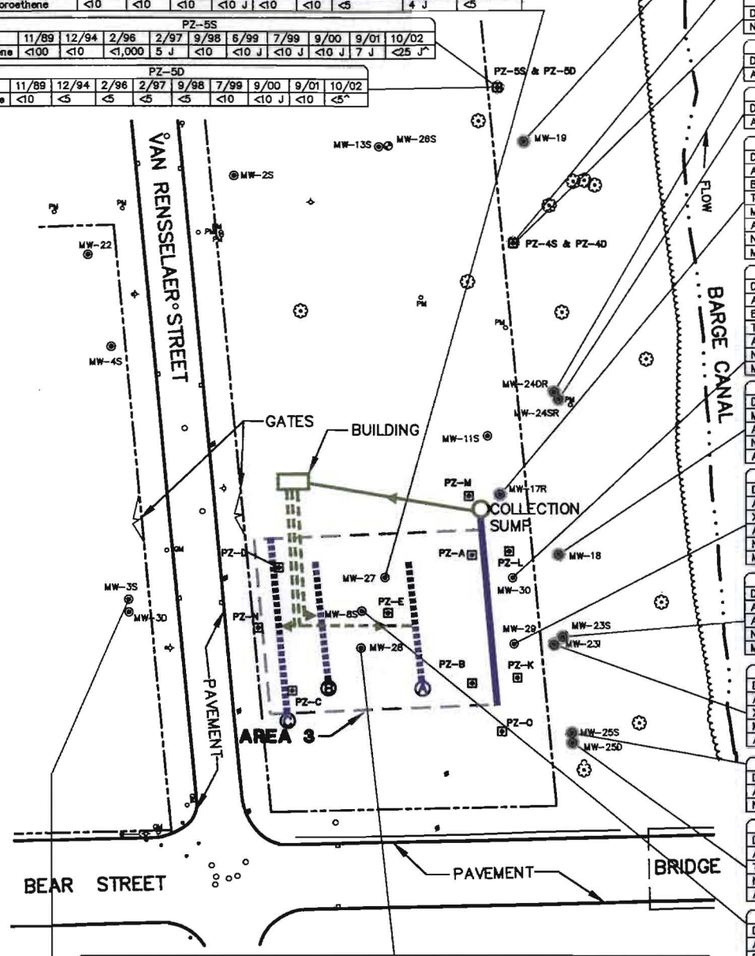
Date	1/89	11/89	11/91	8/95	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<1,000,000	470,000	<1,000,000	<1,000	<10,000 J	<20,000	10 J	<100,000	<50,000 J	<50,000	<400	2,100	120 J	<12
Benzene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000	22 J	<100,000	<50,000 J	<50,000	<400	50 J	23	20 J
Toluene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000	240 J	<100,000	<50,000 J	<50,000	430	410	310	800 D
Ethylbenzene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000	56 J	<100,000	<50,000 J	<50,000	170 J	100 J	73	81
Xylene	<10,000	<10,000	<30,000	<250,000 D	<10,000	<20,000	220 J	<100,000	<50,000 J	<50,000	880	400	267	300
Methanol	430,000	300,000	150,000	22,000	7,900	16,000 JN	17,000	30,000 J	14,000 J	53,000	8,900 J	<1,000	<1,000	<1,000
Trichloroethene	<10,000	<10,000	<10,000	60,000 JD	3,300 J	11,000 J	11,000 J	<100,000	9,200 J	11,000 J	18,000 JD	9,800 J	3,100	6,700 D
Aniline	2,900	8,500	8,000	<25,000 D	1,200 J	30,000 D	24,000	62,000	42,000 J	90,000 D	21,000	793,000 D	80,000	79,000 D
N,N-dimethylaniline	24,000	52,000	33,000	380,000 D	26,000 D	120,000 D	77,000	270,000 D	59,000	120,000 D	29,000	773,000 D	21,000 J	29 J
Methylene Chloride	3,200,000	2,800,000	1,600,000	7,700,000 D	140,000	650,000 DB	450,000 D	1,300,000	540,000 BJ	990,000	440,000 BD	680,000 D	320,000	910,000 D

MW-28

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Benzene	<5,000	<500	<10,000	<1,000 J	<400	<400	8	8 J	4 J
Toluene	<5,000	<500	<10,000	<1,000 J	<400	<400	6	6 J	2 J
Ethylbenzene	<5,000	<500	<10,000	<1,000 J	<400	<400	9	11	2 J
Xylene	<5,000	<500	<10,000	<1,000 J	<400	<400	10 J	12 J	8 J
Methanol	2,200	<1,000	<1,000 J	<1,000 J	<1,000	<1,000 J	<1,000	<1,000	<1,000
Aniline	548 D	1,100 D	1,300 D	540 DJ	3,200 D	1,000 D	33,400 D	2,700 D	1,000 DJ
N,N-dimethylaniline	54	40	30	<10	7 J	<10	57	R	3 J
Methylene Chloride	84,000 J	39,000 D	130,000 J	8,100 BJ	5,900 B	4,700 B	4,800 D	<10	52
Acetone	<5,000 J	<500 J	<10,000	<1,000 J	<400	<400	<49	14 J	13

MW-3S

Date	3/88	1/89	11/89	11/91	8/95	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<100	<10,000	<10,000	2,900	<1,000	<10	<10	<10 J	<10 J	<10	<10	<12	<25	<12
Benzene	<1	<100	<100	10	<5	<10	1 J	<10	1 J	<10	3 J	<5	<10	<5
Toluene	<1	120	<100	10	<5	<10	0.7 J	<10	2 J	<10	8 J	<5	<10	<5
Ethylbenzene	<1	<100	<100	4	<5	<10	<10	<10	<10 J	<10	1 J	<5	<10	<5
Xylene	<1	<100	<100	31	<5	<10	<10	<10	<10 J	<10	2 J	<10	<20	<10
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	370 J	<1,000	<1,000
Trichloroethene	80	1,100	100	<10	<5	<10	<10	<10	<10 J	<10	<10	<5	<10	<5
Aniline	<10	<11	<52	790	15	<10	9 J	<10	2 J	<10	590 D (69*)	1.7 J	<5	<5
N,N-dimethylaniline	<10	5,570	440	120	2 J	<10	<10	<10	1 J	<10	4 J	<5	R	<5
Methylene Chloride	110	4,700	2,700	<10	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5



LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER
- GAS LINE MARKER
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- MW-26S PUMPING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH
- PIPING TO BUILDING
- PIPING FROM BUILDING

MW-25

Date	8/95	10/95
Acetone	<1,000	NA
Trichloroethene	<5	3 J
N,N-dimethylaniline	1 J	<10
Aniline	<5	<5

SAMPLE IDENTIFICATION

CONCENTRATION (ppb)

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY DETECTED COCs ARE PRESENTED ON THIS FIGURE.
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. D = CONCENTRATION IS BASED ON DILUTED SAMPLE ANALYSIS.
9. E = IDENTIFIES COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE INSTRUMENTS.
10. B = THE COMPOUND HAS BEEN FOUND IN THE SAMPLE AS WELL AS IN ITS ASSOCIATED BLANK; ITS PRESENCE IN THE SAMPLE MAY BE SUSPECT.
11. N = THIS ANALYSIS INDICATES THE PRESENCE OF A COMPOUND FOR WHICH THERE IS PRESUMPTIVE EVIDENCE TO MAKE AN TENTATIVE IDENTIFICATION.
12. R = THE SAMPLE RESULT WAS REJECTED.
13. DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.
14. THE ANILINE DATA FOR THE 9/98 SAMPLING EVENT FOR MW-18, MW-19, MW-23S, MW-23I, MW-24SR, MW-24DR, MW-28, PZ-5S AND PZ-5D WERE OBTAINED IN 12/98, BECAUSE THE 9/98 RESULTS WERE REJECTED DUE TO LABORATORY ERROR.
15. * = MW-3S WAS RESAMPLED ON 11/8/01 DUE TO ANILINE DETECTION DURING 9/2001 SAMPLING EVENT AT A CONCENTRATION OF 690 PPB. ANILINE WAS DETECTED ON 11/8/01 AT A CONCENTRATION OF 69 PPB.
18. ** = MONITORING WELLS MW-17R, MW-18, AND PZ-4S WERE RESAMPLED FOR ANILINE AND N,N-DIMETHYLANILINE ON JUNE 18, 2002 DUE TO N,N-DIMETHYLANILINE AND/ OR ANILINE DETECTION AT THESE PERIMETER MONITORING LOCATIONS DURING THE APRIL 2002 SAMPLING EVENT. THE RESULTS OF THIS RESAMPLING EVENT ARE SHOWN IN PARENTHESIS. MONITORING WELLS MW-24SR AND MW-24DR WERE ALSO SAMPLED ON JUNE 18, 2002 FOR ANALYSIS OF ANILINE AND N,N-DIMETHYLANILINE. THESE COMPOUNDS WERE NOT DETECTED.
17. ^ = THE ANILINE AND N,N-DIMETHYLANILINE DATA FOR THE 10/02 SAMPLING EVENT FOR MW-17R, MW-18, MW-19, MW-23S, MW-23I, MW-24SR, MW-24DR, MW-25S, PZ-4S, PZ-5S, AND PZ-5D WERE OBTAINED IN 1/03, BECAUSE THE 10/02 RESULTS WERE REJECTED DUE TO MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES BELOW CONTROL LIMITS.
18. THE 10/02 SAMPLING EVENT N,N-DIMETHYLANILINE DATA FOR MW-3S, MW-28 AND MW-29 AND THE 10/02 SAMPLING EVENT ANILINE AND N,N-DIMETHYLANILINE DATA FOR MW-30 WERE REJECTED DUE TO MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES BELOW CONTROL LIMITS. THESE MONITORING WELLS WERE NOT RESAMPLED.

0 120' 240'

GRAPHIC SCALE

McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR 1988 - MAY 2003 AREA 3

ARCADIS

FIGURE **2**

TW-02R		
Date	10/03	6/04
Acetone	68	140 J
Benzene	28	19 J
Toluene	75 J	39 J
Ethylbenzene	<5	31 J
Xylene	<10	111 J
Methanol	<1,000	<1,000
Trichloroethene	2 J	<10 J
Aniline	92,000 D	82,000
N,N-dimethylaniline	<260	<5,200
Methylene Chloride	91	4 J

TW-02RR				
Date	11/04	6/05	11/05	6/06
Acetone	18 J	7.2 J	26 J	16
Benzene	4 J	3.6	6	4.4
Toluene	8 J	2.1 J	4.1	1.3 J
Ethylbenzene	4 J	3.6 J	3.6	2.7 J
Xylene	18 J	9.6	11	6.7
Methanol	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<10	0.3 J	<0.4	<1.0
Aniline	7,100 D	5,400	14,000	10,000
N,N-dimethylaniline	<5.0	<50	<110 J	<100
Methylene Chloride	<10	<3.0	<0.5	<3.0

MW-35						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	5 J	<25	<25	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<10	<1.0	<1.0	<1.0
Toluene	<5.0	<10	<10	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	<10	<4.0	<4.0	<4.0
Xylene	<10	<20	<20	<5.0	<5.0	<5.0
Methanol	<1000	<1000	240 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	<1.0	<1.0	<1.0
Aniline	4 J	30	82	<1.0	<1.0	0.4 J
N,N-dimethylaniline	<5.0	4 J	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<10	<3.0	<3.0	<3.0

MW-36						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	580 D	22 J	13 J	24 J	77 J	25
Benzene	<5.0	<10 J	<10	2.1	3.6	1.8
Toluene	<5.0	<10 J	<10	<5.0	2.0 J	0.7 J
Ethylbenzene	<5.0	<10 J	<10	<4.0	0.6 J	<4.0
Xylene	<10	<20 J	<20	1.0 J	2.8 J	1.2 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10 J	<10	<1.0	<1.0	<1.0
Aniline	120	33	22	1,200	1,600	76
N,N-dimethylaniline	<5.0	7	<5.0	<5.4	<10 J	1.9
Methylene Chloride	<5.0	<10 J	<10	<3.0	<3.0	<3.0

MW-34						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	9 J	24 J	<25	5.6 J	20 J	6.4
Benzene	<5.0	<10	<10	0.7 J	<0.3	0.6 J
Toluene	<5.0	<10	<10	0.9 J	0.9	0.5 J
Ethylbenzene	<5	<10	<10	<4.0	<0.5	<4.0
Xylene	<10	<20	<20	1.2 J	1.1	<5.0
Methanol	<1000	<1000	180 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	0.4 J	<0.4	<1.0
Aniline	18	30	14	16	12	16
N,N-dimethylaniline	<5.0	<5.0	<5.0	2.5	2 J	2.3
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	<3.0

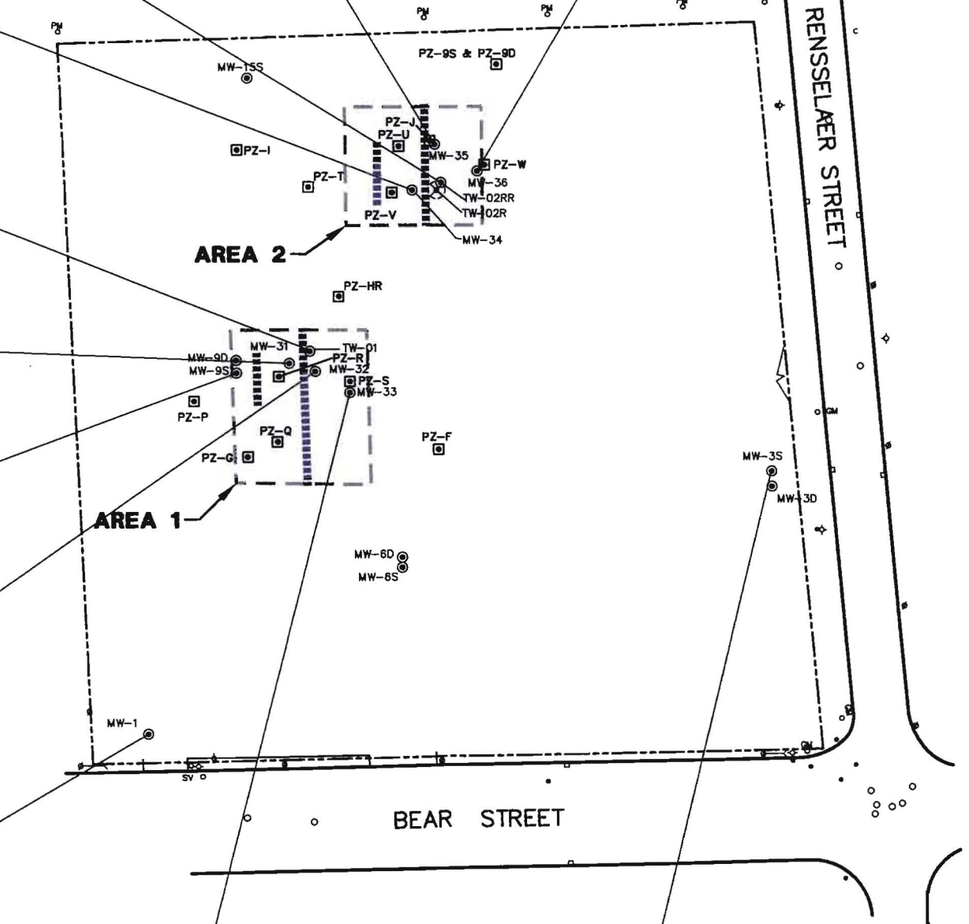
TW-01						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	6 J	<25	<5.0 J	<1.3 J	<5.0 J
Benzene	6	3 J	2 J	1.8	1.9	1 J
Toluene	<5.0	<10	<10	<5.0	<0.4	<5.0 J
Ethylbenzene	<5.0	<10	<10	<4.0	<0.5	<4.0 J
Xylene	<10	<20	<20	<5.0	<0.4	<5.0 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	<10	<1.0	<0.4	<1.0 J
Aniline	0.6 J	<5.0	<5.0	<1.0	<1.0	<1.0 J
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	0.8 J
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	<3.0 J

MW-31						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	1,200 D	15 J	<25	<5.0 J	<1.3 J	<5.0 J
Benzene	13	12	9 J	11	6.7	11 J
Toluene	<5.0	<10	<10	<5.0	<0.4	0.6 J
Ethylbenzene	<5.0	<10	<10	<4.0	<0.5	<4.0 J
Xylene	<5.0	<20	<20	1.3 J	0.8	1.7 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	<10	<1.0	<0.4	<1.0 J
Aniline	88	3 J	<5.0	3.2	16	<1.0 J
N,N-dimethylaniline	<5.0	<5.0	<5.0	2.7	<1.0 J	2.4 J
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	3.4

MW-9S						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	14 J	<25	44 J	<1.3 J	<5.0 J
Benzene	2 J	6 J	4 J	1.9	3.5	1.1 J
Toluene	<5	2 J	2 J	3.2 J	3.8	2.3 J
Ethylbenzene	5	8 J	9 J	24	11	25 J
Xylene	19	19 J	30 J	64	33	80 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	<10	<1.0	<0.4	<1.0 J
Aniline	1 J	<5.0	<5.0	2.6	1.4	<1.1 J
N,N-dimethylaniline	<5.0	<5.0	<5.0	1.9	6.1 J	3.8 J
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	<3.0 J

MW-32						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	20	6 J	<25	<5.0 J	<5.0 J	<5.0 J
Benzene	2 J	1 J	<10	1	<1.0	<1.0 J
Toluene	<5.0	<10	<10	<5.0	<5.0	<5.0 J
Ethylbenzene	<5.0	<10	<10	<4.0	<4.0	<4.0 J
Xylene	<10	<20	<20	<5.0	<5.0	<5.0 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	<10	<1.0	<1.0	<1.0 J
Aniline	<5.0	1 J	<5.0	0.4 J	<1.0	<1.0 J
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0 J
Methylene Chloride	<5.0	<10	<10	<3.0	<3.0	<3.0 J

MW-1						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	--	<5.0 J	<1.3 J	<5.0 J
Benzene	<5.0	<10	--	<1.0	<0.3	<1.0 J
Toluene	<5.0	<10	--	<5.0	<0.4	<5.0 J
Ethylbenzene	<5.0	<10	--	<4.0	<0.5	<4.0 J
Xylene	<10	<20	--	<0.5	<0.5	<5.0 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	--	<1.0	<0.4	<1.0 J
Aniline	2 J	<5.0	<5.0	0.2 J	<1.0	<1.0 J
N,N-Dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0 J
Methylene Chloride	<5.0	<10	--	<3.0	<0.5	<3.0 J



MW-33						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	22	9 J	--	<5.0 J	<5.0 J	<5.0 J
Benzene	2 J	12 J	--	11	16	6.7 J
Toluene	<5.0	<10 J	--	1.0 J	1.8 J	0.7 J
Ethylbenzene	<5.0	<10 J	--	<4.0	<4.0	<4.0 J
Xylene	<10	<20 J	--	<5.0	<5.0	<5.0 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10 J	--	<1.0	<1.0	<1.0 J
Aniline	1,900 D	2,700 D	2,700 D	1,800	3,500	370 J
N,N-dimethylaniline	<8.0	5 J	5 J	<10	<25 J	3.5 J
Methylene Chloride	<5.0	<10 J	--	<3.0	<3.0	<3.0 J

MW-3S						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	6 J	<25	<5.0 J	<1.3 J	<5.0
Benzene	<5.0	<10	<10	<1.0	<0.3	<1.0
Toluene	<5.0	<10	<10	<5.0	<0.4	<5.0
Ethylbenzene	<5.0	<10	<10	<4.0	<0.5	<4.0
Xylene	<10	<20	<20	<5.0	<0.4	<5.0
Methanol	<1,000	<1,000	150 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	<1.0	<0.4	<1.0
Aniline	4 J	0.8 J	4 J	15	<1.0	<1.0
N,N-dimethylaniline	<5.0	<6.0	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	<3.0

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER
- GAS LINE MARKER
- SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- TW-02R REMOVED GROUNDWATER MONITORING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER INFILTRATION TRENCH

SAMPLE IDENTIFICATION

MW-35						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	5 J	<25	<25	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<10	<1.0	<1.0	<1.0
Toluene	<5.0	<10	<10	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	<10	<4.0	<4.0	<4.0
Xylene	<10	<20	<20	<5.0	<5.0	<5.0
Methanol	<1000	<1000	240 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	<1.0	<1.0	<1.0
Aniline	4 J	30	82	<1.0	<1.0	0.4 J
N,N-dimethylaniline	<5.0	4 J	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<10	<3.0	<3.0	<3.0

CONCENTRATION (ppb)

DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY COC CONCENTRATIONS DETECTED OR THAT HAVE BEEN DETECTED ARE PRESENTED ON THIS FIGURE (SEE ATTACHMENT A FIGURE 1).
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. D = CONCENTRATION IS BASED ON DILUTED SAMPLE ANALYSIS.
9. R = THE SAMPLE RESULT WAS REJECTED.
10. DURING THE AUGUST 2004 SUPPLEMENTAL REMEDIAL ACTIVITIES, MONITORING WELL TW-02R WAS REMOVED AND TW-02RR WAS CONSTRUCTED OUTSIDE THE SOIL REMOVAL AREA IN THE VICINITY OF TW-02R.
11. THE 11/04 SAMPLING EVENT VOLATILE ORGANIC COMPOUND (VOC) DATA FOR MW-33 AND MW-1 WERE INADVERTENTLY LOST DUE TO LABORATORY EQUIPMENT FAILURE. AS DETAILED IN THE BIANNUAL REPORT, THESE MONITORING WELLS WERE NOT RESAMPLED.

0 100' 200'

GRAPHIC SCALE

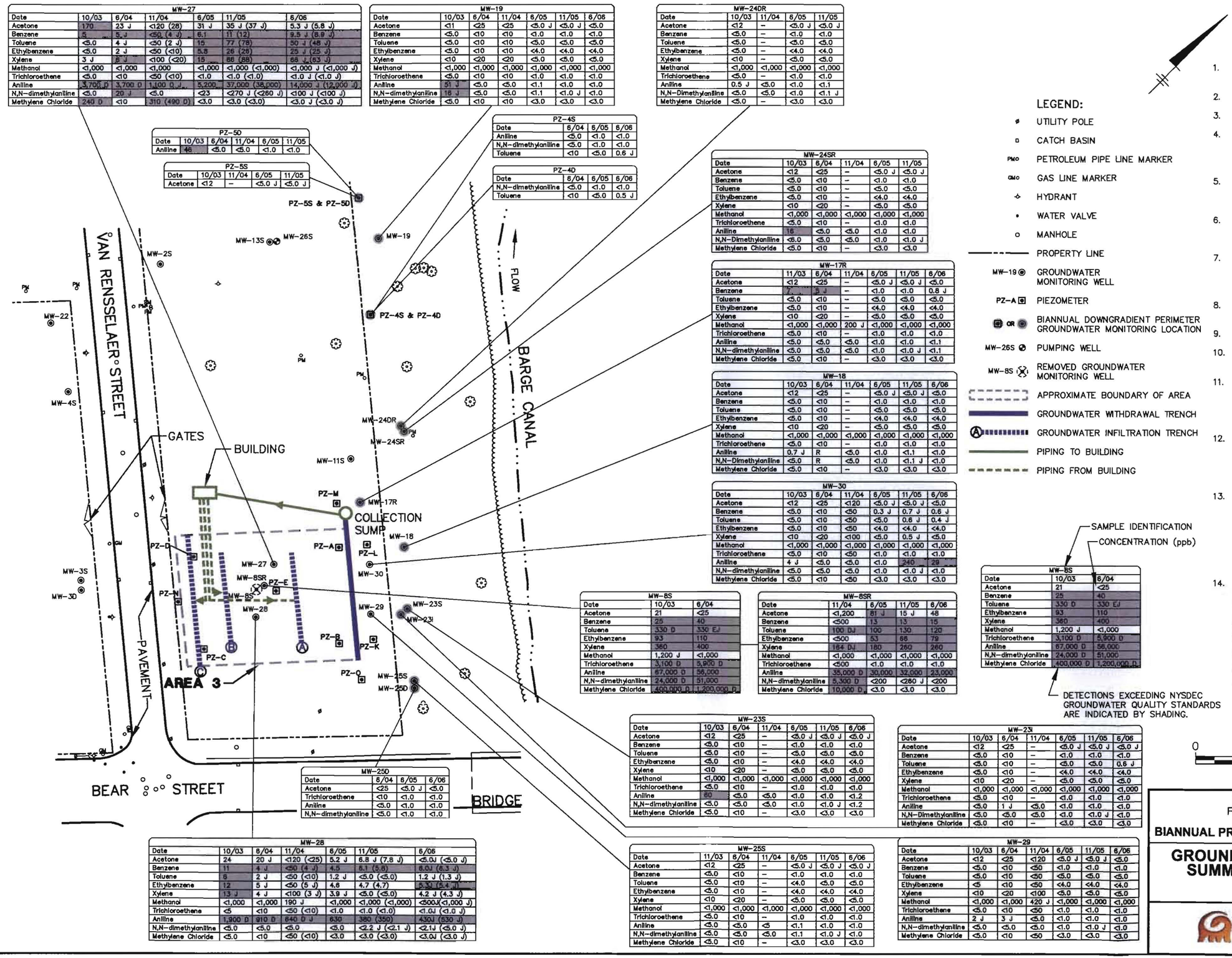
McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR OCTOBER 2003 - JUNE 2006 AREAS 1 & 2

ARCADIS

FIGURE 3

CITY: SYRACUSE DIV/GROUP: 141 DB: GMS LAF NES LD: PIC: PM: B. BYRNES TM: LYR: ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIVE\00280000\0001900\DWG\BIANNUAL\HISTORICAL\28000C03.DWG LAYOUT: 3 SAVED: 3/4/2009 12:25 PM ACADVER: 17.0S (LMS TECH)
XREFS: 28003X01 28003X00 IMAGES: PROJECTNAME: ---
PAGESETUP: C:\LB-PDF-TABLOID PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/4/2009 12:26 PM BY: STOWELL, GARY



MW-27

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	170	23 J	<120 (28)	31 J	35 J (37 J)	5.3 J (5.8 J)
Benzene	5	5 J	<50 (4 J)	6.1	11 (12)	9.5 J (8.9 J)
Toluene	<5.0	4 J	<50 (2 J)	15	77 (78)	50 J (48 J)
Ethylbenzene	<5.0	2 J	<50 (<10)	5.8	26 (26)	25 J (25 J)
Xylene	3 J	3 J	<100 (<20)	15	88 (88)	68 J (63 J)
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000 (<1,000)	<1,000 J (<1,000 J)
Trichloroethene	<5.0	<10	<50 (<10)	<1.0	<1.0 (<1.0)	<1.0 J (<1.0 J)
Aniline	3,700 D	3,700 D	1,100 D J	5,200	37,000 (38,000)	14,000 J (12,000 J)
N,N-dimethylaniline	<5.0	20 J	<5.0	<23	<270 J (<260 J)	<100 J (<100 J)
Methylene Chloride	240 D	<10	310 (490 D)	<3.0	<3.0 (<3.0)	<3.0 J (<3.0 J)

MW-19

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<11	<25	<25	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<10	<1.0	<1.0	<1.0
Toluene	<5.0	<10	<10	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	<10	<4.0	<4.0	<4.0
Xylene	<10	<20	<20	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	<1.0	<1.0	<1.0
Aniline	51 J	<5.0	<5.0	<1.1	<1.0	<1.0
N,N-dimethylaniline	18 J	<5.0	<5.0	<1.1	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<10	<3.0	<3.0	<3.0

MW-24DR

Date	10/03	11/04	6/05	11/05
Acetone	<12	–	<5.0 J	<5.0 J
Benzene	<5.0	–	<1.0	<1.0
Toluene	<5.0	–	<5.0	<5.0
Ethylbenzene	<5.0	–	<4.0	<4.0
Xylene	<10	–	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	–	<1.0	<1.0
Aniline	0.5 J	<5.0	<1.0	<1.1
N,N-Dimethylaniline	<5.0	<5.0	<1.0	<1.1 J
Methylene Chloride	<5.0	–	<3.0	<3.0

PZ-5D

Date	10/03	6/04	11/04	6/05	11/05
Aniline	48	<5.0	<5.0	<1.0	<1.0

PZ-5S

Date	10/03	11/04	6/05	11/05
Acetone	<12	–	<5.0 J	<5.0 J

PZ-4S

Date	6/04	6/05	6/06
Aniline	<5.0	<1.0	<1.0
N,N-dimethylaniline	<5.0	<1.0	<1.0
Toluene	<10	<5.0	0.6 J

PZ-4D

Date	6/04	6/05	6/06
N,N-dimethylaniline	<5.0	<1.0	<1.0
Toluene	<10	<5.0	0.5 J

MW-24SR

Date	10/03	6/04	11/04	6/05	11/05
Acetone	<12	<25	–	<5.0 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<1.0
Toluene	<5.0	<10	–	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0
Aniline	16	<5.0	<5.0	<1.0	<1.0
N,N-Dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J
Methylene Chloride	<5.0	<10	–	<3.0	<3.0

MW-17R

Date	11/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0
Benzene	7	5 J	–	<1.0	<1.0	0.8 J
Toluene	<5.0	<10	–	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	200 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	<5.0	<5.0	<5.0	<1.0	<1.0	<1.1
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.1
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-18

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	–	<1.0	<1.0	<1.0
Toluene	<5.0	<10	–	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	0.7 J	R	<5.0	<1.0	<1.1	<1.0
N,N-Dimethylaniline	<5.0	R	<5.0	<1.0	<1.1 J	<1.0
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-30

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	<120	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<10	0.3 J	0.7 J	0.6 J
Toluene	<5.0	<10	<50	<5.0	0.6 J	0.4 J
Ethylbenzene	<5.0	<10	<50	<4.0	<4.0	<4.0
Xylene	<10	<20	<100	<5.0	0.5 J	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<50	<1.0	<1.0	<1.0
Aniline	4 J	<5.0	<5.0	<1.0	240	29
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<50	<3.0	<3.0	<3.0

MW-8S

Date	10/03	6/04
Acetone	21	<25
Benzene	25	40
Toluene	330 D	330 EJ
Ethylbenzene	93	110
Xylene	380	400
Methanol	1,200 J	<1,000
Trichloroethene	3,100 D	5,900 D
Aniline	67,000 D	56,000
N,N-dimethylaniline	24,000 D	51,000
Methylene Chloride	400,000 D	1,200,000 D

MW-8SR

Date	11/04	6/05	11/05	6/06
Acetone	<1,200	81 J	15 J	48
Benzene	<500	13	13	15
Toluene	100 DJ	100	130	120
Ethylbenzene	<500	53	66	79
Xylene	184 DJ	180	260	260
Methanol	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<500	<1.0	<1.0	<1.0
Aniline	35,000 D	30,000	32,000	23,000
N,N-dimethylaniline	5,300 D	<200	<260 J	<200
Methylene Chloride	10,000 D	<3.0	<3.0	<3.0

MW-25D

Date	6/04	6/05	6/06
Acetone	<25	<5.0 J	<5.0
Trichloroethene	<10	<1.0	<1.0
Aniline	<5.0	<1.0	<1.0
N,N-dimethylaniline	<5.0	<1.0	<1.0

MW-28

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	24	20 J	<120 (<25)	5.2 J	6.8 J (7.8 J)	<5.0J (<5.0 J)
Benzene	11	4 J	<50 (4 J)	4.5	6.1 (5.8)	6.0J (6.3 J)
Toluene	8	2 J	<50 (<10)	1.2 J	<5.0 (<5.0)	1.2 J (1.3 J)
Ethylbenzene	12	5 J	<50 (5 J)	4.8	4.7 (4.7)	5.3J (5.4 J)
Xylene	13 J	4 J	<100 (3 J)	3.9 J	<5.0 (<5.0)	4.2 J (4.3 J)
Methanol	<1,000	<1,000	190 J	<1,000	<1,000 (<1,000)	<500J(<1,000 J)
Trichloroethene	<5	<10	<50 (<10)	<1.0	<1.0 (<1.0)	<1.0J (<1.0 J)
Aniline	1,900 D	910 D	840 D J	630	380 (350)	430J (530 J)
N,N-dimethylaniline	<5.0	<5.0	<5.0	<5.0	<2.2 J (<2.1 J)	<2.1J (<5.0 J)
Methylene Chloride	<5.0	<10	<50 (<10)	<3.0	<3.0 (<3.0)	<3.0J (<3.0 J)

MW-23S

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<1.0	<1.0
Toluene	<5.0	<10	–	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	60	<5.0	<5.0	<1.0	<1.0	<1.2
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.2
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-23I

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<1.0	<1.0
Toluene	<5.0	<10	–	<5.0	<5.0	0.6 J
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	<5.0	1 J	<5.0	<1.0	<1.0	<1.0
N,N-Dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-25S

Date	11/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<1.0	<1.0
Toluene	<5.0	<10	–	<4.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	<5.0	<5.0	<5	<1.1	<1.0	<1.0
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.1	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-29

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	<120	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<50	<1.0	<1.0	<1.0
Toluene	<5.0	<10	<50	<5.0	<5.0	<5.0
Ethylbenzene	<5	<10	<50	<4.0	<4.0	<4.0
Xylene	<10	<20	<100	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	420 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<50	<1.0	<1.0	<1.0
Aniline	2 J	3 J	<5.0	<1.0	<1.0	<1.0
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<50	<3.0	<3.0	<3.0

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER
- GAS LINE MARKER
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- OR BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- MW-26S PUMPING WELL
- MW-8S REMOVED GROUNDWATER MONITORING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH
- PIPING TO BUILDING
- PIPING FROM BUILDING

SAMPLE IDENTIFICATION
CONCENTRATION (ppb)

MW-8S

Date	10/03	6/04
Acetone	21	<25
Benzene	25	40
Toluene	330 D	330 EJ
Ethylbenzene	93	110
Xylene	380	400
Methanol	1,200 J	<1,000
Trichloroethene	3,100 D	5,900 D
Aniline	67,000 D	56,000
N,N-dimethylaniline	24,000 D	51,000
Methylene Chloride	400,000 D	1,200,000 D

DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY COC CONCENTRATIONS DETECTED OR HAVE BEEN DETECTED ARE PRESENTED ON THIS FIGURE (SEE ATTACHMENT A FIGURE 2).
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. D = CONCENTRATION IS BASED ON DILUTED SAMPLE ANALYSIS.
9. R = THE SAMPLE RESULT WAS REJECTED.
10. E = THE COMPOUND WAS QUANTITATED ABOVE THE CALIBRATION RANGE.
11. THE 6/04 SAMPLING EVENT ANILINE AND N,N-DIMETHYLANILINE DATA FOR MW-18 WERE REJECTED DUE TO THE DEVIATION FROM A SURROGATE RECOVERY BELOW 10 PERCENT. THIS MONITORING WELL WAS NOT RESAMPLED.
12. DURING THE AUGUST 2004 SUPPLEMENTAL REMEDIAL ACTIVITIES, MONITORING WELL MW-8S WAS REMOVED AND MW-8SR WAS CONSTRUCTED DOWNGRADIENT OF THE SOIL REMOVAL AREA IN THE VICINITY OF MW-8S.
13. THE 11/04 SAMPLING EVENT VOLATILE ORGANIC COMPOUND (VOC) DATA FOR MW-17R, MW-18, MW-23I, MW-23S, MW-24DR, MW-24SR, MW-25S, PZ-5D, AND PZ-5S WERE INADVERTENTLY LOST DUE TO LABORATORY EQUIPMENT FAILURE. AS DETAILED IN THE BIANNUAL REPORT, THESE MONITORING WELLS WERE NOT RESAMPLED.
14. THE 11/04 SAMPLING EVENT VOC INITIAL DATA FOR MW-27, MW-28, MW-29, AND MW-30 WERE INADVERTENTLY LOST DUE TO LABORATORY EQUIPMENT FAILURE. HOWEVER, VALID DATA WAS OBTAINED FROM SUBSEQUENT DILUTIONS OF THESE SAMPLES, RESULTING IN HIGHER DETECTION LIMITS. THE VOC RESULTS OBTAINED FROM THE DUPLICATE SAMPLES COLLECTED AT MW-27 AND MW-28 HAVE LOWER DETECTION LIMITS AND ARE PRESENTED ON THIS FIGURE IN PARENTHESES.

0 100' 200'
GRAPHIC SCALE

McKESSON ENVIRONSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
BIANNUAL PROCESS CONTROL MONITORING REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR OCTOBER 2003 - JUNE 2006 AREA 3

ARCADIS

FIGURE 4

ARCADIS

Attachment B

Validated Analytical Laboratory Reports

ARCADIS
Infrastructure, environment, facilities

Imagine the result

McKesson Bear Street

Data Usability Summary Report

SYRACUSE, NEW YORK

Volatile, Semivolatile and Methanol Analyses

SDG# Y913

Analyses Performed By:
TestAmerica Edison
Edison, New Jersey

Report: #9041R
Project: B0026003.0000.00190

SUMMARY

The following is an assessment of the data package for Sample Delivery Group (SDG) #Y913 for sampling from the McKesson Bear Street Site. Included with this assessment are the corrected sample results, sample compliance report, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-35	947684	Water	8/28/2008		X	X			X
MW-36	947685	Water	8/28/2008		X	X			X
MW-27	947686	Water	8/28/2008		X	X			X
MW-17R	947687	Water	8/28/2008		X	X			X
MW-8SR	947688	Water	8/28/2008		X	X			X
MW-28	947689	Water	8/28/2008		X	X			X
MW-30	947690	Water	8/28/2008		X	X			X
MW-29	947691	Water	8/28/2008		X	X			X
MW-23I	947692	Water	8/28/2008		X	X			X
DUP-082808	947693	Water	8/28/2008	MW-8SR	X	X			X
TRIP BLANK	947694	Water	8/28/2008		X	X			X

Note:

1. Miscellaneous analysis include methanol.
2. Matrix spike/matrix spike duplicate analysis was performed on sample location MW-8SR.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260, 8270 and 8015 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 24-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Blank Spike (BS) Analysis

The BS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the BS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the BS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-8SR/DUP-082808	Acetone	8.2 J	ND(10.0)	AC
	Benzene	11	11	0.0%
	Toluene	24	22	AC
	Ethylbenzene	70	70	0.0%
	Xylene (Total)	190	190	0.0%

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks		X		X	
Blank Spike (BS)		X		X	
Blank Spike Duplicate(BSD)	X				X
BS/BSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All calibration criteria were within the control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Surrogate	Recovery
MW-8SR DUP-082808	Phenol-d5	D
	2-Fluorophenol	D
	2,4,6-Tribromophenol	D
	Nitrobenzene-d5	D
	2-Fluorobiphenyl	D
	Terphenyl-d14	D

Diluted (D)

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> Upper control limit (UL)	Non-detect	No Action
	Detect	J
< Lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	No Action
	Detect	

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the SVOC to exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) the area counts of the associated continuing calibration standard.

All internal standard areas and retention times were within established limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD performed on sample location MW-8SR was diluted below the calibration range. Recoveries and RPD can not be determined. Sample results were not qualified.

8. Blank Spike (BS) Analysis

The BS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the BS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the BS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-8SR/DUP-082808	Aniline	32000	25000	24.6%

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs; SW-846 8270	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Blank Spike (BS)		X		X	
Blank Spike Duplicate(BSD)	X				X
BS/BSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD – percent relative difference, %R - percent recovery, RPD - relative percent difference, %D – difference

METHANOL (GC/FID) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Methanol by SW846 8015	Water	7 days from collection to analysis	Cooled @ 4 °C

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All calibration verification standard recoveries were within the control limit.

4. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. Methanol analysis requires the surrogate compound to exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Surrogate	Recovery
DUP-082808	1-Pentanol	>UL

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> Upper control limit (UL)	Non-detect	No Action
	Detect	J
< Lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	No Action
	Detect	

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit a RPD within the laboratory established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between MS/MSD recoveries.

6. Blank Spike (BS) Analysis

The BS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the BS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the BS analysis exhibited recoveries within the control limits.

7. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for

water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-8SR/DUP-082808	Methanol	ND	ND	AC

ND = Not detected.
AC = The field duplicate is acceptable when the difference between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The RPDs between the parent sample and field duplicate were acceptable.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

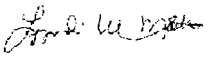
DATA VALIDATION CHECKLIST FOR METHANOL

DATA VALIDATION CHECKLIST FOR METHANOL

VOCs; SW-846 8015	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/FID)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
Blank Spike (BS)		X		X	
Blank Spike Duplicate(BSD)	X				X
BS/BSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X	X		
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Compound identification and quantitation					
A. Quantitation Reports		X		X	
B. RT of sample compounds within the established RT windows		X		X	
C. Transcription/calculation errors present		X		X	
D. Reporting limits adjusted to reflect sample dilutions		X		X	

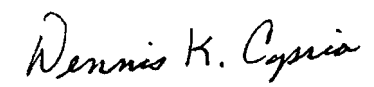
%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Lyndi Mott

SIGNATURE: 

DATE: September 30, 2008

PEER REVIEW BY: Dennis Capria

SIGNATURE: 

DATE: September 30, 2008

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Client ID: **MW-35**
Site: McKesson Bear St.

Lab Sample No: **947684**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/05/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30039.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	5.4	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-36**
Site: McKesson Bear St.

Lab Sample No: **947685**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/05/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30040.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	27	5.0
Trichloroethene	ND	1.0
Benzene	3.7	1.0
Toluene	1.4J	5.0
Ethylbenzene	0.6J	4.0
Xylene (Total)	5.7	5.0

Client ID: **MW-27**
Site: McKesson Bear St.

Lab Sample No: **947686**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/05/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30041.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	3.8J	5.0
Trichloroethene	ND	1.0
Benzene	5.0	1.0
Toluene	2.2J	5.0
Ethylbenzene	1.8J	4.0
Xylene (Total)	10	5.0

Client ID: **MW-17R**
Site: McKesson Bear St.

Lab Sample No: **947687**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/05/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30042.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	2.3J	5.0
Trichloroethene	ND	1.0
Benzene	1.8	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-8SR**
Site: McKesson Bear St.

Lab Sample No: **947688**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/05/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30043.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	6.0
Acetone	8.2J	10
Trichloroethene	ND	2.0
Benzene	11	2.0
Toluene	24	10
Ethylbenzene	70	8.0
Xylene (Total)	190	10

Client ID: **MW-28**
Site: McKesson Bear St.

Lab Sample No: **947689**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/08/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30074.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	3.8	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-30**
Site: McKesson Bear St.

Lab Sample No: **947690**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/08/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30071.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	0.7J	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-29**
Site: McKesson Bear St.

Lab Sample No: **947691**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/08/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30072.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-23I**
Site: McKesson Bear St.

Lab Sample No: **947692**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/08/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30073.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **DUP-082808**
Site: McKesson Bear St.

Lab Sample No: **947693**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/08/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30075.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	6.0
Acetone	ND	10
Trichloroethene	ND	2.0
Benzene	11	2.0
Toluene	22	10
Ethylbenzene	70	8.0
Xylene (Total)	190	10

Client ID: **TRIP_BLANK**
Site: McKesson Bear St.

Lab Sample No: **947694**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/05/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c30024.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-35**
Site: McKesson Bear St.

Lab Sample No: **947684**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/04/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36898.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	1.1J	5.0
N,N-Dimethylaniline	ND	0.5

Client ID: **MW-36**
Site: McKesson Bear St.

Lab Sample No: **947685**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/04/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36899.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	4.5J	5.0
N,N-Dimethylaniline	3.2	0.5

Client ID: **MW-27**
Site: McKesson Bear St.

Lab Sample No: **947686**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/05/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36935.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 50.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	2400	250
N,N-Dimethylaniline	ND	25

Client ID: **MW-17R**
Site: McKesson Bear St.

Lab Sample No: **947687**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/05/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36933.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.0
N,N-Dimethylaniline	ND	0.5

Client ID: **MW-8SR**
Site: McKesson Bear St.

Lab Sample No: **947688**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/05/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36936.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 500.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	32000	2500
N,N-Dimethylaniline	ND	250

Client ID: **MW-28**
Site: McKesson Bear St.

Lab Sample No: **947689**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/05/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36934.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	0.7J	5.0
N,N-Dimethylaniline	ND	0.5

Client ID: **MW-30**
Site: McKesson Bear St.

Lab Sample No: **947690**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/04/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36906.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	31	5.0
N,N-Dimethylaniline	ND	0.5

Client ID: **MW-29**
Site: McKesson Bear St.

Lab Sample No: **947691**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/04/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36907.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.0
N,N-Dimethylaniline	ND	0.5

Client ID: MW-23I
Site: McKesson Bear St.

Lab Sample No: 947692
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/04/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36908.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.0
N,N-Dimethylaniline	ND	0.5

Client ID: **DUP-082808**
Site: McKesson Bear St.

Lab Sample No: **947693**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Extracted: 09/03/08
Date Analyzed: 09/05/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36939.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 500.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	25000	2500
N,N-Dimethylaniline	ND	250

Client ID: **MW-35**
Site: McKesson Bear St.

Lab Sample No: **947684**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2943.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-36**
Site: McKesson Bear St.

Lab Sample No: **947685**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2944.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-27**
Site: McKesson Bear St.

Lab Sample No: **947686**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2945.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-17R**
Site: McKesson Bear St.

Lab Sample No: **947687**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2946.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-8SR**
Site: McKesson Bear St.

Lab Sample No: **947688**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2947.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-28**
Site: McKesson Bear St.

Lab Sample No: **947689**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2950.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-30**
Site: McKesson Bear St.

Lab Sample No: **947690**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2952.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-29**
Site: McKesson Bear St.

Lab Sample No: **947691**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2953.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-23I**
Site: McKesson Bear St.

Lab Sample No: **947692**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2954.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **DUP-082808**
Site: McKesson Bear St.

Lab Sample No: **947693**
Lab Job No: Y913

Date Sampled: 08/28/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2955.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2°, 3° IR 98

AL-4142 (0907)

Client	Project Manager	Date	Chain of Custody Number
ARCADIS	DAWN DENNIMAN	8/28/08	391129
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page**
6723 TOWPATH RD	315 446 9120	923237	1 of 1
City / State / Zip Code	**Site Contact / Lab Contact**		
SYRACUSE / NY / 13214	LEVIA TERRELL / JANAE McCLOUD		
Project Name and Location (State)	**Carrier/Waybill Number**		
McKESSON Bear St SYRACUSE, NY			
Contract/Purchase Order/Quote No.			
B0026003.0001.0002			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: VOCs 8260B	SVOCs 8270C	8015B GRO/DRO C1-C4	Special Instructions/ Conditions of Receipt
MW-35	8/28/08	905		X			5			3			X	X	X	947684
MW-36		950		X			5			3			X	X	X	947685
MW-27		1135		X			5			3			X	X	X	947686
MW-17R		1240		X			5			3			X	X	X	947687
MW-8SR		1235		X			15			9			X	X	X	MS/MSD 947688
MW-28		1445		X			5			3			X	X	X	947689
MW-30		1450		X			5			3			X	X	X	947690
MW-29		1620		X			5			3			X	X	X	947691
MW-23I		1725		X			5			3			X	X	X	947692
DUP-082808		—		X			5			3			X	X	X	947693
TRIP BLANK		—		X						3			X			947694

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal
☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	8/28/08	1843	1. Received By	8/28/08	1943
2. Relinquished By	8/28/08	1930	2. Received By	8/29/08	10:00
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Y913

TestAmerica Edison

60

LABORATORY NARRATIVE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
777 New Durham Rd
Edison, NJ 08817
Ph. 732 549-3900 * *Fax* 732 549-367

SDG NARRATIVE

TESTAMERICA

SDG No. Y913

TestAmericaEdison Sample	Client ID
947684	MW-35
947685	MW-36
947686	MW-27
947687	MW-17R
947688	MW-8SR
947689	MW-28
947690	MW-30
947691	MW-29
947692	MW-23I
947693	DUP-082808
947694	TRIP_BLANK

Sample Receipt:

Sample delivery conforms to requirements.

Volatile Organic Analysis (GC/MS):

All data conforms to method requirements.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

QA batch # 6583: MS/MSD RPD of most compounds are biased high.

QA batch # 6583: MS/MSD % recoveries of most compounds are ND due to dilution.

9/18/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
777 New Durham Rd
Edison, NJ 08817
Ph. 732 549-3900 * *Fax* 732 549-367

QA batch # 6583: MS/MSD % recovery of several compounds is outside QC limits.

QA batch # 6583: MS/MSD RPD of several compounds are biased high.

Sample#947686, 688, and 693: surrogate recoveries diluted out.

Nonhalogenated Organic Analysis (GC/FID):

Methanol sample 947693: Pentanol surrogate standard recovery is outside of Q.C. limits (biased high). Methanol is not detected in this sample.

I certify that this data package is in compliance with the terms of the contract NY ASP B both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the laboratory manager or his designee.

Janae McCloud
Project Manager

9/18/2008

NYSDEC Sample Identification and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method	*BNA GC/MS Method	*VOA GC Method	*PEST PCBs/HERB Method	*Metals Method	*Other (1)
MW-35	947684	❖	❖				
MW-36	947685	❖	❖				
MW-27	947686	❖	❖				
MW-17R	947687	❖	❖				
MW-8SR	947688	❖	❖				
MW-28	947689	❖	❖				
MW-30	947690	❖	❖				
MW-29	947691	❖	❖				
MW-23I	947692	❖	❖				
DUP-082808	947693	❖	❖				
TRIP_BLANK	947694	❖					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
947684	WATER	8/28/08	8/28/08		9/5/08
947685	WATER	8/28/08	8/28/08		9/5/08
947686	WATER	8/28/08	8/28/08		9/5/08
947687	WATER	8/28/08	8/28/08		9/5/08
947688	WATER	8/28/08	8/28/08		9/5/08
947688MS	WATER	8/28/08	8/28/08		9/4/08
947688SD	WATER	8/28/08	8/28/08		9/4/08
947689	WATER	8/28/08	8/28/08		9/8/08
947690	WATER	8/28/08	8/28/08		9/8/08
947691	WATER	8/28/08	8/28/08		9/8/08
947692	WATER	8/28/08	8/28/08		9/8/08
947693	WATER	8/28/08	8/28/08		9/8/08
947694	WATER	8/28/08	8/28/08		9/5/08

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
947684	WATER	8/28/08	8/28/08	9/3/08	9/4/08
947685	WATER	8/28/08	8/28/08	9/3/08	9/4/08
947686	WATER	8/28/08	8/28/08	9/3/08	9/5/08
947687	WATER	8/28/08	8/28/08	9/3/08	9/5/08
947688	WATER	8/28/08	8/28/08	9/3/08	9/5/08
947688MS	WATER	8/28/08	8/28/08	9/3/08	9/5/08
947688SD	WATER	8/28/08	8/28/08	9/3/08	9/5/08
947689	WATER	8/28/08	8/28/08	9/3/08	9/5/08
947690	WATER	8/28/08	8/28/08	9/3/08	9/4/08
947691	WATER	8/28/08	8/28/08	9/3/08	9/4/08
947692	WATER	8/28/08	8/28/08	9/3/08	9/4/08
947693	WATER	8/28/08	8/28/08	9/3/08	9/5/08

10/95

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]					Non-compliance
					VOC	SVOC	PCB	MET	MISC	
Y913	8/28/2008	ASP 2005	MW-35	Water	Yes	Yes	--	--	Yes	
Y913	8/28/2008	ASP 2005	MW-36	Water	Yes	Yes	--	--	Yes	
Y913	8/28/2008	ASP 2005	MW-27	Water	Yes	Yes	--	--	Yes	
Y913	8/28/2008	ASP 2005	MW-17R	Water	Yes	Yes	--	--	Yes	
Y913	8/28/2008	ASP 2005	MW-8SR	Water	Yes	No	--	--	Yes	SVOC: Surrogate %R
Y913	8/28/2008	ASP 2005	MW-28	Water	Yes	Yes	--	--	Yes	
Y913	8/28/2008	ASP 2005	MW-30	Water	Yes	Yes	--	--	Yes	
Y913	8/28/2008	ASP 2005	MW-29	Water	Yes	Yes	--	--	Yes	
Y913	8/28/2008	ASP 2005	MW-23I	Water	Yes	Yes	--	--	Yes	
Y913	8/28/2008	ASP 2005	DUP-082808	Water	Yes	No	--	--	No	SVOC: Surrogate %R MISC: Surrogate %R
Y913	8/28/2008	ASP 2005	TRIP BLANK	Water	Yes	--	--	--	--	

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

ARCADIS
Infrastructure, environment, facilities

Imagine the result

McKesson Bear Street

Data Usability Summary Report

SYRACUSE, NEW YORK

Volatile, Semivolatile and Methanol Analyses

SDG# Y771

Analyses Performed By:
TestAmerica Edison
Edison, New Jersey

Report: #9033R
Project: B0026003.0000.00190

SUMMARY

The following is an assessment of the data package for Sample Delivery Group (SDG) #Y771 for sampling from the McKesson Bear Street Site. Included with this assessment are the corrected sample results, sample compliance report, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
PZ-5D	946469	Water	8/26/2008		X	X			X
PZ-5S	946470	Water	8/26/2008		X	X			X
MW-19	946471	Water	8/26/2008		X	X			X
MW-25S	946472	Water	8/26/2008		X	X			X
MW-18	946473	Water	8/26/2008		X	X			X
MW-24DR	946474	Water	8/26/2008		X	X			X
MW-24SR	946475	Water	8/26/2008		X	X			X
MW-23S	946476	Water	8/26/2008		X	X			X
MW-9S	946477	Water	8/27/2008		X	X			X
MW-31	946478	Water	8/27/2008		X	X			X
MW-32	946479	Water	8/27/2008		X	X			X
TW-01	946480	Water	8/27/2008		X	X			X
MW-33	946481	Water	8/27/2008		X	X			X
MW-01	946482	Water	8/27/2008		X	X			X
MW-3S	946483	Water	8/27/2008		X	X			X
TW-02RR	946484	Water	8/27/2008		X	X			X
DUP-082708	946485	Water	8/27/2008	TW-02RR	X	X			X
MW-34	946486	Water	8/27/2008		X	X			X
TRIP BLANK	946487	Water	8/27/2008		X	X			X

Note:

1. Miscellaneous analysis include methanol.
2. Matrix spike/matrix spike duplicate analysis was performed on sample location TW-02RR.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260, 8270 and 8015 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 24-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-9S MW-01 MW-3S DUP-082708 MW-34 TRIP BLANK	CCV %D	Acetone	31.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1 RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Blank Spike (BS) Analysis

The BS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the BS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the BS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
TW-02RR/DUP-082708	Acetone	9.0	9.6	AC
	Benzene	4.4	4.6	AC
	Toluene	1.0 J	1.1 J	AC
	Ethylbenzene	2.3 J	2.4 J	AC
	Xylene (Total)	6.7	7.0	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks		X		X	
Blank Spike (BS)		X		X	
Blank Spike Duplicate(BSD)	X				X
BS/BSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All calibration criteria were within the control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Surrogate	Recovery
TW-02RR DUP-082708	Phenol-d5	D
	2-Fluorophenol	D
	2,4,6-Tribromophenol	D
	Nitrobenzene-d5	D
	2-Fluorobiphenyl	D
	Terphenyl-d14	D

Diluted (D)

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> Upper control limit (UL)	Non-detect	No Action
	Detect	J
< Lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	No Action
	Detect	

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the SVOC to exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) the area counts of the associated continuing calibration standard.

All internal standard areas and retention times were within established limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD performed on sample location TW-02RR was diluted below the calibration range. Recoveries and RPD can not be determined. Sample results were not qualified.

8. Blank Spike (BS) Analysis

The BS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the BS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the BS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
TW-02RR/DUP-082708	Aniline	9600	7000	31.3%

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs; SW-846 8270	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Blank Spike (BS)		X		X	
Blank Spike Duplicate(BSD)	X				X
BS/BSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD – percent relative difference, %R - percent recovery, RPD - relative percent difference, %D – difference

METHANOL (GC/FID) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Methanol by SW846 8015	Water	7 days from collection to analysis	Cooled @ 4 °C

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All calibration verification standard recoveries were within the control limit.

4. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. Methanol analysis requires the surrogate compound to exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Surrogate	Recovery
MW-9S MW-31 TW-02RR DUP-082708 MW-34	1-Pentanol	>UL

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> Upper control limit (UL)	Non-detect	No Action
	Detect	J
< Lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	No Action
	Detect	

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit a RPD within the laboratory established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between MS/MSD recoveries.

6. Blank Spike (BS) Analysis

The BS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the BS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the BS analysis exhibited recoveries within the control limits.

7. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
TW-02RR/DUP-082708	Methanol	ND	ND	AC

ND = Not detected.
AC = The field duplicate is acceptable when the difference between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The RPDs between the parent sample and field duplicate were acceptable.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

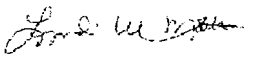
DATA VALIDATION CHECKLIST FOR METHANOL

DATA VALIDATION CHECKLIST FOR METHANOL

VOCs; SW-846 8015	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/FID)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
Blank Spike (BS)		X		X	
Blank Spike Duplicate(BSD)	X				X
BS/BSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X	X		
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Compound identification and quantitation					
A. Quantitation Reports		X		X	
B. RT of sample compounds within the established RT windows		X		X	
C. Transcription/calculation errors present		X		X	
D. Reporting limits adjusted to reflect sample dilutions		X		X	

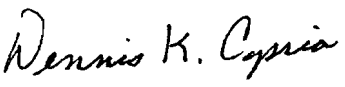
%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Lyndi Mott

SIGNATURE: 

DATE: September 26, 2008

PEER REVIEW BY: Dennis Capria

SIGNATURE: 

DATE: September 30, 2008

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Client ID: **PZ-5D**
Site: Syracuse

Lab Sample No: **946469**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29921.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **PZ-5S**
Site: Syracuse

Lab Sample No: **946470**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29922.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-19**
Site: Syracuse

Lab Sample No: **946471**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29923.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-25S**
Site: Syracuse

Lab Sample No: **946472**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29924.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-18**
Site: Syracuse

Lab Sample No: **946473**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29925.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	5.5	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-24DR**
Site: Syracuse

Lab Sample No: **946474**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29926.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-24SR**
Site: Syracuse

Lab Sample No: **946475**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29927.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-23S**
Site: Syracuse

Lab Sample No: **946476**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29928.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-9S**
Site: Syracuse

Lab Sample No: **946477**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29956.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	24 J	5.0
Trichloroethene	ND	1.0
Benzene	3.7	1.0
Toluene	3.3J	5.0
Ethylbenzene	21	4.0
Xylene (Total)	72	5.0

Client ID: **MW-31**
Site: Syracuse

Lab Sample No: **946478**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29929.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	22	5.0
Trichloroethene	ND	1.0
Benzene	13	1.0
Toluene	0.4J	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	2.2J	5.0

Client ID: **MW-32**
Site: Syracuse

Lab Sample No: **946479**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29930.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	5.8	5.0
Trichloroethene	ND	1.0
Benzene	0.3J	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **TW-01**
Site: Syracuse

Lab Sample No: **946480**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29931.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-33**
Site: Syracuse

Lab Sample No: **946481**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29932.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	3.2	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-01**
Site: Syracuse

Lab Sample No: **946482**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29952.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	7.4 J	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **MW-3S**
Site: Syracuse

Lab Sample No: **946483**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29953.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **TW-02RR**
Site: Syracuse

Lab Sample No: **946484**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29933.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	9.0	5.0
Trichloroethene	ND	1.0
Benzene	4.4	1.0
Toluene	1.0J	5.0
Ethylbenzene	2.3J	4.0
Xylene (Total)	6.7	5.0

Client ID: **DUP-082708**
Site: Syracuse

Lab Sample No: **946485**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29954.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	9.6J	5.0
Trichloroethene	ND	1.0
Benzene	4.6	1.0
Toluene	1.1J	5.0
Ethylbenzene	2.4J	4.0
Xylene (Total)	7.0	5.0

Client ID: **MW-34**
Site: Syracuse

Lab Sample No: **946486**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29955.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	12 J	5.0
Trichloroethene	ND	1.0
Benzene	0.8J	1.0
Toluene	0.5J	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	1.1J	5.0

Client ID: **TRIP_BLANK**
Site: Syracuse

Lab Sample No: **946487**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 09/03/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c29951.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Trichloroethene	ND	1.0
Benzene	ND	1.0
Toluene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: **PZ-5D**
Site: Syracuse

Lab Sample No: **946469**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/02/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36824.d

Matrix: WATER
Level: LOW
Sample Volume: 980 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.1
N,N-Dimethylaniline	ND	0.5

Client ID: **PZ-5S**
Site: Syracuse

Lab Sample No: **946470**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/02/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36829.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.3
N,N-Dimethylaniline	ND	0.5

Client ID: **MW-19**
Site: Syracuse

Lab Sample No: **946471**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/02/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36830.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.6
N,N-Dimethylaniline	ND	0.6

Client ID: **MW-25S**
Site: Syracuse

Lab Sample No: **946472**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/02/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36831.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.2
N,N-Dimethylaniline	ND	0.5

Client ID: **MW-18**
Site: Syracuse

Lab Sample No: **946473**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36832.d

Matrix: WATER
Level: LOW
Sample Volume: 890 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.6
N,N-Dimethylaniline	ND	0.6

Client ID: **MW-24DR**
Site: Syracuse

Lab Sample No: **946474**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36833.d

Matrix: WATER
Level: LOW
Sample Volume: 870 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.7
N,N-Dimethylaniline	ND	0.6

Client ID: **MW-24SR**
Site: Syracuse

Lab Sample No: **946475**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36834.d

Matrix: WATER
Level: LOW
Sample Volume: 870 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.7
N,N-Dimethylaniline	ND	0.6

Client ID: **MW-23S**
Site: Syracuse

Lab Sample No: **946476**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36835.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.6
N,N-Dimethylaniline	ND	0.6

Client ID: **MW-9S**
Site: Syracuse

Lab Sample No: **946477**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36836.d

Matrix: WATER
Level: LOW
Sample Volume: 910 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.5
N,N-Dimethylaniline	5.1	0.5

Client ID: **MW-31**
Site: Syracuse

Lab Sample No: **946478**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36837.d

Matrix: WATER
Level: LOW
Sample Volume: 890 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.6
N,N-Dimethylaniline	2.4	0.6

Client ID: **MW-32**
Site: Syracuse

Lab Sample No: **946479**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36838.d

Matrix: WATER
Level: LOW
Sample Volume: 870 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.7
N,N-Dimethylaniline	ND	0.6

Client ID: **TW-01**
Site: Syracuse

Lab Sample No: **946480**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36839.d

Matrix: WATER
Level: LOW
Sample Volume: 890 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.6
N,N-Dimethylaniline	ND	0.6

Client ID: **MW-33**
Site: Syracuse

Lab Sample No: **946481**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36840.d

Matrix: WATER
Level: LOW
Sample Volume: 850 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.9
N,N-Dimethylaniline	2.8	0.6

Client ID: **MW-01**
Site: Syracuse

Lab Sample No: **946482**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36841.d

Matrix: WATER
Level: LOW
Sample Volume: 890 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.6
N,N-Dimethylaniline	ND	0.6

Client ID: **MW-3S**
Site: Syracuse

Lab Sample No: **946483**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36842.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	ND	5.6
N,N-Dimethylaniline	ND	0.6

Client ID: **TW-02RR**
Site: Syracuse

Lab Sample No: **946484**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/08/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36970.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 100.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	9600	710
N,N-Dimethylaniline	ND	71

Client ID: **DUP-082708**
Site: Syracuse

Lab Sample No: **946485**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/08/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36973.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 100.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	7000	560
N,N-Dimethylaniline	ND	56

Client ID: **MW-34**
Site: Syracuse

Lab Sample No: **946486**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Extracted: 08/29/08
Date Analyzed: 09/03/08
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s36845.d

Matrix: WATER
Level: LOW
Sample Volume: 890 ml
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Aniline	0.6J	5.6
N,N-Dimethylaniline	1.6	0.6

Client ID: **PZ-5D**
Site: Syracuse

Lab Sample No: **946469**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2916.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **PZ-5S**
Site: Syracuse

Lab Sample No: **946470**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2917.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: uq/l	Quantitation Limit Units: uq/l
Methanol	ND	500

Client ID: **MW-19**
Site: Syracuse

Lab Sample No: **946471**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2918.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-25S**
Site: Syracuse

Lab Sample No: **946472**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2919.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-18**
Site: Syracuse

Lab Sample No: **946473**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2920.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-24DR**
Site: Syracuse

Lab Sample No: **946474**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2921.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-24SR**
Site: Syracuse

Lab Sample No: **946475**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2922.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-23S**
Site: Syracuse

Lab Sample No: **946476**
Lab Job No: Y771

Date Sampled: 08/26/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2923.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-9S**
Site: Syracuse

Lab Sample No: **946477**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2925.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-31**
Site: Syracuse

Lab Sample No: **946478**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2926.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-32**
Site: Syracuse

Lab Sample No: **946479**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2927.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **TW-01**
Site: Syracuse

Lab Sample No: **946480**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2928.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-33**
Site: Syracuse

Lab Sample No: **946481**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2929.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-01**
Site: Syracuse

Lab Sample No: **946482**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2930.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-3S**
Site: Syracuse

Lab Sample No: **946483**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2931.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **TW-02RR**
Site: Syracuse

Lab Sample No: **946484**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2932.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **DUP-082708**
Site: Syracuse

Lab Sample No: **946485**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2936.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Client ID: **MW-34**
Site: Syracuse

Lab Sample No: **946486**
Lab Job No: Y771

Date Sampled: 08/27/08
Date Received: 08/28/08
Date Analyzed: 08/29/08
GC Column: DB624
Instrument ID: BNAGC5.i
Lab File ID: gc5f2937.d

Matrix: WATER
Level: LOW
Injection Volume: 1.0 ul
Final Volume: 0.0 mL
Dilution Factor: 1.0

NONHALOGENATED ORGANICS - GC/FID
ALCOHOLS

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Methanol	ND	500

Y771

3,3,5,4,E3 IR98

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client: ARCADIS	Project Manager: DAWN PENNIMAN	Date: 8/26/08	Chain of Custody Number: 391139
Address: 6723 TOWPATH RD	Telephone Number (Area Code)/Fax Number: 315 446 9120	Lab Number: 923237	Page 1 of 1
City: SYRACUSE / State: NY / Zip Code: 13214	Site Contact: LEVIA TERRELL	Lab Contact: JAMIE McCLOUD	
Project Name and Location (State): McKESSON BYRD ST SYRACUSE NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: BOO 26003.0001.0002			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: VOCs 8260B	SVOCs 8270C	Cl-C4 ALCOHOLS 8015B	Special Instructions/ Conditions of Receipt
PZ-5D	8/26/08	1015		✓			5			3			X	X	X	946469
PZ-5S		1115		✓			5			3			X	X	X	946470
MW-19		1330		✓			5			3			X	X	X	946471
MW-25S		1050		✓			5			3			X	X	X	946472
MW-18		1400		✓			5			3			X	X	X	946473
MW-24DR		1530		✓			5			3			X	X	X	943474
MW-24SR		1625		✓			5			3			X	X	X	943475
MW-23S		1830		✓			5			3			X	X	X	943476
MW-9S	8/27/08	1025		✓			5			3			X	X	X	943477
MW-31		1140		✓			5			3			X	X	X	943478
MW-32		1250		✓			5			3			X	X	X	943479
TW-01		1400		✓			5			3			X	X	X	943480

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	8/27/08	1850	1. Received By: [signature]	8/27/08	1850
2. Relinquished By: [signature]	8/27/08	1930	2. Received By: FedEx		
3. Relinquished By: FedEx	8-28-08	1030	3. Received By: [signature]		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica Edison

87

3,3,54,63 TR98

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client	Project Manager	Date	Chain of Custody Number
ARCADIS	DAWN PENNIMAN	8/27/08	391138
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 2 of 2
6723 TOWPATH RD	315 446 9120	973737	
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
SYRACUSE / NY / 13214	LEVIA TERRELL	JANAE McCLOUD	
Project Name and Location (State)	**Carrier/Waybill Number**		
MCKESSON BEAR ST SYRACUSE NY			
Contract/Purchase Order/Quote No.			
B00260O3.0001.0002			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: VOCs 8260B	SVOCs 8270C	VOCs 8260B	SVOCs 8270C	8015B-DRO	Special Instructions/ Conditions of Receipt
MW-33	8/27/08	1535		X			5			3					X	X	X	943481
MW-01		1015		X			5			3					X	X	X	943482
MW-3S		1235		X			5			3					X	X	X	943483
TW-02RR		1550		X			15			9					X	X	X	MS/MSD 943484
DUP-082708		-		X			5			3					X	X	X	943485
MW-34		1700		X			5			3					X	X	Y	943486
TRIPBLANK		-		X						2					X			943487

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other STANDARD

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	[signature]	8/27/08	1850	[signature]	8/27/08	1850
2.	[signature]	8/27/08	1930	Fedex		
3.	Fedex	8/28/08	1032	[signature]		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

LABORATORY NARRATIVE

TestAmerica
777 New Durham Rd
Edison, NJ 08817
Ph. 732 549-3900 * *Fax* 732 549-3679

SDG NARRATIVE

TestAmerica

SDG No. Y771

TA Edison Sample	Client ID
946469	PZ-5D
946470	PZ-5S
946471	MW-19
946472	MW-25S
946473	MW-18
946474	MW-24DR
946475	MW-24SR
946476	MW-23S
946477	MW-9S
946478	MW-31
946479	MW-32
946480	TW-01
946481	MW-33
946482	MW-01
946483	MW-3S
946484	TW-02RR
946485	DUP-082708
946486	MW-34
946487	TRIP_BLANK

TestAmerica
777 New Durham Rd
Edison, NJ 08817
Ph. 732 549-3900 * *Fax* 732 549-3679

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

QA batch 0481:MS/MSD %recovery of Chlorobenzene is outside of Q.C.limits (sample amount is too high for spike level).Blank Spike within QC limits.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

QA batch #6577:MS/MSD %recovery of Several compounds are outside QC limits. Sample#946484,and 485:surrogate recoveries diluted out.

Nonhalogenated Organic Analysis (GC/FID):

Methanol samples 946477,946478,946484,946485 &946486:Pentanol surrogate standard recovery isoutside of Q.C.limits(biased high).Methanol is not detected in these samples.

I certify that this data package is in compliance with the terms of the contract NY ASP B both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the laboratory manager or his designee.

Janae McCloud
Project Manager

NYSDEC Sample Identification and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS 8260B	*BNA GC/MS 8270C	VOA GC 8015B			
PZ-5D	946469	❖	❖	❖			
PZ-5S	946470	❖	❖	❖			
MW-19	946471	❖	❖	❖			
MW-25S	946472	❖	❖	❖			
MW-18	946473	❖	❖	❖			
MW-24DR	946474	❖	❖	❖			
MW-24SR	946475	❖	❖	❖			
MW-23S	946476	❖	❖	❖			
MW-9S	946477	❖	❖	❖			
MW-31	946478	❖	❖	❖			
MW-32	946479	❖	❖	❖			
TW-01	946480	❖	❖	❖			
MW-33	946481	❖	❖	❖			
MW-01	946482	❖	❖	❖			
MW-3S	946483	❖	❖	❖			
TW-02RR	946484	❖	❖	❖			
DUP-082708	946485	❖	❖	❖			
MW-34	946486	❖	❖	❖			
TRIP_BLANK	946487	❖					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
946469	WATER	8/26/08	8/28/08		9/3/08
946470	WATER	8/26/08	8/28/08		9/3/08
946471	WATER	8/26/08	8/28/08		9/3/08
946472	WATER	8/26/08	8/28/08		9/3/08
946473	WATER	8/26/08	8/28/08		9/3/08
946474	WATER	8/26/08	8/28/08		9/3/08
946475	WATER	8/26/08	8/28/08		9/3/08
946476	WATER	8/26/08	8/28/08		9/3/08
946477	WATER	8/27/08	8/28/08		9/3/08
946478	WATER	8/27/08	8/28/08		9/3/08
946479	WATER	8/27/08	8/28/08		9/3/08
946480	WATER	8/27/08	8/28/08		9/3/08
946481	WATER	8/27/08	8/28/08		9/3/08
946482	WATER	8/27/08	8/28/08		9/3/08
946483	WATER	8/27/08	8/28/08		9/3/08
946484	WATER	8/27/08	8/28/08		9/3/08
946484MS	WATER	8/27/08	8/28/08		9/4/08
946484SD	WATER	8/27/08	8/28/08		9/4/08
946485	WATER	8/27/08	8/28/08		9/3/08
946486	WATER	8/27/08	8/28/08		9/3/08
946487	WATER	8/27/08	8/28/08		9/3/08

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
946469	WATER	8/26/08	8/28/08	8/29/08	9/2/08
946470	WATER	8/26/08	8/28/08	8/29/08	9/2/08
946471	WATER	8/26/08	8/28/08	8/29/08	9/2/08
946472	WATER	8/26/08	8/28/08	8/29/08	9/2/08
946473	WATER	8/26/08	8/28/08	8/29/08	9/3/08
946474	WATER	8/26/08	8/28/08	8/29/08	9/3/08
946475	WATER	8/26/08	8/28/08	8/29/08	9/3/08
946476	WATER	8/26/08	8/28/08	8/29/08	9/3/08
946477	WATER	8/27/08	8/28/08	8/29/08	9/3/08
946478	WATER	8/27/08	8/28/08	8/29/08	9/3/08
946479	WATER	8/27/08	8/28/08	8/29/08	9/3/08
946480	WATER	8/27/08	8/28/08	8/29/08	9/3/08
946481	WATER	8/27/08	8/28/08	8/29/08	9/3/08
946482	WATER	8/27/08	8/28/08	8/29/08	9/3/08
946483	WATER	8/27/08	8/28/08	8/29/08	9/3/08
946484	WATER	8/27/08	8/28/08	8/29/08	9/8/08
946484MS	WATER	8/27/08	8/28/08	8/29/08	9/8/08
946484SD	WATER	8/27/08	8/28/08	8/29/08	9/8/08
946485	WATER	8/27/08	8/28/08	8/29/08	9/8/08
946486	WATER	8/27/08	8/28/08	8/29/08	9/3/08

10/95

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]					Non-compliance
					VOC	SVOC	PCB	MET	MISC	
Y771	8/26/2008	ASP 2005	PZ-5D	Water	Yes	Yes	--	--	Yes	
Y771	8/26/2008	ASP 2005	PZ-5S	Water	Yes	Yes	--	--	Yes	
Y771	8/26/2008	ASP 2005	MW-19	Water	Yes	Yes	--	--	Yes	
Y771	8/26/2008	ASP 2005	MW-25S	Water	Yes	Yes	--	--	Yes	
Y771	8/26/2008	ASP 2005	MW-18	Water	Yes	Yes	--	--	Yes	
Y771	8/26/2008	ASP 2005	MW-24DR	Water	Yes	Yes	--	--	Yes	
Y771	8/26/2008	ASP 2005	MW-24SR	Water	Yes	Yes	--	--	Yes	
Y771	8/26/2008	ASP 2005	MW-23S	Water	Yes	Yes	--	--	Yes	
Y771	8/27/2008	ASP 2005	MW-9S	Water	No	Yes	--	--	No	VOC: CCAL %D MISC: Surrogate %R
Y771	8/27/2008	ASP 2005	MW-31	Water	Yes	Yes	--	--	No	MISC: Surrogate %R
Y771	8/27/2008	ASP 2005	MW-32	Water	Yes	Yes	--	--	Yes	
Y771	8/27/2008	ASP 2005	TW-01	Water	Yes	Yes	--	--	Yes	
Y771	8/27/2008	ASP 2005	MW-33	Water	Yes	Yes	--	--	Yes	
Y771	8/27/2008	ASP 2005	MW-01	Water	No	Yes	--	--	Yes	VOC: CCAL %D
Y771	8/27/2008	ASP 2005	MW-3S	Water	No	Yes	--	--	Yes	VOC: CCAL %D
Y771	8/27/2008	ASP 2005	TW-02RR	Water	Yes	No	--	--	No	SVOC: Surrogate %R MISC: Surrogate %R

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]					Non-compliance
					VOC	SVOC	PCB	MET	MISC	
Y771	8/27/2008	ASP 2005	DUP-082708	Water	No	No	--	--	No	VOC: CCAL %D SVOC: Surrogate %R MISC: Surrogate %R
Y771	8/27/2008	ASP 2005	MW-34	Water	No	Yes	--	--	No	VOC: CCAL %D MISC: Surrogate %R
Y771	8/27/2008	ASP 2005	TRIP BLANK	Water	No	--	--	--	--	VOC: CCAL %D

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.