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November 16, 2004

Mr. Mark Mateunas
Bureau of Hazardous Site Control
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7012

Re: McKesson Envirosystems
Bear Street Site
Syracuse, New York
Site No. 07-34-020
BBL Project #: 0260.26003 #10

Dear Mr. Mateunas:

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 Blasland, Bouck & Lee, Inc. (BBL), on behalf of McKesson Corporation (McKesson), to present a description of the operation and maintenance (O&M) activities conducted and the monitoring results obtained during the period from January 2004 through June 2004. Additionally, this report also presents a detailed description of the supplemental remedial activities conducted between August 2 and August 12, 2004. This report has been prepared in accordance with the requirements of the New York State Department of Environmental Conservation- (NYSDEC-) approved *Site Operation and Maintenance Plan* (BBL, Revised August 1999) and a December 29, 1999 letter from David J. Ulm of BBL to Michael J. Ryan, P.E. of the NYSDEC, presenting the long-term process control monitoring program as an addendum to the Site O&M Plan. The Site O&M Plan and the addendum are collectively referred to herein as the O&M Plan.

The site is divided into two operable units: Operable Unit No. 1 (OU No. 1) - Unsaturated Soil and Operable Unit No. 2 (OU No. 2) - Saturated Soils and Groundwater. As a part of the NYSDEC-selected remedy for both of these operable units, there has been and continues to be ongoing O&M activities. Since completing the OU No. 1 remedial activities in 1994/1995 and commencing the OU No. 2 in-situ anaerobic bioremediation treatment activities in July 1998, the details regarding the O&M activities and the results of the process control monitoring program have been provided to the NYSDEC in biannual reports. A site description and history, along with a description of the remedial actions completed and the ongoing O&M activities being conducted were detailed in the previous biannual reports, including BBL's August 2001 Biannual Report covering the period from July 2000 through December 2000. That information has not changed and is not repeated herein.

During this reporting period (January 2004 through June 2004), no substantial system repairs were required and no unusual observations were made regarding system operations. The Area 3 in-situ anaerobic bioremediation treatment system has operated satisfactorily during this reporting period without interruption and approximately 784,000 gallons of water were pumped from the withdrawal trench and introduced into the Area 3 infiltration trenches as detailed herein.

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The NYSDEC was notified of the June 2004 process control monitoring event (including hydraulic, biological, and chemicals of concern [COC] monitoring) prior to the commencement of the monitoring activities. The details and schedule of the supplemental remedial activities were also coordinated with the NYSDEC prior to initiating these activities.

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

- **I. RAMM and Suga-Lik™ Introduction Activities** – A description of the Revised Anaerobic Mineral Media (RAMM) and Suga-Lik™ (Blackstrap Molasses) introduction activities.
- **II. Hydraulic Process Control Monitoring** – A description of the results of the hydraulic control monitoring activities conducted between January 2004 and June 2004.
- **III. Biological Process Control Monitoring** – A description of the June 2004 results of the biological process control monitoring and a comprehensive summary of the biological indicator (phospholipids fatty acids [PLFA] and poly-b-hydroxy alkanoate [PHA]) results obtained since commencement of the in-situ anaerobic bioremediation treatment activities in 1998.
- **IV. COC Process Control and Biannual Groundwater Monitoring Program** – A description of the June 2004 results of the COC process control and biannual groundwater monitoring program, and a summary of the COC data obtained at the site from 1989 through June 2004.
- **V. Supplemental Remedial Activities** – A summary of the supplemental remedial activities conducted at the site between August 2 and August 12, 2004.
- **VI. Conclusions** – Conclusions based on the results of the process control monitoring activities and supplemental remedial activities.
- **VII. Recommendations** – Recommendations for the in-situ anaerobic bioremediation treatment program and monitoring activities.

I. RAMM and Suga-Lik™ Introduction Activities

Based on the results of the process control monitoring activities, the continued addition of RAMM into each of the three areas and the continued addition of Suga-Lik™ (with the RAMM) in Area 1 and downgradient of Area 2 were recommended in the June 2004 *Biannual Process Control Monitoring Report* to further stimulate the anaerobic biodegradation of the relatively low concentrations of COCs at these locations. As detailed in that Biannual Report, the relatively low COC concentrations detected at these locations may not provide a source of carbon sufficient to sustain microbial activity. To further stimulate growth of indigenous bacteria, the RAMM and Suga-Lik™ introduction activities listed below have been conducted.

- Continuing to introduce approximately 100 gallons of RAMM-amended groundwater into each of the three areas on a monthly basis.
- Continuing to add Suga-Lik™ with RAMM into the two Area 1 infiltration trenches on a monthly basis by manually filling each of the standpipes located in these trenches. Suga-Lik™ has been added during these monthly RAMM introduction activities to provide an easily metabolized carbon source to further stimulate the growth of the indigenous bacteria. Suga-Lik™ provides electron donors, while RAMM provides nutrients and electron acceptors.

- Continuing to introduce RAMM and Suga-Lik™ on a monthly basis into piezometers PZ-G, PZ-Q, PZ-R, and PZ-S located within and downgradient of Area 1. RAMM and Suga-Lik™ have been introduced into the shallow hydrogeologic unit within and downgradient of Area 1 using these piezometers to provide a better distribution of a readily degradable carbon source that otherwise may not reach these areas if distributed through the infiltration trenches only.

- Continuing to introduce RAMM and Suga-Lik™ on a monthly basis into piezometer PZ-W located downgradient of Area 2, near monitoring well MW-36.

Approximately 10 gallons of the RAMM/Suga-Lik™ solution has been introduced into each of the aforementioned piezometers and approximately 100 gallons of Suga-Lik™ and/or RAMM solution into each of the three areas on a monthly basis. The amount of Suga-Lik™ added to the RAMM has been proportional to the levels of COCs detected, at the dilution ratio of 1,000:1.

II. Hydraulic Process Control Monitoring

As part of the hydraulic process control monitoring activities conducted during January 2004 through June 2004, 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 monitoring wells (MW-6D located upgradient of Area 3 and MW-8D located within Area 3) screened entirely within the deep hydrogeologic unit. Additionally, a groundwater-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 June 14, 2004. The monitoring locations are shown on Figure 1.

Table 1 summarizes the groundwater-level measurements obtained during the June 2004 hydraulic monitoring events, as well as those obtained since June 1998 (immediately prior to commencing the in-situ anaerobic remedial activities). Figure 2 depicts the potentiometric surface of the site's shallow hydrogeologic unit using the June 14, 2004 data set, which is consistent with previous hydraulic monitoring events. 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 2.

- The groundwater withdrawal rate in Area 3 ranged from approximately 0.7 gallons per minute (gpm) to 5.1 gpm. These rates continue to induce a higher hydraulic gradient across the area of relatively higher concentrations of COCs within Area 3 (relative to baseline conditions), while maintaining hydraulic containment in Area 3.

- In Area 3, approximately 75% of the recovered groundwater continues to be introduced to the secondary infiltration trench "B" and the remaining 25% continues to be introduced to the secondary infiltration trench "A." This introduction of recovered groundwater into the secondary infiltration trenches increases the rate at which RAMM-amended groundwater moves through the area of relatively higher concentrations of COCs (between the secondary infiltration trenches). The withdrawal of groundwater continues to induce a hydraulic gradient in Area 3 from perimeter monitoring wells MW-23S, MW-25S, and MW-17R toward the withdrawal trench.

- No discernable, long-term hydraulic effects were identified at or near Areas 1 and 2 as a result of introducing RAMM or RAMM/Suga-Lik™ into these areas on a monthly basis.

- The groundwater elevations measured at selected monitoring locations screened entirely within the deep hydrogeologic unit indicate that the operation of the Area 3 system is continuing to have no discernable effect on the hydraulic gradient of this unit.

- The weekly conductivity measurements of groundwater pumped from the withdrawal trench in Area 3 ranged from approximately 1 millisiemens per centimeter (mS/cm) to 2.14 mS/cm, which is within the range of the conductivity levels measured prior to system operation (1 mS/cm 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. Biological Process Control Monitoring

The biological process control monitoring includes collecting groundwater samples for laboratory analysis of PLFA and PHA, common biological indicators in both oxidized and reduced states (e.g., electron acceptors: nitrate, manganese, iron, sulfate, and carbon dioxide), and permanent gases (nitrogen, carbon dioxide, and methane). The monitoring locations are shown on Figure 1. In addition, the following groundwater quality parameters were also measured in the field during the June 2004 biological sampling event: pH, temperature, conductivity, dissolved oxygen (DO), and oxidation/reduction potential (ORP). To better evaluate the availability of macronutrients necessary for biological growth, groundwater samples collected from monitoring locations within the three areas, and from perimeter monitoring wells MW-29 and MW-30 (downgradient of Area 3) and MW-33 and MW-36 (downgradient of Areas 1 and 2, respectively) were analyzed for ammonia, potassium, and ortho-phosphate.

The results of the June 2004 biological process control monitoring activities are presented in Table 2 and shown on Figures 3 through 11. These biological process control monitoring results are summarized below.

- In general, the biomass (PFLA) levels increased or remained the same in most monitoring locations in Areas 1, 2, and 3 since the May 2003 sampling event, except at MW-31 in Area 1 where the PLFA level decreased (see Figure 3 [Area 1], Figure 6 [Area 2], and Figure 9 [Area 3]). The PLFA level decreased from 19 picomoles/milliliter (pmol/ml) (October 2003) to 1 pmol/ml (June 2004) at monitoring location MW-31. As discussed in Section IV, COCs were generally not detected in the June 2004 groundwater samples (see Figure 12) collected at monitoring location MW-31 where the PLFA level decreased.

- The highest biomass (PLFA) levels continue to be at monitoring locations TW-02R (Area 2) and MW-8S (Area 3), where the relatively higher concentrations of COCs have been detected (see Figures 6 and 9).

- In general, the levels of anaerobic bacteria in each of the three Areas have increased or remained the same since the previous sampling event.

- The PLFA data used to monitor environmental stress and turnover rate indicate that the microbial communities within Areas 1, 2, and 3 are undergoing limited stress and continue to have high turnover rates.

- PHA was not detected in any of the June 2004 groundwater samples collected from Areas 1, 2, and 3 suggesting there are sufficient carbon, electron acceptors, and nutrients to sustain microbial activity within these three areas.

- Consistent with the activities conducted during the previous biannual sampling event (October 2003), the groundwater samples were analyzed for ammonia, potassium, and ortho-phosphate to better evaluate the availability of macronutrients necessary for biological growth in each of the three Areas (see Table 2). The results of these additional analyses and the PHA/PLFA data indicate that there are sufficient amounts of macronutrients available within each Area to sustain microbial growth.

- Dissolved gases results, together with ORP data, continue to indicate that conditions in the saturated soils/groundwater of the shallow hydrogeologic unit within each area are reduced, thus conducive to anaerobic bioremediation processes.

- The biological data (i.e., microbial analytes, indicator compounds, and permanent gases) obtained since commencement of the in-situ anaerobic treatment program in 1998 indicate that the saturated soil/groundwater conditions within the shallow hydrogeologic unit within each area are consistently conducive to microbial degradation of the COCs by anaerobic microbial populations. Additionally, these data have consistently confirmed that there are sufficient carbon, election acceptors, and nutrients to sustain microbial activity with each of the three areas.

- Common biological indicators were measured in groundwater samples collected from the four "sentinel" monitoring wells (MW-29, MW-30, MW-33, and MW-36) (see Table 2 and Figure 1). These results are consistent with previous sampling events and indicate no appreciable increase in RAMM constituents downgradient of each area.

IV. COC Process Control and Biannual Groundwater Monitoring Program

The COC process control and biannual groundwater monitoring activities were conducted on June 14, 2004 through June 18, 2004, in accordance with the long-term COC process control monitoring program presented in the O&M Plan. 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 were provided in the previous biannual progress report. The monitoring locations are shown on Figure 1.

In accordance with the requirements of the NYSDEC-approved monitoring program, laboratory analytical results for the June 2004 samples were validated. A summary of the validated COC groundwater analytical results is presented in Table 3 and shown on Figures 12 and 13. Copies of the validated analytical laboratory reports associated with the June 2004 sampling event are provided under separate cover. A summary of the COC analytical results is provided below for each of the three areas, and the downgradient perimeter monitoring locations. The presence or absence of non-aqueous phase liquid (NAPL) was also assessed in existing monitoring wells and piezometers 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, except at MW-8S where approximately 0.01 foot of LNAPL was measured. Supplemental remedial activities were conducted in the area of MW-8S, as discussed in Section V.

Area 1

- As shown on Figure 12, the concentrations of most COCs detected in the groundwater samples collected from the monitoring locations within Area 1 during the June 2004 sampling event declined or remained relatively the same during implementation of the in-situ anaerobic bioremediation treatment program. Overall, the COC concentrations detected in groundwater samples collected from monitoring wells within Area 1 were generally low.

- The highest COC concentrations within Area 1 historically have been detected in groundwater samples collected from MW-32 and TW-01. The COC concentrations in the June 2004 groundwater samples collected from these wells ranged between not detected to just slightly above their respective groundwater standards. These data demonstrate a significant decrease in COC concentrations since commencement of the in-situ anaerobic bioremediation treatment program. For example, the aniline concentration detected at MW-32 was 6,300 ppb in September 1998, but aniline has not been detected above the NYSDEC Groundwater Quality Standard at this location since May 2003. Similarly, the aniline concentration detected at TW-01 in February 1999 was 9,000 ppb, but aniline has not been detected above the NYSDEC Groundwater Quality Standard of 5 ppb since October 2002 and the highest concentration detected since September 2000 was 15 ppb.

- In the groundwater sample collected from monitoring well MW-31 (approximately in the center of Area 1) during the June 2004 sampling event, COC concentrations ranged between not detected to an estimated 15 ppb (acetone). The acetone concentration decreased from 1,200 ppb in October 2003 to below the NYSDEC Groundwater Quality Standard in June 2004. The June 2004 acetone concentration is consistent with the concentrations detected in groundwater samples collected from MW-31 prior to October 2003 (see Figure 12). As noted in previous biannual reports, acetone is a common laboratory contaminant.

- The June 2004 COCs analytical data obtained for the monitoring well located immediately downgradient of Area 1 (MW-33) are relatively consistent with previous data collected since March 2001, including the aniline concentration of 2,700 ppb (Figure 12). Due to the aniline concentrations detected at MW-33, supplemental remedial activities were conducted in this area, as further discussed in Section V.

Area 2

- As shown on Figure 12, most COC concentrations detected within Area 2 during the June 2004 sampling event have decreased or remained relatively the same during implementation of the in-situ anaerobic bioremediation treatment program. The COC concentrations detected in groundwater samples collected from monitoring wells within Area 2 were generally low, with the exception of TW-02R. Monitoring well TW-02R is located within Area 2 at a location identified as containing relatively higher concentrations of COCs (see Figure 12) and has typically exhibited the higher concentrations in Area 2 of N,N-dimethylaniline, methylene chloride, and aniline. The N,N-dimethylaniline and methylene chloride concentrations have significantly decreased since 1998: from 61,000 ppb and 86,000 ppb (September 1998), respectively, to not detected and an estimated 4 ppb (June 2004), respectively. The aniline concentrations detected at TW-02R, however, have remained relatively consistent since commencement of the in-situ anaerobic bioremediation treatment activities, including the 82,000 ppb concentration of aniline detected during June 2004. As further discussed in Section V, supplemental remedial activities were conducted at the TW-02R location due to these aniline detections.

- In the groundwater sample collected from monitoring well MW-36 (located downgradient of Area 2) during the June 2004 sampling event, only aniline and N,N-dimethylaniline were detected at concentrations greater than their respective NYSDEC Groundwater Quality Standard. Aniline and N,N-dimethylaniline were detected in June 2004 at concentrations of 33 ppb and 7 ppb, respectively, which are consistent with previous concentrations detected at MW-36 and are just slightly greater than the respective NYSDEC Groundwater Quality Standard. The acetone concentration decreased from 580 ppb in October 2003 to below the NYSDEC Groundwater Quality Standard in June 2004 (22 ppb). As previously mentioned, acetone is a common laboratory contaminant.

Area 3

- As presented on Figure 13, the concentrations of most COCs that were previously detected at Area 3 monitoring locations above their respective NYSDEC Groundwater Quality Standards have decreased or remained relatively the same during the implementation of the in-situ anaerobic bioremediation treatment program.

- At monitoring well MW-8S, located in the center of Area 3 and within the area that has been identified as containing relatively higher concentrations of COCs (see Figure 13), the concentrations of COCs detected in June 2004 are relatively consistent with those detected since commencement of the in-situ bioremediation treatment activities in 1998, with the exception of aniline. Since commencing the treatment activities, the concentrations of aniline have generally increased: 1,200 ppb aniline was detected in September 1998 compared to 56,000 ppb in June 2004. Prior to starting the in-situ anaerobic treatment activities, much greater COC concentrations were detected at this location, including 7,700,000 ppb of methylene chloride in August 1995 compared to 1,200,000 ppb detected in June 2004. As further discussed in Section V, supplemental remedial activities were conducted at the MW-8S location due to the aniline and methylene chloride concentrations.

- At monitoring well MW-28, also located within Area 3 and the area of relatively higher concentrations of COCs, the methylene chloride concentrations detected in groundwater samples have decreased from 64,000 ppb (September 1998) to generally non-detect. Methylene chloride has only been detected once at MW-28 since October 2002 (May 2003 groundwater sample, 52 ppb methylene chloride). Since commencement of the in-situ anaerobic bioremediation treatment program in 1998, aniline concentrations have remained relatively consistent, including the aniline concentration of 910 ppb detected in June 2004. The other COCs have generally been not detected in groundwater samples collected at this location or detected at concentrations just slightly greater than their respective NYSDEC Groundwater Quality Standard. Based on these aniline detections, supplemental remedial activities were conducted at this location, as discussed in Section V.

- The aniline concentration detected in the groundwater sample collected from monitoring well MW-27 in June 2004 is the same as that detected in October 2003 (3,700 ppb). The other COCs detected in the groundwater sample collected from MW-27 in June 2004 were at relatively low concentrations, including acetone and methylene chloride. The COC concentrations ranged from not detected to 20 ppb (N,N-dimethylaniline), which is consistent with concentrations detected since the implementation of the in-situ anaerobic treatment program in 1998. Acetone and methylene chloride concentrations decreased from 170 ppb and 240 ppb (October 2003), respectively, to an estimated 23 ppb and not detected (June 2004), respectively. The June 2004 acetone concentration of 23 ppb does not exceed the NYSDEC Groundwater Quality Standard. Due to the aniline detections, supplemental remedial activities were conducted at this location, as further discussed in Section V.

Downgradient Perimeter Monitoring Locations

- As presented on Figure 13, COCs were not detected at downgradient perimeter monitoring locations above their respective NYSDEC Groundwater Quality Standards, except for benzene at MW-17R, which is hydraulically influenced by the Area 3 closed-loop hydraulic cell. The June 2004 COC results are consistent with the previous results obtained prior to October 2003. The October 2003 aniline and/or N,N-dimethylaniline concentrations detected above their respective NYSDEC Groundwater Quality Standards at downgradient perimeter monitoring locations MW-19, MW-23S, MW-24SR, and PZ-5D are inconsistent with the previous data at these locations and are considered anomalous.

- The aniline and N,N-dimethylaniline non-detect results for MW-18 were rejected during the validation process due to the deviation from a surrogate recovery that was below 10 percent. Aniline and N,N-dimethylaniline have consistently not been detected at MW-18; therefore, this location was not resampled.

V. Supplemental Remedial Activities

To enhance the overall remediation of OU No. 2, the supplemental remedial activities described in the June 2004 biannual report were conducted by BBL Environmental Services, Inc. (BBLES) between August 2 and August 12, 2004 to further address the relatively higher concentrations of COCs consistently detected in groundwater samples collected from monitoring wells MW-8S (Area 3) and TW-02R (Area 2). Additionally, supplemental remedial activities were also conducted immediately downgradient of Area 1 (near monitoring well MW-33) and in the vicinity of monitoring wells MW-27 and MW-28 (Area 3) to address the aniline concentrations detected at these locations. Mr. Chris Mannes of the NYSDEC was onsite August 5, 6, 9, and 10, 2004 during the supplemental remedial activities being conducted near MW-8S and TW-02R.

As detailed below the supplemental remedial activities consisted (in general) of the following activities:

- Well removal/abandonment to allow for soil removal activities in the areas of MW-8S and TW-02R;
- Soil removal in the areas of MW-8S, MW-27, and TW-02R;
- Soil amendment in the area of MW-28; and
- Replacement monitoring well and well point installation for conducting groundwater monitoring and monthly additions of RAMM and Suga-Lik™, respectively.

The supplemental remedial activities were conducted in accordance with the procedures and requirements set forth in the site-specific December 2003 *Health and Safety Plan* (HASP). The NYSDEC-approved August 1999 *Site Operation and Maintenance Plan* included a HASP, which was updated for the December 2003 HASP. The updates generally included the addition of mosquito borne diseases as biological hazards and the addition of benzene as a parameter in the Airborne Contaminant Action Level Table for air monitoring requirements. Daily safety meetings were held to cover the work to be accomplished, the hazards anticipated, the protective clothing and procedures required to minimize site hazards, and emergency procedures. During all intrusive subsurface activities, air monitoring was conducted in the worker breathing zone and at the work area perimeter by BBLES in accordance with the HASP. Air monitoring was conducted using an HNU photoionization detector (PID) for organic vapors; a MiniRAM portable dust monitor for total particulates; and a multiple gas monitor for oxygen, carbon monoxide, and flammable vapors or lower explosive limit (LEL). Air monitoring results indicated that the minimum action levels for these parameters, as set forth in the HASP, were not exceeded during the supplemental work.

A detailed description of the supplemental remedial activities is provided below.

Well Removal/Abandonment

Two shallow monitoring wells (MW-8S and TW-02R) were removed by Parratt-Wolff, Inc. (Parratt-Wolff) on August 3, 2004 and August 5, 2004, respectively, to allow for soil removal activities (discussed below). The locations of MW-8S and TW-02R are identified on Figures 14A and 14B. A 4.25-inch inside-diameter (i.d.) hollow-stem auger (HSA) was used to overdrill and remove monitoring wells MW-8S and TW-02R. A 12-inch outside-diameter (o.d.) HSA was then advanced to a depth of 20 feet bgs to remove soil that had surrounded MW-8S and TW-02R. The boreholes were backfilled with approximately 6 inches of bentonite, which was covered with imported clean material (pea stone) and amended with RAMM. An approximate 1-foot thick lift of bentonite was placed at the top of the upper silt/clay layer and additional pea stone was placed to a depth of approximately 3 feet bgs.

In addition, Parratt-Wolff abandoned deep monitoring well MW-8D on August 3, 2004, as it was adjacent to MW-8S. MW-8D was overdrilled with a 4.25-inch i.d. HSA and was grouted with cement/bentonite grout up to the shallow hydrogeologic unit (approximately 16 feet bgs) and the remaining depth was backfilled similar to MW-8S and TW-02R, as described above. The drill cuttings were collected and containerized in lined roll-offs, characterized, and properly disposed of offsite in accordance with applicable rules and regulations, as further discussed below.

Soil Removal in the Areas of MW-8S, MW-27, and TW-02R

As part of the supplemental remedial activities proposed in the June 2004 biannual report, soil was removed near shallow monitoring wells MW-8S (Area 3) and TW-02R (Area 2). Between August 5, 2004 and August 9, 2004, a 12-inch o.d. HSA was used to remove soil from seven locations near monitoring well TW-02R to a depth of approximately 20 feet bgs. The approximate locations of the seven borings around TW-02R are shown on Figure 14A. This depth below grade is the total depth of monitoring well TW-02R, and is above the silt and clay layer underlying the shallow hydrogeologic unit. Approximately 6 cubic yards of soil were removed from an approximate 8-foot diameter area surrounding monitoring location TW-02R, with the exception of one boring, which was located approximately 6 feet downgradient of the original location of TW-02R. The boreholes were backfilled in the same manner as the boreholes of removed monitoring wells MW-8S and TW-02R described above.

Due to field conditions, a 12-inch o.d. HSA did not effectively remove the soils around MW-8S; therefore, on August 6, 2004 an excavator was used to excavate an area near that well. The approximate location of the excavation area around MW-8S is shown on Figure 14B. The excavation area was approximately 18 feet long by 7 feet wide and the depth of the excavation area was approximately 20 feet at its deepest point (i.e., excavation area was deepest in the center and became shallower towards the sides). This depth below grade is the total depth of monitoring well MW-8S, and is above the silt and clay layer underlying the shallow hydrogeologic unit. Approximately 65 cubic yards of soil were removed from the area surrounding monitoring location MW-8S. The top approximate 6 feet bgs near MW-8S was included in the OU No. 1 remedial activities and therefore the top 6 feet of soil was stockpiled, so it could be placed back into the excavated area. The soil removal area was backfilled with RAMM amended clean material (pea stone) to approximately 7 feet bgs, which was covered with an approximate 1-foot thick lift of a mixture of bentonite and RAMM amended pea stone. The stockpiled soil and additional imported clean fill were placed on top of the bentonite/pea stone mixture.

On August 9, 2004 soil was removed near monitoring well MW-27 and disposed of offsite instead of being amended with RAMM and Suga-Lik™ and placed back in the boreholes, as was proposed in the June 2004 biannual report. Similar to the soil removal activities conducted around TW-02R, a 12-inch o.d. HSA was used to remove approximately 1 cubic yard of soil from two locations near MW-27 to a depth of approximately 20 feet bgs. The approximate soil removal locations in the vicinity of MW-27 are shown on Figure 14B. The boreholes were backfilled in the same manner as the boreholes of removed monitoring wells MW-8S and TW-02R described above, except the pea stone was amended with Suga-Lik™ in addition to RAMM.

The drill cuttings and excavated soil generated during the soil removal activities were handled and disposed of in the same manner as drill cuttings generated during the well removal/abandonment activities described above. The roll-offs were covered at the end of the workday, during precipitation events, and after filling.

Two composite waste characterization samples were collected on August 19, 2004 from the soil contained in the roll-offs. These samples were submitted to Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut for the following analyses:

- Toxicity Characteristic Leaching Procedure (TCLP) Metals by United States Environmental Protection Agency (USEPA) Method 1311 and 6000/7000 Series Methods;
- TCLP volatile organic compounds (VOCs) by USEPA Methods 1311 and 8260;
- TCLP semi-volatile organic compounds (SVOCs) by USEPA Methods 1311 and 8270;
- TCLP Pesticides and Herbicides by USEPA Methods 1311, 8081, and 8150;
- PCBs by USEPA Methods 3545-3550 and 8082;
- Ignitability by USEPA Method 1010;
- Reactivity Sulfide and Cyanide by USEPA Method 7.3; and
- Corrosivity by USEPA Methods 423/150.1.

A copy of the analytical data package for the waste characterization samples is provided in Attachment 1. The analytical results of the waste characterization samples indicated that the excavated soil does not exhibit hazardous characteristics. The soil contained in the lined roll-offs was transported to CWM Chemical Services, LLC in Model City, New York by Hazmat Environmental Group Inc. on October 5 and 7, 2004. Copies of the completed waste manifests (04001 through 04004) and corresponding bills of lading are provided in Attachment 2.

Soil Amendment in the Area of MW-28

As proposed in the June 2004 biannual report, the soil in the vicinity of monitoring well MW-28 was amended on August 4, 2004 by advancing a 12-inch o.d. HSA to a depth of approximately 20 feet and adding RAMM and Suga-Lik™ into the subsurface at two locations (approximate locations shown on Figure 14B). The two boreholes were backfilled with approximately 6 inches of bentonite, which was covered with the drill cuttings (soil) from these boreholes, amended with RAMM and Suga-Lik™. The drill cuttings were backfilled (returned) into their respective borehole to the depths they were removed from (e.g., soil removed from the bottom of the borehole was returned to the bottom of the borehole). Any drill cuttings not returned to the boreholes were managed and disposed of with the soil removed from the areas surrounding monitoring locations MW-8S and MW-27 (discussed above). An approximate 1-foot thick lift of bentonite was placed at the top of the upper silt/clay layer and additional drill cuttings were placed to the top of the boreholes.

Replacement Monitoring Well and Well Point Installations

Parratt-Wolff installed replacement monitoring wells (MW-8SR and TW-02RR) for abandoned monitoring wells TW-02R and MW-8S on August 10, 2004 at the approximate locations shown on Figures 14A and 14B, respectively. The replacement wells were constructed similar to their respective previously existing monitoring wells, and these locations will continue to be sampled biannually for COCs as part of the Process Control Monitoring Program. The well construction logs for these two replacement wells are provided in Attachment 3. MW-8D was not replaced, as identified in the previous biannual report (June 2004) the hydraulic data obtained over the 6-year operating history of the treatment system in Area 3 consistently indicated no discernable effect on the hydraulic gradient of the deep hydrogeologic unit. The newly installed wells were appropriately developed after installation.

In addition, eight well points were installed at the site to allow for monthly additions of RAMM and Suga-Lik™ (approximate locations are shown on Figures 14A and 14B). Six well points (WP-1 through WP-3 and WP-6 through WP-8) were installed in the shallow hydrogeologic unit around both monitoring wells MW-28 and MW-27 (Area 3) on August 4, 2004 and August 10 and 11, 2004, respectively. Two well points (WP-4 and WP-5) were also installed on August 9, 2004 in the shallow hydrogeologic unit around MW-33 instead of amending soil around MW-33 with RAMM and Suga-Lik™ as was proposed in the June 2004 biannual report. The well points were constructed of a 1-inch diameter black iron riser approximately 10 feet in length joined to a 10-foot stainless steel screened (slotted) interval at the bottom of the well point. The well construction logs for these eight well points are also provided in Attachment 3. The monthly additions of RAMM and Suga-Lik™ at these eight new well points began in September 2004 and are anticipated to enhance the anaerobic biodegradation of the aniline present in the shallow hydrogeologic unit at these locations.

VI. Conclusions

The process control monitoring data presented in this Biannual Report will continue to be used to monitor the effectiveness of the in-situ anaerobic bioremediation treatment program. The conclusions presented below 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.

- The biological data obtained since commencement of the in-situ anaerobic bioremediation treatment program since 1998 have consistently verified that the saturated soil/groundwater conditions within the shallow hydrogeologic unit at Areas 1, 2, and 3 have been and continue to be conducive to degradation of the COCs by anaerobic microbial populations. Additionally, these data have consistently confirmed that there are sufficient carbon, electron acceptors, and nutrients to sustain microbial activity in each of the three areas.

- Aniline and N,N-dimethylaniline were not detected above the NYSDEC Groundwater Quality Standards at the perimeter sampling locations in June 2004, which is consistent with perimeter groundwater data obtained prior to October 2003 (in some cases since 1989). The aniline and/or N,N-dimethylaniline detections at concentrations above their respective NYSDEC Groundwater Quality Standards obtained during the October 2003 sampling event at downgradient perimeter monitoring locations MW-19, MW-23S, MW-24SR, and PZ-5D are inconsistent with the previous data at these locations and are considered anomalous.

- The COC concentrations detected in the groundwater samples collected from Area 1 since the in-situ anaerobic treatment program began in 1998 have generally decreased to or remained at concentrations ranging from not detected to just slightly greater than their respective NYSDEC Groundwater Standard. The data obtained from the monitoring locations within Area 1 demonstrate a significant decrease in COC concentrations since commencement of the in-situ anaerobic bioremediation treatment program.

- The aniline concentration detected in June 2004 (2,700 ppb) in the groundwater sample collected from the monitoring well located immediately downgradient of Area 1 (MW-33) remained generally consistent with the concentrations detected since March 2001. Based on these aniline concentrations, two well points were installed during the supplemental remedial activities in the vicinity of MW-33 to be used for monthly RAMM and Suga-Lik™ amendment activities. These activities started in September 2004.

- The COC concentrations within Area 2 have decreased or remained relatively the same during implementation of the in-situ anaerobic treatment program, with the exception of the aniline concentrations detected at monitoring location TW-02R. The data obtained from TW-02R demonstrate a significant decrease in N,N-dimethylaniline and methylene chloride concentrations since commencement of the in-situ anaerobic bioremediation treatment program. The aniline concentrations detected in groundwater samples collected from TW-02R increased from 38,000 ppb in September 1998 to 82,000 ppb in June 2004.

- The concentrations of most COCs that have been detected at Area 3 monitoring locations above their respective NYSDEC Groundwater Quality Standard have decreased or remained relatively the same since commencement of the in-situ anaerobic bioremediation treatment program in 1998. However, during the same time period aniline concentrations detected at monitoring location MW-8S increased from 1,200 ppb in September 1998 to 56,000 ppb in June 2004.

- The concentrations of methylene chloride and aniline at MW-8S and aniline concentrations at TW-02R have remained significantly higher than their respective NYSDEC Groundwater Quality Standard since commencement of the in-situ anaerobic bioremediation treatment activities, even with relatively high levels of biomass present. The relationship between relatively high COC concentrations and biomass levels suggest anaerobic biological processes were active, but may not have been efficiently removing COC mass at these two locations. In August 2004, approximately 70 cubic yards of soil were removed and disposed of offsite as part of the supplemental remedial activities conducted in the vicinity of MW-8S and TW-02R to enhance ongoing anaerobic bioremediation activities. The supplemental remedial activities also included the addition of RAMM amended pea stone to these soil removal areas.

- Since the commencement of the in-situ anaerobic bioremediation treatment activities, the aniline concentrations at MW-27 have increased and have consistently been relatively high at MW-28. Based on these aniline concentrations, approximately 1 cubic yard of soil was removed from the vicinity of MW-27 for offsite disposal and RAMM and Suga-Lik™ amended pea stone was added to this soil removal area as part of the supplemental remedial activities conducted to enhance ongoing remediation activities. In addition, RAMM and Suga-Lik™ was added to soil from two locations in the vicinity of MW-28 to supplement (enhance) ongoing remediation activities. Also, as part of the supplemental remedial activities, six well points were installed around MW-27 and MW-28 to be used for monthly RAMM and Suga-Lik™ amendments activities, which started in September 2004.

VII. Recommendations

Based on the process control monitoring data obtained to date and the conclusions summarized above, the addition of RAMM and/or Suga-Lik™ in each of the three areas and the hydraulic control activities in Area 3 will continue to be implemented consistent with the operation procedures followed since January 2002 and described in Section I. Monthly additions of RAMM and Suga-Lik™ began in September 2004 at the eight new well points (WP-1 through WP-8) installed near MW-27 and MW-28 (Area 3), and MW-33 (downgradient of Area 1).

As discussed in this report and summarized in Table 4, the ongoing monitoring activities conducted at the site are included in the Biannual Groundwater Monitoring Program and the Process Control Monitoring Program. The activities included in the Biannual Groundwater Monitoring Program will continue, and include the biannual collection of chemical and hydraulic data from downgradient perimeter wells/piezometers to determine whether or not groundwater that contains concentrations of COCs in excess of their respective NYSDEC Groundwater Quality Standard is migrating beyond the site boundary. The Process Control Monitoring Program has consisted of collecting COC, microbiological, and hydraulic groundwater data on a biannual basis to assess the effectiveness of the in-situ anaerobic bioremediation activities.

Changes to the Process Control Monitoring Program were proposed in the June 2004 Biannual Report and were anticipated to be implemented during the second reporting period of 2004. Based on your November 1, 2004 conversation with BBL (Cathy Geraci), the Process Control Monitoring Program during the second reporting period of 2004 has been implemented consistent with the monitoring procedures followed since October 2002 (summarized in Table 4). BBL understands that the NYSDEC is evaluating the proposed revised Process Control Monitoring Program and will have a decision in the near future. The proposed revised Process Control Monitoring Program is detailed in Table 5 and the proposed changes (as well as the basis for the change) are summarized below.

- The biological data (i.e., microbiological analytes, indicator compounds, and permanent gases) obtained during the 6 years since commencement of the in-situ anaerobic bioremediation treatment program have consistently verified that the saturated soils/groundwater of the shallow hydrogeologic unit within each area are conducive to anaerobic bioremediation. Additionally, these data have consistently confirmed that there are sufficient carbon, electron acceptors, and nutrients to sustain microbial activity in each of the three areas. Because the biological data in each of the three areas have been consistent, the biological monitoring activities are proposed to be eliminated from the Process Control Monitoring Program.

- The COC sampling schedule is proposed to be changed from biannual to annual at upgradient monitoring location MW-1 and monitoring locations MW-3S, MW-9S, MW-29, MW-30, and MW-34, due to the consistent concentrations of COCs detected below or slightly higher than the NYSDEC Groundwater Quality Standards at these monitoring locations.

- The COC sampling at monitoring location TW-01 is proposed to be discontinued because of the low COC concentrations detected since September 2000 and its close proximity to MW-32. The COC concentrations detected at these two locations in Area 1 have been similar over the past 6 years, except that aniline has consistently been detected at higher concentrations in groundwater samples collected from MW-32 since March 2000. Monitoring well MW-32 has been and will continue to be sampled biannually under the Process Control Monitoring Program.

The second 2004 biannual monitoring event was conducted between November 1, 2004 and November 5, 2004. Consistent with the previous sampling events, BBL coordinated the schedule of the sampling event with you and Mr. Chris Mannes (NYSDEC - Region 7 Office). A summary of the O&M activities and the results of the process control monitoring activities will continue to be presented to the NYSDEC on a biannual basis.

Prior to coordinating the schedule for the first sampling event in 2005, BBL will follow up with you regarding NYSDEC's approval of the proposed changes for the Process Control Monitoirng Program. In the interim, if you have any questions or require additional information, please do not hesitate to contact me or Cathy Geraci at (315) 446-9120.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

David J. Ulm /mag

David J. Ulm
Senior Vice President

CWS/jlc
Attachments

cc: Mr. Jim Burke, P.E., New York State Department of Environmental Conservation
Mr. Gerald J. Rider, Jr., New York State Department of Environmental Conservation
Mr. Chris Mannes, New York State Department of Environmental Conservation
Ms. Henriette Hamel, R.S., New York State Department of Health
Ms. Jean A. Mescher, McKesson Corporation
Mr. Christopher R. Young, P.G., de maximis, inc.

TABLE 1

SUMMARY OF SELECT GROUNDWATER LEVEL MEASUREMENTS

MCKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK

Canal	393.39*	362.91	363.37	363.72	363.08	363.08	362.94		362.78	362.94			362.84	363.27		363.14	362.21	363.11			363.22	362.78	363.73	363.75	362.75^	363.24	363.01	362.96	364.59	363.64	364.17	362.19	^^	363.34	363.34	363.39
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	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	361.50	361.42	362.05	361.90	361.91	361.86	362.11
MW-3S	376.54	365.93	366.26	367.82	366.20			365.29							365.25	365.67	366.81	365.67	365.25		365.26		357.10						367.70	366.26	367.50	364.26	366.27	366.38	366.98	366.65
MW-3D	375.56	365.63	365.87	366.16			364.97	364.85						365.08	365.00	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	364.55	365.10	363.92	365.10	365.53	365.05	365.59
MW-6D	377.07	365.75	366.01	366.29										365.25	365.15	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	364.62	365.21	364.07	365.31	365.75	365.24	365.80
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	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	364.51	365.01	363.82	^^	365.30	364.83	365.39
MW-9D	376.76***	365.78					365.14	365.10						365.25	365.16	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	364.47	365.10	364.00	365.31	365.79	365.26	365.85
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	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	364.44	364.92	363.73	364.81	365.17	364.75	365.26
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	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	363.89	364.33	363.09	364.15	364.38	363.89	364.34
MW-18	372.57	362.64													361.90	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	362.09	362.50	361.37	362.26	362.69	362.26	362.62
MW-19	376.00	362.42													361.78	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	362.11	362.57	361.51	362.52	361.91	362.46	362.89
MW-23I	372.77	365.04	365.34	365.72			364.34		364.45	364.16			364.43	364.43	364.34	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	364.34	364.80	363.62	364.60	365.01	364.56	364.99
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	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	363.38	363.68	362.50	362.26	363.31	362.81	363.04
MW-24DR	375.14	365.41													364.63	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	364.43	364.90	363.71	364.75	365.13	364.69	365.19
MW-24SR	375.55	365.15	365.32	365.66	364.91	364.45	364.27		364.20				364.36	364.47	364.37	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	364.40	364.86	363.64	364.69	365.03	364.62	365.12
MW-25D	373.67	365.43													364.74	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	364.57	365.02	363.82	364.82	365.24	364.74	365.26
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	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	363.83	364.21	362.74	363.61	363.67	363.19	363.49
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	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	364.43	364.94	363.73	364.81	365.23	364.78	365.28
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	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	364.47	365.03	363.81	365.05	365.49	365.02	365.53
PZ-8D	375.83	365.90	366.11	366.35			365.25	365.13	365.83					365.35	365.27	365.33	365.48	365.33	365.19	365.78	365.08	365.00														
PZ-9D	377.29	365.73					365.47	365.28						365.12	365.03	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	364.14	364.79	363.71	365.08	365.64	365.09	365.68
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	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	363.05	363.22	362.59	^^	363.40	363.57	363.18
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	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	363.24	363.40	362.65	363.39	363.47	363.89	363.21
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	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	365.38	366.26	364.19	365.65	365.76	365.44	366.07
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	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	365.41	366.21	364.21	365.65	365.84	365.53	366.11
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	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	364.63	364.77	363.47	364.94	365.00	366.92	364.58
PZ-F	377.06	366.17					365.56	365.50						365.37	365.27	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	365.51	366.29	364.29	366.25	366.41	365.46	366.65
PZ-G	377.16	366.21					365.66	365.60						365.46	365.36	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	365.53	366.22	364.36	366.35	366.46	365.43	366.68
PZ-HR	376.99	366.16					365.54							365.44	365.34	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	365.46	366.19	364.24	366.22	366.41	365.50	366.62
PZ-I	375.15	366.56					365.86	365.64						365.88	365.57	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	366.16	367.05	364.22	366.58	366.90	365.97	367.01
PZ-J	374.89	366.15					365.53	365.40						365.53	365.39	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	365.18	365.89	364.21	365.96	366.73	365.61	366.45
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	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	363.19	363.48	362.56	363.25	363.36	363.12	363.13
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	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	362.96	363.26	362.53	363.42	363.25	363.06	363.04
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	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	363.37	363.62	362.82	363.60	363.77	363.66	363.61
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	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	365.29	366.13	364.09	365.54	365.74	364.48	365.95
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	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	363.63	363.98	362.75	363.61	363.53	363.36	363.43
PZ-P	376.89	366.25					365.65	365.60						365.52	365.39	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	365.48	366.19	364.25	366.25	366.45	365.53	366.65
PZ-Q	377.61	366.23					365.64	365.57						365.45	365.35	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	365.70	366.41	364.41	366.40	366.55	365.38	366.77
PZ-R	377.05	366.23		366.94			365.65	365.57						365.50	365.38	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	365.58	366.31	364.31	366.34	366.46	365.31	366.72
PZ-S	378.13	366.19					365.57	365.52						365.43	365.35	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	365.53	366.29	364.31	366.29	366.42	365.42	367.18
PZ-T	376.25	366.14					365.54	365.43						365.52	365.38	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	365.37	366.10	364.20	366.16	366.38	365.74	366.54
PZ-U	375.35	365.99		366.81			365.50	365.33						365.37	365.30	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	365.23	365.96	364.18	366.00	365.83	365.66	366.43
PZ-V	375.78	366.07					365.48	365.35						365.43	365.29	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	365.24	365.97	364.15	365.98	366.71	365.84	366.44
PZ-W	375.78	366.07					365.46	365.31						365.41	365.28	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	365.12	365.86	364.09	365.88	366.18	365.49	366.36

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 ground-water level in PZ-8D was not measured on 3/27/00 and 6/1/00 because this piezometer was damaged. This piezometer was 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. ** = 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.
9. *** = 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.
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. Monitoring location MW-8S was decommisioned on August 3, 2004 and replaced by MW-8SR on August 10, 2004.

Table 2

Biological Monitoring Data
6/14 - 6/18/04

McKesson Envirosystems
Former Bear Street Facility
Syracuse, New York

Monitoring Location	Biological Parameters																				
	PLFA (Pmol/mL)	PHA (Pmol/mL)	Turnover Rate	Environmental Stress	Nitrate (mg/L)	Nitrogen (mg/L)	Total Fe (mg/L)	Dissolved Fe (mg/L)	Total Mn (mg/L)	Dissolved Mn (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Carbon Dioxide (mg/L)	Methane (mg/L)	Potassium (mg/L)	Ortho-Phosphate (mg/L)	Ammonia (mg/L)	pH	D.O. (mg/L)	Temp. (C)	ORP (mV)	Cond. (mS/cm)
AREA 1																					
MW-1	7	ND	0.20	0.11	<0.200	15	R	R	R	R	95.3	<2.00	32	0.000048	--	--	--	6.98	1.07	16.47	-53	1.19
TW-01	4	ND	0.12	0.07	<0.200	19	2.91	0.728	0.944	0.864	273	<2.00	98	0.56	7.59	0.95	1.14	6.92	0.35	11.73	-102	1.58
MW-31	1	ND	0.00	0.08	<0.400	8.7	6.70	0.706	1.80	1.56	43.6	<2.00	240	9.7	6.00	<0.04	1.57	6.92	0.43	14.16	-86	3.11
MW-32	1	ND	0.00	0.09	<0.200	19	4.09	1.09	1.05	1.08	275	<2.00	120	0.78	5.20	0.140	0.921	6.59	0.35	11.87	-104	1.78
MW-9S	27	ND	0.08	0.02	<0.400	12	11.3	3.47	1.66	1.59	24.8	<2.00	160	4.5	3.95	0.099	0.270	6.73	1.42	15.65	-126	1.96
MW-33	--	--	--	--	2.33	4.3	0.898	0.332	0.892	0.782	153	<2.00	420	12	8.88	0.18	0.392	6.32	0.33	15.30	-333	4.80
AREA 2																					
TW-02R	113	ND	0.07	0.04	<0.200	14	1.76 J	2.48 J	R	R	7.92	<2.00	240	6.8	9.80	0.13	77.9	6.74	0.49	13.51	-185	4.52
MW-34	4	ND	0.01	0.09	<0.200	12	6.62	1.11	8.18	0.860	14.1	<2.00	190	3.4	29.3	0.10	7.58	6.57	0.37	14.09	-177	2.20
MW-35	3	ND	0.14	0.09	<0.200	18	0.849	0.524	0.497	0.406	40.6	<2.00	79	0.0076	3.44	0.16	0.942	6.92	0.92	14.56	-67	0.83
MW-36	--	--	--	--	0.273	9.8	0.244	0.139	4.01	3.02	72.0	<2.00	310	4.7	22.6	0.69	18.1	6.64	0.75	13.95	-142	4.17
AREA 3																					
MW-3S	12	ND	0.18	0.08	0.465	15	3.15	1.90	2.64 J	3.21 J	9.08	<2.00	58	2.4	--	--	--	6.73	0.68	12.88	-114	0.47
MW-8S	192	ND	0.26	0.11	4.48	6.8	135	50.9	3.30	3.19	28.7	<2.00	630	6.9	14.70	0.98	272	6.05	0.69	14.03	-144	6.85
MW-27	3	ND	0.07	0.05	<1.00	13	20.8	2.84	1.03	0.978	24.7	<2.00	280	6.7	6.40	0.074	6.77	6.45	0.31	12.40	-268	3.30
MW-28	9	ND	0.18	0.11	<1.00	10	41.6	3.41	1.63	1.45	41.9	<2.00	300	5.2	5.77	<0.04	8.50	6.49	1.50	13.95	-118	3.81
MW-29	--	--	--	--	1.15	15	0.160	0.138	0.418	0.345	175	<2.00	120	2.8	9.10	0.08	0.821	6.71	0.25	13.51	-339	3.11
MW-30	--	--	--	--	1.26	18	0.267	0.146	0.166	0.0958	136	<2.00	120	2.4	8.40	0.16	0.768	6.79	0.25	11.80	-332	2.99

Notes:

1. PLFA = Phospholipid fatty acids.
2. PHA = Poly-b-hydroxy alkanoate.
3. Turnover Rate = The summation of cy17:0/16:1w7c plus cy19:0/18:1w7c.
4. Environmental Stress = The summation of 16:1w7t/16:1w7c plus 18:1w7t/18:1w7c.
5. Fe = Iron.
6. Mn = Manganese.
7. D.O. = Dissolved oxygen.
8. Temp. = Temperature.
9. ORP = Oxidation/reduction potential.
10. Cond. = Conductivity.
11. Pmol/mL = Picomoles per milliliter.
12. mg/L = Milligrams per liter.
13. C = Degrees Celsius.
14. mV = Millivolts.
15. mS/cm = Millisiemens per centimeter.
16. -- = Not measured.
17. < = Parameter was not detected at the listed limit.
18. J = Result is estimated, reported value is less than practical quantitation limit (PQL).
19. ND = Not detected.
20. R = The total iron and/or manganese detected at MW-1, TW-02R, and MW-3S were less than the concentrations of dissolved iron and/or manganese; based on the deviations these data were rejected or estimated accordingly.

Table 3

Summary of Historic Groundwater Monitoring Data

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*	Methanol	Trichloro-ethene	Aniline	N,N-dimethyl-aniline	Methylene Chloride
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 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	<5	<5	<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
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	31	<1,000	<10	790	170	<10
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	15	2 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)[1]	4 J	<10
	4/02			<12	<5	<5	<5	<10	370 J	<5	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 J	<10	<10	<10	<20	<1,000	<10	0.8 J	<6	<10
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

Table 3

Summary of Historic Groundwater Monitoring Data

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
MW-5[F]	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	34	<11	<1
	11/89			<100	<1	<1	<1	<1	<1,000	<1	17	<10	<1
MW-6[C]	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[C]	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[C]	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)[N]	11/89			470,000	<10,000	<10,000	<10,000	<10,000	300,000	<10,000	8,500	52,000	2,800,000
(Replaced by MW-8SR)	11/91			<1,000,000	<10,000	<10,000	<10,000	<30,000	150,000	<10,000	8,000	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	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 J	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	990,000
	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	<1,000	3,100	80,000	21,000 J	320,000
	5/03			<12	20 J	600 D	81	300	<1,000	6,700 D	79,000 D	29 J	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 E J	110	400	<1,000	5,900 D	56,000	51,000	1,200,000 D
MW-9[C]	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	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 J	<10
	3/00			<10	2 J	2 J	11	21	<1,000 J	<10	2 J	9 J	<10
	9/00			<10 J	11 J	2 J	6 J	18 J	<1,000	<10 J	1 J	6 J	<10 J
	3/01			<10	1 J	3 J	17	61	<1,000	<10	2 J	11	<10
	9/01			<10	10	3 J	7 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	2 J	<10
	5/03			<12	11	<5	7	18	<1,000	<5	0.9 J	3 J	<5
	10/03			<12	2 J	<5	5	19	<1,000	<5	1 J	<5	<5
	6/04			14 J	6 J	2 J	8 J	19 J	<1,000	<10	<5	<5	<10
MW-10[C]	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	2	<3	<1,000	<1	230	<10	41
	8/95			<1,000	<25 UD	<25 UD	<25 UD	<25 UD	<1,000	<25 UD	<5	<10	350 D

Table 3

Summary of Historic Groundwater Monitoring Data

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
MW-11[C]	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[C]	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)[N]	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 J	<5	<10	40
MW-13S	11/89	368.7	359.1	<100	3	<1	<1	<1	<1,000	<1	<52	<52	<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-14D[F]	1/89	359	349.4	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
MW-15S	1/89	370	360.25	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<52	<52	<1
MW-16D[F]	1/89	350.8	341.2	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
MW-17[F]	11/90	365.7	356.1	<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
(Replaced by MW-17R)	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	<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	<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)[K]	110 (<5)[K]	<5
	10/02			<25 J	14	<10	<10	<20	<1,000	<10	<5[L]	<5[L]	<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

Table 3

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Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Screen Elev. (ft. AMSL) Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-dimethyl-aniline	Methylene Chloride
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
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<10	<10	<10	<20	**720 J**	<10	**280 D (<5)[K]**	**200 D (<5)[K]**	<10
	10/02			**6 J**	<10	<10	<10	<20	<1,000	<10	<5[L]	<5[L]	<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
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]	**5 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[L]	<5[L]	<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

Table 3

Summary of Historic Groundwater Monitoring Data

McKesson Envirosystems
Former Bear Street Facility
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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
MW-20[F]	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[F]	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
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 J	<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[L]	<5[L]	<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
MW-23I	12/94	341.2	336.2	<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	<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[L]	<5[L]	<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

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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
MW-24S[F]	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[K]			NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[L]	<5[L]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**16**	<6	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
MW-24D[F]	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[K]			NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[L]	<5[L]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**0.5 J**	<5	<5
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
	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	<10	<10	<10	<20	<1,000	<10	<5[L]	<5[L]	<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

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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
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
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	<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	5	<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
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	8,100 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	8 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

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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
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	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
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
	10/03			<12	<5	<5	<5	<10	<1,000	<5	4 J	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
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
MW-32	9/98	364	356	<10	16	2 J	5 J	3 J	<1,000	<10	6,300 D	4 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	800 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

Table 3

Summary of Historic Groundwater Monitoring Data

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^	Methanol	Trichloro-ethene	Aniline	N,N-dimethyl-aniline	Methylene Chloride
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	8 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
TW-01	12/96	365.1	355.4	<10	82	4 J	6 J	4 J	<1,000	<10	2,090 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	4 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
TW-02[F]	12/96	363.3	353.3	53	10	77	16	65	<1,000	585 D	15,900 JD	3,920 D	42,449 D
(Replaced by TW-02R)[N]	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
(Replaced by TW-02RR)	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
	4/02			240	19	65	23	96	<1,000	<5	1,090,000 D	<5,300	14
	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

Table 3

Summary of Historic Groundwater Monitoring Data

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
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
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)[K]	<5 (<5)[K]	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[L]	<5[L]	<10
	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
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[L]	<5[L]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	46	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10

Table 3

Summary of Historic Groundwater Monitoring Data

McKesson Envirosystems
Former Bear Street Facility
Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Screen Elev. (ft. AMSL) Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-dimethyl-aniline	Methylene Chloride
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[L]	<5[L]	<10
	10//03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
PZ-8S[G]	9/98	362.6	357.7	<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
PZ-11D[C]	11/89	352.09	347.19	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-11S[C]	11/89	359.09	354.19	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-12D[C]	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[C]	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[F]	11/89	349.4	344.4	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-13S[F]	11/89	359.5	354.5	<100	<1	2	<1	2	<1,000	<1	<11	<11	<1
NYSDEC Groundwater Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5

Table 3

Summary of Historic Groundwater Monitoring Data

McKesson Envirosystems
Former Bear Street Facility
Syracuse, New York

General Notes:

1. Concentrations are presented in micrograms per liter (ug/L), which is equivalent to parts per billion (ppb).
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 mg/l. 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. Replacement wells for MW-8S and TW-02R were installed 8/04.
9. 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 percent. This well was 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.

[C] = 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).

[F] = 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.

[G] = Piezometer PZ-8S was decommissioned 8/2000.

[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] = 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.

[K] = 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.

[L] = 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.

[M] = 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.

[N] = Wells MW-8S , MW-8D, and TW-02R were abandoned 8/04.

Abbreviations:

AMSL = Above Mean Sea Level (NGVD of 1929)

NA = Not available.

ND = Not detected.

NS = Not sampled.

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.

R = The sample results were rejected.

Table 4
Long-Term Hydraulic, Biological, and COC Process Control Monitoring Schedule

McKesson Envirosystems
Former Bear Street Facility
Syracuse, New York

Monitoring Location	Annual Sampling Schedule	
	First Sampling Event	Second Sampling Event
Upgradient		
MW-1	B1, B2, C	B1, B2, C
MW-3S	B1, B2, C	B1, B2, C
MW-3D	H	H
Area 1		
TW-01	B1, B2, C	B1, B2, C
MW-6D	H	H
MW-9S	B1, B2, C	B1, B2, C
MW-9D	H	H
MW-31	B1, B2, C	B1, B2, C
MW-32	B1, B2, C	B1, B2, C
MW-33	B2, C	B2, 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-02R	B1, B2, C	B1, B2, C
PZ-9D	H	H
MW-34	B1, B2, C	B1, B2, C
MW-35	B1, B2, C	B1, B2, C
MW-36	B2, C	B2, 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

Table 4
Long-Term Hydraulic, Biological, and COC Process Control Monitoring Schedule

McKesson Envirosystems
Former Bear Street Facility
Syracuse, New York

Monitoring Location	Sampling Schedule	
	First Sampling Event	Second Sampling Event
Area 3		
MW-8S	B1, B2, C	B1, B2, C
MW-8D	H	H
MW-27	B1, B2, C	B1, B2, C
MW-28	B1, B2, C	B1, B2, C
MW-29	B2, C	B2, C
MW-30	B2, C	B2, C
PZ-A	H	H
PZ-B	H	H
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[a]
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	
PZ-4D	C, H	H
PZ-5S		C
PZ-5D	H	C, H

Table 4
Long-Term Hydraulic, Biological, and COC Process Control Monitoring Schedule

McKesson Envirosystems
Former Bear Street Facility
Syracuse, New York

Notes:

1. H = Hydraulic Monitoring (Groundwater Level Measurements).

2. B1 = Biological Monitoring for Poly-b-hydroxy alkanoate (PHA) and Phospholipid Fatty Acid (PLFA).

3. B2 = Biological Monitoring for Common Biological Indicators and permanent gases including nitrate, total/dissolved iron, total/dissolved manganese, sulfate/sulfide, nitrogen, carbon dioxide, methane, potassium, ortho-phosphate, and ammonia.

4. C = Monitoring for the Chemicals of Concern (COCs).

5. The hydraulic monitoring identified in this table was conducted on a quarterly basis for the first year of the long-term process control monitoring program, and has been/will be conducted on a semi-annual basis thereafter. The hydraulic monitoring also includes measuring the conductivity of groundwater recovered from Area 3 from a sampling port located before the equalization tank.

6. Field groundwater parameters including pH, temperature, conductivity, dissolved oxygen (DO), and oxidation/reduction potential (ORP) are measured during each biological sampling event.

7. Each of the monitoring wells and piezometers used for hydraulic, biological and COC monitoring during the semi-annual monitoring event are checked for the presence (if any) of non-aqueous phase liquid (NAPL).

8. Based on the results obtained, the scope and/or the frequency for the hydraulic, biological, 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).

9. This table is based on the NYSDEC-approved *Operation and Maintenance (O&M) Plan* (BBL, Revised August 1999), including the NYSDEC-approved December 29, 1999 Addendum.

10. Piezometers PZ-8S/PZ-8D were identified in the *O&M Plan* to be sampled during the long-term process control monitoring program; however, as presented in the August 2000 *Biannual Process Control Monitoring Report*, these piezometers were damaged and no longer needed for the process control monitoring program. These piezometers were abandoned in August 2000.

11. As presented in the August 2000 *Biannual Process Control Monitoring Report*, monitoring well MW-17R was identified in the *O&M Plan* to be sampled only during the first biannual monitoring event; however, because benzene has been detected at concentrations slightly exceeding the NYSDEC Groundwater Quality Standard since the March 2000 sampling event, this well was also sampled during the second biannual monitoring event conducted during 2000 and 2001 (i.e., September 2000 and September 2001).

12. Monitoring wells MW-24SR and MW-24DR were additionally sampled for N,N-dimethylaniline and aniline on June 18, 2002 because N,N-dimethylaniline and/or aniline was detected at nearby downgradient perimeter monitoring locations during the April 2002 sampling event.

13. Monitoring well PZ-4S was additionally sampled for COCs on October 10, 2002 because aniline was detected at this location during the April 2002 sampling event.

14. Monitoring wells MW17R, MW-18, MW-19, MW-23I, MW-23S, MW-24SR, MW-24DR, MW-25S, PZ-4S, PZ-5S, and PZ-5D were additionally sampled for N,N-dimethylaniline and aniline on January 20, 21, and 23, 2003 because the October 2002 N,N-dimethylaniline and aniline results for these locations were rejected during the validation process due to matrix spike and matrix spike duplicate recoveries below control limits.

15. Monitoring locations MW-24SR and PZ-5D were additionally sampled for COCs during the June 2004 COC biannual sampling event, because there were aniline detections at these locations during the October 2003 sampling event.

Table 5

Revised Long-Term Hydraulic and COC Process Control Monitoring Schedule

McKesson Enviroystems
Former Bear Street Facility
Syracuse, New York

Monitoring Location	Annual Sampling Schedule	
	First Sampling Event	Second Sampling Event
Upgradient		
MW-1	C	
MW-3S	C	
MW-3D	H	H
Area 1		
MW-6D	H	H
MW-9S	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	
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

Table 5

Revised Long-Term Hydraulic and COC Process Control Monitoring Schedule

McKesson Enviroystems
Former Bear Street Facility
Syracuse, New York

Monitoring Location	Sampling Schedule	
	First Sampling Event	Second Sampling Event
Area 3		
MW-8SR	C	C
MW-27	C	C
MW-28	C	C
MW-29	C	
MW-30	C	
PZ-A	H	H
PZ-B	H	H
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	
PZ-4D	C, H	H
PZ-5S		C
PZ-5D	H	C, H

Table 5

Revised Long-Term Hydraulic and COC Process Control Monitoring Schedule

McKesson Enviroystems
Former Bear Street Facility
Syracuse, New York

Notes:

1. H = Hydraulic Monitoring (Groundwater Level Measurements).

2. C = Monitoring for the Chemicals of Concern (COCs).

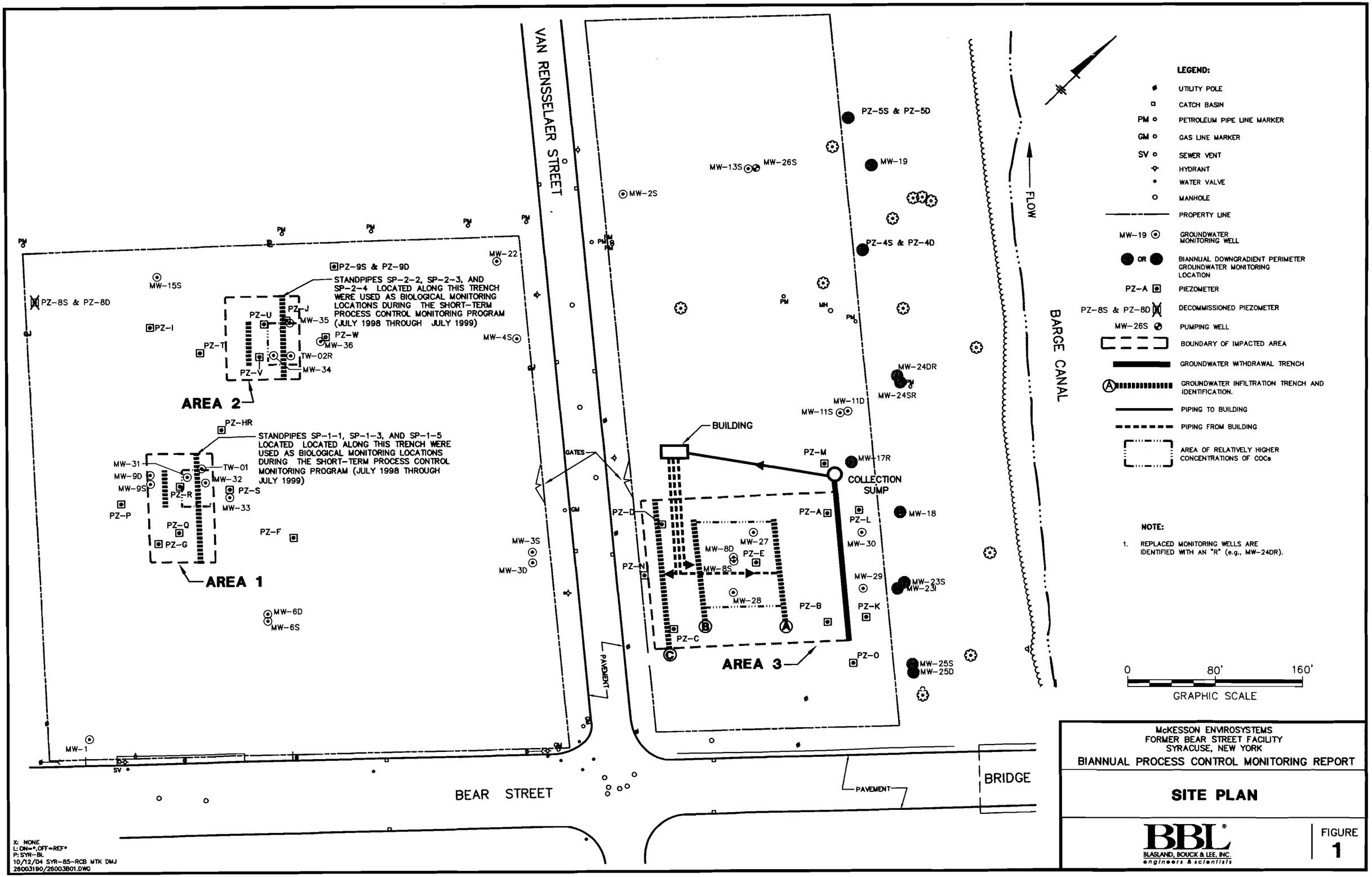
3. The hydraulic monitoring identified in this table will be conducted on a semi-annual basis. The hydraulic monitoring also includes measuring the conductivity of groundwater recovered from Area 3 from a sampling port located before the equalization tank.

4. Field groundwater parameters including pH, temperature, conductivity, dissolved oxygen (DO), and oxidation/reduction potential (ORP) are measured during each COC sampling event.

5. 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 (NAPL).

6. 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).

7. This table is based on the NYSDEC-approved *Operation and Maintenance (O&M) Plan* (BBL, Revised August 1999), including the NYSDEC-approved December 29, 1999 Addendum with the modifications detailed in the October 2003 *Biannual Process Control Monitoring Report* and reiterated in the June 2004 *Biannual Process Control Monitoring Report.*



X: NONE
L:ON=*,OFF=REF*
P:SYR-BL
10/12/04 SYR-85-RCB MTK DMJ
26003190/26003B01.DWG

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BIANNUAL PROCESS CONTROL MONITORING REPORT

SITE PLAN

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FIGURE
1

VAN RENSSELAER STREET

BEAR STREET

BARGE CANAL

FLOW

BUILDING

GATES

BRIDGE

PAVEMENT

AREA 1

AREA 2

AREA 3

(367.01) PZ-I

(366.54) PZ-T

(366.43) PZ-U

(366.45) PZ-J

PZ-9D

(366.36) PZ-W

PZ-V (366.44)

(366.62) PZ-HR

(366.72) PZ-R

(367.18) PZ-S

(366.65) PZ-P

(366.77) PZ-Q

PZ-G (366.68)

(366.65) PZ-F

(365.53) PZ-5D

(365.28) PZ-4D

(365.12) MW-24SR

MW-11S (364.34)

(363.61) PZ-M

(362.11) COLLECTION SUMP

(366.11) PZ-D

(363.04) PZ-L

PZ-A (363.18)

(364.58) PZ-E

PZ-N (365.95)

(363.04) MW-23S

(363.21) PZ-B

(366.07) PZ-C

PZ-K (363.13)

(363.43) PZ-O

(363.49) MW-25S

(363.39)

367.0 366.5 366.0 365.5 365.0 364.5 364.0 363.5 363.0 362.5

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PM — PETROLEUM PIPE LINE MARKER
- GM — GAS LINE MARKER
- SV — SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-11S — GROUNDWATER MONITORING WELL
- PZ-A — PIEZOMETER
- OR — BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- BOUNDARY OF IMPACTED AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH
- PIPING TO BUILDING
- PIPING FROM BUILDING
- AREA OF RELATIVELY HIGHER CONCENTRATIONS OF COCs
- 365.0 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL) DASHED WHERE INFERRED
- (364.58) — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- INFERRED GROUNDWATER FLOW PATH

NOTES:

1. THIS FIGURE ONLY IDENTIFIES THE HYDRAULIC MONITORING LOCATIONS.
2. REPLACED MONITORING WELLS AND PIEZOMETERS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
3. ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

0 80' 160'

GRAPHIC SCALE

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POTENTIOMETRIC SURFACE OF THE SHALLOW HYDROGEOLOGIC UNIT SAND LAYER - JUNE 14, 2004

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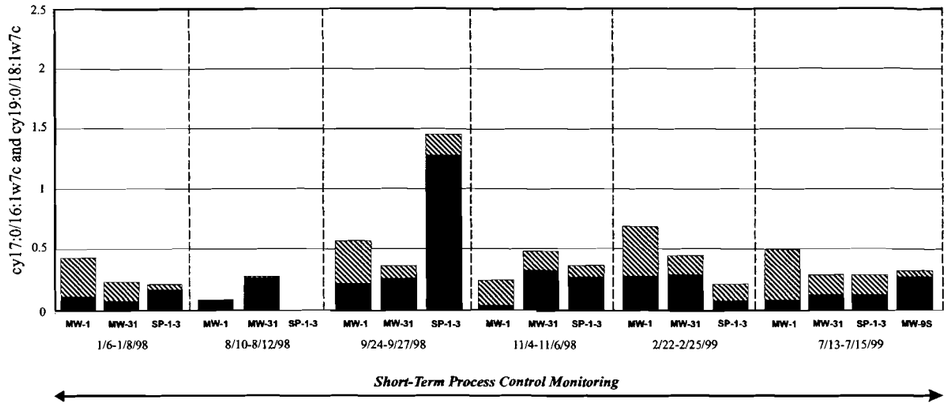
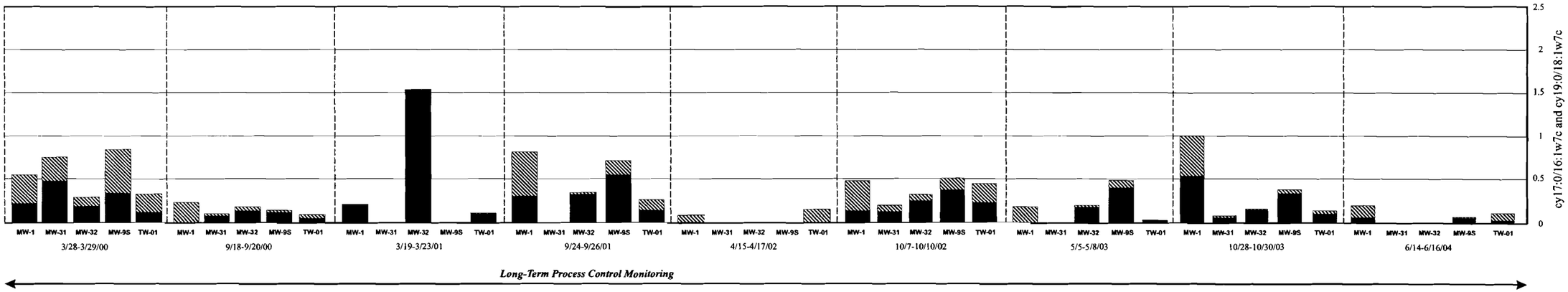
FIGURE 2

P: PAGESET: BL
L: ON=*;OFF=*REF
10/12/04 SYR-54-RCB RCA DMJ
28003010/28003W01.DWG





NOTES:

1. The two ratios: cy17:0/16:1w7c and cy19:0/18:1w7c express a growth rate of the microbial community. The sum of these two ratios falls within the range of 0.1 (log phase) to 5.0 (stationary phase). A lower ratio suggests a higher turnover rate.
2. MW-9S was not scheduled to be sampled during the short-term process control monitoring program, but was sampled in July 1999 (week 52) to provide additional information regarding Area 1. This well is part of the long-term process control monitoring program.

cy19:0/18:1w7c cy17:0/16:1w7c

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AREA 1 - TURNOVER RATE

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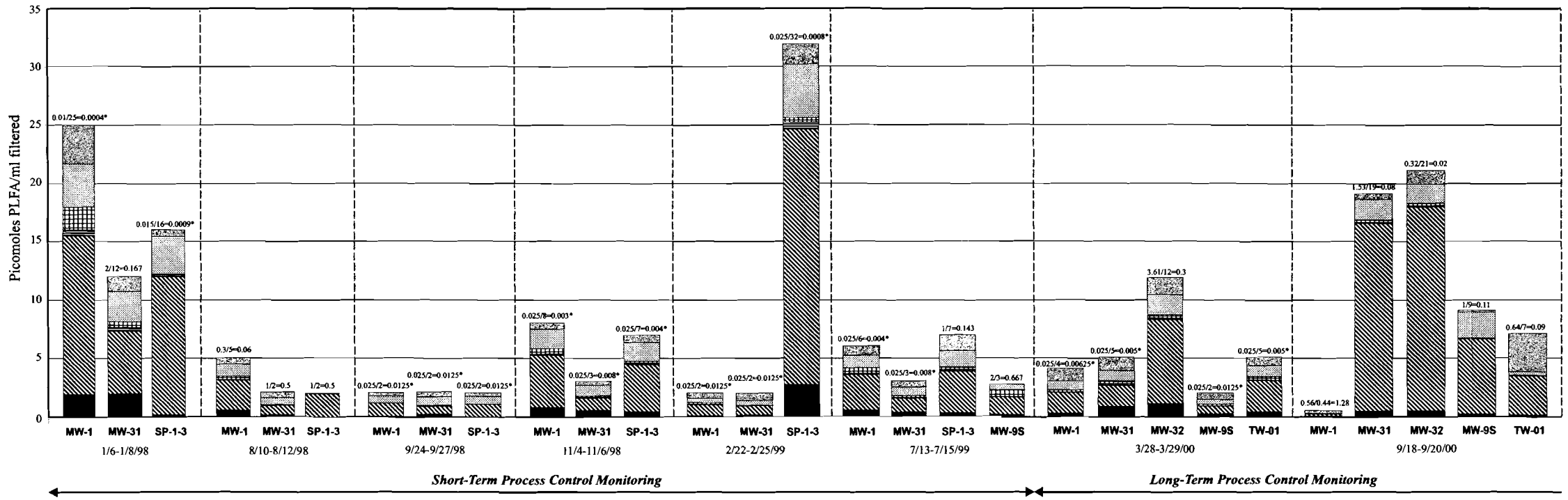
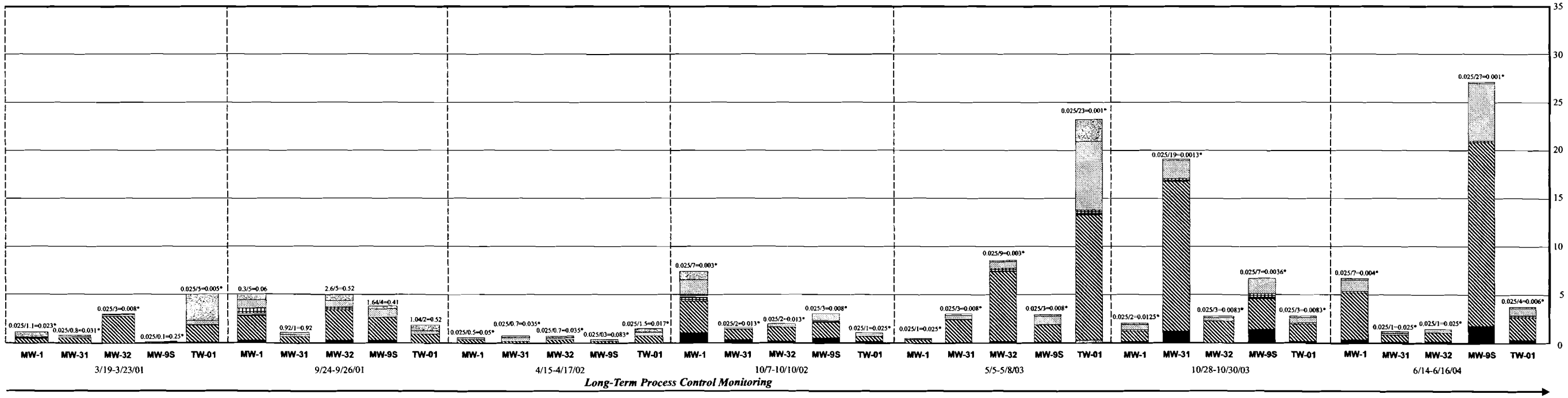
FIGURE 5

09/07/04 SYR-D85-DJH
26003190/26003n02.cdr





NOTES:

1. Ratio above stacked bar graph is PHA to PLFA. PHA/PLFA ratio above 0.2 suggests unbalanced growth of the microbial community.
2. * = Ratio is half the PHA detection limit to PLFA.
3. Start up operation began on June 10, 1998.
4. Initial discrete RAMM injections were conducted from August 5 to August 12, 1998.
5. MW-9S was not scheduled to be sampled during the short-term process control monitoring program, but was sampled in July 1999 (week 52) to provide additional information regarding Area 1. This well is part of the long-term process control monitoring program.
6. Additional discrete RAMM injections were conducted on August 28 through August 30, 2000 and on August 27 through August 30, 2001.

Eukaryotes Nsats MidBrSats BrMonos Monos TerBrSats

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AREA 1 - BIOMASS PLFA DISTRIBUTION

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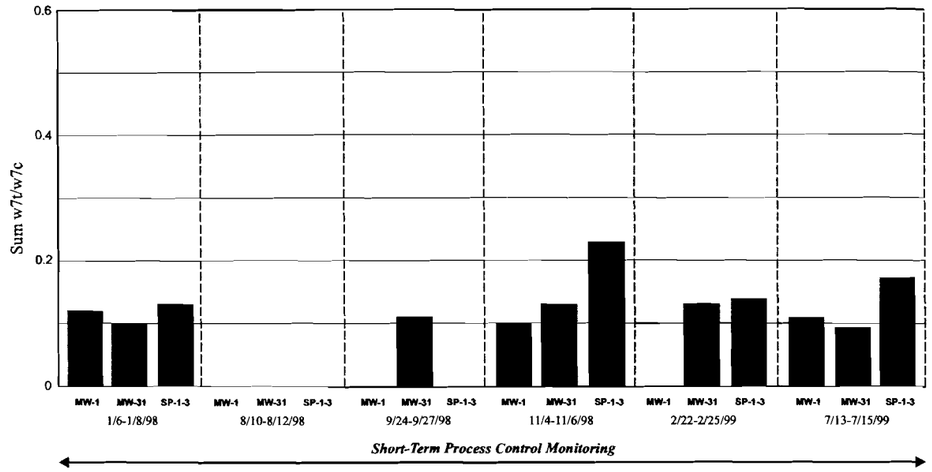
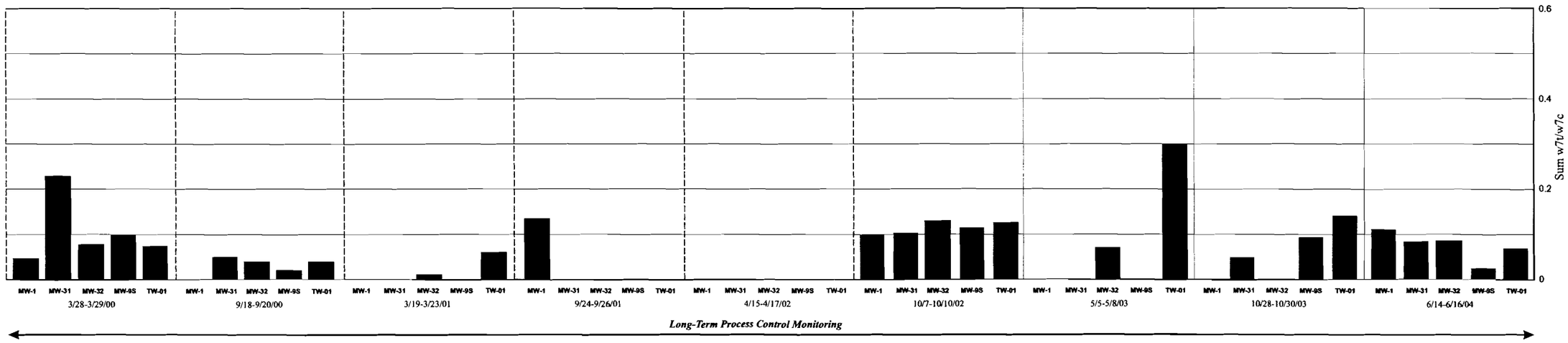
FIGURE 3

12/30/03 SYR-D85-DJH
26003190/26003n03.cdr





NOTES:

1. Sum w7t/w7c = The sum of 16:1w7t/16:1w7c and 18:1w7t/18:1w7c.
2. The ratios 16:1w7t/16:1w7c and 18:1w7t/18:1w7c show the effect of toxicity or starvation on the microbial community. The range (for the sum w7t/w7c) is generally between 0.1 (healthy) to 0.6 (starved). A higher ratio indicates increased stress.
3. MW-9S was not scheduled to be sampled during the short-term process control monitoring program, but was sampled in July 1999 (week 52) to provide additional information regarding Area 1. This well is part of the long-term process control monitoring program.

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AREA 1 - ENVIRONMENTAL STRESS

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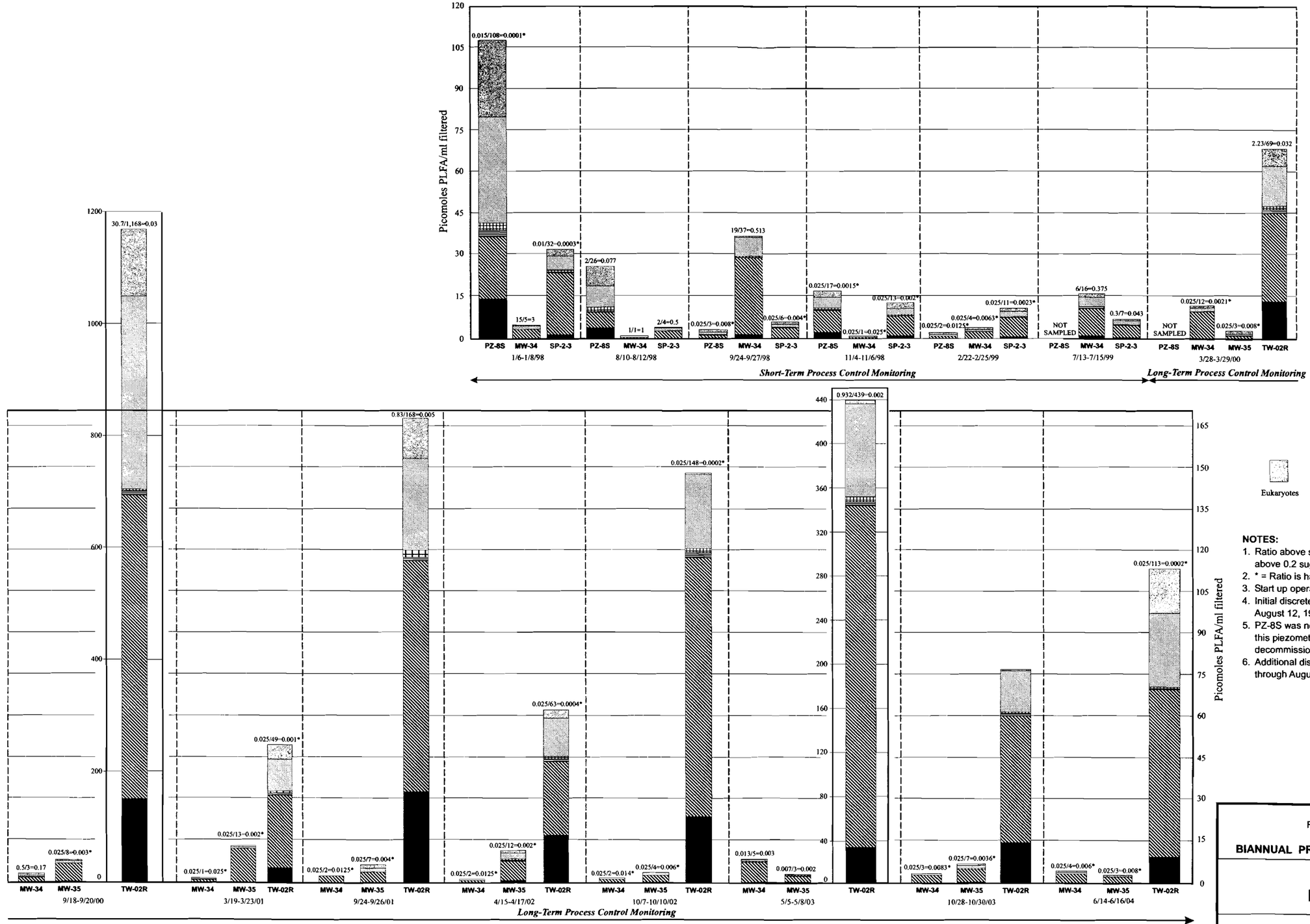
FIGURE 4

09/07/04 SYR-D85-DJH, KFS
26003190/26003n01.cdr



NOTES:

1. Ratio above stacked bar graph is PHA to PLFA. PHA/PLFA ratio above 0.2 suggests unbalanced growth of the microbial community.
2. * = Ratio is half the PHA detection limit to PLFA.
3. Start up operation began on June 10, 1998.
4. Initial discrete RAMM injections were conducted from August 5 to August 12, 1998.
5. PZ-8S was not sampled in July 1999 and in March 2000 because this piezometer was damaged. This piezometer was decommissioned in August 2000.
6. Additional discrete RAMM injections were conducted on August 28 through August 30, 2000 and on August 27 through August 30, 2001.

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BIANNUAL PROCESS CONTROL MONITORING REPORT

AREA 2 - BIOMASS PLFA DISTRIBUTION

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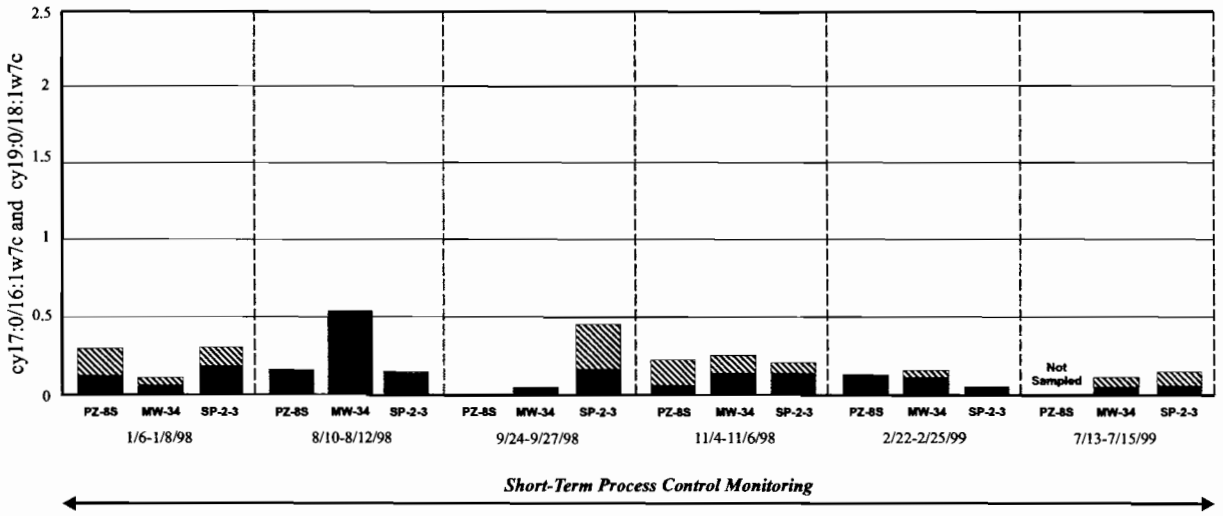
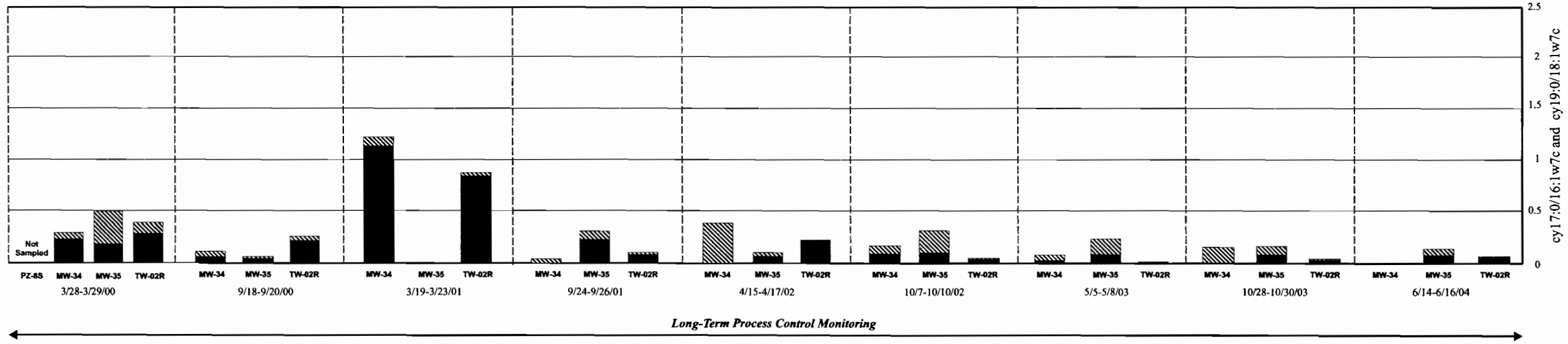
FIGURE 6

09/08/04 SYR-D85-DJH
26003190/26003n10.cdr





NOTES:

1. The two ratios: cy17:0/16:1w7c and cy19:0/18:1w7c express a growth rate of the microbial community. The sum of these two ratios falls within the range of 0.1 (log phase) to 5.0 (stationary phase). A lower ratio suggests a higher turnover rate.
2. PZ-8S was not sampled in July 1999 and in March 2000 because this piezometer was damaged. This piezometer was decommissioned in August 2000.

cy19:0/18:1w7c cy17:0/16:1w7c

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BIANNUAL PROCESS CONTROL MONITORING REPORT

AREA 2 - TURNOVER RATE

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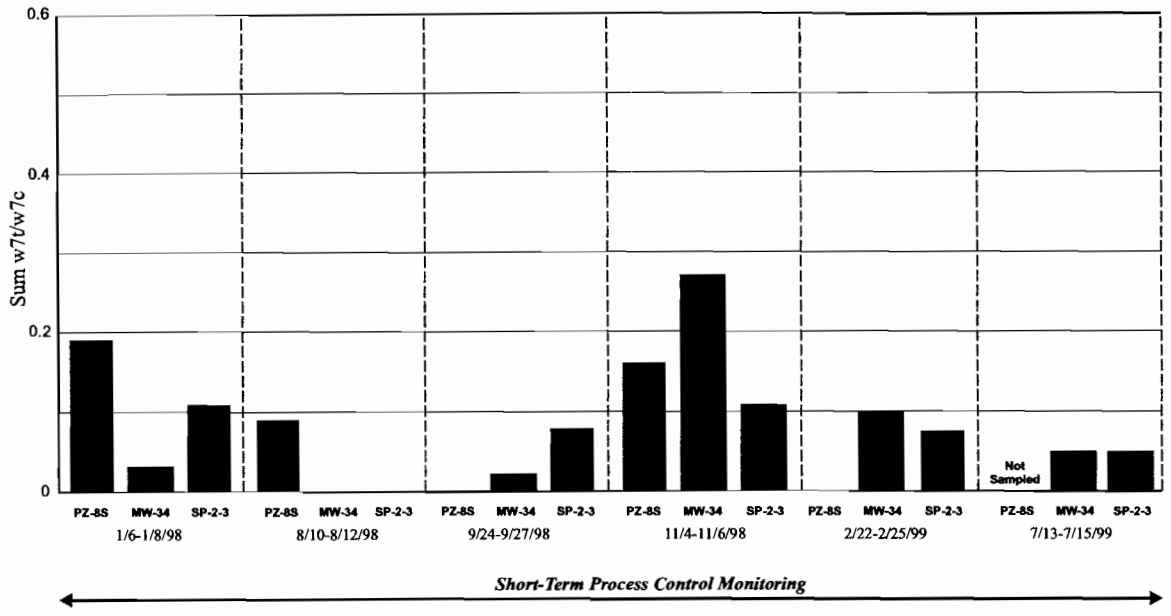
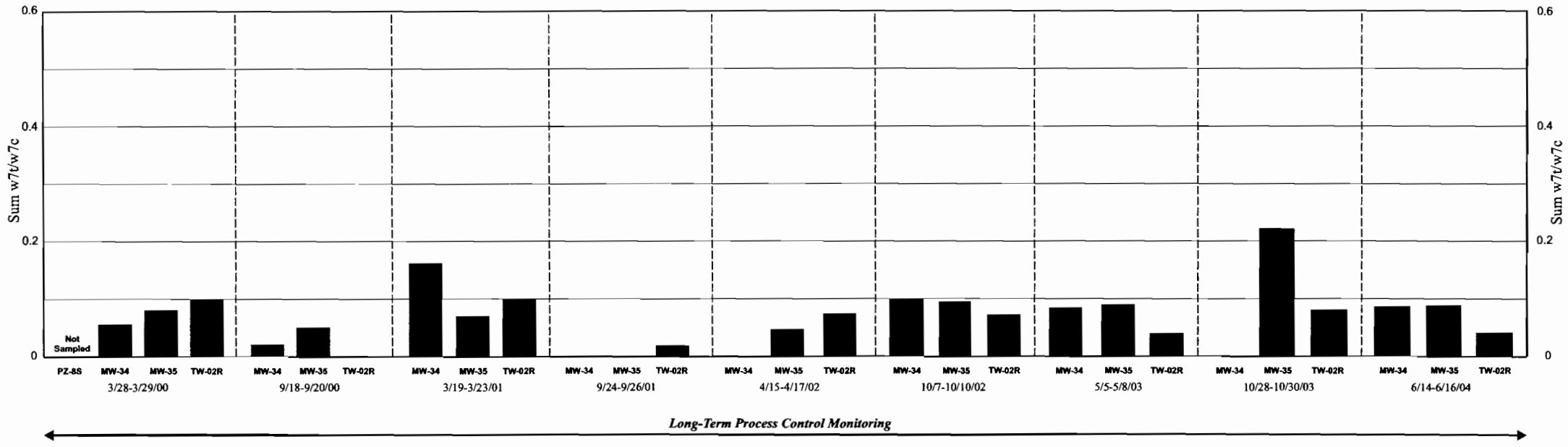
FIGURE 8

09/08/04 SYR-D85-DJH
26003190/26003n06.cdr





NOTES:

1. Sum w7t/w7c = The sum of 16:1w7t/16:1w7c and 18:1w7t/18:1w7c.
2. The ratios 16:1w7t/16:1w7c and 18:1w7t/18:1w7c show the effect of toxicity or starvation on the microbial community. The range (for the sum w7t/w7c) is generally between 0.1 (healthy) to 0.6 (starved). A higher ratio indicates increased stress.
3. PZ-8S was not sampled in July 1999 and in March 2000 because this piezometer was damaged. This piezometer was decommissioned in August 2000.

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BIANNUAL PROCESS CONTROL MONITORING REPORT

AREA 2 - ENVIRONMENTAL STRESS

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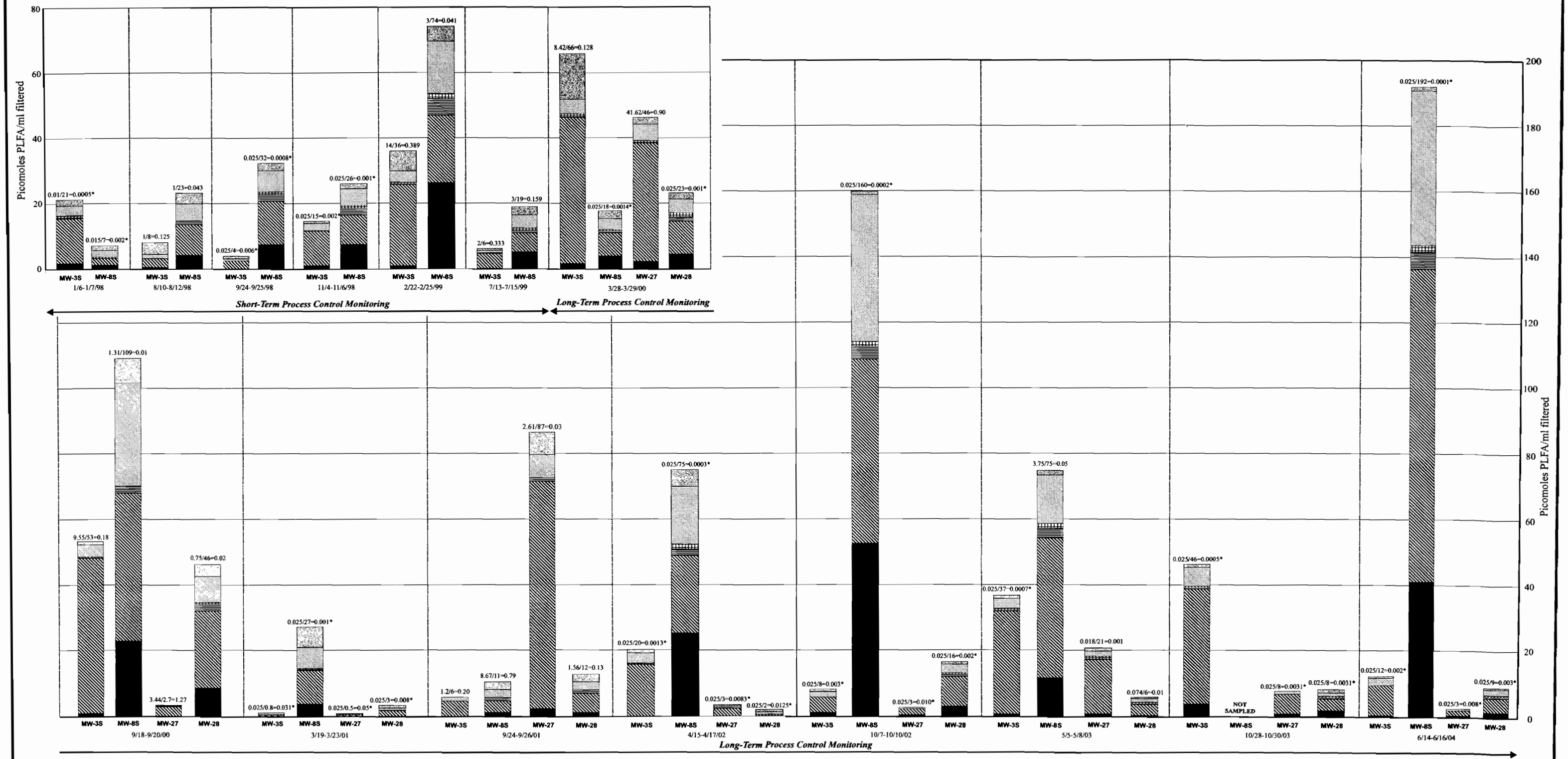
FIGURE 7

09/08/04 SYR-D85-DJH
26003190/26003n04.cdr



NOTES:

1. Ratio above stacked bar graph is PHA to PLFA. PHA/PLFA ratio above 0.2 suggests unbalanced growth of the microbial community.
2. * = Ratio is half the PHA detection limit to PLFA.
3. Start up operation began on June 10, 1998.
4. Initial discrete RAMM injections were conducted from August 5 to August 12, 1998.
5. Additional discrete RAMM injections were conducted on August 28 through August 30, 2000 and on August 27 through August 30, 2001.
6. MW-8S was inadvertently not sampled during the October 2003 sampling event.

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BIANNUAL PROCESS CONTROL MONITORING REPORT

AREA 3 - BIOMASS PLFA DISTRIBUTION

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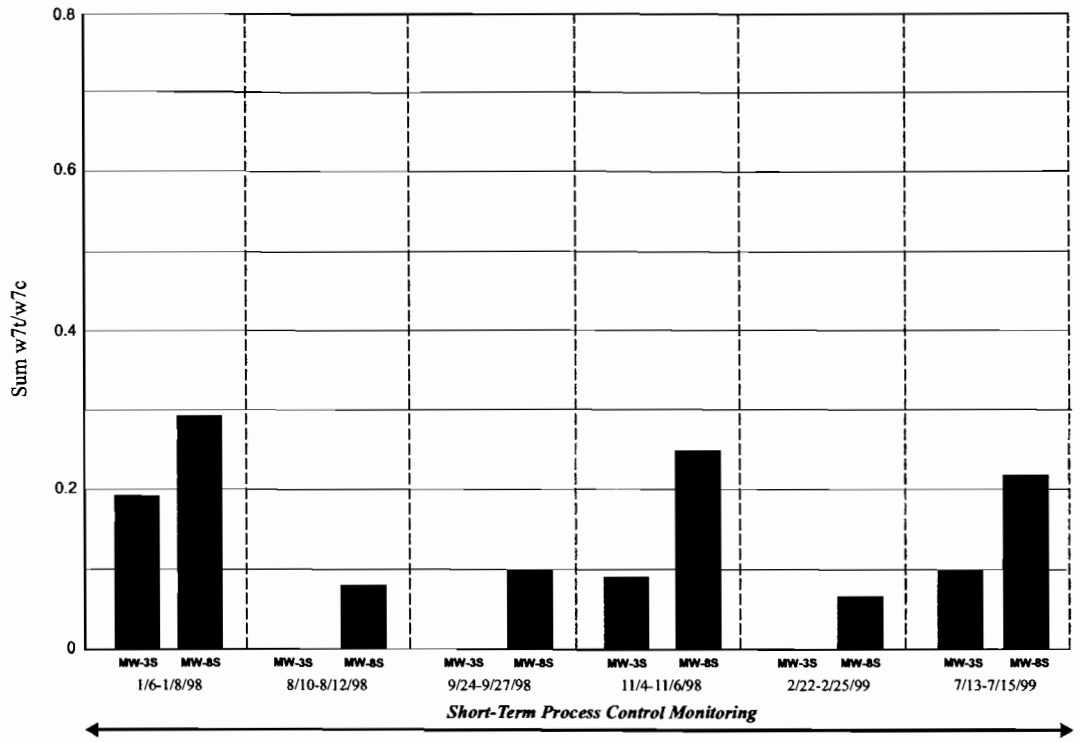
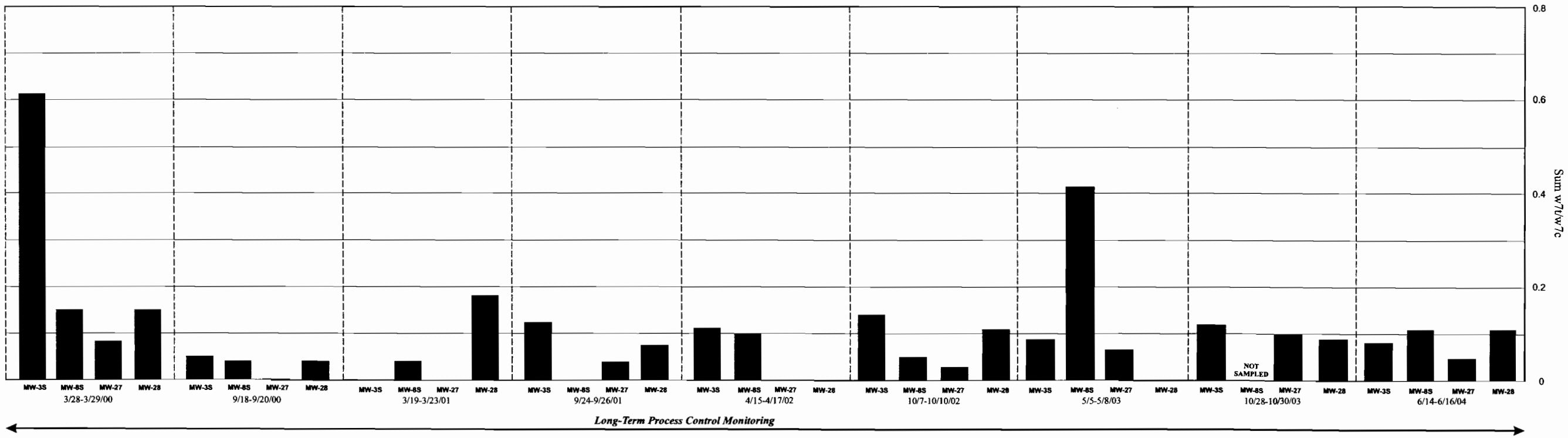
FIGURE 9

09/08/04 SYR-D85-DJH
26003190/26003n09.cdr





NOTES:

1. Sum w7t/w7c = The sum of 16:1w7t/16:1w7c and 18:1w7t/18:1w7c.
2. The ratios 16:1w7t/16:1w7c and 18:1w7t/18:1w7c show the effect of toxicity or starvation on the microbial community. The range (for the sum w7t/w7c) is generally between 0.1 (healthy) to 0.6 (starved). A higher ratio indicates increased stress.
3. MW-8S was inadvertently not sampled during the October 2003 sampling event.

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AREA 3 - ENVIRONMENTAL STRESS

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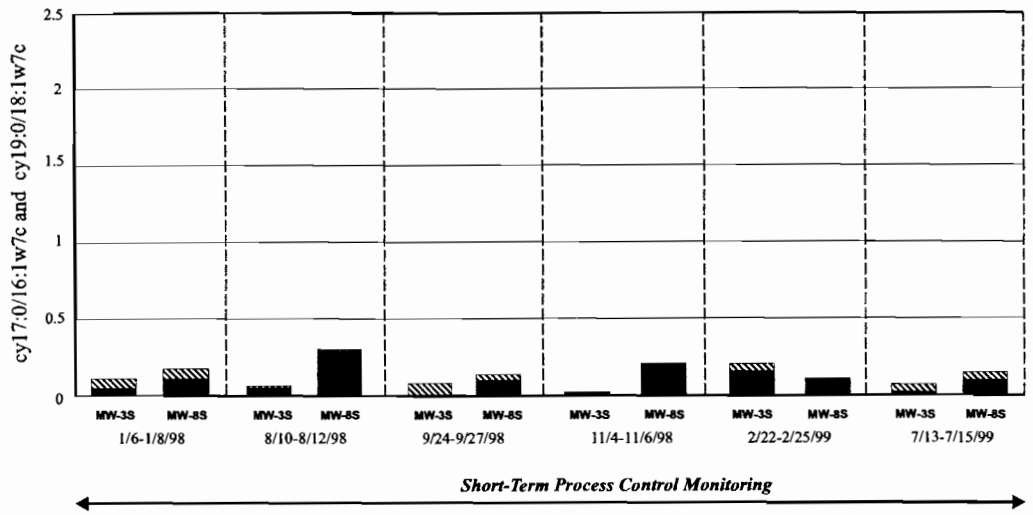
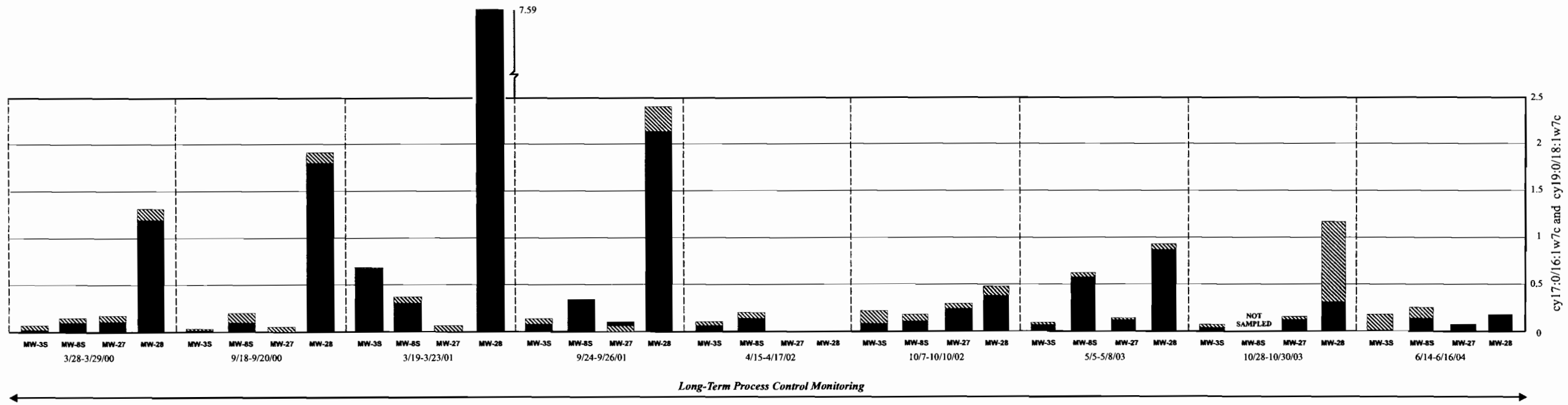
FIGURE 10

09/08/04 SYR-D85-DJH
26003190/26003n08.cdr





NOTE:

1. The two ratios: cy17:0/16:1w7c and cy19:0/18:1w7c express a growth rate of the microbial community. The sum of these two ratios falls within the range of 0.1 (log phase) to 5.0 (stationary phase). A lower ratio suggests a higher turnover rate.
2. MW-8S was inadvertently not sampled during the October 2003 sampling event.

cy19:0/18:1w7c cy17:0/16:1w7c

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BIANNUAL PROCESS CONTROL MONITORING REPORT

AREA 3 - TURNOVER RATE

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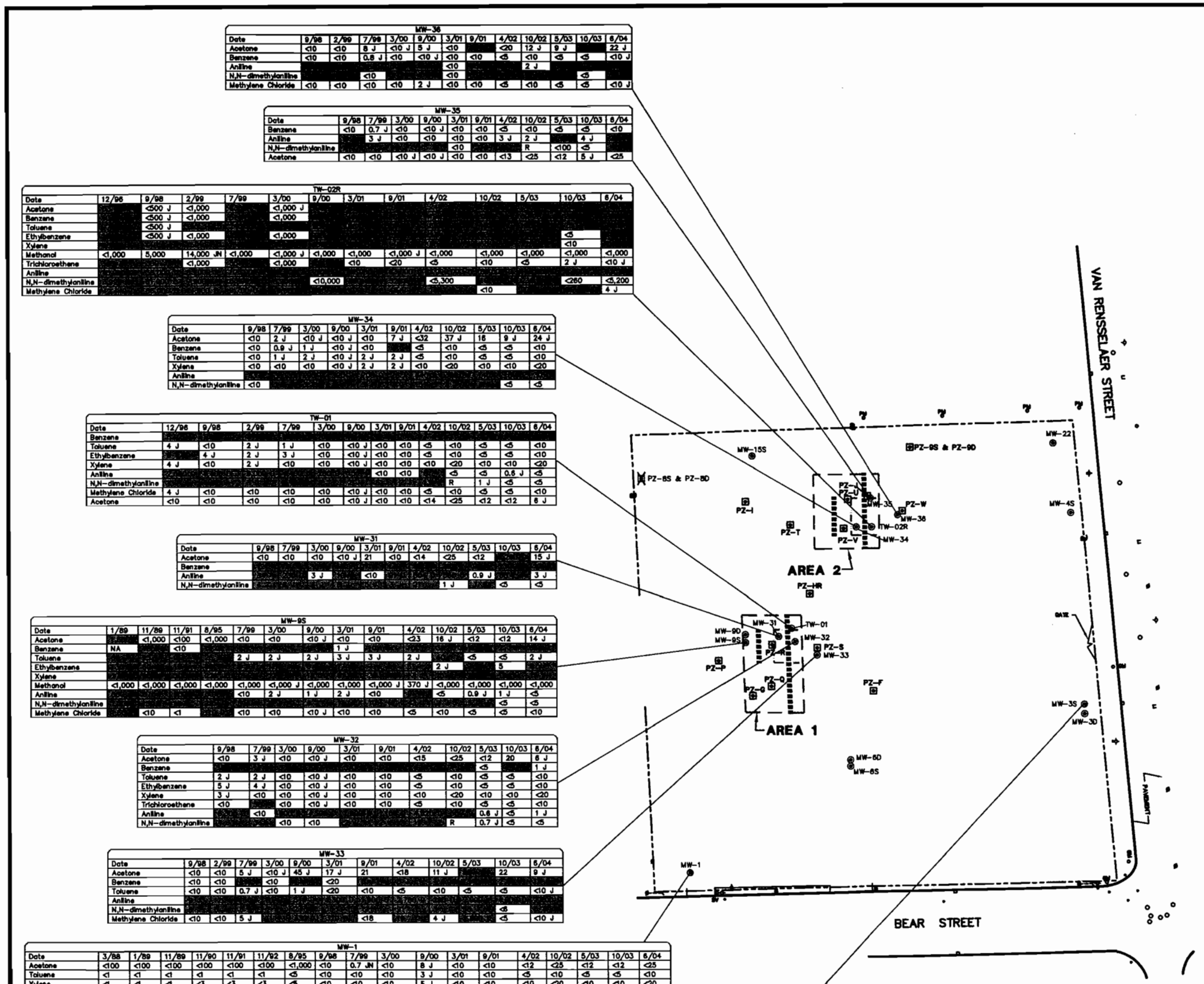
FIGURE 11

09/08/04 SYR-D85-DJH
26003190/26003n07.cdr



MW-36

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	<10	<10	8 J	<10 J	5 J	<10		<20	12 J	9 J		22 J
Benzene	<10	<10	0.8 J	<10	<10 J	<10	<10	<5	<10	<5	<5	<10 J
Aniline						<10			2 J			
N,N-dimethylaniline			<10			<10					<5	
Methylene Chloride	<10	<10	<10	<10	2 J	<10	<10	<5	<10	<5	<5	<10 J

MW-35

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Benzene	<10	0.7 J	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Aniline		3 J	<10	<10	<10	<10	3 J	2 J		4 J	
N,N-dimethylaniline					<10			R	<100	<5	
Acetone	<10	<10	<10 J	<10 J	<10	<10	<13	<25	<12	5 J	<25

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	10/03	6/04
Acetone		<500 J	<1,000		<1,000 J								
Benzene		<500 J	<1,000		<1,000								
Toluene		<500 J										<5	
Ethylbenzene		<500 J	<1,000		<1,000							<10	
Xylene													
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	<1,000	<1,000
Trichloroethene			<1,000		<1,000		<10	<20	<5	<10	<5	2 J	<10 J
Aniline													
N,N-dimethylaniline						<10,000			<5,300			<260	<5,200
Methylene Chloride										<10			4 J

MW-34

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	<10	2 J	<10 J	<10 J	<10	7 J	<32	37 J	16	9 J	24 J
Benzene	<10	0.9 J	1 J	<10 J	<10		<5	<10	<5	<5	<10
Toluene	<10	1 J	2 J	<10 J	2 J	2 J	<5	<10	<5	<5	<10
Xylene	<10	<10	<10	<10 J	2 J	2 J	<10	<20	<10	<10	<20
Aniline											
N,N-dimethylaniline	<10									<5	<5

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	10/03	6/04
Benzene													
Toluene	4 J	<10	2 J	1 J	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Ethylbenzene		4 J	2 J	3 J	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Xylene	4 J	<10	2 J	<10	<10	<10 J	<10	<10	<10	<20	<10	<10	<20
Aniline							<10	<10		<5	<5	0.6 J	<5
N,N-dimethylaniline										R	1 J	<5	<5
Methylene Chloride	4 J	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Acetone	<10	<10	<10	<10	<10	<10 J	<10	<10	<14	<25	<12	<12	8 J

MW-31

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	<10	<10	<10	<10 J	21	<10	<14	<25	<12		15 J
Benzene											
Aniline			3 J		<10				0.9 J		3 J
N,N-dimethylaniline								1 J		<5	<5

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	10/03	6/04
Acetone		<1,000	<100	<1,000	<10	<10	<10 J	<10	<10	<23	16 J	<12	<12	14 J
Benzene	NA		<10					1 J						
Toluene					2 J	2 J	2 J	3 J	3 J	2 J		<5	<5	2 J
Ethylbenzene											2 J		5	
Xylene														
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	<1,000	<1,000
Aniline					<10	2 J	1 J	2 J	<10		<5	0.9 J	1 J	<5
N,N-dimethylaniline														<5
Methylene Chloride		<10	<1		<10	<10	<10 J	<10	<10	<5	<10	<5	<5	<10

MW-32

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	<10	3 J	<10	<10 J	<10	<10	<15	<25	<12	20	6 J
Benzene									<5		1 J
Toluene	2 J	2 J	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Ethylbenzene	5 J	4 J	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Xylene	3 J	<10	<10	<10 J	<10	<10	<10	<20	<10	<10	<20
Trichloroethene	<10		<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Aniline		<10							0.8 J	<5	1 J
N,N-dimethylaniline			<10	<10				R	0.7 J	<5	<5

MW-33

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	<10	<10	5 J	<10 J	45 J	17 J	21	<18	11 J		22	9 J
Benzene	<10	<10		<10		<20						
Toluene	<10	<10	0.7 J	<10	1 J	<20	<10	<5	<10	<5	<5	<10 J
Aniline												
N,N-dimethylaniline											<5	
Methylene Chloride	<10	<10	5 J				<18		4 J		<5	<10 J

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	10/03	6/04
Acetone	<100	<100	<100	<100	<100	<100	<1,000	<10	0.7 JN	<10	8 J	<10	<10	<12	<25	<12	<12	<25
Toluene	<1	<1	<1	<1	<1	<1	<5	<10	<10	<10	3 J	<10	<10	<5	<10	<5	<5	<10
Xylene	<1	<1	<1	<3	<3	<3	<5	<10	<10	<10	5 J	<10	<10	<10	<20	<10	<10	<20
Methylene Chloride	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10 J		<10	<5	<10	<5	<5	<10
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	980 J	<1,000	<1,000	<1,000	<1,000
Aniline	<10	<11	<10	<10	<10	<10	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5	2 J	<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	10/03	6/04
Acetone	<100	<10,000	<10,000		<1,000	<10	<10	<10 J	<10 J	<10	<10	<12	<25	<12	<12	8 J
Benzene	<1	<100	<100		<5	<10	1 J	<10	1 J	<10		<5	<10	<5	<5	<10
Toluene	<1		<100		<5	<10	0.7 J	<10	2 J	<10		<5	<10	<5	<5	<10
Ethylbenzene	<1	<100	<100	4	<5	<10	<10	<10	<10 J	<10	1 J	<5	<10	<5	<5	<10
Xylene	<1	<100	<100		<5	<10	<10	<10	<10 J	<10	2 J	<10	<20	<10	<10	<20
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	370 J	<1,000	<1,000	<1,000	<1,000
Trichloroethene				<10	<5	<10	<10	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Aniline	<10	<11	<52			<10		<10	2 J	<10		1.7 J	<5	<5	4 J	0.8 J
N,N-dimethylaniline	<10					<10	<10	<10	1 J	<10		<5	R	<5	<5	<5
Methylene Chloride				<10	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5	<5	<10

L: ON=*, OFF=REF*
P: PAGESEST/SYR-BL
11/18/04 SYR-RCB LAF KLS
26003190/26003C01.DWG

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
- PZ-8S & PZ-8D DECOMMISSIONED PIEZOMETERS
- BOUNDARY OF IMPACTED AREA
- GROUNDWATER INFILTRATION TRENCH
- AREA OF RELATIVELY HIGHER CONCENTRATIONS OF COCs

SAMPLE IDENTIFICATION

MW-35

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Benzene	<10	0.7 J	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Aniline	8 J	3 J	<10	<10	<10	<10	3 J	2 J	1,000	4 J	30
N,N-dimethylaniline	5 J	4 J	2 J	3 J	<10	2 J	4 J	R	<100	<5	4 J
Acetone	<10	<10	<10 J	<10 J	<10	<10	<13	<25	<12	5 J	<25

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. 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. AS DETAILED IN THE BIANNUAL REPORT, THESE MONITORING WELLS WERE NOT RESAMPLED.

0 120' 240'

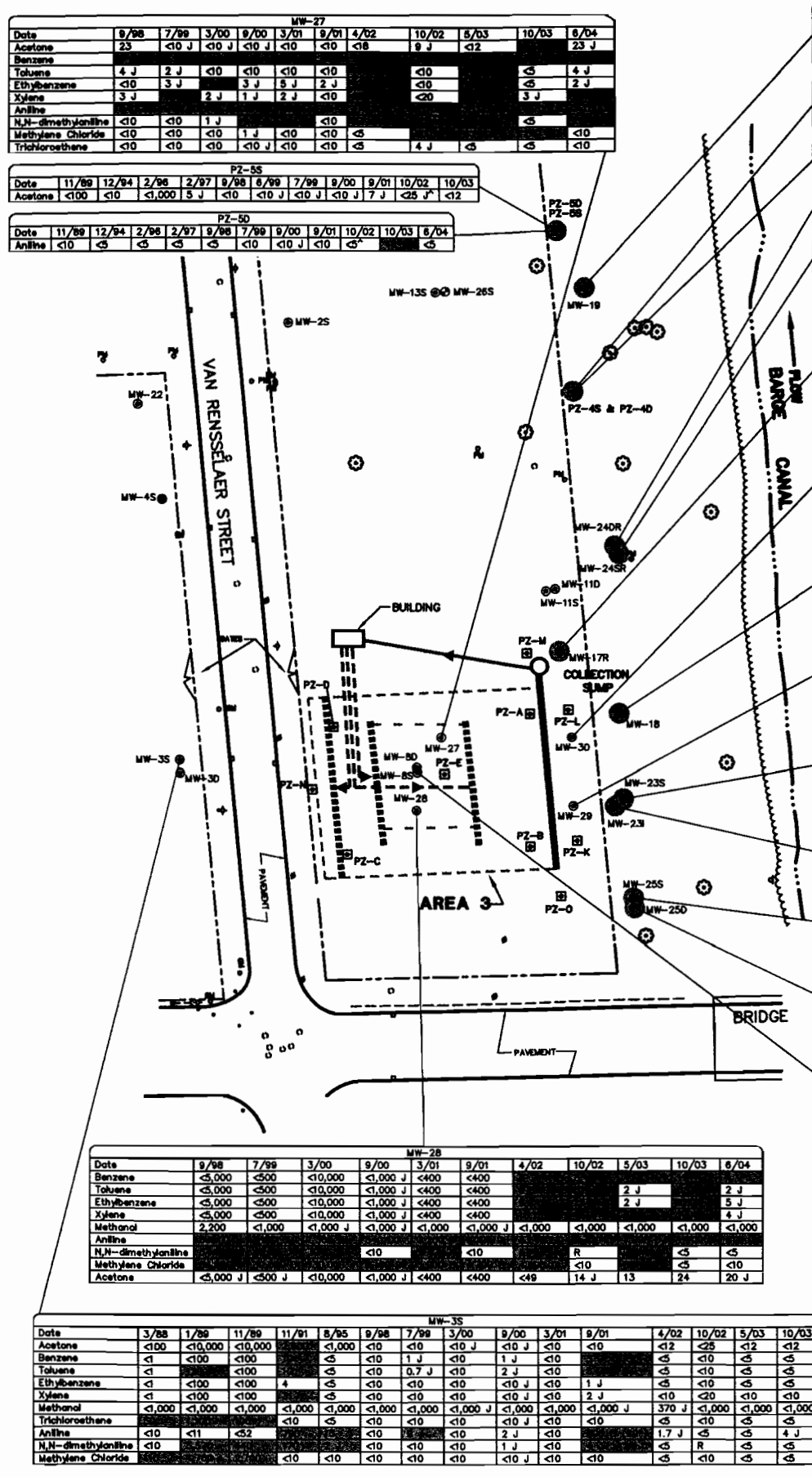
GRAPHIC SCALE

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

SUMMARY OF AREAS 1&2 HISTORIC GROUNDWATER MONITORING DATA

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 12



MW-27

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	23	<10 J	<10 J	<10 J	<10	<10	<18	9 J	<12		23 J
Benzene											
Toluene	4 J	2 J	<10	<10	<10	<10		<10		<5	4 J
Ethylbenzene	<10	3 J		3 J	5 J	2 J		<10		<5	2 J
Xylene	3 J		2 J	1 J	2 J	<10		<20		3 J	
Aniline											
N,N-dimethylaniline	<10	<10	1 J			<10				<5	
Methylene Chloride	<10	<10	<10	1 J	<10	<10	<5				<10
Trichloroethene	<10	<10	<10	<10 J	<10	<10	<5	4 J	<5	<5	<10

PZ-5S

Date	11/89	12/94	2/96	2/97	9/98	6/99	7/99	9/00	9/01	10/02	10/03
Acetone	<100	<10	<1,000	5 J	<10	<10 J	<10 J	<10 J	7 J	<25 J^	<12

PZ-5D

Date	11/89	12/94	2/96	2/97	9/98	7/99	9/00	9/01	10/02	10/03	6/04
Aniline	<10	<5	<5	<5	<10	<10 J	<10	<5^		<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	10/03	6/04
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<5	<5^	<5		<5
Acetone	<100	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10 J	<10	<10	<10 J	<10	<5	5 J	<12	<11	<25
Aniline	<10	<5	<5	NA	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5	<5	<5

PZ-4S

Date	11/89	11/90	11/91	11/92	8/95	8/96	8/97	2/98	8/99	3/00	3/01	4/02	10/02	5/03	6/04
Aniline	<10	<10	<10	<10	<5	<5	<5	<10	<5	<5	<10		<5^	<5	<5
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10		<5 (5)**	<5^	<5	<5

PZ-4D

Date	11/89	11/90	11/91	11/92	8/95	10/95	8/96	8/97	2/98	2/99	8/99	3/00	9/00	3/01	4/02	5/03	6/04
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	0.8 J	<10	<10	<12	<10	<10	<10	<10	<5	<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	10/03
Aniline	<5	<5	<5	<5	<10	<10 J	<10	ND**	<5^	0.5 J	

MW-24SR

Date	12/94	8/95	2/96	2/97	9/98	8/99	7/99	3/00	9/01	6/02	10/02	10/03	6/04
Aniline	<5	<5	<5	<5	<5	<10 J	<10	<10 J	<10	ND**	<5^		<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	11/03	6/04
Acetone	<100	<100	<100	<1,000	NA	11	<10	<10	<10	<10 J	<10	<10	<10	<25 J	<12	<12	<25
Benzene	<1	<1	<1	<5	<5	<10	<10	1 J									
Trichloroethene	<1	<1	<1	<5	2J	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Methanol	<1,000	<1,000	<1,000	<1,000	NA	1,000	1,000	1,000	<1,000 J	<1,000 J	<1,000 J	<1,000 J	820 J	<1,000	<1,000	<1,000	<1,000
Aniline	<10	<10	<10	<5	NA	<5	<5	<10	<5		<10	<10		<5^	<5	<5	<5
N,N-dimethylaniline	<10	<10	<10	<10	NA	<10	<10	<10	<10		<10	<10		<5^	<5	<5	<5
Methylene Chloride	<1	<1	<1	<5	<10	<10	<10	<10 J	<10	1 J	<10	<10	<5	<10	<5	<5	<10

MW-30

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	<10	7 J	<10	<10	<10 J	<10	4 J	<10	<25 J	<82	<12	<25
Benzene	<10	<10	0.7 J	<10	<10 J	<10		<5	<10	<25	<5	<10
Trichloroethene	<10	<10	0.5 J	<10	<10 J	<10	<10	<5	<10	<25	<5	<10
Aniline	<10	<10	<10				R			<5^	<5	<5
N,N-dimethylaniline	<10		1 J			1 J	R		0.6 J	<5	<5	
Methylene Chloride	<10	<10	<10	4 J	2 J	<10	<10	<5	<10		<5	<10

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	10/03	6/04
Methanol	<1,000	<1,000	<1,000	<1,000	<200	<1,000 J	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000	720 J	<1,000	280 J	<1,000	<1,000
Aniline	<10	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	<5^	<5	0.7 J	R
N,N-Dimethylaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	<5^	<5	<5	R
Acetone	<100	<100	<100	<100	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	<10 J	<10	<10	<10	8 J	<12	<12	<25

MW-29

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	<10	7 J	<10	<10	<10 J	<10	<10	<10	<25 J	<12	<12	<25
Xylene	2 J	1 J	<10	<10	<10 J	<10	<10	<10	<20	<10	<10	<20
Aniline	<10	5 J	2 J					3 J			2 J	3 J
N,N-dimethylaniline								R	1 J	<5	<5	
Methylene Chloride	<10	<10	<10	<10	<10 J	<10	<10	<5	4 JN	<3	<5	<10

MW-23S

Date	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	8/99	7/99	3/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Acetone	<10	<1,000	<1,000	<10	<10	12	<10	<10	<10 J	<10 J	<10	<10	<10	<10	<25 J	<82	<12	<25
Aniline	<5	<5	<10	<10	<10	<10		<10	<10 J	<10	<5	<10	<10	<5	<5^	<5		<5
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10				<10		<10	<10	<5	<5^	<5	<5	<5
Methanol	<200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000 J	<1,000 J	<1,000	<1,000	<1,000	380 J	<1,000	<1,000

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	10/03	6/04
Acetone	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10 J	<10	<10 J	<10	4 J	<10	<25 J	<12	<12	<25
Xylene	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	2 J	<10	<20 J	<5	<10	<20
Methylene Chloride	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	2 J	<10		<5	<5	<10
Aniline	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5	<5	1 J

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	11/03	6/04
Aniline	<5	<5	<5	<5			5 J	<5	<10 J	<10	<10	<5	<5^	<5	<5	<5
N,N-dimethylaniline	0.7 J	<10	<10	<10	<10		<10	<10	<10	<10	<10	<5	<5^	<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	6/04
Acetone	<1,000	NA	15	<10	<10	<10	<10	<10	<10	<12	<25
Trichloroethene	<5	3 J	<10	<10	<10	<10	<10	<10	<5	<5	<10
N,N-dimethylaniline	1 J	<10	<10	<11	<10	<10	<10	<10	<5	<5	<5
Aniline	<5	<5	<5	<5	<5	<10	<5	5 J	<5	<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	10/03	6/04
Acetone	<1,000,000		<1,000,000	<1,000	<10,000 J	<20,000	10 J	<100,000	<50,000 J	<50,000	<400			<12	21	<25
Benzene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000		<100,000	<50,000 J	<50,000	<400					
Toluene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000		<100,000	<50,000 J	<50,000						
Ethylbenzene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000		<100,000	<50,000 J	<50,000						
Xylene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000		<100,000	<50,000 J	<50,000						
Methanol	430,000	300,000	150,000	22,000	7,900	18,000 JN	17,000	30,000 J	14,000 J	53,000	8,900 J	<1,000	<1,000	<1,000	1,200 J	<1,000
Trichloroethene	<10,000	<10,000	<10,000					<100,000								
Aniline				<25,000 D												
N,N-dimethylaniline																
Methylene Chloride																

MW-28

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03	10/03	6/04
Benzene	<5,000	<500	<10,000	<1,000 J	<400	<400					
Toluene	<5,000	<500	<10,000	<1,000 J	<400	<400			2 J		2 J
Ethylbenzene	<5,000	<500	<10,000	<1,000 J	<400	<400			2 J		5 J
Xylene	<5,000	<500	<10,000	<1,000 J	<400	<400					4 J
Methanol	2,200	<1,000	<1,000 J	<1,000 J	<1,000	<1,000 J	<1,000	<1,000	<1,000	<1,000	<1,000
Aniline											
N,N-dimethylaniline				<10		<10		R		<5	<5
Methylene Chloride								<10		<5	<10
Acetone	<5,000 J	<500 J	<10,000	<1,000 J	<400	<400	<49	14 J	13	24	20 J

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	10/03	6/04
Acetone	<100	<10,000	<10,000		<1,000	<10	<10	<10 J	<10 J	<10	<10	<12	<25	<12	<12	6 J
Benzene	<1	<100	<100		<5	<10	1 J	<10	1 J	<10		<5	<10	<5	<5	<10
Toluene	<1		<100		<5	<10	0.7 J	<10	2 J	<10		<5	<10	<5	<5	<10
Ethylbenzene	<1	<100	<100	4	<5	<10	<10	<10	<10 J	<10	1 J	<5	<10	<5	<5	<10
Xylene	<1	<100	<100		<5	<10	<10	<10	<10 J	<10	2 J	<10	<20	<10	<10	<20
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	<1,000	<1,000
Trichloroethene					<5	<10	<5	<10	<10 J	<10	<10	<5	<10	<5	<5	<10
Aniline	<10	<11	<52			<10		<10	2 J	<10		1.7 J	<5	<5	4 J	0.8 J
N,N-dimethylaniline	<10					<10	<10	<10	1 J	<10		<5	R	<5	<5	<5
Methylene Chloride				<10	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5	<5	<10

LEGEND:

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

SAMPLE IDENTIFICATION

MW-25

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

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.
16. ** = 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, AS DETAILED IN THE BIANNUAL REPORT, 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. AS DETAILED IN THE BIANNUAL REPORT, THESE MONITORING WELLS WERE NOT RESAMPLED.
19. 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.

0 120' 240'

GRAPHIC SCALE

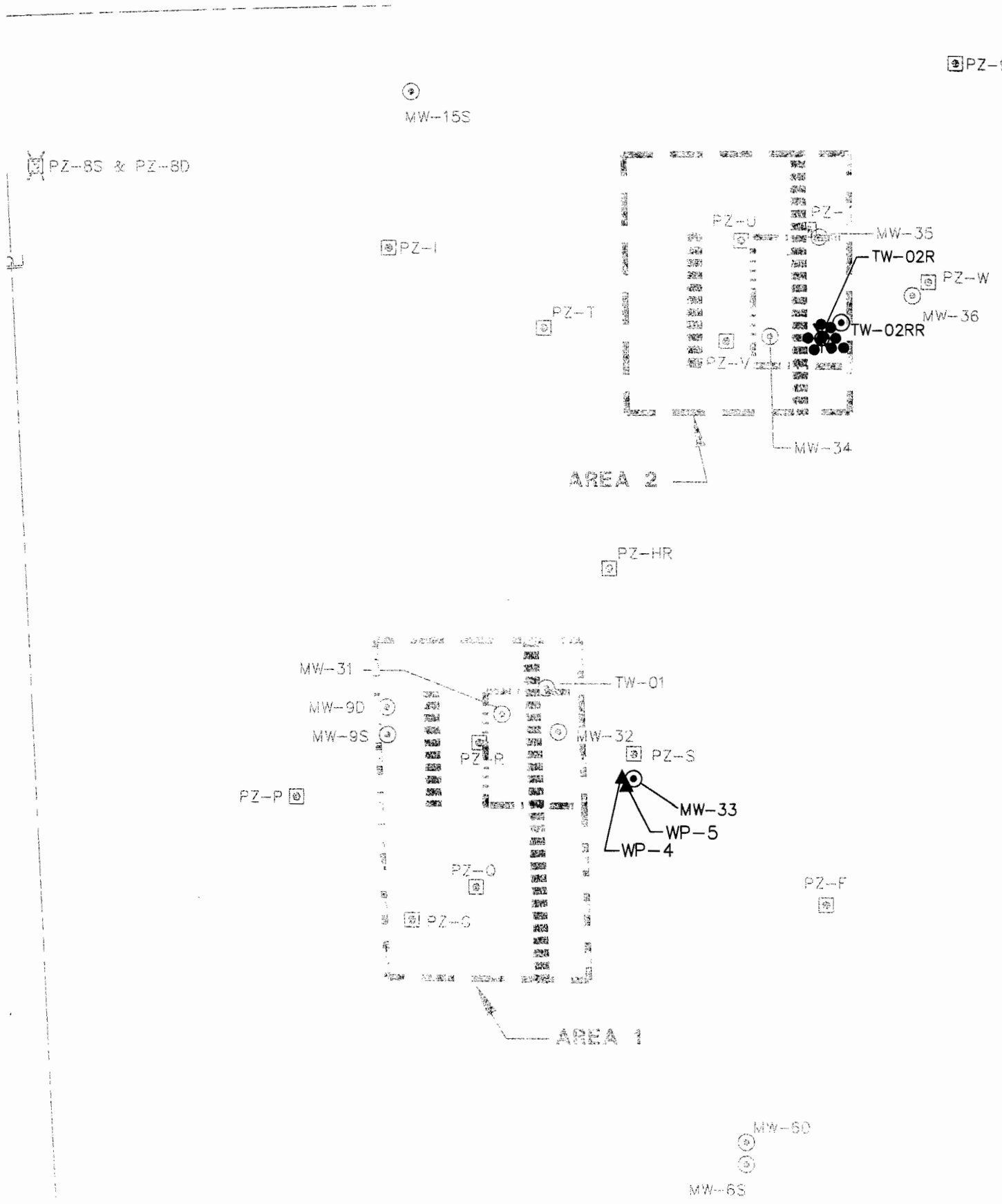
L: ON=*, OFF=REF*
P: PAGESEST/PLT-BL
11/16/04 SYR-RCB LAF KLS
26003190/26003C02.DWG

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

SUMMARY OF AREA 3 HISTORIC GROUNDWATER MONITORING DATA

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 13



LEGEND

- HYDRANT
- WATER VALVE
- PROPERTY LINE
- MW-33 — GROUNDWATER MONITORING WELL
- PZ-W — PIEZOMETER
- PZ-8S & PZ-8D — DECOMMISSIONED PIEZOMETER
- WP-4 — WELL POINT
- TW-02R — DECOMMISSIONED GROUNDWATER MONITORING WELL
- BOUNDARY OF IMPACTED AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH AND IDENTIFICATION.
- PIPING TO BUILDING
- PIPING FROM BUILDING
- AREA OF RELATIVELY HIGHER CONCENTRATIONS OF COCs
- APPROXIMATE LOCATION OF SOIL REMOVED BY 12-INCH OUTSIDE DIAMETER AUGER TO AN ESTIMATED DEPTH OF 20 FT BELOW GROUND SURFACE (BGS) AND BACKFILLED WITH RAMM AND SUGA-LIK™ AMENDED PEA STONE.

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., TW-02R).
2. TW-02R WAS DECOMMISSIONED.
3. TW-02R WAS REPLACED (LOCATIONS ARE APPROXIMATE).
4. WELL POINTS WP-1 AND WP-2 LOCATIONS ARE APPROXIMATE.
5. SOIL WAS REMOVED TO A DEPTH OF APPROXIMATELY 20 FEET BGS NEAR TW-02R USING AN AUGER.

0 40' 80'

GRAPHIC SCALE

L:ON=*, OFF=*REF*
P:STD-PCP/SL
11/16/04 SYR-54-RCB LAF KLS
28003190/28003804.DWG

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK

BIANNUAL PROCESS CONTROL MONITORING REPORT

SUPPLEMENTAL REMEDIAL ACTIVITIES - AREAS 1 AND 2

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 14A

LEGEND:

- UTILITY POLE
- CATCH BASIN
- GAS LINE MARKER
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-28 — GROUNDWATER MONITORING WELL
- BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- PZ-A — PIEZOMETER
- WP-8 — WELL POINT
- MW-8D — DECOMMISSIONED GROUNDWATER MONITORING WELL
- BOUNDARY OF IMPACTED AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH AND IDENTIFICATION
- PIPING TO BUILDING
- PIPING FROM BUILDING
- AREA OF RELATIVELY HIGHER CONCENTRATIONS OF COCs
- APPROXIMATE AREA OF SOIL EXCAVATED TO AN ESTIMATED DEPTH OF 20 FT BELOW GROUND SURFACE (BGS) AND BACKFILLED WITH RAMM AMENDED PEA STONE
- APPROXIMATE LOCATION OF SOIL REMOVED BY 12-INCH OUTSIDE DIAMETER AUGER TO AN ESTIMATED DEPTH OF 20 FT BGS AND BACKFILLED WITH RAMM AND SUGA-LIK™ AMENDED PEA STONE
- APPROXIMATE LOCATION OF SOIL REMOVED BY 12-INCH OUTSIDE DIAMETER AUGER TO AN ESTIMATED DEPTH OF 20 FT BGS AND SOIL AMENDED WITH RAMM AND SUGA-LIK™ WAS RETURNED TO BOREHOLE.

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. MW-8D AND MW-8S WERE DECOMMISSIONED.
3. MW-8S WAS REPLACED (LOCATION IS APPROXIMATE).
4. WELL POINTS WP-1 THROUGH WP-3 AND WP-6 THROUGH WP-8 LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK

BIANNUAL PROCESS CONTROL MONITORING REPORT

SUPPLEMENTAL REMEDIAL ACTIVITIES - AREA 3

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 14B

L:ON=*,OFF=REF*
P:STD-PCP/BL
11/16/04 SYR-85-RCB LAF KLS
26003190/26003B06.DWG

Attachment 1

Waste Characterization Data

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 30, 2004

FOR: Attn: Ms. Christie Sobal
Blasland & Bouck Engineers, PC
6723 Towpath Road Box 66
Syracuse, NY 13214-0066

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TH	08/19/04	13:15
Location Code:	BLASLAND	Received by:	KJB	08/20/04	10:56
Rush Request:		Analyzed by:	see "By" below		
P.O.#:	26001003				

SDG I.D.: GAF79936
Phoenix I.D.: AF79936

Laboratory Data

Client ID: MCKESSON BEAR ST AREA 1/2 ROLLOFF

Parameter	Result	RL	Units	Date	Time	By	Reference
TCLP Silver	BDL	0.01	mg/L	08/24/04		EK	E1311/SW6010
TCLP Arsenic	0.014	0.01	mg/L	08/24/04		EK	E1311/SW6010
TCLP Barium	1.4	0.01	mg/L	08/24/04		EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	08/24/04		EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	08/24/04		EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	08/24/04		EK	E1311/SW6010
TCLP Selenium	BDL	0.05	mg/L	08/24/04		EK	E1311/SW6010
TCLP Mercury	BDL	0.001	mg/L	08/24/04		KMC	E1311/E245.1
Percent Solid	75		%	08/21/04		C/D	E160.3
Corrosivity	Negative	NONE	None	08/20/04		CD	S423/E150.1
Flash Point	>200	200	degree F	08/23/04		JR	SW846 - 1010
Ignitability	Passed	140	deg F	08/23/04		JR	SW846 - 1010
pH	8.33	0.10	pH Units	08/20/04	23:00	CD	E150.1/SW9045
Reactivity Cyanide	BDL	1.0	mg/Kg	08/21/04		ME	SW 846-7.3
Reactivity Sulfide	BDL	20	mg/Kg	08/21/04		ME	SW846-7.3
Reactivity	Negative			08/21/04		ME	SW 846-7.3
Soil Extraction for PCB	Completed			08/21/04		AB	3545/3550
TCLP Digestion Mercury	Completed			08/22/04		Y	E1311/7470
TCLP Extraction Herbicides	Completed			08/24/04		X/P	EPA 1311
TCLP Extraction Metals	Completed			08/20/04		TH	EPA 1311
TCLP Extraction Pesticides.	Completed			08/23/04		R/X	EPA 1311
TCLP Extraction Semi-Vol	Completed			08/23/04		R/X	EPA 1311
TCLP Extraction Volatiles.	Completed			08/24/04		R/H	EPA 1311
TCLP Metals Digestion	Completed			08/21/04		TH	SW846 - 3005

Client ID: MCKESSON BEAR ST AREA 1/2 ROLLOFF — Phoenix I.D.: AF79936

Parameter	Result	RL	Units	Date	Time	By	Reference
Polychlorinated Biphenyls							
PCB-1016	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1221	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1232	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1242	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1248	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1254	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1260	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1262	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1268	ND	400	ug/Kg	08/25/04		JH	SW 8082
QA/QC Surrogates							
% DCBP (Surrogate Rec)	93		%	08/25/04		JH	SW 8082
% TCMX (Surrogate Rec)	75		%	08/25/04		JH	SW 8082
TCLP Herbicides							
2,4,5-TP (Silvex)	ND	1.0	ug/L	08/26/04		KCA	SW8151
2,4-D	ND	5.0	ug/L	08/26/04		KCA	SW8151
QA/QC Surrogates							
% DCAA (Surrogate Rec)	41		%	08/26/04		KCA	SW8151
TCLP Pesticides							
4,4' -DDD	ND	0.1	ug/L	08/25/04		KCA	SW 8081
4,4' -DDE	ND	0.1	ug/L	08/25/04		KCA	SW 8081
4,4' -DDT	ND	0.1	ug/L	08/25/04		KCA	SW 8081
a-BHC	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Aldrin	ND	0.05	ug/L	08/25/04		KCA	SW 8081
b-BHC	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Chlordane	ND	0.3	ug/L	08/25/04		KCA	SW 8081
d-BHC	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Dieldrin	ND	0.1	ug/L	08/25/04		KCA	SW 8081
Endosulfan I	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Endosulfan II	ND	0.1	ug/L	08/25/04		KCA	SW 8081
Endosulfan Sulfate	ND	0.1	ug/L	08/25/04		KCA	SW 8081
Endrin	ND	0.1	ug/L	08/25/04		KCA	SW 8081
Endrin Aldehyde	ND	0.1	ug/L	08/25/04		KCA	SW 8081
g-BHC (Lindane)	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Heptachlor	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Heptachlor epoxide	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Methoxychlor	ND	0.2	ug/L	08/25/04		KCA	SW 8081
Toxaphene	ND	1.0	ug/L	08/25/04		KCA	SW 8081
TCLP Volatiles							
1,1-Dichloroethylene	ND	50	ug/L	08/27/04		RM	SW 8260
1,2-Dichloroethane	ND	50	ug/L	08/27/04		RM	SW 8260

Client ID: MCKESSON BEAR ST AREA 1/2 ROLLOFF — Phoenix I.D.: AF79936

Parameter	Result	RL	Units	Date	Time	By	Reference
Benzene	ND	50	ug/L	08/27/04		RM	SW 8260
Carbon tetrachloride	ND	50	ug/L	08/27/04		RM	SW 8260
Chlorobenzene	ND	50	ug/L	08/27/04		RM	SW 8260
Chloroform	ND	50	ug/L	08/27/04		RM	SW 8260
Methyl ethyl ketone	ND	50	ug/L	08/27/04		RM	SW 8260
Tetrachloroethene	ND	50	ug/L	08/27/04		RM	SW 8260
Trichloroethene	ND	50	ug/L	08/27/04		RM	SW 8260
Vinyl chloride	ND	50	ug/L	08/27/04		RM	SW 8260
QA/QC Surrogates							
%4-Bromofluorobenzene (Surrogate)	93		%	08/27/04		RM	SW 8260
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	170	ug/L	08/27/04		DRC	SW 8270
2,4,5-Trichlorophenol	ND	170	ug/L	08/27/04		DRC	SW 8270
2,4,6-Trichlorophenol	ND	170	ug/L	08/27/04		DRC	SW 8270
2,4-Dinitrotoluene	ND	170	ug/L	08/27/04		DRC	SW 8270
2-Methylphenol (o-Cresol)	ND	170	ug/L	08/27/04		DRC	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	170	ug/L	08/27/04		DRC	SW 8270
Hexachloro-1,3-butadiene	ND	170	ug/L	08/27/04		DRC	SW 8270
Hexachlorobenzene	ND	170	ug/L	08/27/04		DRC	SW 8270
Hexachloroethane	ND	170	ug/L	08/27/04		DRC	SW 8270
Nitrobenzene	ND	170	ug/L	08/27/04		DRC	SW 8270
Pentachlorophenol	ND	850	ug/L	08/27/04		DRC	SW 8270
Pyridine	ND	170	ug/L	08/27/04		DRC	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol (Surrog Rec)	38		%	08/27/04		DRC	SW 8270
% 2-Fluorobiphenyl (Surrogate Rec)	85		%	08/27/04		DRC	SW 8270
% 2-Fluorophenol (Surrogate Rec)	Interference		%	08/27/04		DRC	SW 8270
% Nitrobenzene-d5 (Surrogate Rec)	76		%	08/27/04		DRC	SW 8270
% Phenol-d5 (Surrogate Rec)	9.5		%	08/27/04		DRC	SW 8270
% Terphenyl-d14 (Surrogate Rec)	105		%	08/27/04		DRC	SW 8270

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 30, 2004

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac

Analysis Report

August 30, 2004

FOR: Attn: Ms. Christie Sobal
Blasland & Bouck Engineers, PC
6723 Towpath Road Box 66
Syracuse, NY 13214-0066

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TH	08/19/04	14:30
Location Code:	BLASLAND	Received by:	KJB	08/20/04	10:56
Rush Request:		Analyzed by:	see "By" below		
P.O.#:	26001003				

SDG I.D.: GAF79936
Phoenix I.D.: AF79937

Laboratory Data

Client ID: MCKESSON BEAR ST AREA 3 ROLLOFF

Parameter	Result	RL	Units	Date	Time	By	Reference
TCLP Silver	BDL	0.01	mg/L	08/24/04		EK	E1311/SW6010
TCLP Arsenic	BDL	0.01	mg/L	08/24/04		EK	E1311/SW6010
TCLP Barium	1.33	0.01	mg/L	08/24/04		EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	08/24/04		EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	08/24/04		EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	08/24/04		EK	E1311/SW6010
TCLP Selenium	BDL	0.05	mg/L	08/24/04		EK	E1311/SW6010
TCLP Mercury	BDL	0.001	mg/L	08/24/04		KMC	E1311/E245.1
Percent Solid	75		%	08/21/04		C/D	E160.3
Corrosivity	7.28	NONE	None	08/20/04		CD	S423/E150.1
Flash Point	>200	200	degree F	08/23/04		JR	SW846 - 1010
Ignitability	Passed	140	deg F	08/23/04		JR	SW846 - 1010
pH	7.28	0.10	pH Units	08/20/04	23:00	CD	E150.1/SW9045
Reactivity Cyanide	BDL	1.0	mg/Kg	08/21/04		ME	SW 846-7.3
Reactivity Sulfide	BDL	20	mg/Kg	08/21/04		ME	SW846-7.3
Reactivity	Negative			08/21/04		ME	SW 846-7.3
Soil Extraction for PCB	Completed			08/21/04		AB	3545/3550
TCLP Digestion Mercury	Completed			08/22/04		Y	E1311/7470
TCLP Extraction Herbicides	Completed			08/24/04		X/P	EPA 1311
TCLP Extraction Metals	Completed			08/20/04		TH	EPA 1311
TCLP Extraction Pesticides.	Completed			08/23/04		R/X	EPA 1311
TCLP Extraction Semi-Vol	Completed			08/23/04		R/X	EPA 1311
TCLP Extraction Volatiles.	Completed			08/24/04		R/H	EPA 1311
TCLP Metals Digestion	Completed			08/21/04		TH	SW846 - 3005

Client ID: MCKESSON BEAR ST AREA 3 ROLLOFF | Phoenix I.D.: AF79937

Parameter	Result	RL	Units	Date	Time	By	Reference
Polychlorinated Biphenyls							
PCB-1016	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1221	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1232	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1242	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1248	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1254	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1260	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1262	ND	400	ug/Kg	08/25/04		JH	SW 8082
PCB-1268	ND	400	ug/Kg	08/25/04		JH	SW 8082
QA/QC Surrogates							
% DCBP (Surrogate Rec)	66		%	08/25/04		JH	SW 8082
% TCMX (Surrogate Rec)	35		%	08/25/04		JH	SW 8082
TCLP Herbicides							
2,4,5-TP (Silvex)	ND	1.0	ug/L	08/26/04		KCA	SW8151
2,4-D	ND	5.0	ug/L	08/26/04		KCA	SW8151
QA/QC Surrogates							
% DCAA (Surrogate Rec)	59		%	08/26/04		KCA	SW8151
TCLP Pesticides							
4,4' -DDD	ND	0.1	ug/L	08/25/04		KCA	SW 8081
4,4' -DDE	ND	0.1	ug/L	08/25/04		KCA	SW 8081
4,4' -DDT	ND	0.1	ug/L	08/25/04		KCA	SW 8081
a-BHC	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Aldrin	ND	0.05	ug/L	08/25/04		KCA	SW 8081
b-BHC	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Chlordane	ND	0.3	ug/L	08/25/04		KCA	SW 8081
d-BHC	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Dieldrin	ND	0.1	ug/L	08/25/04		KCA	SW 8081
Endosulfan I	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Endosulfan II	ND	0.1	ug/L	08/25/04		KCA	SW 8081
Endosulfan Sulfate	ND	0.1	ug/L	08/25/04		KCA	SW 8081
Endrin	ND	0.1	ug/L	08/25/04		KCA	SW 8081
Endrin Aldehyde	ND	0.1	ug/L	08/25/04		KCA	SW 8081
g-BHC (Lindane)	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Heptachlor	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Heptachlor epoxide	ND	0.05	ug/L	08/25/04		KCA	SW 8081
Methoxychlor	ND	0.2	ug/L	08/25/04		KCA	SW 8081
Toxaphene	ND	1.0	ug/L	08/25/04		KCA	SW 8081
TCLP Volatiles							
1,1-Dichloroethylene	ND	50	ug/L	08/27/04		RM	SW 8260
1,2-Dichloroethane	ND	50	ug/L	08/27/04		RM	SW 8260

Client ID: MCKESSON BEAR ST AREA 3 ROLLOFF Phoenix I.D.: AF79937

Parameter	Result	RL	Units	Date	Time	By	Reference
Benzene	ND	50	ug/L	08/27/04		RM	SW 8260
Carbon tetrachloride	ND	50	ug/L	08/27/04		RM	SW 8260
Chlorobenzene	ND	50	ug/L	08/27/04		RM	SW 8260
Chloroform	ND	50	ug/L	08/27/04		RM	SW 8260
Methyl ethyl ketone	ND	50	ug/L	08/27/04		RM	SW 8260
Tetrachloroethene	ND	50	ug/L	08/27/04		RM	SW 8260
Trichloroethene	52	50	ug/L	08/27/04		RM	SW 8260
Vinyl chloride	ND	50	ug/L	08/27/04		RM	SW 8260
QA/QC Surrogates							
%4-Bromofluorobenzene (Surrogate)	93		%	08/27/04		RM	SW 8260
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	100	ug/L	08/27/04		DRC	SW 8270
2,4,5-Trichlorophenol	ND	100	ug/L	08/27/04		DRC	SW 8270
2,4,6-Trichlorophenol	ND	100	ug/L	08/27/04		DRC	SW 8270
2,4-Dinitrotoluene	ND	100	ug/L	08/27/04		DRC	SW 8270
2-Methylphenol (o-Cresol)	ND	100	ug/L	08/27/04		DRC	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	100	ug/L	08/27/04		DRC	SW 8270
Hexachloro-1,3-butadiene	ND	100	ug/L	08/27/04		DRC	SW 8270
Hexachlorobenzene	ND	100	ug/L	08/27/04		DRC	SW 8270
Hexachloroethane	ND	100	ug/L	08/27/04		DRC	SW 8270
Nitrobenzene	ND	100	ug/L	08/27/04		DRC	SW 8270
Pentachlorophenol	ND	500	ug/L	08/27/04		DRC	SW 8270
Pyridine	ND	100	ug/L	08/27/04		DRC	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol (Surrog Rec)	106		%	08/27/04		DRC	SW 8270
% 2-Fluorobiphenyl (Surrogate Rec)	101		%	08/27/04		DRC	SW 8270
% 2-Fluorophenol (Surrogate Rec)	Interference		%	08/27/04		DRC	SW 8270
% Nitrobenzene-d5 (Surrogate Rec)	62		%	08/27/04		DRC	SW 8270
% Phenol-d5 (Surrogate Rec)	3.5		%	08/27/04		DRC	SW 8270
% Terphenyl-d14 (Surrogate Rec)	79		%	08/27/04		DRC	SW 8270

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 30, 2004

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Eail: service@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 5 Pg of

Data Delivery (check one):
☐ Fax #:
☐ Email:
Format: ☐ Excel ☐ Pdf ☐ Gis Key

Customer: BBL INC.
Address: 6723 TOWPATH RD SYRACUSE, NY 13214

Project: MCKESSON BEAR ST.
Report to: CHRISTIE SOBAL
Invoice to: CHRISTIE SOBAL

Project P.O: 260.01.003
Phone #: 315 446-2570 x 325
Fax #:

Client Sample - Information - Identification

Sampler's Signature: [signature] Date 8/19/04

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCLP-Metals	TCLP-Herb	TCLP-Pest	TCLP-VOC	TCLP-SVOC	PCBs	Ignitability	Reactivity	Corrosivity	Soil VOA Vials [ ] methanol [ ] Sod Bisulfate	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
79936	AREA 1/2 ROLLOFF	S	8/19/04	1:15Pm	X	X	X	X	X	X	X	X	X		2								
79937	AREA 3 ROLLOFF	S	8/19/04	2:30Pm	X	X	X	X	X	X	X	X	X		2								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	8/19/04	10:52

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
I will TAT.
* Surcharge Applies

Requirements for CT
☐ Res. Criteria
☐ GW Protection
☐ GA Mobility
☐ GB Mobility
☐ SW Protection
☐ Res. Vol.
☐ Ind. Vol.

Requirements for MA
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MCP Certification
☐ Other

Attachment 2

Waste Manifests and Bills of Lading

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No. 040 01

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
McKesson Corporation
1 Post Street, 32nd Floor
San Francisco CA 94104

4. Generator's Phone (415) 983-7598

Van Rensselear and Bear Street
Syracuse NY 13204

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
Hazmat Environmental Group inc.	NYD980769947	716 827-7200
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

TRANSPORTER

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
CWM Chemical Services, LLC 1550 Balmer Road, PO Box 200 Model City NY 14107	NYD049836679	716 754-8231

FACILITY

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-regulated material (soil and concrete)	001	CM	GST 25000	P K
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

a.

b.

c.

d.

E. Handling Codes for Wastes Listed Above

a.

b.

c.

d.

15. Special Handling Instructions and Additional Information
a)VA7434

WTS#13744
SR# 736186

SB192

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

Printed/Typed Name	Signature	Month	Day	Year
[illegible]		10	05	04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Kevin Muggard	Kevin Muggard	10	05	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

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Neenah, WI 54957-0368

GENERATOR'S COPY

12-BLS-C5 Rev. 12/98

HAZMAT
ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14218
www.hazmatinc.com
FAX (716) 827-7217
(716) 827-7200

HAZMAT

NYDEC #9A-278
EPA ID# NYD980769947

DATE / /

291643

PICK UP

SHIPPER

NAME MCKESSON CHEMICAL

STREET 90 BEAR STREET

CITY SYRACUSE STATE NY ZIP CODE

CONTACT NAME PHONE

SCHEDULED TIME

DELIVERY

CONSIGNEE

NAME WASTE MANAGEMENT

STREET [illegible] BALMER ROAD

CITY MODEL CITY STATE NY 141[illegible] ZIP CODE

CONTACT NAME PHONE

[redacted]

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (iii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	H.M. NUMBER
[illegible]			4[illegible]

LOAD NUMBER	TRACTOR	TRAILER	ROLL OFF BOX	DRIVER NUMBER	DRIVER'S NAME
	RTL3	UNKNOWN		MAGGEY	MAGGARD, KEVIN

EQUIPMENT	MATERIAL DESCRIPTION / MANIFEST NUMBER	QUANTITY
EQUIPMENT TYPE ____ UNIT# DROPPED ____ UNIT# PICKED UP ____ CONDITION REPORT ____	[illegible]	[illegible]

PICK UP

PICK UP DATE _____

ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

DAY #2 DATE _____

ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

TRAILER EMPTY UPON ARRIVAL ☐ YES
(if not, explain below—)

DIP MEASUREMENT (Tankers Only) _____ INCHES

COMMENTS: (EXPLAIN ALL DELAYS) _____

HAZMAT MATERIALS USED (ex. overpacks, etc.): ☐ YES ☐ NO

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

SHIPPER'S SIGNATURE **Date**

DELIVERY

DRIVER _____ DAY #1 DATE _____

ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

DAY #2 DATE _____ ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

DAY #3 DATE _____ ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

TRAILER CLEAN AND EMPTY UPON DEPARTURE ☐ YES ☐ NO
(if not, explain below—)

COMMENTS: (Explain all delays or discrepancies)) _____

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

CONSIGNEE'S SIGNATURE **Date**

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No. 04022

2. Page 1 of 1

3. Generator's Name and Mailing Address
McKesson Corporation
1 Post Street, 32nd Floor
San Francisco CA 94104

4. Generator's Phone (4 1 5) 9 8 3 - 7 5 9 8

Van Rensselear and Bear Street
Syracuse NY 13204

5. Transporter 1 Company Name
Hazmat Environmental Group Inc.

6. US EPA ID Number
N Y D 9 8 0 7 6 9 9 4 7

A. Transporter's Phone 716 827-7200

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
CWM Chemical Services, LLC
1550 Balmer Road, PO Box 200
Model City NY 14107

10. US EPA ID Number
N Y D 0 4 9 8 3 6 6 7 9

C. Facility's Phone 716 754-8231

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-regulated material (soil and concrete)	0 0 1	C M	FDT 36000	P X
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a.
b.
c.
d.

E. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
a)VA7434

WTS#13744
SR# 73636

RB 187

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

Printed/Typed Name	Signature	Month	Day	Year
[illegible]		10	05	04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MICHAEL RONCONE	Michael Roncone	10	05	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

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Neenah, WI 54957-0368

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HAZMAT

ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14218
www.hazmatinc.com
FAX (716) 827-7217
(716) 827-7200

HAZMAT

NYDEC #9A-278
EPA ID# NYD980769947

DATE / / 29164

PICK UP

SHIPPER

NAME [illegible]
STREET [illegible]
CITY [illegible] STATE NY ZIP CODE [illegible]
CONTACT NAME PHONE
SCHEDULED TIME

DELIVERY

CONSIGNEE

NAME [illegible]
STREET [illegible]
CITY [illegible] STATE NY ZIP CODE [illegible]
CONTACT NAME PHONE

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (iii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	H.M. NUMBER
		[illegible]	[illegible]

LOAD NUMBER	TRACTOR [illegible]	TRAILER UNKNOWN	ROLL OFF BOX AB102	DRIVER NUMBER [illegible]	DRIVER'S NAME [illegible], MICHAEL

EQUIPMENT	MATERIAL DESCRIPTION / MANIFEST NUMBER	QUANTITY
EQUIPMENT TYPE ____ UNIT# DROPPED UNIT# PICKED UP AB102 CONDITION REPORT ____	NON-REG	EST. 76,000 P

PICK UP

PICK UP DATE 10/5/04
ARRIVAL TIME 7:15 AM PM RELEASE TIME ____ AM PM
DAY #2 DATE ____
ARRIVAL TIME ____ AM PM RELEASE TIME ____ AM PM

TRAILER EMPTY UPON ARRIVAL ☐ YES
(if not, explain below—)
DIP MEASUREMENT (Tankers Only) ____ INCHES
COMMENTS: (EXPLAIN ALL DELAYS) [illegible]
NON

HAZMAT MATERIALS USED (ex. overpacks, etc.): ☐ YES ☐ NO
IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

SHIPPER'S SIGNATURE **Date** [illegible]

DELIVERY

DRIVER ____ DAY #1 DATE ____
ARRIVAL TIME ____ AM PM RELEASE TIME ____ AM PM
DAY #2 DATE ____ ARRIVAL TIME ____ AM PM RELEASE TIME ____ AM PM
DAY #3 DATE ____ ARRIVAL TIME ____ AM PM RELEASE TIME ____ AM PM

TRAILER CLEAN AND EMPTY UPON DEPARTURE ☐ YES ☐ NO
(if not, explain below—)

COMMENTS: (Explain all delays or discrepancies)) ____

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

CONSIGNEE'S SIGNATURE **Date**

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. . . . . | Manifest Doc. No. 04003 | 2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
McKesson Corporation
1 Post Street, 32nd Floor
San Francisco CA 94104

4. Generator's Phone (415) 983-7598

Van Rensselear and Bear Street
Syracuse NY 13204

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
Hazmat Environmental Group Inc.	NYD980769947	716 827-7200
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
	. . . . .	

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
CWM Chemical Services, LLC 1550 Balmer Road, PO Box 200 Model City NY 14107	NYD049836679	716 754-8231

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-regulated material (soil and concrete)	001	CM	EST. 20000	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a. c.
b. d.

E. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
a)VA7434
COLOFF
RB 129

WTS#13744
SR# 136197

TRANSPORTER

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

Printed/Typed Name	Signature	Month	Day	Year
[illegible]		10	07	04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MICHAEL RONCONE	Michael Roncone	10	07	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

OCIATES, INC.

GENERATOR'S COPY

12-BLS-C5 Rev. 12/98

HAZMAT ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14218
www.hazmatinc.com
FAX (716) 827-7217
(716) 827-7200

HAZMAT

NYDEC #9A-278
EPA ID# NYD980769947

DATE / /   29172

PICK UP

SHIPPER

NAME MCKESSON CHEMICAL
STREET [illegible] STREET
CITY SYRACUSE STATE NY [illegible] ZIP CODE
CONTACT NAME PHONE
SCHEDULED TIME

DELIVERY

CONSIGNEE

NAME WASTE MANAGEMENT
STREET [illegible] ROAD
CITY MODEL CITY STATE NY [illegible] ZIP CODE
CONTACT NAME PHONE
[redacted]

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (iii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	H.M. NUMBER
		MAN. DOC. # [illegible]	[illegible]

LOAD NUMBER	TRACTOR	TRAILER	ROLL OFF BOX	DRIVER NUMBER	DRIVER'S NAME
	RTL5	UNKNOWN	RE 124	RONCONE	RONCONE, MICHAEL

EQUIPMENT	MATERIAL DESCRIPTION / MANIFEST NUMBER	QUANTITY
EQUIPMENT TYPE ____ UNIT# DROPPED ____ UNIT# PICKED UP RE 124 CONDITION REPORT ____	NON-REG	EST. 20,000 #

PICK UP

PICK UP DATE 12/7/04
ARRIVAL TIME [illegible] AM/PM RELEASE TIME 7:15 AM/PM
DAY #2 DATE
ARRIVAL TIME AM/PM RELEASE TIME AM/PM
TRAILER EMPTY UPON ARRIVAL ☐ YES
(if not, explain below—)
DIP MEASUREMENT (Tankers Only) ____ INCHES
COMMENTS: (EXPLAIN ALL DELAYS) C/U RE124
[illegible]

HAZMAT MATERIALS USED (ex. overpacks, etc.): ☐ YES ☐ NO
IF YES EXPLAIN:
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE. [signature] [date]

SHIPPER'S SIGNATURE Date

DELIVERY

DRIVER ____ DAY #1 DATE ____
ARRIVAL TIME AM/PM RELEASE TIME AM/PM
DAY #2 DATE ____ ARRIVAL TIME ____ AM/PM RELEASE TIME ____ AM/PM
DAY #3 DATE ____ ARRIVAL TIME ____ AM/PM RELEASE TIME ____ AM/PM
TRAILER CLEAN AND EMPTY UPON DEPARTURE ☐ YES ☐ NO
(if not, explain below—)
COMMENTS: (Explain all delays or discrepancies))

IF YES EXPLAIN:
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

CONSIGNEE'S SIGNATURE Date

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No. 04004

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
McKesson Corporation
1 Post Street, 32nd Floor
San Francisco CA 94104

4. Generator's Phone (4 1 5) 9 8 3 - 7 5 9 8

Van Rensselear and Bear Street
Syracuse NY 13204

5. Transporter 1 Company Name
Hazmat Environmental Group Inc.

6. US EPA ID Number
N Y D 9 8 0 7 6 9 9 4 7

A. Transporter's Phone
716 827-7200

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
CWM Chemical Services, LLC
1550 Balmer Road, PO Box 200
Model City NY 14107

10. US EPA ID Number
N Y D 0 4 9 8 3 6 6 7 9

C. Facility's Phone
716 754-8231

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-regulated material (soil and concrete)	0 0 1	CM	EST. 30.000	P T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a. c.
b. d.

E. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
a)VA7434
WTS#13744
SR# 736187

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

Printed/Typed Name	Signature	Month	Day	Year
[illegible]		10	07	04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Kevin Maggard		10	07	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

GENERATOR'S COPY

HazMat

ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14218
www.hazmatinc.com
FAX (716) 827-7217
(716) 827-7200

HAZMAT

NYDEC #9A-278
EPA ID# NYD980769947

DATE / / 29171

PICK UP

SHIPPER

NAME
STREET
CITY STATE ZIP CODE
CONTACT NAME PHONE
SCHEDULED TIME

DELIVERY

CONSIGNEE

NAME
STREET
CITY STATE ZIP CODE
CONTACT NAME PHONE

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (iii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	H.M. NUMBER

LOAD NUMBER	TRACTOR	TRAILER	ROLL OFF BOX	DRIVER NUMBER	DRIVER'S NAME

EQUIPMENT	MATERIAL DESCRIPTION / MANIFEST NUMBER	QUANTITY
EQUIPMENT TYPE _____ UNIT# DROPPED _____ UNIT# PICKED UP _____ CONDITION REPORT _____		

PICK UP

PICK UP DATE _____

ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

DAY #2 DATE _____

ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

TRAILER EMPTY UPON ARRIVAL ☐ YES
(if not, explain below—)

DIP MEASUREMENT (Tankers Only) _____ INCHES

COMMENTS: (EXPLAIN ALL DELAYS) _____

HAZMAT MATERIALS USED (ex. overpacks, etc.): ☐ YES ☐ NO

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

SHIPPER'S SIGNATURE **Date**

DELIVERY

DRIVER _____ DAY #1 DATE _____

ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

DAY #2 DATE _____ ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

DAY #3 DATE _____ ARRIVAL TIME _____ AM PM RELEASE TIME _____ AM PM

TRAILER CLEAN AND EMPTY UPON DEPARTURE ☐ YES ☐ NO
(if not, explain below—)

COMMENTS: (Explain all delays or discrepancies)) _____

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

CONSGNEE'S SIGNATURE **Date**

Attachment 3

Well Construction Logs

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Date Start/Finish: 8/10/04 **Drilling Company:** Parratt Wolff **Driller's Name:** Robert Baldoze **Drilling Method:** HSA and DRC 3 7/8" Tricone Bit **Bit Size:** 4 1/4" **Auger Size:** 4 1/4" HSA **Rig Type:** CME 850 **Sampling Method:** NA	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 20' below grade **Surface Elevation:** 372.70' **Geologist:** Ricardo Jaimes	**Well/Boring ID:** MW-8SR **Client:** McKesson Envirosystems **Location:** Bear Steet Facility Syracuse, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
375 / 0									No samples collected from 0' - 20.0' bgs. See log for MW-8S for Stratigraphic description.	Stick up with protective casing with locking cover 2" ID Sch. 40 PVC Riser (2.5' ags - 10.0' bgs) 2" ID Sch. 40 PVC Riser (2.5' ags - 10.0' bgs) Cement-Bentonite Grout (0' - 6.0' bgs) Hydrated bentonite chips seal (6.0' - 8.0' bgs) Grade #00 Silica Sand Pack (8.0' - 20.0' bgs) 2" 0.010 Slot Sch. 40 PVC Screen (10.0' - 20.0' bgs)
370 / 5										
365 / 10										
360 / 15										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface.
Tricone bit was used to drill the interval between 7.0' and 20' bgs.

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: MW-8SR

Borehole Depth: 20' below grade

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
355									No samples collected from 0' - 20.0' bgs. See log for MW-8S for Stratigraphic description.	2" 0.010 Slot Sch. 40 PVC Screen (10.0' - 20.0' bgs); Grade #00 Silica Sand Pack (8.0' - 20.0' bgs); PVC Bottom cap
20										
350										
25										
345										
30										
340										
35										

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface.
Tricone bit was used to drill the interval between 7.0' and 20' bgs.

Date Start/Finish: 8/10/04
Drilling Company: Parratt Wolff
Driller's Name: Robert Baldoze
Drilling Method: HSA and DRC 3 7/8" Tricone Bit
Bit Size: 4 1/4"
Auger Size: 4 1/4" HSA
Rig Type: CME 850
Sampling Method: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20' below grade
Surface Elevation: 373.3'

Geologist: Ricardo Jaimes

Well/Boring ID: TW-02RR

Client: McKesson Envirosystems

Location: Bear Steet Facility
Syracuse, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
375 / 0									No samples collected from 0' - 20.0' bgs. See log for TW-02 for Stratigraphic description.	Stick up with protective casing with locking cover; 2" ID Sch. 40 PVC Riser (2.5' ags - 10.0' bgs); 2" ID Sch. 40 PVC Riser (2.5' ags - 10.0' bgs); Cement-Bentonite Grout (0' - 6.0' bgs); Hydrated bentonite chips seal (6.0' - 8.0' bgs); Grade #00 Silica Sand Pack (8.0' - 20.0' bgs); 2" 0.010 Slot Sch. 40 PVC Screen (10.0' - 20.0' bgs)
370 / 5										
365 / 10										
360 / 15										

BBL
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engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;
Tricone bit was used to drill the interval between 7.0' and 20' bgs.

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: TW-02RR

Borehole Depth: 20' below grade

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
355 / 0									No samples collected from 0' - 20.0' bgs. See log for TW-02 for Stratigraphic description.	2" 0.010 Slot Sch. 40 PVC Screen (10.0' - 20.0' bgs); Grade #00 Silica Sand Pack (8.0' - 20.0' bgs); PVC Bottom cap
20										
350										
25										
345										
30										
340										
35										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;
Tricone bit was used to drill the interval between 7.0' and 20' bgs.

Date Start/Finish: 8/4/04
Drilling Company: Parratt Wolff
Driller's Name: Robert Baldoze
Drilling Method: HSA
Bit Size: 4 1/4"
Auger Size: 4 1/4" HSA
Rig Type: CME 850
Sampling Method: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 17' below grade
Surface Elevation: NA

Geologist: Ricardo Jaimes

Well/Boring ID: WP-1

Client: McKesson Envirosystems

Location: Bear Steet Facility
Syracuse, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 0									No samples collected from 0' - 17.0' bgs. See log for MW-28 for Stratigraphic description.	1" ID Black steel Riser (2.5' ags - 7.0' bgs); Cement-Bentonite Grout (0' - 4.5' bgs); Hydrated bentonite chips seal (4.5' - 6.5' bgs); 1" 0.010 Slot Sch. Stainless Steel Screen (7.0' - 17.0' bgs); Grade #00 Silica Sand Pack (6.5' - 17.0' bgs)
5 -5										
10 -10										
15 -15										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: WP-1

Borehole Depth: 17' below grade

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									No samples collected from 0' - 17.0' bgs. See log for MW-28 for Stratigraphic description.	Grade #00 Silica Sand Pack (6.5' - 17.0' bgs) 1" 0.010 Slot Sch. Stainless Steel Screen (7.0' - 17.0' bgs) Steel Bottom cap
20-20										
25-25										
30-30										
35-35										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Date Start/Finish: 8/10/04 **Drilling Company:** Parratt Wolff **Driller's Name:** Robert Baldoze **Drilling Method:** HSA **Bit Size:** 4 1/4" **Auger Size:** 4 1/4" HSA **Rig Type:** CME 850 **Sampling Method:** NA	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 17' below grade **Surface Elevation:** NA **Geologist:** Ricardo Jaimes	**Well/Boring ID:** WP-2 **Client:** McKesson Envirosystems **Location:** Bear Steet Facility Syracuse, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0									No samples collected from 0' - 17.0' bgs. See log for MW-28 for Stratigraphic description.	1" ID Black steel Riser (2.5' ags - 7.0' bgs) Cement-Bentonite Grout (0' - 4.5' bgs) Hydrated bentonite chips seal (4.5' - 6.5' bgs) 1" 0.010 Slot Sch. Stainless Steel Screen (7.0' - 17.0' bgs) Grade #00 Silica Sand Pack (6.5' - 17.0' bgs)
5	-5										
10	-10										
15	-15										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: WP-2

Borehole Depth: 17' below grade

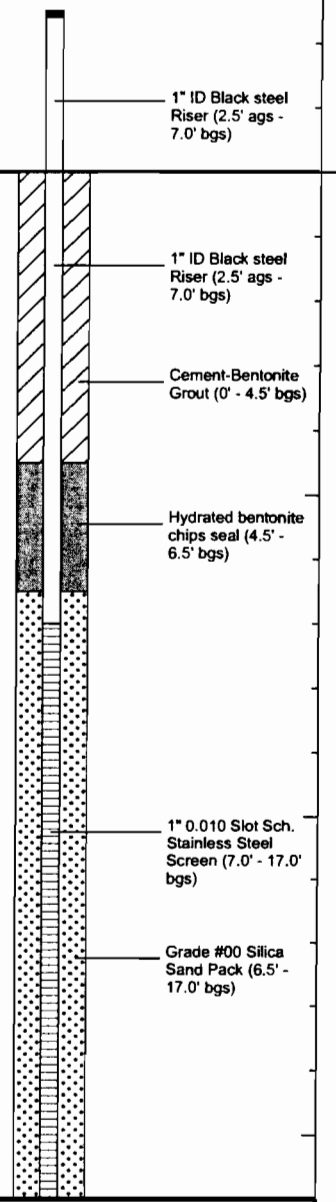
DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									No samples collected from 0' - 17.0' bgs. See log for MW-28 for Stratigraphic description.	Grade #00 Silica Sand Pack (6.5' - 17.0' bgs) 1" 0.010 Slot Sch. Stainless Steel Screen (7.0' - 17.0' bgs) Steel Bottom cap
20-20										
25-25										
30-30										
35-35										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Date Start/Finish: 8/4/04 **Drilling Company:** Parratt Wolff **Driller's Name:** Robert Baldoze **Drilling Method:** HSA **Bit Size:** 4 1/4" **Auger Size:** 4 1/4" HSA **Rig Type:** CME 850 **Sampling Method:** NA	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 17' below grade **Surface Elevation:** NA **Geologist:** Ricardo Jaimes	**Well/Boring ID:** WP-3 **Client:** McKesson Envirosystems **Location:** Bear Steet Facility Syracuse, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0									No samples collected from 0' - 17.0' bgs. See log for MW-28 for Stratigraphic description.	
5	-5										
10	-10										
15	-15										



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: WP-3

Borehole Depth: 17' below grade

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									No samples collected from 0' - 17.0' bgs. See log for MW-28 for Stratigraphic description.	 Grade #00 Silica Sand Pack (6.5' - 17.0' bgs); 1" 0.010 Slot Sch. Stainless Steel Screen (7.0' - 17.0' bgs); Steel Bottom cap
20-20										
25-25										
30-30										
35-35										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Date Start/Finish: 8/9/04 **Drilling Company:** Parratt Wolff **Driller's Name:** Robert Baldoze **Drilling Method:** HSA **Bit Size:** 4 1/4" **Auger Size:** 4 1/4" HSA **Rig Type:** CME 850 **Sampling Method:** NA	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 19' below grade **Surface Elevation:** NA **Geologist:** Ricardo Jaimes	**Well/Boring ID:** WP-4 **Client:** McKesson Envirosystems **Location:** Bear Steet Facility Syracuse, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 0									No samples collected from 0' - 19.0' bgs. See log for MW-33 for Stratigraphic description.	1" ID Black steel Riser (2.5' ags - 9.0' bgs) 1" ID Black steel Riser (2.5' ags - 9.0' bgs) Cement-Bentonite Grout (0' - 6.5' bgs) Hydrated bentonite chips seal (6.5' - 8.5' bgs) 1" 0.010 Slot Sch. Stainless Steel Screen (9.0' - 19.0' bgs) Grade #00 Silica Sand Pack (8.5' - 19.0' bgs)
5 -5										
10 -10										
15 -15										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: WP-4

Borehole Depth: 19' below grade

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									No samples collected from 0' - 19.0' bgs. See log for MW-33 for Stratigraphic description.	Grade #00 Silica Sand Pack (8.5' - 19.0' bgs) 1" 0.010 Slot Sch. Stainless Steel Screen (9.0' - 19.0' bgs) Steel Bottom cap
20-20										
25-25										
30-30										
35-35										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Date Start/Finish: 8/9/04
Drilling Company: Parratt Wolff
Driller's Name: Robert Baldoze
Drilling Method: HSA
Bit Size: 4 1/4"
Auger Size: 4 1/4" HSA
Rig Type: CME 850
Sampling Method: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 19' below grade
Surface Elevation: NA

Geologist: Ricardo Jaimes

Well/Boring ID: WP-5

Client: McKesson Envirosystems

Location: Bear Steet Facility
Syracuse, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0									No samples collected from 0' - 19.0' bgs. See log for MW-33 for Stratigraphic description.	1" ID Black steel Riser (2.5' ags - 9.0' bgs); Cement-Bentonite Grout (0' - 6.5' bgs); Hydrated bentonite chips seal (6.5' - 8.5' bgs); 1" 0.010 Slot Sch. Stainless Steel Screen (9.0' - 19.0' bgs); Grade #00 Silica Sand Pack (8.5' - 19.0' bgs)
5 / -5										
10 / -10										
15 / -15										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: WP-5

Borehole Depth: 19' below grade

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									No samples collected from 0' - 19.0' bgs. See log for MW-33 for Stratigraphic description.	Grade #00 Silica Sand Pack (8.5' - 19.0' bgs) 1" 0.010 Slot Sch. Stainless Steel Screen (9.0' - 19.0' bgs) Steel Bottom cap
20-20										
25-25										
30-30										
35-35										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Date Start/Finish: 8/10/04
Drilling Company: Parratt Wolff
Driller's Name: Robert Baldoze
Drilling Method: HSA
Bit Size: 4 1/4"
Auger Size: 4 1/4" HSA
Rig Type: CME 850
Sampling Method: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 18' below grade
Surface Elevation: NA

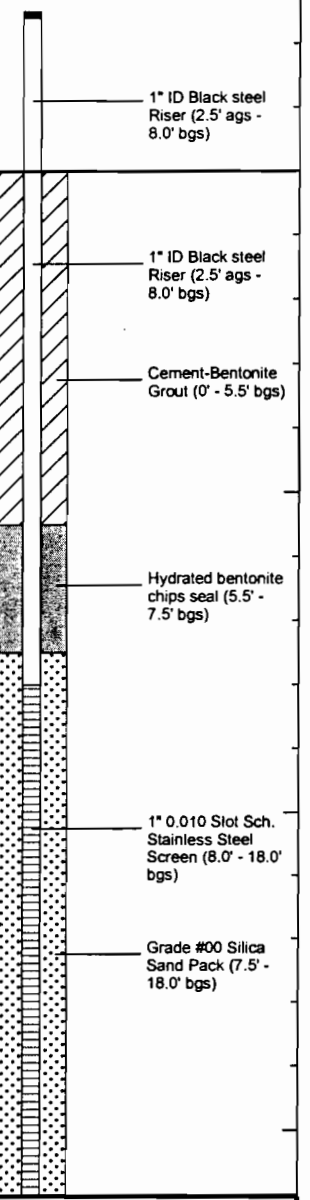
Geologist: Ricardo Jaimes

Well/Boring ID: WP-6

Client: McKesson Envirosystems

Location: Bear Steet Facility
Syracuse, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0									No samples collected from 0' - 18.0' bgs. See log for MW-27 for Stratigraphic description.	
5	-5										
10	-10										
15	-15										



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: WP-6

Borehole Depth: 18' below grade

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									No samples collected from 0' - 18.0' bgs. See log for MW-27 for Stratigraphic description.	Grade #00 Silica Sand Pack (7.5' - 18.0' bgs) 1" 0.010 Slot Sch. Stainless Steel Screen (8.0' - 18.0' bgs) Steel Bottom cap
20-20										
25-25										
30-30										
35-35										

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Date Start/Finish: 8/12/04
Drilling Company: Parratt Wolff
Driller's Name: Robert Baldoze
Drilling Method: HSA
Bit Size: 4 1/4"
Auger Size: 4 1/4" HSA
Rig Type: CME 850
Sampling Method: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 18' below grade
Surface Elevation: NA

Geologist: Ricardo Jaimes

Well/Boring ID: WP-7

Client: McKesson Envirosystems

Location: Bear Steet Facility
Syracuse, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0									No samples collected from 0' - 18.0' bgs. See log for MW-27 for Stratigraphic description.	1" ID Black steel Riser (2.5' ags - 8.0' bgs); Cement-Bentonite Grout (0' - 5.5' bgs); Hydrated bentonite chips seal (5.5' - 7.5' bgs); 1" 0.010 Slot Sch. Stainless Steel Screen (8.0' - 18.0' bgs); Grade #00 Silica Sand Pack (7.5' - 18.0' bgs)
5 / -5										
10 / -10										
15 / -15										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: WP-7

Borehole Depth: 18' below grade

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									No samples collected from 0' - 18.0' bgs. See log for MW-27 for Stratigraphic description.	Grade #00 Silica Sand Pack (7.5' - 18.0' bgs) 1" 0.010 Slot Sch. Stainless Steel Screen (8.0' - 18.0' bgs) Steel Bottom cap
20-20										
25-25										
30-30										
35-35										

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Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Date Start/Finish: 8/12/04
Drilling Company: Parratt Wolff
Driller's Name: Robert Baldoze
Drilling Method: HSA
Bit Size: 4 1/4"
Auger Size: 4 1/4" HSA
Rig Type: CME 850
Sampling Method: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 18' below grade
Surface Elevation: NA

Geologist: Ricardo Jaimes

Well/Boring ID: WP-8

Client: McKesson Envirosystems

Location: Bear Steet Facility
Syracuse, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 0									No samples collected from 0' - 18.0' bgs. See log for MW-27 for Stratigraphic description.	1" ID Black steel Riser (2.5' ags - 8.0' bgs); Cement-Bentonite Grout (0' - 5.5' bgs); Hydrated bentonite chips seal (5.5' - 7.5' bgs); 1" 0.010 Slot Sch. Stainless Steel Screen (8.0' - 18.0' bgs); Grade #00 Silica Sand Pack (7.5' - 18.0' bgs)
5 -5										
10 -10										
15 -15										

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Remarks: NA = Not Applicable/Available; bgs = below ground surface;

Client:
McKesson Envirosystems

Site Location:
Bear Steet Facility
Syracuse, NY

Well/Boring ID: WP-8

Borehole Depth: 18' below grade

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									No samples collected from 0' - 18.0' bgs. See log for MW-27 for Stratigraphic description.	Grade #00 Silica Sand Pack (7.5' - 18.0' bgs); 1" 0.010 Slot Sch. Stainless Steel Screen (8.0' - 18.0' bgs); Steel Bottom cap
20-20										
25-25										
30-30										
35-35										

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Remarks: NA = Not Applicable/Available; bgs = below ground surface;