8976 Wellington Road
Manassas, VA 20109

March 28, 2013

George Heitzman
Division of Environmental Remediation
New York State Dept. of Environmental Conservation
625 Broadway, 11th Floor
Albany, NY 12233-7014

Re: Former IBM Kingston Facility (TechCity Site)
Site Number: 356002
2012 Annual Groundwater Monitoring Report

Dear Mr. Heitzman:

Enclosed please find the 2012 Annual Groundwater Monitoring Report for the former IBM Kingston Facility (TechCity Site). In July 2011, the Part 373 RCRA for the Site was superseded by a Part 375 Order on Consent (Order). This groundwater monitoring report is being submitted as per NYSDEC's request. Future groundwater monitoring reports will be included as part of the Periodic Review Reports once the Interim Site Management Plan is approved.

If you have any questions, please call Dean Chartrand at (703) 257-2583.

Sincerely yours

M. E. Meyers
Manager, Environmental Remediation
Corporate Environmental Affairs

Recipient	NYSDEC Albany (electronic copy only)
Benjamin Conlon, Esq.	NYSDEC Albany 3 (electronic copy only)
Wayne Mizerak	NYSDEC Albany (paper and electronic copy)
Kristin Kulow	NYSDOH Oneonta (electronic copy only)
Daniel Wienke	Tech City Properties, Inc (paper and electronic copy)

Former IBM Kingston Facility (TechCity)
Site Number: 356002
Order on Consent Index: D3-10023-6-11

2012 ANNUAL GROUNDWATER MONITORING REPORT

Prepared for:

IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, VA 20109

March 28, 2013

Prepared by:

Groundwater Sciences Corporation

2601 Market Place Street, Suite 310
Harrisburg, Pennsylvania 17110

560 Route 52, Suite 202
Beacon, New York 12508

1108 Vestal Parkway East, Suite 2
Vestal, New York 13850

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 SITE OVERVIEW 2

2.1 Site Background 2

2.2 Generalized Geology 3

2.3 Generalized Hydrogeology 5

3.0 FORMER INDUSTRIAL WASTE SLUDGE LAGOON AREA 6

4.0 GROUNDWATER MONITORING RESULTS 7

4.1 Summary of Field Activities 7

4.1.1 Groundwater Monitoring Well Sampling 7

4.1.2 Physical Well Inventory and Maintenance 7

4.1.3 Groundwater Elevation Measurements 7

4.2 Chemical Constituents in Groundwater 7

4.3 Groundwater Flow 9

5.0 GROUNDWATER REMEDIATION SYSTEM OPERATION, MAINTENANCE AND MONITORING (OM&M) 11

5.1 Groundwater Remediation System Components 11

5.1.1 Groundwater Collection System 11

5.1.2 North Parking Lot Area (Passive Groundwater Collection System) 12

5.1.3 Groundwater Treatment System 12

5.2 Summary of Operations 12

5.3 Evaluation of the Groundwater Remediation System 13

5.4 O&M Deficiencies 13

6.0 OTHER ACTIVITIES AND REPORTING 14

7.0 REFERENCES 15

LIST OF TABLES

Table A Summary of Abbreviations Used in this Report

Table 2-1 Operable Units, including Proposed Use and Status

LIST OF FIGURES

Figure 1-1 Site Location Map

Figure 2-1 Site Layout and Area Map

Figure 3-1 Surficial Sand Aquifer Groundwater Elevation Contour Map, First Quarter 2012

Figure 3-2 Surficial Sand Aquifer Groundwater Elevation Contour Map, Second Quarter 2012

Figure 3-3 Tetrachloroethene Concentration Contour Map

Figure 3-4 Trichloroethene Concentration Contour Map

Figure 3-5 1,2-Dichloroethene (Total) Concentration Contour Map

Figure 3-6 Vinyl Chloride Concentration Contour Map

Figure 3-7 1,1,1-Trichloroethane Concentration Contour Map

Figure 3-8 1,1-Dichloroethene Concentration Contour Map

Figure 3-9 1,1-Dichloroethane Concentration Contour Map

Figure 3-10 Freon® 113 Concentration Contour Map

Figure 3-11 1,2-Dichloroethane Concentration Contour Map

Figure 3-12 Chloroform Concentration Contour Map

Figure 3-13 1,1,2-Trichloroethane Concentration Contour Map

Figure 3-14 Total Chlorinated VOCs Concentration Distribution Map

Figure 4-1 Groundwater Collection System Trench Extension Location Map

Table of Plates

Plate 1 Soil Boring, Test Pit and Well Location Map

Table of Appendices

Appendix A Groundwater and Field QA/QC Data Report

Appendix B Groundwater Elevation Table

Appendix C Groundwater Withdrawal Data Tables (GWCS and NPLA)

Appendix D Groundwater Extraction and Treatment System Data Report including Flux Calculations

Table A: Summary of Abbreviations Used in this Report	
111-TCA	1,1,1-Trichlorethane
11-DCA	1,1-Dichloroethane
11-DCE	1,1-Dichloroethene
CEA	Chloroethane
PCE	Tetrachloroethylene
TCE	Trichloroethylene
12-DCE	1,2-Dichloroethene (total)
VC	Vinyl Chloride
112-TCA	1,1,2-Trichloroethane
12-DCA	1,2-Dichloroethane
DCM	Methylene Chloride (Dicholoromethane)
TCM	Chloroform (Trichloromethane)
CIS13-DCPRE	Cis-1,2-Dichloropropene
CBZ	Chlorobenzene
12-DCBZ	1,2-Dichlorobenzene
DCDFM	Dichlorodifluoromethane
Freon® 113	1,1,2-Trichloro-1,2,2-Trifluoroethane
Freon® 123a	1,2-Dichloro-1,2,2-Trifluoroethane

1.0 INTRODUCTION

This Annual Groundwater Monitoring Report, prepared by Groundwater Sciences Corporation (GSC) on behalf of International Business Machines Corporation (IBM), presents the results of the groundwater monitoring and remediation system operation, maintenance, and monitoring activities conducted during the 2012 calendar year at the former IBM Kingston Facility (the Site) located at 300 Enterprise Drive, Kingston, Ulster County, New York (see Figure 1-1).

Section 2.0 of this report presents a site overview. Section 3.0 reports the results of the inspections and maintenance of the closed former Industrial Waste Sludge Lagoon (IWSL). Section 4.0 includes the analytical data for groundwater samples collected during the previous annual period (January 1, 2012 through December 31, 2012). Section 5.0 presents the results of the groundwater remediation system operations including a report on the contaminant recovery levels and treatment efficiency data. Section 6.0 provides a summary listing of reports on other activities completed. Section 7.0 provides reference listing of historical documents used in the preparation of this report.

2.0 SITE OVERVIEW

The following sections provide details on Site, including current Site conditions and the Site chronology.

2.1 Site Background

The Site is located north of the City of Kingston in the Town of Ulster, Ulster County, New York and is bounded by John M. Clarke Drive and Route 9W to the east, Old Neighborhood Road and Route 209 to the north, Esopus Creek to the west and Boices Lane to the south (see Figure 2-1).

The approximately 258-acre property was first developed by IBM from farmland during the 1950s. The primary activities included the manufacturing of electric typewriters and the development, manufacture and testing of computer systems and related components and technologies. IBM ceased operations during the early-1990s and the property was subsequently subdivided into multiple parcels. In 1998, IBM sold the Site to AG Properties of Kingston, LLC and Ulster Business Complex, LLC. The Site is currently managed by TechCity Properties, Inc. (TechCity).

The portion of the Site located east of Enterprise Drive is referred to as the East Campus and includes the majority of the buildings at the Site, many of which are vacant. The portion located west of Enterprise Drive is referred to as the West Campus and includes Buildings 201 (B201), Building 202 (B202) and Building 203 (B203) (currently referred to as the Bank of America facility); a large parking area south and west of the Bank of America facility; and generally undeveloped land further to the southwest and north of the Bank of America facility.

IBM completed extensive RCRA Facility Investigations (RFIs) beginning in the 1990s through 2002 to delineate the occurrence and extent of volatile organic compounds (VOCs) in groundwater beneath the Site. These investigations led to the installation and sampling of soil borings and groundwater monitoring wells. Corrective Measures implemented by IBM include the operation and maintenance of a perimeter control system that intercepts the groundwater plume. The perimeter control system consists of two stormwater sewer systems; an unsaturated portion of the surficial sand unit that underlies the site; a utility trench barrier wall; and a groundwater collection system (see Figure 2-1).

The site was listed as a Class 4 Site (Site # 356002) in the Registry of Inactive Hazardous Waste Disposal Sites in New York State and was managed in compliance with the October 4, 1996 Hazardous Waste Management Permit #3-5154-00067/00090 (6 NYCRR Part 373) (RCRA Permit) until the Order on Consent (Order), Index # D3-10023-6-11, for Site 356002, was signed with New York State Department of Environmental Conservation (NYSDEC) by IBM and TechCity on July 8, 2011.

The Order, which supersedes and replaces the former RCRA Permit, divided the site into ten Operable Units (OUs). The locations of the OUs are depicted in Figure 2-1. Table 2-1 presents a list of the OUs, including the proposed OU use and which OUs remain listed as a Class 4 Inactive Hazardous Waste Disposal Site.

Table 2-1: Listing of Operable Units, Proposed Use and Status

Operable Unit	Proposed Use	Status
OU1	Commercial	
OU 2	Commercial	
OU 3	Commercial	Included as part of the Class 4 Inactive Hazardous Waste Disposal Site # 356002
OU 3a	Commercial	Included as part of the Class 4 Inactive Hazardous Waste Disposal Site # 356002
OU 4	Restricted Residential	
OU4a	Commercial	
OU5	Commercial	Included as part of the Class 4 Inactive Hazardous Waste Disposal Site # 356002
OU6	Commercial	
OU7	Commercial	
OU8	Commercial	

2.2 Generalized Geology

The Site is located within the Hudson-Mohawk Lowland Physiographic Province. The bedrock underlying the western portion of the site consists of siltstone and shale of the Middle Devonian

Age Lower Hamilton Group. The eastern portion of the site is underlain by both the Lower Hamilton Group and the Lower Devonian Age Onondaga Limestone. The exact location and nature of the contact between these units is not known. The Lower Hamilton Group forms a north-northwest trending bedrock high approximately coincident with Enterprise Drive, and is described as a calcareous shale in boring logs completed during previous site investigations.

Literature on regional geologic conditions indicate that a glacially-derived sand and gravel unit directly overlies the bedrock west of Enterprise Drive and a glacial till unit overlies the bedrock east of Enterprise Drive. These unconsolidated units are overlain by a varved silt and clay unit that is interpreted to be of lacustrine origin, with a thickness of zero feet in an area where it is absent proximate to the bedrock high, to over 180-feet in the central portion of East Campus as determined by previous site borings. The clay portion of the varved silt and clay unit serves as an aquitard throughout most the site, except in the localized area in the vicinity of the bedrock high where it is absent.

A well sorted, fine to coarse-grained sand of lacustrine origin, with intermittent, thin, silty-clay zones, overlies the varved silt and clay (or bedrock where the varved silt and clay is absent in the vicinity of the bedrock high). This surficial sand unit ranges in thickness across the site from approximately 6-feet in the area of the bedrock ridge to greater than 30-feet in the central portion of the East Campus. A discontinuous transition zone of relatively fine-grained materials is present at the base of the surficial sand unit in some areas of the site (GSC, 1997).

Generalized descriptions of the near-surface lithologic units encountered at the site are as follows:

- **Surficial SAND Unit:** Consists of a light brown, fine to medium grained sand containing variable amounts of finer-grained silt and clay. This unit is typically saturated below a depth of approximately 6 to 7-feet below ground surface (ft bgs).
- **SILTY-SAND and CLAY Transition Unit:** Consists of variable amounts of reddish-brown to gray silt, sand, and clay. Typical appearance in a soil core is a silty-sand matrix containing thin lenses of silt and sandy clay. This unit, if present, is generally encountered between 15 to 20-ft bgs in the vicinity of B001.

- **Varved CLAY Unit:** Consists of red-brown and gray, plastic, cohesive, wet clay with intermittent silt zones. Typical appearance in a soil core is clay with laminae of silt and sometimes very fine-grained sand. This unit is typically encountered at approximately 20 to 25-ft bgs in the B001 area, with greater or lesser depths of first occurrence in localized areas.

The thickness of the sand unit increases and the thickness of the transition unit decreases coinciding with a shallowing of the depth to top-of-clay along the western edge of a clay unit "valley" identified in the *RCRA Facility Investigation on Groundwater Plumes* report (GSC, 1997b). This valley is deepest below B001 and B003 (i.e., approximately 30 ft bgs to the top of the clay unit) and extends southward to the east of Building B025 (B025) and then west towards Boices Lane.

2.3 Generalized Hydrogeology

The varved clay unit serves as an aquitard throughout most the Site. Therefore groundwater in the bedrock and in the deep sand and gravel and glacial till units that underlie the varved silt and clay is under confined conditions. Groundwater within the surficial sand unit that overlies the varved silt and clay unit is unconfined. The surficial sand unit is typically unsaturated in the area of the bedrock high along Enterprise Drive.

The estimated horizontal hydraulic conductivity of the surficial sand unit ranges from approximately 65 feet per day (ft/day) to 270 ft/day (i.e., 2.3×10^{-2} centimeters per second [cm/sec] to 9.5×10^{-2} cm/sec), with an average hydraulic conductivity of approximately 100 ft/day [2.3×10^{-2} cm/sec]. The horizontal hydraulic conductivity of the varved silt and clay unit has been estimated at approximately one (1) foot per day [3.5×10^{-4} cm/sec]. The vertical hydraulic conductivity of this unit is likely significantly lower than its horizontal hydraulic conductivity due to the horizontal bedding structure. The low vertical hydraulic conductivity and thickness of the unit support the designation of the varved silt and clay as an aquitard.

3.0 FORMER INDUSTRIAL WASTE SLUDGE LAGOON AREA

The former Industrial Waste Sludge Lagoon (IWSL), designated as OU-5, was rectangular in shape, approximately 158 feet by 60 feet by 10 feet deep and covered an area of approximately 9,500 square feet (0.22 acres). As constructed in 1955, the lagoon was lined with a six inch layer of clay. In 1978, the sludge lagoon was reconstructed and lined with a 45 mil thick membrane liner with nylon reinforcement. Closure of the sludge lagoon commenced on December 1, 1984 in accordance with an approved closure plan. Sludge and solids were removed in addition to the liner.

Trace levels of residual constituents were left in place below the liner (i.e., below an elevation of 141 feet). Two feet of crushed limestone was place to an elevation of 143 feet. The lagoon was then backfilled with clean sand to within 6 inches of finished grade and covered with top soil and seeded. Certification of closure was provided by a licensed engineer on June 12, 1985.

In addition to the groundwater monitoring network, OU-5 currently includes two other Engineering Control systems associated with the former IWSL that potentially require maintenance: the IWSL cover system and the security fence. The former IWSL is enclosed within an 8-foot high chain-link fence and all gates are locked except when in use. Warning signs are posted around the fence and bear the legend “Danger – Unauthorized Personnel Keep Out”.

The lagoon cover system and security fence were inspected quarterly. Routine maintenance activities were conducted to preserve the integrity and functionality of the soil cover system and included mowing and reseeding as necessary, to maintain the grass cover on the closed unit. No repairs were required to either the chain-link security fence or the cover system during the previous annual period.

4.0 GROUNDWATER MONITORING RESULTS

The following sections detail the monitoring completed during the reporting period.

4.1 Summary of Field Activities

4.1.1 Groundwater Monitoring Well Sampling

Sampling and analysis of groundwater was performed at the Site for the previous annual period in accordance with protocols contained in the currently approved Groundwater Monitoring Plan (GMP). The results of the routine groundwater sampling and the associated Quality Assurance/ Quality Control data are reproduced in Appendix A.

4.1.2 Physical Well Inventory and Maintenance

During each sampling event, the monitoring wells were inspected for integrity in accordance with the Groundwater Monitoring System Inspection Plan. All other wells and piezometers, included as hydraulic effectiveness wells, were also inspected over the period from August 27 through September 4, 2012.

4.1.3 Groundwater Elevation Measurements

During each sampling event, water levels were measured hydraulic effectiveness wells. The results of each of these water level surveys were converted to groundwater elevations and are presented in Appendix B.

4.2 Chemical Constituents in Groundwater

Identified constituents of concern in the surficial sand aquifer include the following chlorinated VOCs: 1,1,1-trichloroethance [111-TCA], trichloroethene [TCE] and tetrachloroethene [PCE], and related degradation products (i.e., 1,1-dichloroethene [1,1-DCE], 1,1-dichloroethane [1,1-DCA], 1,2-cis-dichloroethene [1,2-DCE] and 1,2-dichloroethane [1,2-DCA]). Other VOCs have been detected in groundwater, including carbon tetrachloride, freon and petroleum hydrocarbons; however, concentrations of these VOCs are generally lower and less extensive than the chlorinated compounds.

Four groundwater plumes have been identified at the site, including:

- The North Parking Lot Area (NPLA) Plume (located to the north of B001 and B003) is primarily composed of TCE and 111-TCA, and to a lesser degree PCE. Based on historic groundwater quality sampling and soil vapor screening investigations, the source areas for this plume are likely associated with historic manufacturing activities in B001, B002, B003, B004 and B005S including industrial waste sewer lines located beneath these buildings (as noted below) and north of B001 and B003. Concentrations of PCE, TCE and 111-TCA in the NPLA Plume appear to originate in the central and western portions of the eastern campus.

- The B005 Plume Area, located beneath B001, B002, B003, B004 and B005, is primarily composed of TCE and 111-TCA. Based on historic groundwater quality sampling and soil vapor screening investigations, this plume is believed to have originated from activities in B001, B003, B004 and B005S.

- An isolated PCE plume, extending from the southern portion of B005 to the 42-inch sewer and originating from a release(s) at a PCE tank located in the southeastern corner of B005.

- The Industrial Waste Treatment Facility (IWTF) Plume, located near Building 036 (B036). The plume in this area is not likely to have originated from the IWTF, but is believed to have migrated from the eastern campus plume along the underground utility pipes prior to the installation of the utility trench barrier wall.

Figures 3-3 through 3-13 present a generalized depiction of areas where groundwater is impacted by VOCs and correspond to the following compounds: PCE; TCE; 12-DCE; VC; 111-TCA; 11-DCE; 11-DCA; Freon® 113; 12-DCA; TCM and 112-TCA. The contour maps were prepared with results from second quarter and the data are posted adjacent to the well location. If wells were not sampled during the second quarter, monitoring data have not been posted and concentration contours have been inferred based on historical monitoring data. The occurrence of chemical constituents in groundwater at levels exceeding the New York State Groundwater Quality (Part 703) Standard (NYSGQS) is reflected by the value of the lowest concentration contour on each concentration contour map presented in this report. Figure 3-14 presents a total chlorinated VOCs distribution map. As shown on this figure, areas of elevated concentrations (e.g. exceeding total chlorinated VOC concentration of 500 ug/l) are highly localized.

These isoconcentration maps also include the delineation of the limits of hydraulic control shown as the site control perimeter. In general, groundwater plumes in the shallow sand aquifer are contained within this boundary with the exception of those plumes associated with the former IWSL area.

4.3 Groundwater Flow

Groundwater elevation measurements were used to generate groundwater elevation contour maps for the shallow water table aquifer underlying most of the developed portion of the site. Two groundwater elevation contour maps were prepared, one for the first quarter of 2012 and one for the second quarter of 2012 and are included as Figures 3-1 and Figure 3-2. An enlargement of the northern portion of the site, including the GWCS and the installed trench extension, are included on these figures. Also shown on these figures are the locations of the storm sewer systems on the site, the location of the GWCS trench (including the trench extension) and the utility trench barrier wall.

An east-west trending groundwater divide has been identified at the site underlying B001, Building 002 (B002), B003, Building 004 (B004) and Building 005 (B005) (see Figure 3-1 and Figure 3-2). Groundwater to the north of the divide flows west and northwest. Groundwater to the south of the divide flows west and southwest. The water table gradient in the eastern portion of the site and in the vicinity of the Groundwater Collection System (GWCS) is reportedly higher than the water table gradient in the south and central portion of the site, and estimated horizontal groundwater flow velocities range from approximately 0.8 ft/day to 2 ft/day (GSC, 1997b).

Groundwater flow is influenced by the presence of the perimeter control system (see Figure 3-1 and Figure 3-2), which is composed of:

- A 42-inch diameter storm sewer pipe that extends from east to west along a line south of B001 through B005, and then passes under Enterprise Drive to the south of B201.
- An unsaturated portion of the surficial sand unit that intersects the 42-inch storm sewer south of B201, and extends east-northeast back across Enterprise Drive, and then continues toward the north portion of the site.

- The GWCS extends along the western and northern perimeter of the North Parking Lot Area. The GWCS is comprised of a set of groundwater cut-off trenches. Water collected in the trenches is treated via air stripping.
- A 60-inch diameter storm sewer pipe that intersects the GWCS and extends along the western portion of the North Parking Lot Area.
- A utility trench barrier wall, consisting of an approximately 250-foot long trench backfilled with clay with the base keyed into the Varved Clay Unit and the top of the barrier wall completed a minimum of two feet above the recorded high water table. This barrier wall was installed to mitigate the potential for groundwater migration along the underground utility pipes which ultimately terminate at the former IWTF.

The groundwater VOC plume is contained within the Site by this system.

5.0 GROUNDWATER REMEDIATION SYSTEM OPERATION, MAINTENANCE AND MONITORING (OM&M)

The Groundwater Remediation System consists of the Groundwater Collection System (GWCS) and NPLA together with the associated treatment system. The OM&M Plan details the various components of the ongoing operations and maintenance of the system. Maintenance includes such items as pump replacement and routine cleaning of the air stripper units and components.

5.1 Groundwater Remediation System Components

5.1.1 Groundwater Collection System

The two main elements of the GWCS are the interceptor trench and the lateral trench as shown on Figure 4-1. The interceptor portion of the GWCS lies more or less perpendicular to the direction of groundwater flow. The trench has been keyed into the relatively impermeable lacustrine silt and clay unit beneath the surficial sand water-bearing unit and, as such, fully intercepts groundwater flow.

From December 1986 through the end of June 1994, the interceptor trench portion of the GWCS consisted of five manholes which are connected by 6-inch diameter perforated pipe. Water recovered from these trenches was passed through the on-site Industrial Waste Treatment Facility (IWTF) for removal of volatile organic compounds (VOCs) using counter-current air stripping towers. During early 1994, upgrades to the GWCS included the installation of new pumps in the associated trench manholes, the construction of a new treatment building and the installation of shallow tray aerator units.

As of July 8, 1994, these units were put on-line and groundwater collected by the GWCS was conveyed to the treatment building, subjected to tray aeration and discharged to sanitary sewer. Additionally, the northwest leg of the GWCS was extended approximately 240 feet with three additional trench manholes and one pump station installed, Figure 4-1. The trench extension project was completed in May 1995. On July 10, 1996 the discharge from the tray-aerators was connected to the storm sewer system under a New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) permit.

5.1.2 North Parking Lot Area (Passive Groundwater Collection System)

Beginning in 1996, IBM initiated a storm-sewer re-routing project at the Site. This project involved the installation of a new storm sewer line and re-routing of certain connections to mitigate groundwater infiltration of the storm system. Compliance with SPDES Permit discharge limits at several outfalls to the storm system was the primary focus of the project; however, as a secondary result is the continued use of the now inactive storm sewer line as a collection trench for infiltrating groundwater. The end result of the re-routing project is such that storm water and dry weather flows meeting the SPDES permit limits continue to discharge to the outfalls and the groundwater collected in the inactive system is re-routed to the GWCS treatment building prior to discharge to a SPDES-permitted outfall. The NPLA system, consisting of two pump stations, Pump Station-1 (PS-1), Pump Station-2 (PS-2), and associated conveyance piping, went online in December 1997.

5.1.3 Groundwater Treatment System

There is one groundwater treatment system installed and operating at the Site to treat groundwater extracted by the GWCS and the NPLA. The system consists of a 1200 gallon, 4-foot diameter, conical bottom grit tank, two (2) Type 304L stainless steel North East Environmental Products Shallow Tray air strippers (Model 2641), the electrical supply and distribution system, instrumentation and controls.

The GTF is designed to treat in excess of 120,000 gallons per day (83 gpm) of groundwater. The average treatment system flow rate is typically between 30 to 50 gpm. The maximum SPDES permitted limit is 120,000 gallons per day or approximately 83 gpm.

5.2 Summary of Operations

Daily operating data for the GWCS and NPLA are presented in Appendix C. Appendix D contains a summary printout of the GWCS and NPLA sampling data for the reporting period and also includes treatment system monitoring results for the samples collected under the SPDES Permit, Outfall 01A, the final effluent from the treatment system.

5.3 Evaluation of the Groundwater Remediation System

The Groundwater Remediation System including the GWCS, NPLA and the on-site treatment system operated as designed during the reporting period and VOC effluent concentrations were within the limits set for SPDES discharge.

Mass removal calculations for the Groundwater Remediation System are presented in Appendix D. Approximately 18.1 million gallons of groundwater was collected and treated at the GWCS or, on average, 49,496 gallons per day over the 2012 calendar year. The average pumping rate was approximately 34 gpm. For this annual period, approximately 38.4 pounds of VOCs were removed by the GWCS.

Approximately 425,669 gallons of groundwater was collected from the NPLA pumpstations or, on average, 1,166 gallons per day over the 2012 calendar year. For this annual period, approximately 0.4 pounds of VOCs were removed by the NPLA.

5.4 O&M Deficiencies

No operations and maintenance deficiencies were noted for this reporting period.

6.0 OTHER ACTIVITIES AND REPORTING

Several investigations were conducted at the Site in 2012 under the oversight of NYSDEC. These investigations included implementation of the NYSDEC approved work plans under the current Consent Order. The investigation results have been reported and submitted to NYSDEC in separate reports and are not included herein. Following is a summary of submittals for the 2012 Calendar Year:

Supplemental Site Characterization Report: Surficial Soils *(February 15, 2012);* Groundwater Sciences Corporation.

Vapor Intrusion Remedial Investigation Work Plan, Former IBM Buildings B001 and B003 *(April 5, 2012);* Golder Associates.

Supplemental Remedial Investigation Report: Solid Waste Management Unit T: Former B003 Waste Oil Tank *(May 16, 2012)*; Golder Associates.

Supplemental Site Characterization Report: SWMU Y, Former Fluoride Wastewater Ejector Tank *(June 29, 2012);* Groundwater Sciences Corporation

Vapor Intrusion Investigation Report: Former Building B021 *(September 13, 2012);* Golder Associates.

Vapor Intrusion Investigation Report: Former Building B022 *(September 13, 2012);* Golder Associates.

Vapor Intrusion Investigation Report: Former Building B023 *(September 13, 2012);* Golder Associates.

Vapor Intrusion Investigation Report: Former Building B024 *(September 13, 2012);* Golder Associates.

Vapor Intrusion Investigation Report: Former Building B025 *(September 13, 2012);* Golder Associates.

Vapor Intrusion Investigation Report: Former Building B005N (*September 13, 2012*) Golder Associates.

Supplemental Remedial Investigation Report: Solid Waste Management Unit S: Former B001 Waste TCA Tank *(October 29, 2012);* Golder Associates.

Supplemental Remedial Investigation Report: Solid Waste Management Unit AB: Former Building B001 TCA Recovery Unit (October 31, 2012); Golder Associates.

Supplemental Site Characterization Report: Sanitary Sewers *(December 7, 2012);* Groundwater Sciences Corporation.

7.0 REFERENCES

Conestoga-Rovers and Associates, 1995, “Draft Final Construction Report, Barrier Wall Installation”, December 1995.

Golder Associates, 2009, “RCRA Facility Investigation Management Plans” 26 May, 2009.

Golder Associates, 2011, “SWMU G Investigation Report” March, 2011.

Golder Associates, 2012, "Vapor Intrusion Remedial Investigation Work Plan, Former IBM Buildings B001 and B003", 5 April 2012.

Golder Associates, "Supplemental Remedial Investigation Report: Solid Waste Management Unit T: Former B003 Waste Oil Tank", 16 May 2012.

Golder Associates, 2012, "Vapor Intrusion Investigation Report: Former B021", 13 September 2012.

Golder Associates, 2012, "Vapor Intrusion Investigation Report: Former B022", 13 September 2012.

Golder Associates, 2012, "Vapor Intrusion Investigation Report: Former B023", 13 September 2012.

Golder Associates, 2012, "Vapor Intrusion Investigation Report: Former B024", 13 September 2012.

Golder Associates, 2012, "Vapor Intrusion Investigation Report: Former B025", 13 September 2012.

Golder Associates, 2012, "Vapor Intrusion Investigation Report: Former B005N", 13 September 2012.

Golder Associates, 2012, "Supplemental Remedial Investigation Report: Solid Waste Management Unit S: Former B001 Waste TCA Tank", 29 October 2012.

Golder Associates, 2012, "Supplemental Remedial Investigation Report: Solid Waste Management Unit AB: Former B001 TCA Recovery Unit ", 31 October 2012.

Groundwater Sciences Corporation, 1993 “Corrective Action for Solid Waste Management Units RCRA Facility Investigation Scope of Work, Volume V, Appendix K-L, Groundwater Sampling and Analysis Plan”, 13 August, 1993.

Groundwater Sciences Corporation, 1994, “Sewer Systems Assessment Report”, 14 March, 1994.

Groundwater Sciences Corporation, 1996, “IBM Kingston RCRA Facility Investigations Soil Gas Surveys and Sewer Systems Sampling”, 12 April 1996.

Groundwater Sciences Corporation, 1997a “RCRA Facility Assessments Newly Identified Solid Waste Management Units”, 14 March, 1997.

Groundwater Sciences Corporation, 1997b, “RCRA Facility Investigation Groundwater Plumes and Sources”, 14 March, 1997.

Groundwater Sciences Corporation, 1999, “RCRA Facility Investigation Former Industrial Waste Sludge Lagoon”, 16 April, 1999.

Groundwater Sciences Corporation, 2002, “Expanded RCRA Facility Investigation, Former Industrial Waste Sludge Lagoon, Arsenic and VOC Plume Source Investigation and Deep Bedrock RCRA Facility Investigation”, 26 February 2002.

Groundwater Sciences Corporation, 2008, “2007 Annual Groundwater Monitoring Report”, 28 March, 2008.

Groundwater Sciences Corporation, 2010, “2009 Annual Groundwater Monitoring Report”, 30 March, 2010.

Groundwater Sciences Corporation, 2010, “2010 Semiannual Groundwater Monitoring Report”, 29 September, 2010.

Groundwater Sciences Corporation, 2011, "2011 Annual Groundwater Monitoring Report", 30 March 2011.

Groundwater Sciences Corporation, 2011, “2011 Semiannual Groundwater Monitoring Report”, 29 September, 2011.

Groundwater Sciences Corporation, 2012, "Supplemental Site Characterization Report: Surficial Soils", 15 February 2012.

Groundwater Sciences Corporation, 2012, "2011 Annual Groundwater Monitoring Report", 28 March 2012.

Groundwater Sciences Corporation, 2012, "Supplemental Site Characterization Report: SWMU Y, Former Fluoride Wastewater Ejector Tank", 29 June 2012.

Groundwater Sciences Corporation, 2012, "Supplemental Site Characterization Report: Sanitary Sewers", 7 December 2012.

IBM Corporation, 2001, “IBM Post-Closure Permit Renewal Application”, 2 April, 2001.

IBM Corporation, 2007, “IBM Kingston Facility, Part 373 Permit No. 3-5154-0067/000090, Corrective Measures Shutdown Request (MW-504S)”, 30 March, 2007.

NYSDEC, 1998, “Technical and Operational Guidance Series (1.1.1) “Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations”, June 1998.

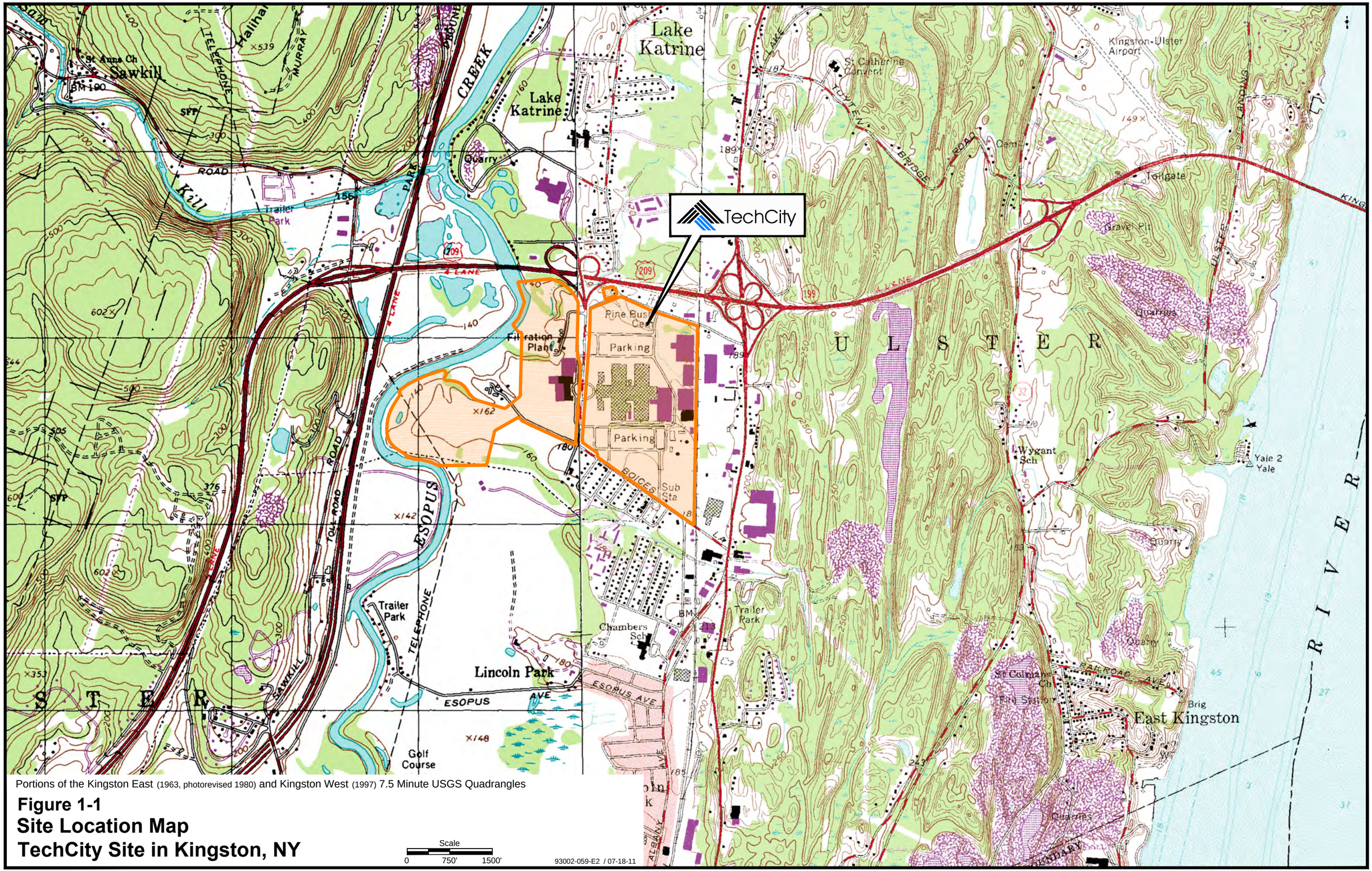
NYSDEC, 1999, “6 NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations”, 4 August, 1999.

NYSDEC, 2006 “6 NYCRR Part 375 Environmental Remediation Programs, Subparts 375-1 to 375-4 & 375-6”, 14 December, 2006.

NYSDEC, 2010, DEC Policy, “CP-51/Soil Cleanup Objectives”, 21 October, 2010.

NYSDEC, 2010, “DER-10 Technical Guidance for Site Investigation and Remediation, Appendix B Guidance for the Development of Data Usability Summary Reports” 25 December, 2002.

NYSDEC, 2011, “Development and Implementation of a Remedial Program for an Inactive Hazardous Waste Disposal Site Order on Consent Site #356002”, July 18, 2011.



Portions of the Kingston East (1963, photorevised 1980) and Kingston West (1997) 7.5 Minute USGS Quadrangles

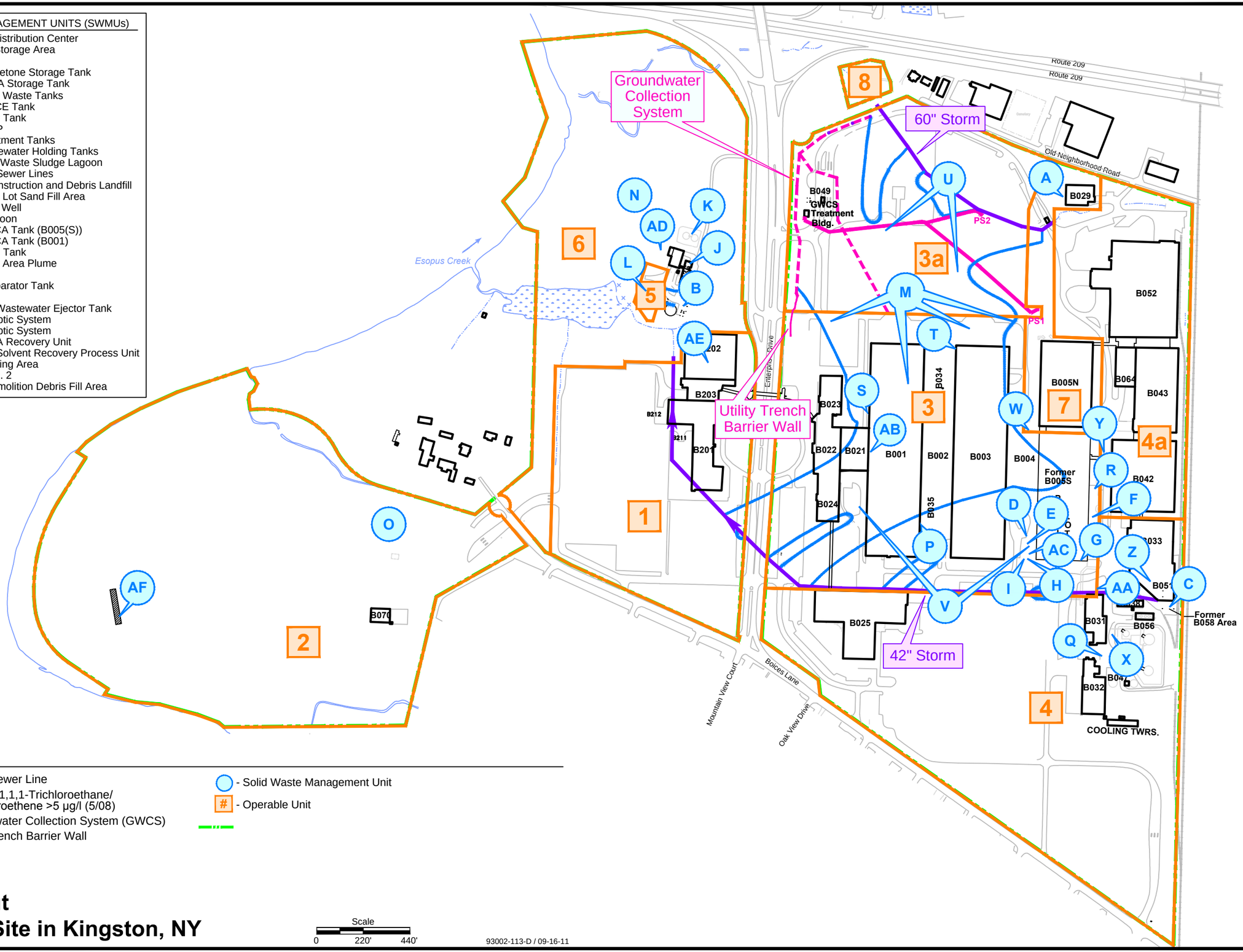
Figure 1-1
Site Location Map
TechCity Site in Kingston, NY

Scale
0 750' 1500'

93002-059-E2 / 07-18-11

SOLID WASTE MANAGEMENT UNITS (SWMUs)

A: B029 Chemical Distribution Center
B: B036 Container Storage Area
C: Former B058
D: Former Waste Acetone Storage Tank
E: Former Waste IPA Storage Tank
F: Former East Side Waste Tanks
G: Former Waste PCE Tank
H: Former East SRP Tank
I: Former West SRP
J: Wastewater Treatment Tanks
K: Emergency Wastewater Holding Tanks
L: Former Industrial Waste Sludge Lagoon
M: Industrial Waste Sewer Lines
N: Inactive B036 Construction and Debris Landfill
O: Salt Barn Parking Lot Sand Fill Area
P: Former B035 Dry Well
Q: Former B031 Lagoon
R: Former Waste TCA Tank (B005(S))
S: Former Waste TCA Tank (B001)
T: Former Waste Oil Tank
U: North Parking Lot Area Plume
V: B005 Plume
W: Former B004 Separator Tank
X: B031 Separator
Y: Former Fluoride Wastewater Ejector Tank
Z: Inactive B033 Septic System
AA: Inactive B031 Septic System
AB: Former B001 TCA Recovery Unit
AC: Former B005(S) Solvent Recovery Process Unit
AD: Former Fire Training Area
AE: B202 Elevator No. 2
AF: Inactive West Demolition Debris Fill Area



LEGEND

- Storm Sewer Line
- Area of 1,1,1-Trichloroethane/ Tricholoroethene >5 µg/l (5/08)
- Groundwater Collection System (GWCS)
- Utility Trench Barrier Wall
- Solid Waste Management Unit
- # - Operable Unit

Figure 2-1
Site Layout
TechCity Site in Kingston, NY

Scale
0 220' 440'

93002-113-D / 09-16-11

IWSL Detail, 2X

GWCS Detail, 2X

Esopus Creek

(see detail)

Route 209

Old Neighborhood Rd.

Enterprise Dr.

Mtn. View Ct.

Boices Lane

Landing Area

Former B058 Area

B001 B002 B003 B004 B005 B005N B021 B022 B023 B024 B025 B029 B031 B032 B033 B034 B035 B036 B038 B042 B043 B051 B052 B056 B064 B201 B202 B203

PS1 PS2

60" STORM 42" STORM 36" STORM 27" STORM

- Monitoring Well Location (installed in soil)
- Temporary Monitoring Point
- North Parking Lot Area Pump Station
- Property Line
- Site Control Perimeter
- 178 – Groundwater Elevation Contour
- 178.02 – Groundwater Elevation
- NM – Not Measured
- Groundwater Divide
- Inferred Direction of Groundwater Flow
- Groundwater Collection System (GWCS)
- GWCS Trench Extension
- 162.64 – GWCS Invert Elevation
- Subsurface Utility Trench Barrier Wall
- Perennially Saturated Shallow Sand Absent

Scale 0 200' 400'

Figure 3-1

IBM
Kingston, New York

Surficial Sand Aquifer Groundwater Elevation Contour Map, January 6, 2012 (First Quarter 2012)

DRAWN BY: MHM | DATE: 10/6/12
CHECKED & APPROVED BY: CBS

DRAWING NO. 93002-118-G1

GROUNDWATER SCIENCES CORPORATION

IWSL Detail, 2X

GWCS Detail, 2X

Route 209

Old Neighborhood Rd.

Esopus Creek

(see detail)

Enterprise Drive

Landing Area

Mtn. View Ct.

Boices Lane

Former B058 Area

Scale 0 200' 400'

▲ – Monitoring Well Location (installed in soil)

△ – Temporary Monitoring Point

○ – North Parking Lot Area Pump Station

– Property Line

– Site Control Perimeter

178 – Groundwater Elevation Contour

178.62 – Groundwater Elevation

NM – Not Measured

– Groundwater Divide

– Inferred Direction of Groundwater Flow

– Groundwater Collection System (GWCS)

– GWCS Trench Extension

162.64 – GWCS Invert Elevation

– Subsurface Utility Trench Barrier Wall

– Perennially Saturated Shallow Sand Absent

Figure 3-2

IBM
Kingston, New York

Surficial Sand Aquifer Groundwater Elevation Contour Map, April 9, 2012 (Second Quarter 2012)

DRAWN BY: MHM	DATE: 10/8/12	DRAWING NO. 93002-118-H1
CHECKED & APPROVED BY: CSF		

GROUNDWATER SCIENCES CORPORATION

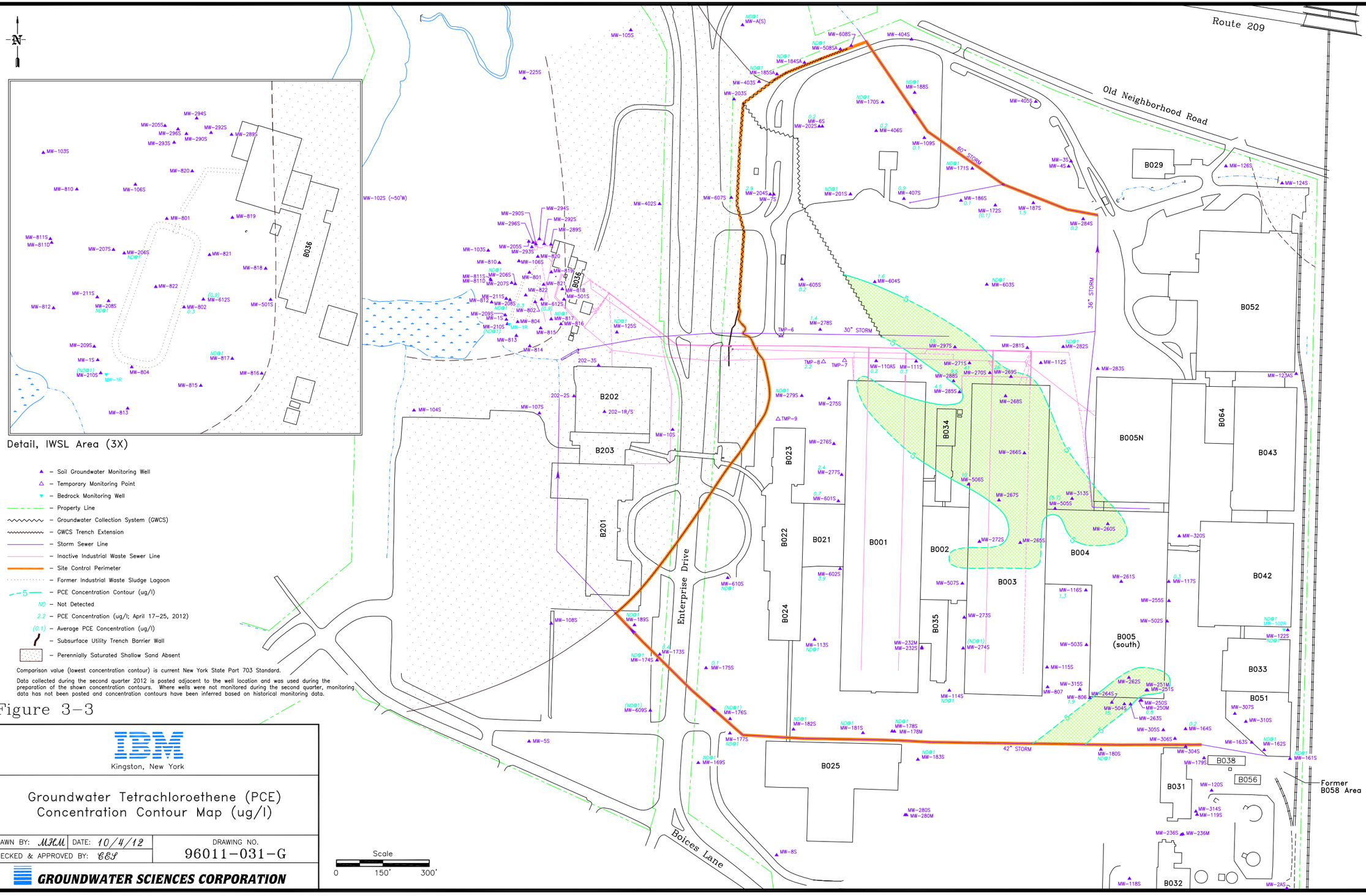


Figure 3-3

IBM
Kingston, New York

Groundwater Tetrachloroethene (PCE) Concentration Contour Map (ug/l)

DRAWN BY: MHM	DATE: 10/4/12	DRAWING NO. 96011-031-G
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION

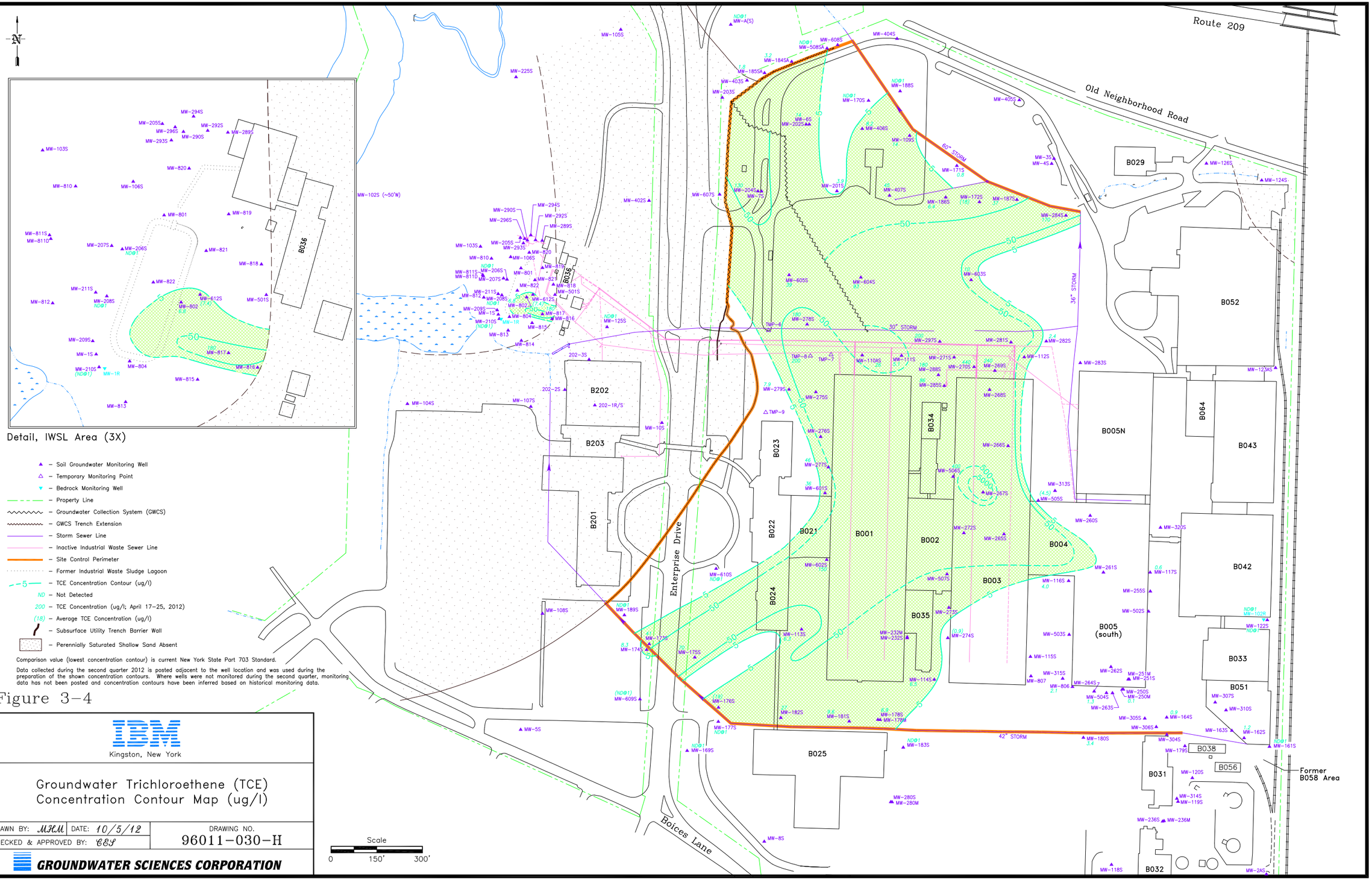


Figure 3-4

IBM
Kingston, New York

Groundwater Trichloroethene (TCE) Concentration Contour Map (ug/l)

DRAWN BY: MHM	DATE: 10/5/12	DRAWING NO. 96011-030-H
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION

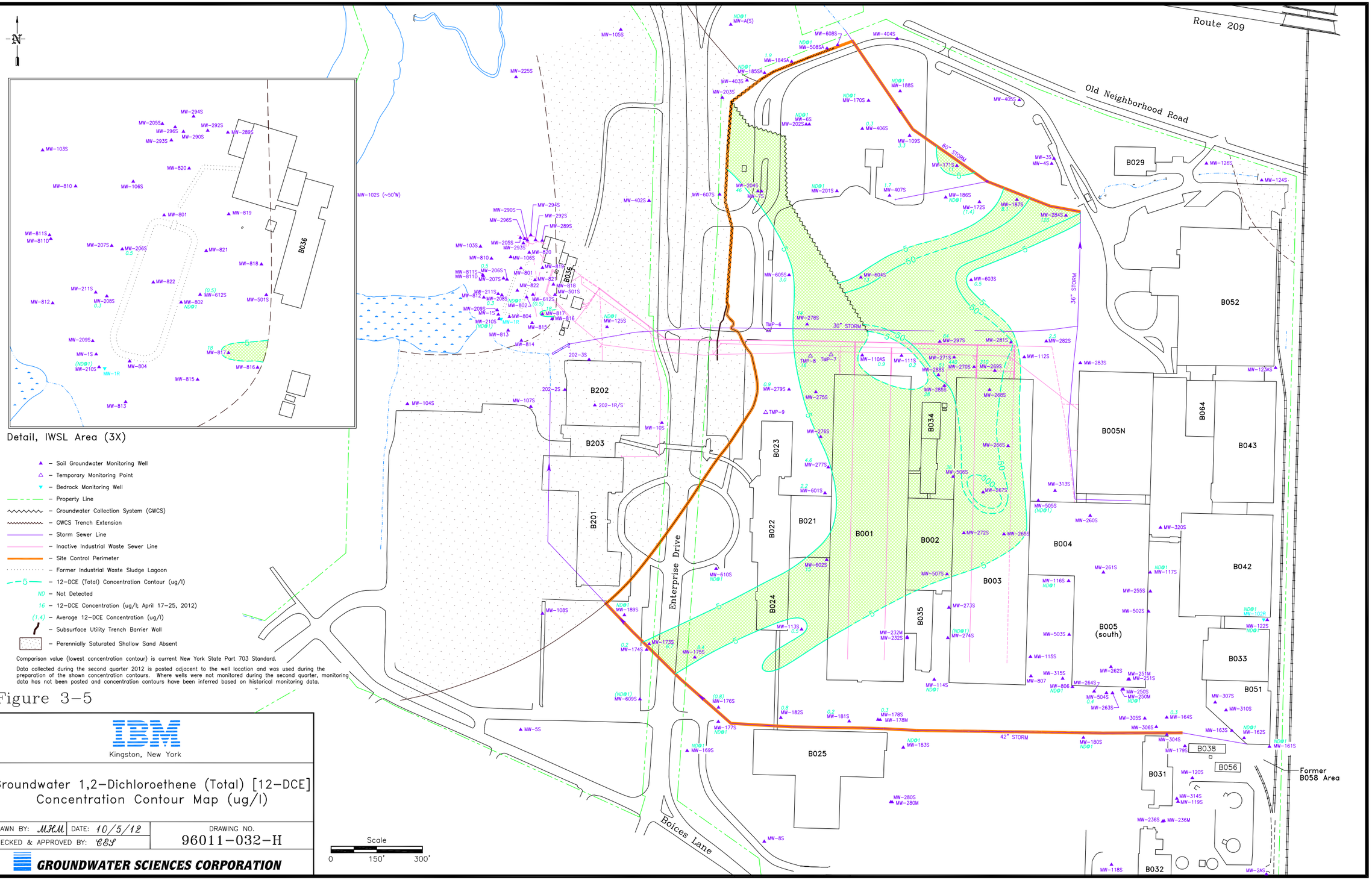


Figure 3–5

IBM
Kingston, New York

Groundwater 1,2–Dichloroethene (Total) [12–DCE] Concentration Contour Map (ug/l)

DRAWN BY: MHM DATE: 10/5/12	DRAWING NO. 96011–032–H
CHECKED & APPROVED BY: CES	

GROUNDWATER SCIENCES CORPORATION

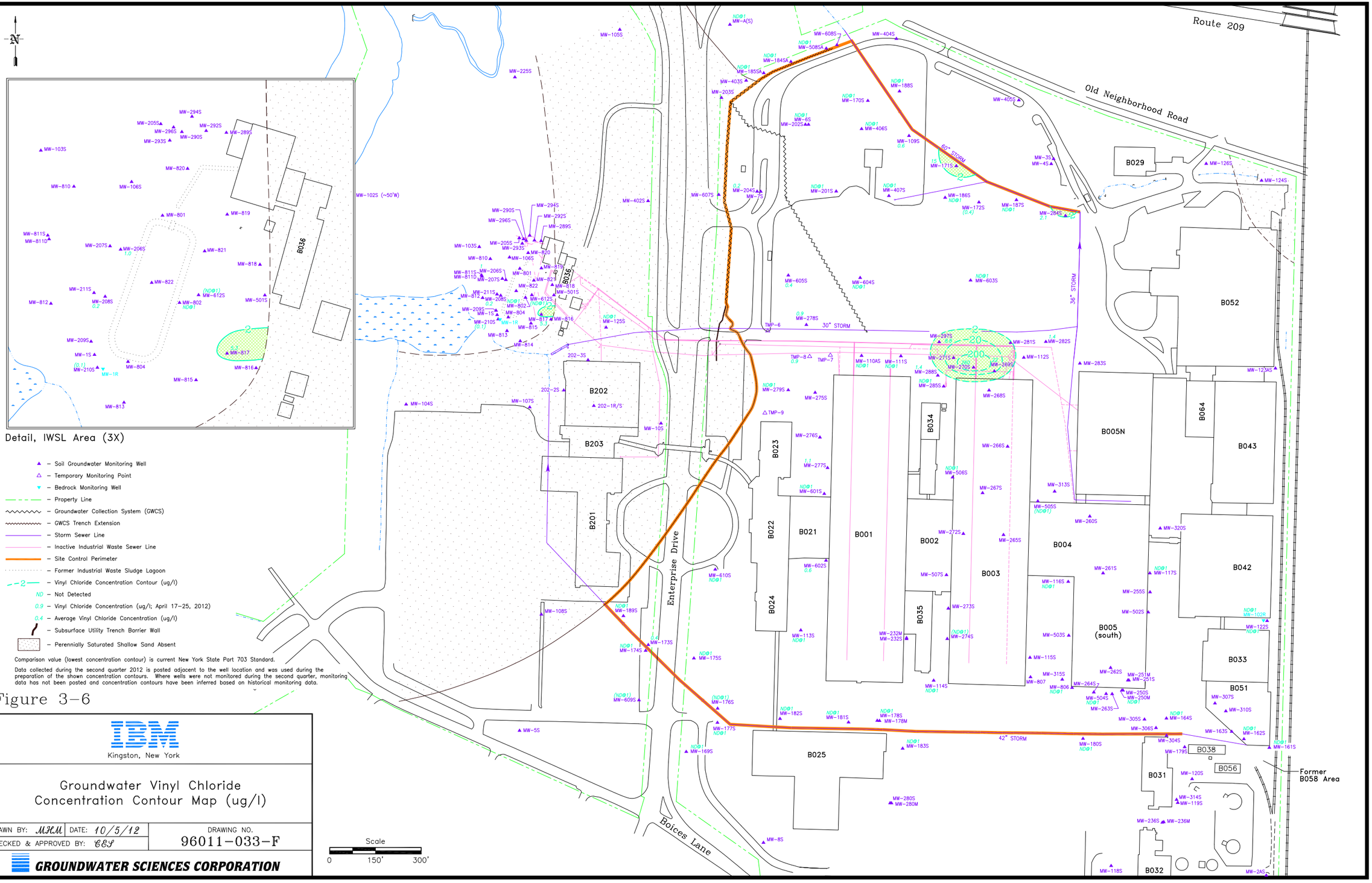


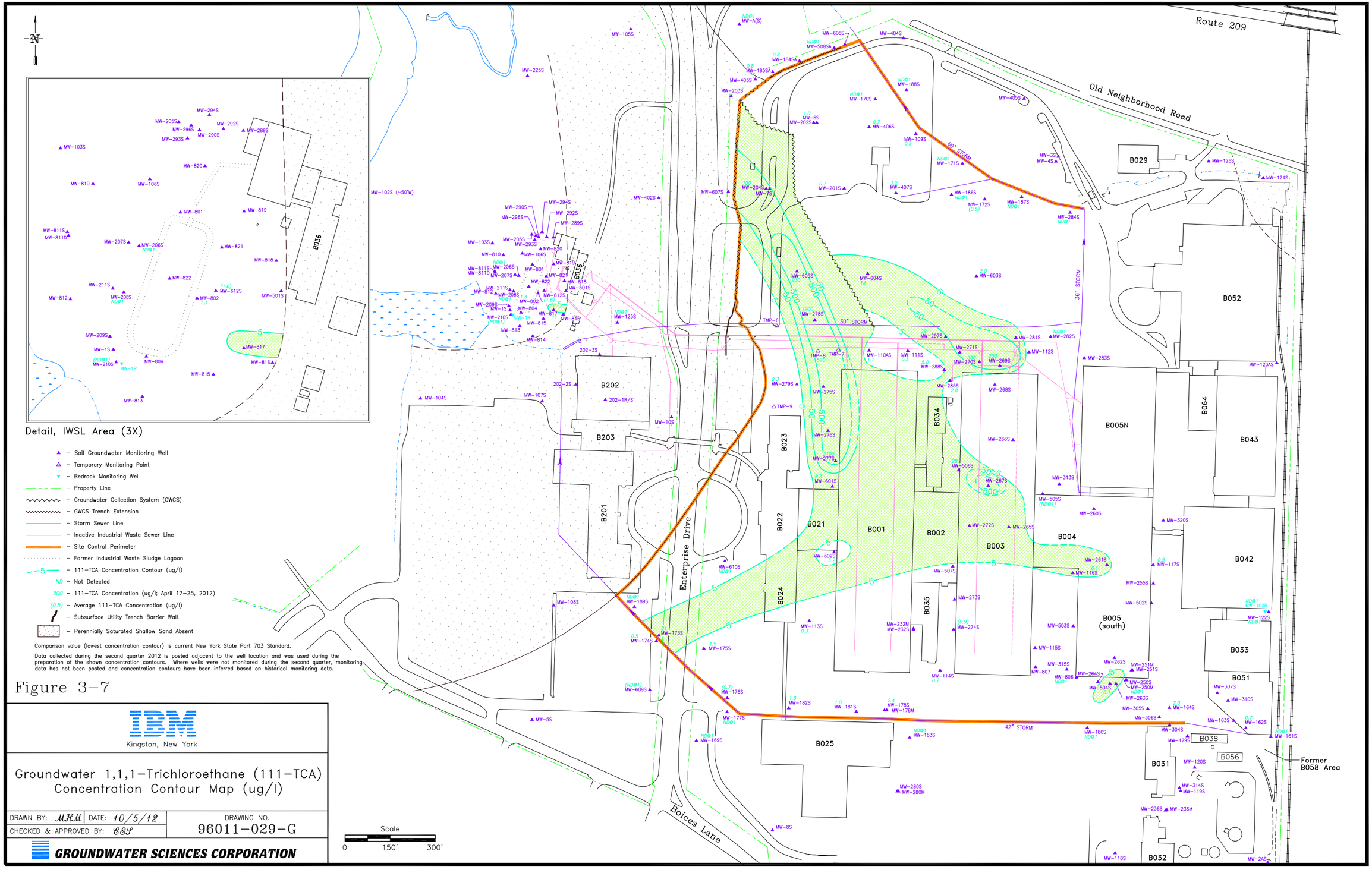
Figure 3-6

IBM
Kingston, New York

Groundwater Vinyl Chloride Concentration Contour Map (ug/l)

DRAWN BY: MHM	DATE: 10/5/12	DRAWING NO. 96011-033-F
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION



Detail, IWSL Area (3X)

- ▲ – Soil Groundwater Monitoring Well
- △ – Temporary Monitoring Point
- ▼ – Bedrock Monitoring Well
- – Property Line
- – Groundwater Collection System (GWCS)
- – GWCS Trench Extension
- – Storm Sewer Line
- – Inactive Industrial Waste Sewer Line
- – Site Control Perimeter
- – Former Industrial Waste Sludge Lagoon
- 5 – 111-TCA Concentration Contour (ug/l)
- ND – Not Detected
- 500 – 111-TCA Concentration (ug/l; April 17-25, 2012)
- (0.5) – Average 111-TCA Concentration (ug/l)
- – Subsurface Utility Trench Barrier Wall
- – Perennially Saturated Shallow Sand Absent

Comparison value (lowest concentration contour) is current New York State Part 703 Standard.

Data collected during the second quarter 2012 is posted adjacent to the well location and was used during the preparation of the shown concentration contours. Where wells were not monitored during the second quarter, monitoring data has not been posted and concentration contours have been inferred based on historical monitoring data.

Figure 3-7

IBM
Kingston, New York

Groundwater 1,1,1-Trichloroethane (111-TCA) Concentration Contour Map (ug/l)

DRAWN BY: MHM	DATE: 10/5/12	DRAWING NO. 96011-029-G
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION

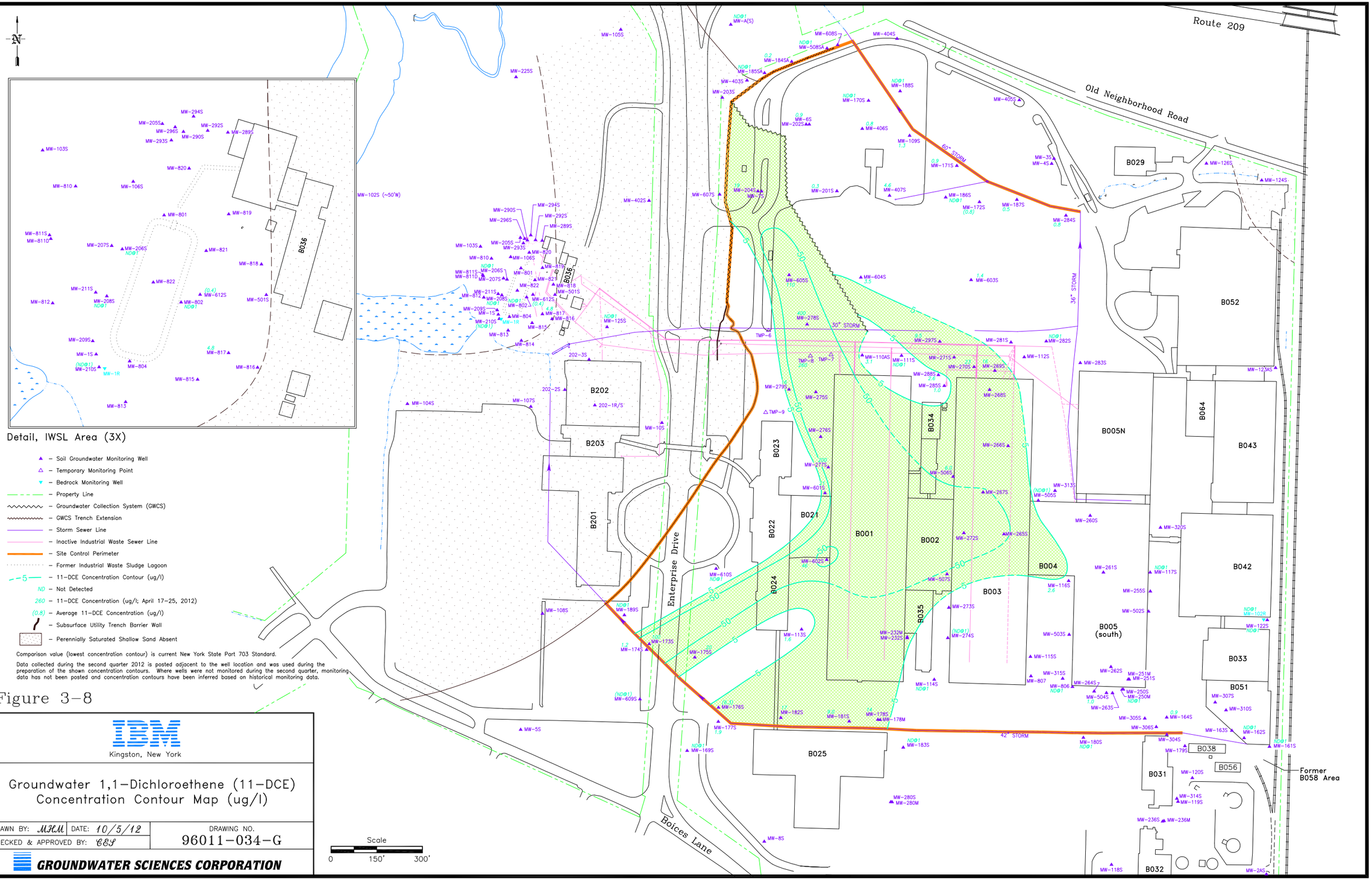


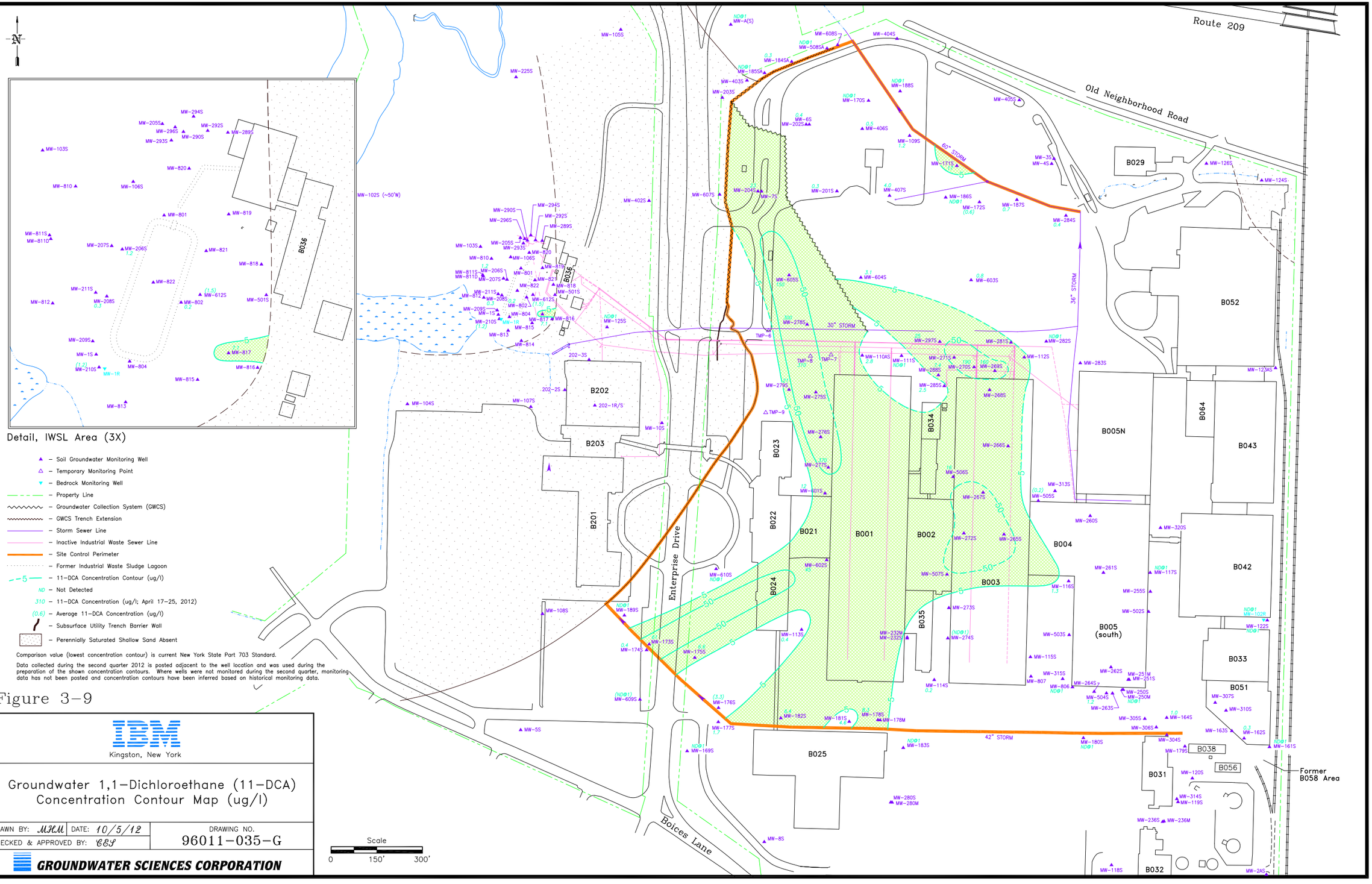
Figure 3–8

IBM
Kingston, New York

Groundwater 1,1–Dichloroethene (11–DCE) Concentration Contour Map (ug/l)

DRAWN BY: MHM	DATE: 10/5/12	DRAWING NO. 96011–034–G
CHECKED & APPROVED BY: CBS		

GROUNDWATER SCIENCES CORPORATION



- ▲ – Soil Groundwater Monitoring Well
- △ – Temporary Monitoring Point
- ▼ – Bedrock Monitoring Well
- – Property Line
- – Groundwater Collection System (GWCS)
- – GWCS Trench Extension
- – Storm Sewer Line
- – Inactive Industrial Waste Sewer Line
- – Site Control Perimeter
- – Former Industrial Waste Sludge Lagoon
- – 11–DCA Concentration Contour (ug/l)
- ND – Not Detected
- 310 – 11–DCA Concentration (ug/l; April 17–25, 2012)
- (0.6) – Average 11–DCA Concentration (ug/l)
- – Subsurface Utility Trench Barrier Wall
- – Perennially Saturated Shallow Sand Absent

Comparison value (lowest concentration contour) is current New York State Part 703 Standard.

Data collected during the second quarter 2012 is posted adjacent to the well location and was used during the preparation of the shown concentration contours. Where wells were not monitored during the second quarter, monitoring data has not been posted and concentration contours have been inferred based on historical monitoring data.

Figure 3–9

IBM
Kingston, New York

Groundwater 1,1–Dichloroethane (11–DCA) Concentration Contour Map (ug/l)

DRAWN BY: MHM	DATE: 10/5/12	DRAWING NO. 96011–035–G
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION

Scale
0 150' 300'

Detail, IWSL Area (3X)

▲ – Soil Groundwater Monitoring Well
△ – Temporary Monitoring Point
▼ – Bedrock Monitoring Well
– Property Line
– Groundwater Collection System (GWCS)
– GWCS Trench Extension
– Storm Sewer Line
– Inactive Industrial Waste Sewer Line
– Site Control Perimeter
– Former Industrial Waste Sludge Lagoon
5 – Freon® 113 Concentration Contour (ug/l)
ND – Not Detected
3.0 – Freon® 113 Concentration (ug/l; April 17–25, 2012)
(0.2) – Average Freon 113 Concentration (ug/l)
– Subsurface Utility Trench Barrier Wall
– Perennially Saturated Shallow Sand Absent

Comparison value (lowest concentration contour) is current New York State Part 703 Standard.

Data collected during the second quarter 2012 is posted adjacent to the well location and was used during the preparation of the shown concentration contours. Where wells were not monitored during the second quarter, monitoring data has not been posted and concentration contours have been inferred based on historical monitoring data.

Figure 3–10

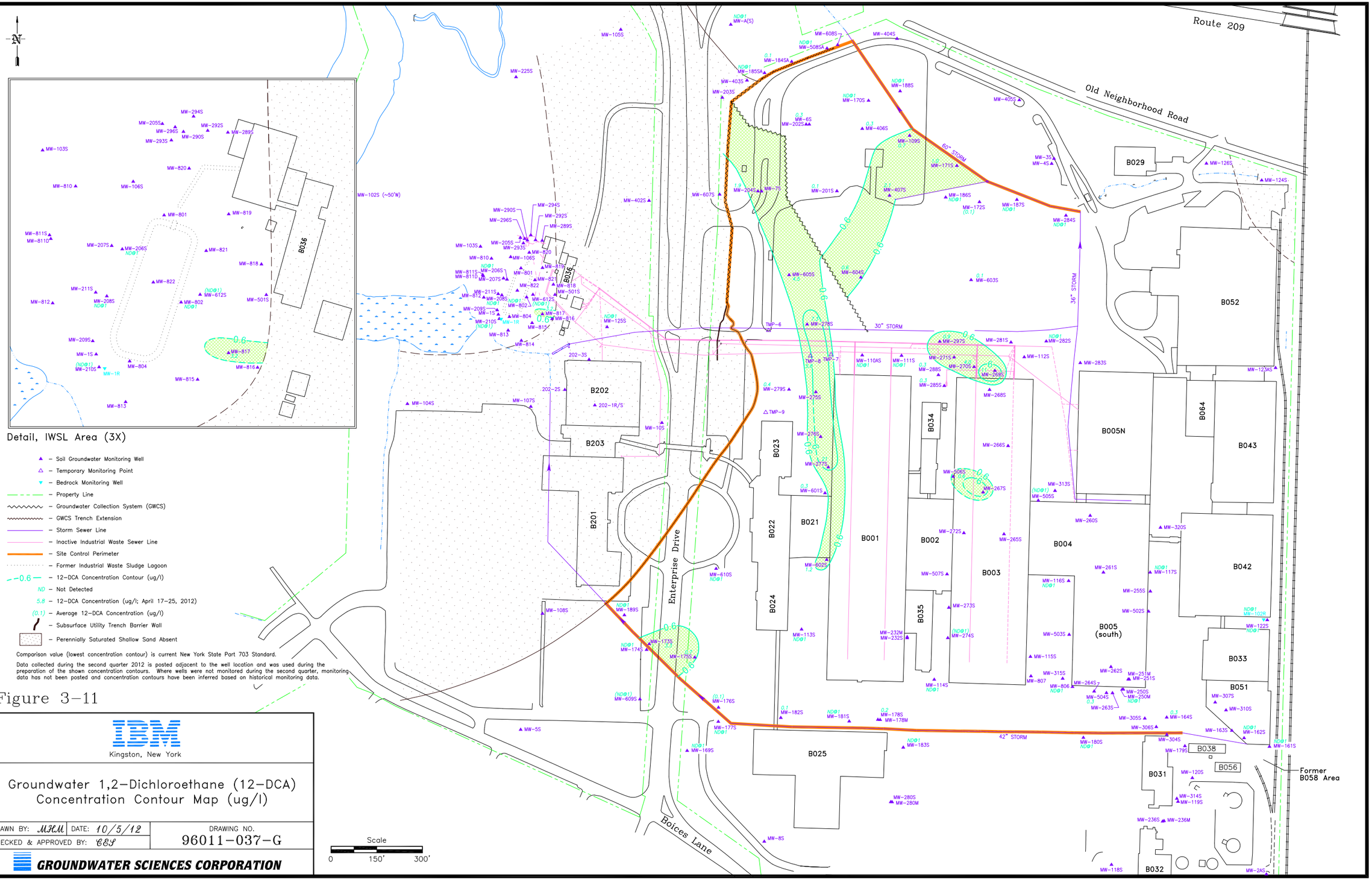
IBM
Kingston, New York

Groundwater Freon® 113 Concentration Contour Map (ug/l)

DRAWN BY: MHM	DATE: 10/4/12	DRAWING NO. 96011–006–W
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION

Scale 0 150' 300'



Detail, IWSL Area (3X)

- ▲ – Soil Groundwater Monitoring Well
- △ – Temporary Monitoring Point
- ▼ – Bedrock Monitoring Well
- – Property Line
- – Groundwater Collection System (GWCS)
- – GWCS Trench Extension
- – Storm Sewer Line
- – Inactive Industrial Waste Sewer Line
- – Site Control Perimeter
- – Former Industrial Waste Sludge Lagoon
- –0.6– – 12-DCA Concentration Contour (ug/l)
- ND – Not Detected
- 5.8 – 12-DCA Concentration (ug/l; April 17-25, 2012)
- (0.1) – Average 12-DCA Concentration (ug/l)
- – Subsurface Utility Trench Barrier Wall
- – Perennially Saturated Shallow Sand Absent

Comparison value (lowest concentration contour) is current New York State Part 703 Standard.

Data collected during the second quarter 2012 is posted adjacent to the well location and was used during the preparation of the shown concentration contours. Where wells were not monitored during the second quarter, monitoring data has not been posted and concentration contours have been inferred based on historical monitoring data.

Figure 3-11

IBM
Kingston, New York

Groundwater 1,2-Dichloroethane (12-DCA) Concentration Contour Map (ug/l)

DRAWN BY: MHM DATE: 10/5/12	DRAWING NO. 96011-037-G
CHECKED & APPROVED BY: CES	

GROUNDWATER SCIENCES CORPORATION

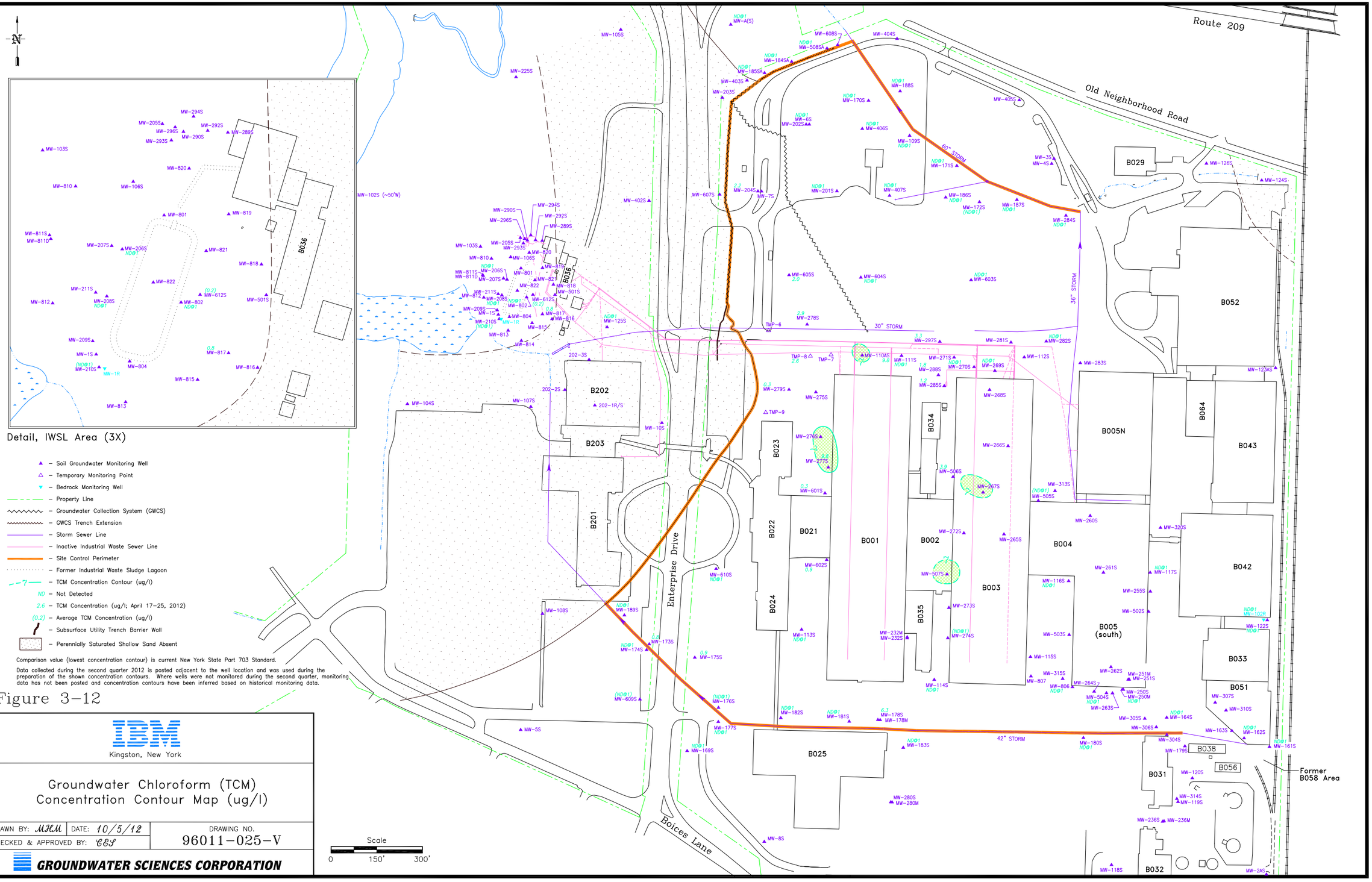


Figure 3-12

IBM
Kingston, New York

Groundwater Chloroform (TCM) Concentration Contour Map (ug/l)

DRAWN BY: MJM	DATE: 10/5/12	DRAWING NO. 96011-025-V
CHECKED & APPROVED BY: CBS		

GROUNDWATER SCIENCES CORPORATION

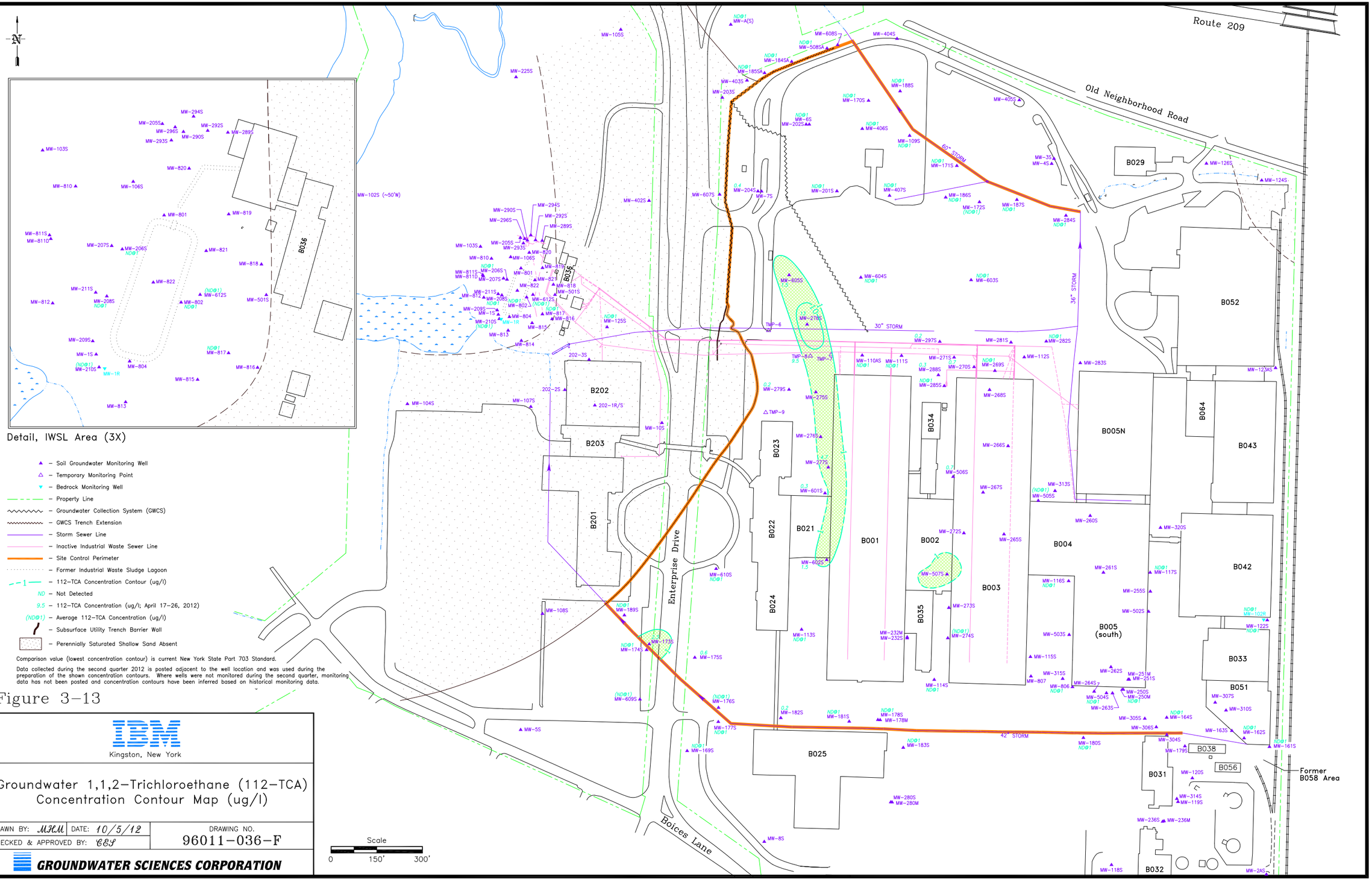


Figure 3-13

IBM
Kingston, New York

Groundwater 1,1,2-Trichloroethane (112-TCA)
Concentration Contour Map (ug/l)

DRAWN BY: MHM	DATE: 10/5/12	DRAWING NO.
CHECKED & APPROVED BY: CES		96011-036-F

GROUNDWATER SCIENCES CORPORATION

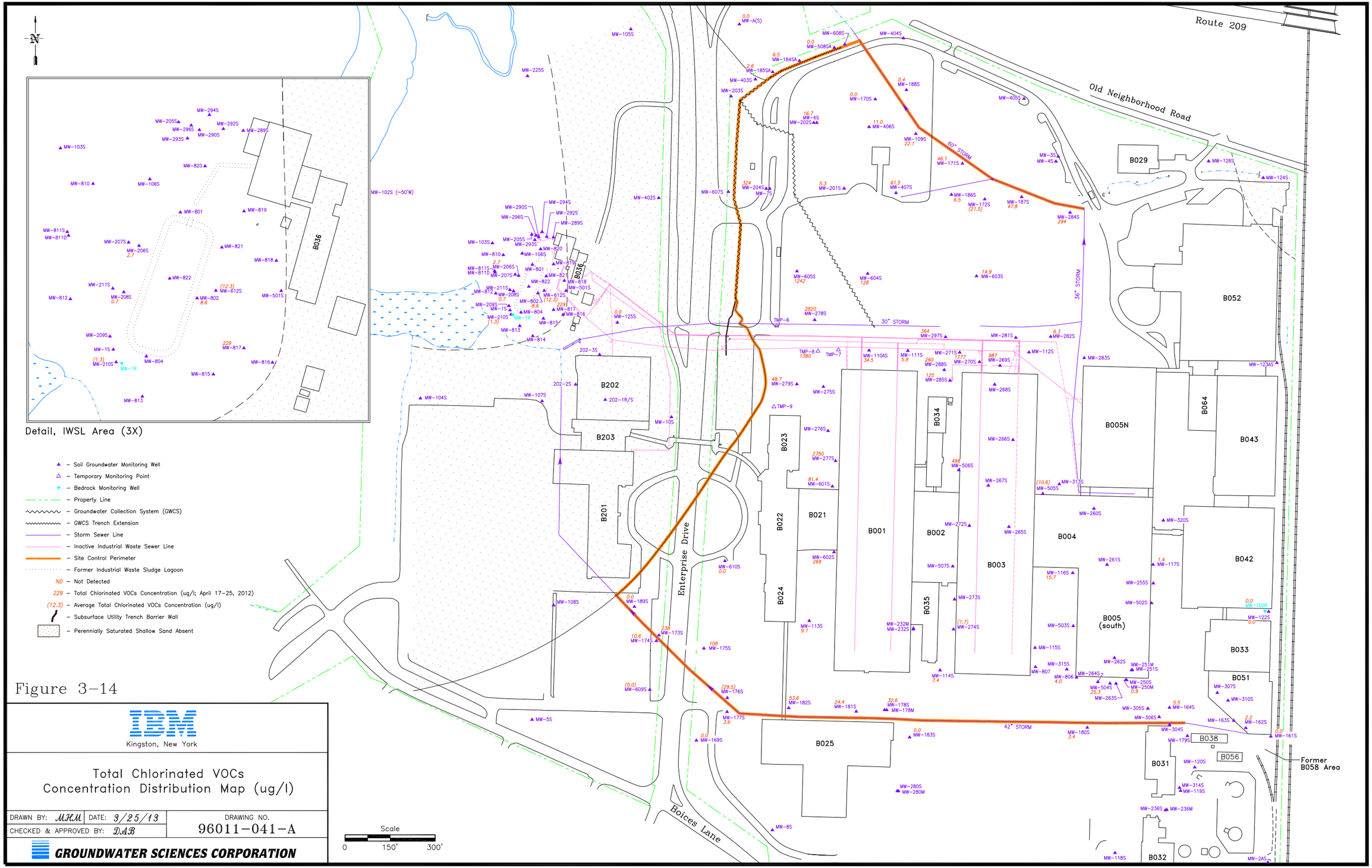


Figure 3–14

IBM
Kingston, New York

Total Chlorinated VOCs
Concentration Distribution Map (ug/l)

DRAWN BY: MHM	DATE: 3/25/13	DRAWING NO. 96011–041–A
CHECKED & APPROVED BY: DAB		

GROUNDWATER SCIENCES CORPORATION

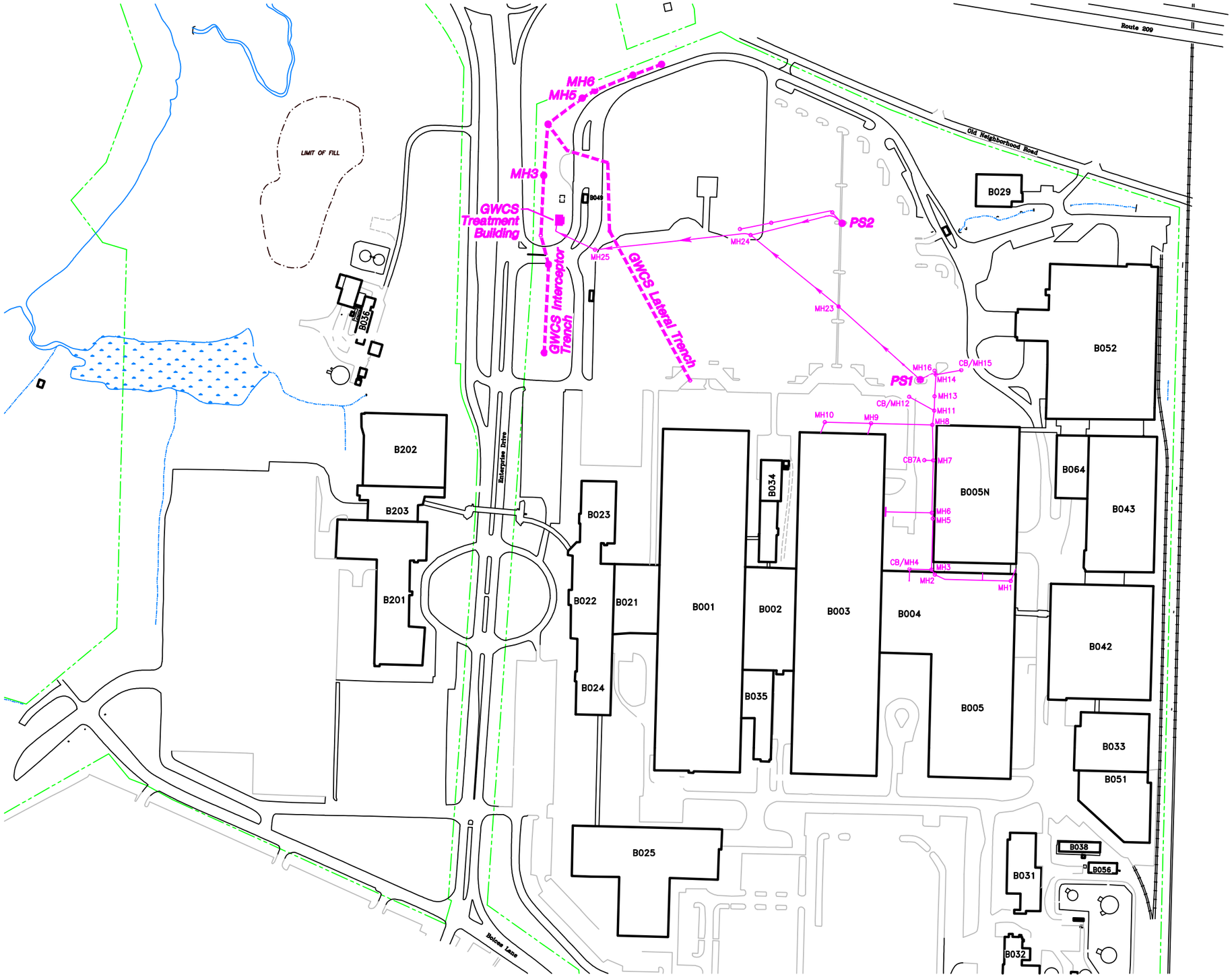
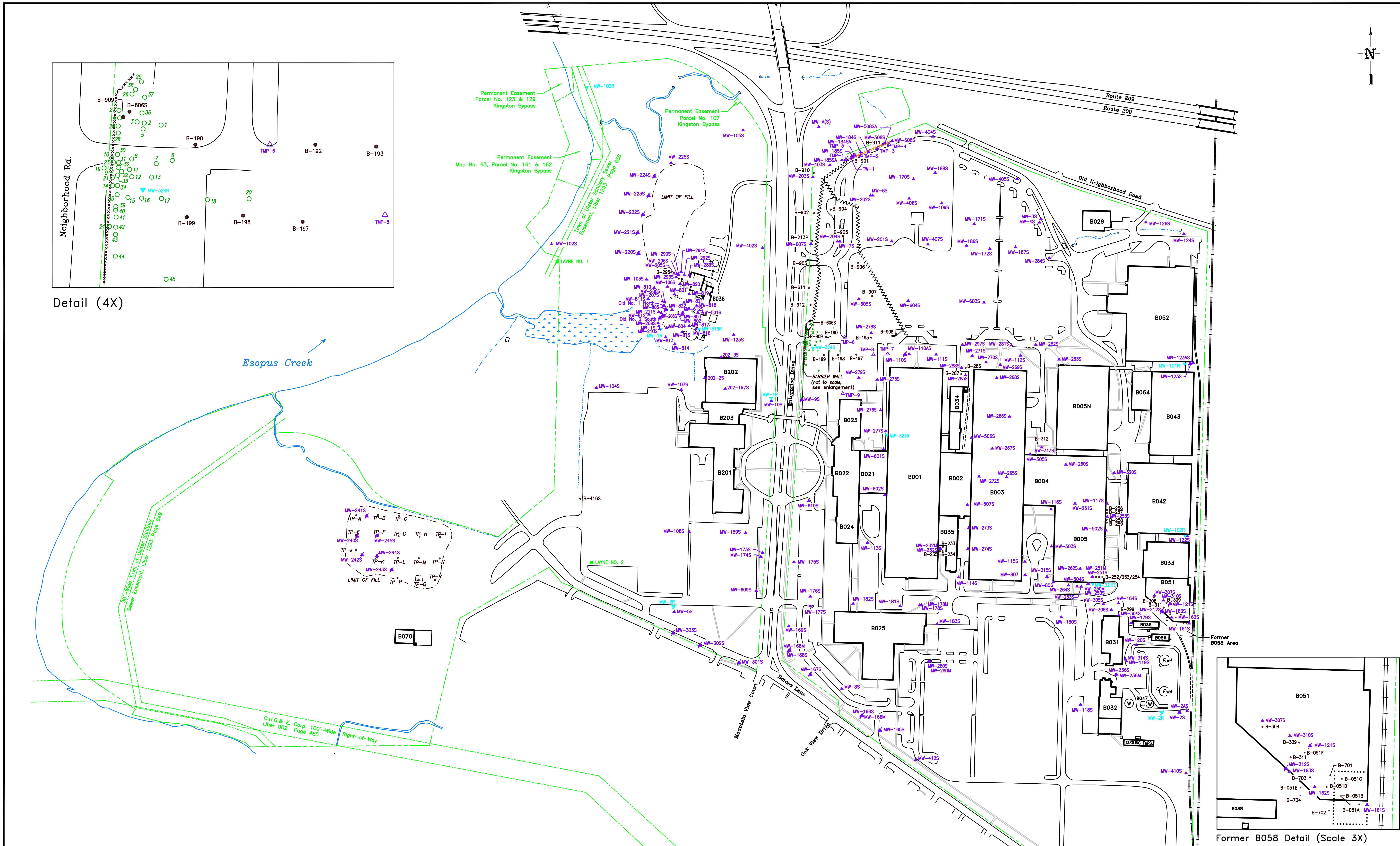


Figure 4-1

Groundwater Collection System
TechCity Site in Kingston, NY

93002-089-D2 / 10-19-11



Detail (4X)
Neighborhood Rd.
Esopus Creek
Route 209
Old Neighborhood Road
Enterprise Drive
Mountain View Court
Boices Lane
Oak View Drive
LIMIT OF FILL
LAYNE NO. 1
LAYNE NO. 2
BARRIER WALL (not to scale, see enlargement)
Permanent Easement Parcel No. 123 & 129 Kingston Bypass
Permanent Easement Parcel No. 107 Kingston Bypass
Permanent Easement Map No. 63, Parcel No. 161 & 162 Kingston Bypass
C.H.G.& E. Corp. 100'-Wide Right-of-Way Liber 902 Page 485
B001
B002
B003
B004
B005
B005N
B021
B022
B023
B024
B025
B029
B031
B032
B033
B034
B035
B038
B042
B043
B051
B052
B064
B070
B201
B202
B203
Former B058 Area
Former B058 Detail (Scale 3X)

Plate 1

IBM
Kingston, New York

Well, Boring and Test Pit Location Map

DRAWN BY: MHM DATE: 9/16/11	DRAWING NO.
CHECKED & APPROVED BY: DAB	93002-055-K

GROUNDWATER SCIENCES CORPORATION

Scale 0 150' 300'

- Monitoring Well Location (installed in soil)
- Temporary Monitoring Point
- Monitoring Well Location (installed in bedrock)
- Production Well Location (Layne)
- Railroad
- Property Line
- Former Structure
- Abandoned Monitoring Well Location (installed in soil)
- Abandoned Temporary Monitoring Point
- Abandoned Monitoring Well Location (installed in bedrock)
- Abandoned Production Well Location (Layne)
- Soil Boring or Test Pit Location
- Groundwater Collection System (GWCS)
- GWCS Trench Extension

Appendix A

Groundwater and
Field QA/QC Data Reports

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-006-S	MW-102-R	MW-109-S	MW-109-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/17/12	04/24/12	02/07/12	04/17/12
LABORATORY SAMPLE I.D.		420-54179-8	420-54338-2	420-52158-4	420-54179-4
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	6.27	6.83	7.02	6.21
SPECIFIC CONDUCTANCE	umhos/cm	226	1172	1011	564
TEMPERATURE	C	11.0	13.0	11.4	10.9
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	ND@0.0010	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.97J	ND@1	0.72J	0.85J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-006-S	MW-102-R	MW-109-S	MW-109-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/17/12	04/24/12	02/07/12	04/17/12
LABORATORY SAMPLE I.D.		420-54179-8	420-54338-2	420-52158-4	420-54179-4
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.41J	ND@1	0.24J	1.2
1,1-DICHLOROETHYLENE	ug/l	0.86J	ND@1	0.16J	1.3
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	0.31J	ND@1	ND@1	0.72J
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	1.0J	3.3
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	0.16J	ND@1	ND@1	0.14J
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	14	ND@1	3.3	14
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	0.56J
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-110-AS	MW-111-S	MW-113-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/20/12	04/20/12	04/18/12
LABORATORY SAMPLE I.D.		420-54235-14	420-54235-15	420-54180-10
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
ACID EXTRACTABLES				
PHENOLS, TOTAL	ug/l	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES				
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA
INDICATOR PARAMETERS				
PH	pH	6.79	6.97	6.83
SPECIFIC CONDUCTANCE	umhos/cm	207	876	228
TEMPERATURE	C	12.0	13.1	11.2
METALS				
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA
VOLATILE ORGANICS				
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	1.1	0.32J	0.32J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.37J	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-110-AS	MW-111-S	MW-113-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/20/12	04/20/12	04/18/12
LABORATORY SAMPLE I.D.		420-54235-14	420-54235-15	420-54180-10
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
VOLATILE ORGANICS (Continued)				
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	2.8	ND@1	0.44J
1,1-DICHLOROETHYLENE	ug/l	3.1	ND@1	1.6
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	0.93J	0.20J	0.47J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	9.8	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	0.16J	0.25J	ND@1
TOLUENE	ug/l	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	26	5.1	6.3
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-114-S	MW-116-S	MW-117-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/18/12	04/23/12	04/18/12
LABORATORY SAMPLE I.D.		420-54180-9	420-54285-20	420-54180-12
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
ACID EXTRACTABLES				
PHENOLS, TOTAL	ug/l	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES				
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	0.25J	ND@1
PCB 1016	ug/l	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA
INDICATOR PARAMETERS				
PH	pH	7.71	6.77	7.47
SPECIFIC CONDUCTANCE	umhos/cm	421	697	1037
TEMPERATURE	C	12.0	12.2	11.2
METALS				
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA
VOLATILE ORGANICS				
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.73J	6.1	0.54J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	0.38J	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-114-S	MW-116-S	MW-117-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/18/12	04/23/12	04/18/12
LABORATORY SAMPLE I.D.		420-54180-9	420-54285-20	420-54180-12
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
VOLATILE ORGANICS (Continued)				
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.19J	1.3	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	2.6	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	0.29J	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	1.3	0.32J
TOLUENE	ug/l	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	6.5	4.0	0.57J
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-122-S	MW-125-S	MW-161-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/24/12	04/25/12	04/24/12
LABORATORY SAMPLE I.D.		420-54338-3	420-54338-11	420-54338-4
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
ACID EXTRACTABLES				
PHENOLS, TOTAL	ug/l	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES				
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA
INDICATOR PARAMETERS				
PH	pH	6.76	6.97	6.88
SPECIFIC CONDUCTANCE	umhos/cm	1976	797	2997
TEMPERATURE	C	12.1	13.0	13.4
METALS				
ANTIMONY, DISSOLVED	mg/l	NA	NA	ND@0.00040
ARSENIC, DISSOLVED	mg/l	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA
LEAD, DISSOLVED	mg/l	ND@0.0010	ND@0.0010	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA
VOLATILE ORGANICS				
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-122-S	MW-125-S	MW-161-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/24/12	04/25/12	04/24/12
LABORATORY SAMPLE I.D.		420-54338-3	420-54338-11	420-54338-4
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
VOLATILE ORGANICS (Continued)				
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-162-S	MW-164-S	MW-170-S	MW-170-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/24/12	04/24/12	02/07/12	04/17/12
LABORATORY SAMPLE I.D.		420-54338-8	420-54338-5	420-52158-3	420-54179-6
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	6.82	7.01	6.96	7.29
SPECIFIC CONDUCTANCE	umhos/cm	340	827	897	834
TEMPERATURE	C	13.7	13.0	12.0	10.6
METALS					
ANTIMONY, DISSOLVED	mg/l	ND@0.00040	ND@0.00040	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.69J	2.0	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-162-S	MW-164-S	MW-170-S	MW-170-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/24/12	04/24/12	02/07/12	04/17/12
LABORATORY SAMPLE I.D.		420-54338-8	420-54338-5	420-52158-3	420-54179-6
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.31J	1.0	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	0.87J	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	0.26J	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	0.29J	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	0.17J	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	1.2	0.91J	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-171-S	MW-171-S	MW-172-S	MW-172-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
SAMPLE DATE		02/07/12	04/23/12	04/25/12	04/25/12
LABORATORY SAMPLE I.D.		420-52158-2	420-54285-7	200-10536-3	420-54338-15
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	6.98	7.02	6.99	6.99
SPECIFIC CONDUCTANCE	umhos/cm	1127	1136	2672	2672
TEMPERATURE	C	11.7	11.9	13.1	13.1
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	0.29J	0.74J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-171-S	MW-171-S	MW-172-S	MW-172-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
SAMPLE DATE		02/07/12	04/23/12	04/25/12	04/25/12
LABORATORY SAMPLE I.D.		420-52158-2	420-54285-7	200-10536-3	420-54338-15
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	7.5	17	0.50J	0.75J
1,1-DICHLOROETHYLENE	ug/l	0.54J	0.85J	0.70J	0.93J
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	0.47J	NA	ND@1
1,2-DICHLOROETHANE	ug/l	1.2	1.0	ND@1	0.15J
1,2-DICHLOROETHYLENE, TOTAL	ug/l	7.2	11	1.3	1.5
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	NA	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	3.9	4.1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	0.24J
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	0.14J	0.81J	14	21
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	4.1	15	0.28J	0.53J
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-173-S	MW-173-S	MW-174-S	MW-174-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/06/12	04/18/12	02/06/12	04/18/12
LABORATORY SAMPLE I.D.		420-52082-8	420-54180-6	420-52082-9	420-54180-7
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.07	7.17	7.17	7.20
SPECIFIC CONDUCTANCE	umhos/cm	677	682	727	729
TEMPERATURE	C	11.9	12.1	12.3	12.6
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	19	21	ND@1	0.52J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.62J	0.61J	ND@1	ND@1

SAMPLE LOCATION		MW-173-S	MW-173-S	MW-174-S	MW-174-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/06/12	04/18/12	02/06/12	04/18/12
LABORATORY SAMPLE I.D.		420-52082-8	420-54180-6	420-52082-9	420-54180-7
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	2.4	2.3	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	100D	61D	ND@1	0.37J
1,1-DICHLOROETHYLENE	ug/l	140D	100D	0.60J	1.2
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.89J	0.79J	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	4.0	3.3	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	8.8	6.7	0.22J	0.23J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	1.5	0.77J	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	0.23J	ND@1	0.15J
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	0.48J	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	0.51J	0.44J	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	50	41	8.2	8.3
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	0.55J	0.41J	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-175-S	MW-175-S	MW-175-S	MW-176-S	MW-176-S
SAMPLE DESCRIPTION		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/07/12	02/07/12	04/17/12	02/06/12	04/17/12
LABORATORY SAMPLE I.D.		420-52158-12	200-9264-3	420-54179-17	420-52082-10	420-54179-13
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
ACID EXTRACTABLES						
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES						
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA	NA
INDICATOR PARAMETERS						
PH	pH	6.98	6.98	6.89	6.83	7.88
SPECIFIC CONDUCTANCE	umhos/cm	671	671	1483	1201	1418
TEMPERATURE	C	14.6	14.6	13.1	14.1	14.0
METALS						
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA	NA
VOLATILE ORGANICS						
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.65J	ND@1	1.5	1.2	0.73J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	0.30J	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-175-S	MW-175-S	MW-175-S	MW-176-S	MW-176-S
SAMPLE DESCRIPTION		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/07/12	02/07/12	04/17/12	02/06/12	04/17/12
LABORATORY SAMPLE I.D.		420-52158-12	200-9264-3	420-54179-17	420-52082-10	420-54179-13
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
VOLATILE ORGANICS (Continued)						
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	0.55J	0.13J	ND@1
1,1-DICHLOROETHANE	ug/l	2.0	1.3	6.6	9.0	3.3
1,1-DICHLOROETHYLENE	ug/l	5.7	3.3	20	24	6.6
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	0.19J	ND@1	0.67J	0.23J	0.10J
1,2-DICHLOROETHYLENE, TOTAL	ug/l	2.2	1.7	8.4	2.5	0.80J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	NA	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	0.39J	ND@1	0.90J	0.34J	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	0.13J	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	14	7.3	70D	48	19
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA

SAMPLE LOCATION		MW-176-S	MW-177-S	MW-177-S	MW-178-S
SAMPLE DESCRIPTION		DUPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/17/12	02/06/12	04/17/12	02/06/12
LABORATORY SAMPLE I.D.		420-54179-14	420-52082-11	420-54179-15	420-52082-12
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.88	6.97	6.98	7.02
SPECIFIC CONDUCTANCE	umhos/cm	1418	1102	1207	1011
TEMPERATURE	C	14.0	13.9	13.9	12.0
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.57J	ND@1	ND@1	1.7
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	0.36J

SAMPLE LOCATION		MW-176-S	MW-177-S	MW-177-S	MW-178-S
SAMPLE DESCRIPTION		DUPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/17/12	02/06/12	04/17/12	02/06/12
LABORATORY SAMPLE I.D.		420-54179-14	420-52082-11	420-54179-15	420-52082-12
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	3.2	3.2	1.7	6.3
1,1-DICHLOROETHYLENE	ug/l	5.9	4.2	1.9	5.1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	0.74J	0.31J	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	1.5
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	18	ND@1	ND@1	7.4
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-178-S	MW-180-S	MW-180-S	MW-183-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/18/12	02/06/12	04/20/12	02/06/12
LABORATORY SAMPLE I.D.		420-54180-8	420-52082-14	420-54235-12	420-52082-13
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.09	6.87	6.93	6.97
SPECIFIC CONDUCTANCE	umhos/cm	1019	971	983	1071
TEMPERATURE	C	12.3	11.1	11.9	13.1
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	2.4	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.48J	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-178-S	MW-180-S	MW-180-S	MW-183-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/18/12	02/06/12	04/20/12	02/06/12
LABORATORY SAMPLE I.D.		420-54180-8	420-52082-14	420-54235-12	420-52082-13
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	8.3	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	14	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	0.16J	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	0.33J	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	6.3	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	6.9	4.4	3.4	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-183-S	MW-184-SA	MW-184-SA	MW-185-SA
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/20/12	02/07/12	04/17/12	02/07/12
LABORATORY SAMPLE I.D.		420-54235-9	420-52158-7	420-54179-10	420-52158-9
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.00	7.17	7.71	7.12
SPECIFIC CONDUCTANCE	umhos/cm	1068	699	967	698
TEMPERATURE	C	13.4	12.1	11.6	12.7
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	0.82J	0.94J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-183-S	MW-184-SA	MW-184-SA	MW-185-SA
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/20/12	02/07/12	04/17/12	02/07/12
LABORATORY SAMPLE I.D.		420-54235-9	420-52158-7	420-54179-10	420-52158-9
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	0.31J	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	0.20J	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	0.11J	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	1.9	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	0.12J	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	0.44J	3.2	1.7
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-185-SA	MW-186-S	MW-187-S	MW-187-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	DUPLICATE
SAMPLE DATE		04/17/12	04/23/12	02/06/12	02/06/12
LABORATORY SAMPLE I.D.		420-54179-9	420-54285-6	420-52082-19	420-52082-20
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	6.14	6.87	6.88	6.88
SPECIFIC CONDUCTANCE	umhos/cm	704	1100	1008	1008
TEMPERATURE	C	11.6	11.9	12.1	12.1
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.80J	ND@1	0.75J	0.81J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-185-SA	MW-186-S	MW-187-S	MW-187-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	DUPLICATE
SAMPLE DATE		04/17/12	04/23/12	02/06/12	02/06/12
LABORATORY SAMPLE I.D.		420-54179-9	420-54285-6	420-52082-19	420-52082-20
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	0.35J	0.35J
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	0.28J	0.31J
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	6.9	5.9
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	0.12J	1.2	1.3
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	1.8	6.4	36	38
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-187-S	MW-188-S	MW-189-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/23/12	04/17/12	04/20/12
LABORATORY SAMPLE I.D.		420-54285-8	420-54179-7	420-54235-4
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
ACID EXTRACTABLES				
PHENOLS, TOTAL	ug/l	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES				
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA
INDICATOR PARAMETERS				
PH	pH	6.89	6.38	7.12
SPECIFIC CONDUCTANCE	umhos/cm	1010	361	697
TEMPERATURE	C	12.2	12.4	12.9
METALS				
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA
VOLATILE ORGANICS				
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-187-S	MW-188-S	MW-189-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/23/12	04/17/12	04/20/12
LABORATORY SAMPLE I.D.		420-54285-8	420-54179-7	420-54235-4
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
VOLATILE ORGANICS (Continued)				
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.65J	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	0.50J	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	0.36J	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	8.1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	1.5	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	37	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA

SAMPLE LOCATION		MW-201-S	MW-204-S	MW-204-S	MW-206-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/17/12	02/07/12	04/25/12	02/08/12
LABORATORY SAMPLE I.D.		420-54179-2	420-52158-11	420-54338-12	420-52158-19
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	ND@10
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	0.54J
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	6.71	7.48	7.45	7.37
SPECIFIC CONDUCTANCE	umhos/cm	1141	3226	3201	757
TEMPERATURE	C	11.1	13.4	13.2	11.7
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	ND@0.0014
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	ND@0.0010
LEAD, DISSOLVED	mg/l	NA	ND@0.0010	ND@0.0010	ND@0.0010
SILVER, DISSOLVED	mg/l	NA	NA	NA	ND@0.0010 N
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.71J	83D	100D	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	0.50J	0.59J	ND@1

SAMPLE LOCATION		MW-201-S	MW-204-S	MW-204-S	MW-206-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/17/12	02/07/12	04/25/12	02/08/12
LABORATORY SAMPLE I.D.		420-54179-2	420-52158-11	420-54338-12	420-52158-19
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	0.23J	0.36J	ND@1
1,1-DICHLOROETHANE	ug/l	0.29J	22	23	0.86J
1,1-DICHLOROETHYLENE	ug/l	0.30J	15	19	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	0.11J	0.93J	1.9	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	52D	46	0.30J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	0.14J	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	3.4	2.2	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	3.4	2.9	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	3.9	140D	130D	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	0.15J	0.18J	0.68J
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-206-S	MW-208-S	MW-208-S	MW-208-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
SAMPLE DATE		04/18/12	02/08/12	02/08/12	04/18/12
LABORATORY SAMPLE I.D.		420-54180-4	420-52172-2	200-9264-5	420-54180-5
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	ND@10	ND@10	NA	ND@10
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	0.44J	ND@1	ND@1	0.27J
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.57	6.99	6.99	7.02
SPECIFIC CONDUCTANCE	umhos/cm	742	3717	3717	3717
TEMPERATURE	C	12.2	11.7	11.7	12.3
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	ND@0.0014	0.022	NA	0.019
CADMIUM, DISSOLVED	mg/l	ND@0.0010	ND@0.0010	NA	ND@0.0010
LEAD, DISSOLVED	mg/l	ND@0.0010	ND@0.0010	NA	ND@0.0010
SILVER, DISSOLVED	mg/l	ND@0.0010 N	ND@0.0010 N	NA	ND@0.0010 N
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	0.15J	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-206-S	MW-208-S	MW-208-S	MW-208-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
SAMPLE DATE		04/18/12	02/08/12	02/08/12	04/18/12
LABORATORY SAMPLE I.D.		420-54180-4	420-52172-2	200-9264-5	420-54180-5
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	1.2	0.15J	ND@1	0.32J
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	NA	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	0.47J	0.25J	ND@1	0.26J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	NA	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	1.0	1.5
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	0.12J	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	0.22J	ND@1	ND@1	0.12J
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	0.98J	ND@1	ND@1	0.15J
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-210-S	MW-210-S	MW-210-S	MW-250-M
SAMPLE DESCRIPTION		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/08/12	04/25/12	04/25/12	04/23/12
LABORATORY SAMPLE I.D.		420-52158-20	200-10536-5	420-54338-16	420-54285-18
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	ND@10	NA	ND@10	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	0.18J	0.21J	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.07	7.02	7.02	6.83
SPECIFIC CONDUCTANCE	umhos/cm	920	937	937	597
TEMPERATURE	C	11.1	11.0	11.0	11.6
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	0.088	NA	ND@0.0014	NA
CADMIUM, DISSOLVED	mg/l	ND@0.0010	NA	ND@0.0010	NA
LEAD, DISSOLVED	mg/l	ND@0.0010	NA	ND@0.0010	NA
SILVER, DISSOLVED	mg/l	ND@0.0010 N	NA	ND@0.0010 N	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-210-S	MW-210-S	MW-210-S	MW-250-M
SAMPLE DESCRIPTION		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/08/12	04/25/12	04/25/12	04/23/12
LABORATORY SAMPLE I.D.		420-52158-20	200-10536-5	420-54338-16	420-54285-18
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.69J	1.0	1.3	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	NA	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	2.5	1.1	2.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	1.2	0.91J	1.1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	0.77J
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	0.13J
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	0.24J	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-269-S	MW-270-S	MW-274-S	MW-274-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	DUPLICATE
SAMPLE DATE		04/23/12	04/23/12	04/20/12	04/20/12
LABORATORY SAMPLE I.D.		420-54285-2	420-54285-3	420-54235-10	420-54235-11
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	0.26J	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	NA	NA	7.13	7.13
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	672	672
TEMPERATURE	C	NA	NA	12.7	12.7
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	200D	360D	0.78J	0.96J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	0.11J	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.89J	15	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-269-S	MW-270-S	MW-274-S	MW-274-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	DUPLICATE
SAMPLE DATE		04/23/12	04/23/12	04/20/12	04/20/12
LABORATORY SAMPLE I.D.		420-54285-2	420-54285-3	420-54235-10	420-54235-11
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	0.69J	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	160D	190D	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	16	23	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.6	3.2	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	11	4.0	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	310D	440D	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	ND@1	ND@1	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	0.24J	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	0.14J	0.82J	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	14	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	26	41	ND@1	ND@1
TOLUENE	ug/l	ND@1	6.3	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	240D	440D	0.71J	1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	22	260D	ND@1	ND@1
XYLENE, TOTAL	ug/l	ND@1	82	NA	NA

SAMPLE LOCATION		MW-277-S	MW-278-S	MW-279-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/23/12	04/24/12	04/24/12
LABORATORY SAMPLE I.D.		420-54285-14	420-54338-9	420-54338-10
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
ACID EXTRACTABLES				
PHENOLS, TOTAL	ug/l	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES				
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	1.5	ND@1
PCB 1016	ug/l	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA
INDICATOR PARAMETERS				
PH	pH	7.17	7.21	6.97
SPECIFIC CONDUCTANCE	umhos/cm	768	1417	2107
TEMPERATURE	C	12.9	13.1	13.1
METALS				
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA
VOLATILE ORGANICS				
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	0.11J	ND@1
1,1,1-TRICHLOROETHANE	ug/l	2100D	1900D	2.3
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	3.4	ND@1

SAMPLE LOCATION		MW-277-S	MW-278-S	MW-279-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/23/12	04/24/12	04/24/12
LABORATORY SAMPLE I.D.		420-54285-14	420-54338-9	420-54338-10
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
VOLATILE ORGANICS (Continued)				
1,1,2-TRICHLOROETHANE	ug/l	4.7	13	0.20J
1,1-DICHLOROETHANE	ug/l	370D	300D	21
1,1-DICHLOROETHYLENE	ug/l	200D	400D	16
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	21	7.3	0.40J
1,2-DICHLOROETHYLENE, TOTAL	ug/l	4.6	14	0.89J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	1.4	ND@1	ND@1
CHLOROFORM	ug/l	9.8	2.9	0.28J
CHLOROMETHANE	ug/l	0.13J	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	0.17J
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA
METHYLENE CHLORIDE	ug/l	1.8	0.97J	ND@1
TETRACHLOROETHYLENE	ug/l	2.4	1.4	ND@1
TOLUENE	ug/l	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	46	180D	7.9
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	1.1	0.85J	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-282-S	MW-284-S	MW-284-S	MW-284-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	DUPLICATE	GROUNDWATER
SAMPLE DATE		04/20/12	02/06/12	02/06/12	04/23/12
LABORATORY SAMPLE I.D.		420-54235-18	420-52082-17	420-52082-18	420-54285-9
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.02	6.88	6.88	7.01
SPECIFIC CONDUCTANCE	umhos/cm	897	1021	1021	1030
TEMPERATURE	C	12.8	12.3	12.3	12.4
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-282-S	MW-284-S	MW-284-S	MW-284-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	DUPLICATE	GROUNDWATER
SAMPLE DATE		04/20/12	02/06/12	02/06/12	04/23/12
LABORATORY SAMPLE I.D.		420-54235-18	420-52082-17	420-52082-18	420-54285-9
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	0.12J	0.44J
1,1-DICHLOROETHYLENE	ug/l	ND@1	0.19J	0.23J	0.77J
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	0.28J
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	2.5	56D	88D	120D
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	0.24J
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	2.4	42	47	170D
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	1.4	0.80J	1.1	2.1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-285-S	MW-285-S	MW-288-S	MW-297-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/23/12	04/23/12	04/20/12	04/20/12
LABORATORY SAMPLE I.D.		420-54285-12	L1207300-01	420-54235-16	420-54235-17
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	NA	1.3	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	NA	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	NA	0.50J	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	NA	ND@1	ND@1
PCB 1016	ug/l	NA	ND@0.083	NA	NA
PCB 1221	ug/l	NA	ND@0.083	NA	NA
PCB 1232	ug/l	NA	ND@0.083	NA	NA
PCB 1242	ug/l	NA	ND@0.083	NA	NA
PCB 1248	ug/l	NA	ND@0.083	NA	NA
PCB 1254	ug/l	NA	ND@0.083	NA	NA
PCB 1260	ug/l	NA	ND@0.083	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.17	NA	7.31	7.12
SPECIFIC CONDUCTANCE	umhos/cm	697	NA	977	727
TEMPERATURE	C	12.3	NA	12.7	13.2
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	NA	ND@1	0.29J
1,1,1-TRICHLOROETHANE	ug/l	2.8	NA	5.0	29D
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	NA	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.39J	NA	2.1	6.2

SAMPLE LOCATION		MW-285-S	MW-285-S	MW-288-S	MW-297-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/23/12	04/23/12	04/20/12	04/20/12
LABORATORY SAMPLE I.D.		420-54285-12	L1207300-01	420-54235-16	420-54235-17
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	NA	0.27J	0.24J
1,1-DICHLOROETHANE	ug/l	2.5	NA	7.4	25
1,1-DICHLOROETHYLENE	ug/l	0.97J	NA	2.6	9.5
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	NA	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	0.81J	1.3
1,2-DICHLOROETHANE	ug/l	0.26J	NA	0.32J	0.93J
1,2-DICHLOROETHYLENE, TOTAL	ug/l	28	NA	51	64D
1,2-DICHLOROPROPANE	ug/l	ND@1	NA	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	NA	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	NA	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	NA	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	NA	ND@1	ND@1
BROMOFORM	ug/l	ND@1	NA	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	NA	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	NA	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	NA	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	NA	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	NA	0.27J	0.24J
CHLOROFORM	ug/l	1.2	NA	1.8	3.3
CHLOROMETHANE	ug/l	ND@1	NA	0.16J	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	NA	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	NA	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	NA	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	NA	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	4.5	NA	9.5	19
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	NA	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	86D	NA	180D	200D
TRICHLOROFLUOROMETHANE	ug/l	ND@1	NA	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	NA	1.4	8.8
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-403-S	MW-406-S	MW-407-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/07/12	04/17/12	04/17/12
LABORATORY SAMPLE I.D.		420-52158-10	420-54179-5	420-54179-3
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
ACID EXTRACTABLES				
PHENOLS, TOTAL	ug/l	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES				
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA
INDICATOR PARAMETERS				
PH	pH	6.89	6.33	6.67
SPECIFIC CONDUCTANCE	umhos/cm	360	2330	1656
TEMPERATURE	C	11.0	11.7	11.4
METALS				
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA
VOLATILE ORGANICS				
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.47J	0.70J	3.2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-403-S	MW-406-S	MW-407-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/07/12	04/17/12	04/17/12
LABORATORY SAMPLE I.D.		420-52158-10	420-54179-5	420-54179-3
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
VOLATILE ORGANICS (Continued)				
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	0.51J	4.0
1,1-DICHLOROETHYLENE	ug/l	ND@1	0.76J	4.6
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	0.30J	2.1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	0.33J	1.7
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	0.18J	0.94J
TOLUENE	ug/l	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	1.6	8.2	45D
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-504-S	MW-504-S	MW-505-S	MW-505-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	DUPLICATE
SAMPLE DATE		02/06/12	04/23/12	04/23/12	04/23/12
LABORATORY SAMPLE I.D.		420-52082-15	420-54285-17	420-54285-10	420-54285-11
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	6.98	7.01	7.24	7.24
SPECIFIC CONDUCTANCE	umhos/cm	988	688	2679	2679
TEMPERATURE	C	12.5	12.0	11.7	11.7
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	1.2	6.1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	0.22J	0.27J

SAMPLE LOCATION		MW-504-S	MW-504-S	MW-505-S	MW-505-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	DUPLICATE
SAMPLE DATE		02/06/12	04/23/12	04/23/12	04/23/12
LABORATORY SAMPLE I.D.		420-52082-15	420-54285-17	420-54285-10	420-54285-11
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.18J	1.2	0.14J	0.18J
1,1-DICHLOROETHYLENE	ug/l	0.19J	1.0	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	0.31J	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	0.37J	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	11	15	5.4	6.0
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	0.73J	1.3	4.3	4.6
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-506-S	MW-508-SA	MW-508-SA	MW-508-SA
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	DUPLICATE	GROUNDWATER
SAMPLE DATE		04/23/12	02/07/12	02/07/12	04/17/12
LABORATORY SAMPLE I.D.		420-54285-13	420-52158-5	420-52158-6	420-54179-11
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	6.71	7.01	7.01	5.99
SPECIFIC CONDUCTANCE	umhos/cm	327	803	803	761
TEMPERATURE	C	12.7	13.7	13.7	12.6
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	28	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.25J	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-506-S	MW-508-SA	MW-508-SA	MW-508-SA
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	DUPLICATE	GROUNDWATER
SAMPLE DATE		04/23/12	02/07/12	02/07/12	04/17/12
LABORATORY SAMPLE I.D.		420-54285-13	420-52158-5	420-52158-6	420-54179-11
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	0.71J	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	16	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	6.0	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	0.64J	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	36	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	3.9	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	10	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	400D	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-601-S	MW-602-S	MW-603-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/23/12	04/25/12	04/23/12
LABORATORY SAMPLE I.D.		420-54285-16	420-54338-14	420-54285-4
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
ACID EXTRACTABLES				
PHENOLS, TOTAL	ug/l	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES				
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA
INDICATOR PARAMETERS				
PH	pH	7.12	6.97	7.03
SPECIFIC CONDUCTANCE	umhos/cm	597	762	1242
TEMPERATURE	C	13.2	13.4	12.3
METALS				
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA
VOLATILE ORGANICS				
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	8.3	3.2	2.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.61J	2.2	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-601-S	MW-602-S	MW-603-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/23/12	04/25/12	04/23/12
LABORATORY SAMPLE I.D.		420-54285-16	420-54338-14	420-54285-4
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
VOLATILE ORGANICS (Continued)				
1,1,2-TRICHLOROETHANE	ug/l	0.28J	1.5	ND@1
1,1-DICHLOROETHANE	ug/l	12	45D	0.81J
1,1-DICHLOROETHYLENE	ug/l	21	46D	1.4
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	0.71J	ND@1
1,2-DICHLOROETHANE	ug/l	0.29J	1.2	0.11J
1,2-DICHLOROETHYLENE, TOTAL	ug/l	2.2	15	0.54J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	0.34J	0.86J	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	0.43J	ND@1
TETRACHLOROETHYLENE	ug/l	0.68J	3.9	ND@1
TOLUENE	ug/l	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	36	150D	10
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	0.56J	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-604-S	MW-604-S	MW-605-S	MW-610-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/06/12	04/23/12	04/17/12	04/24/12
LABORATORY SAMPLE I.D.		420-52082-16	420-54285-5	420-54179-12	420-54338-7
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	6.97	6.87	6.47	7.17
SPECIFIC CONDUCTANCE	umhos/cm	1307	1107	4010	223
TEMPERATURE	C	12.0	12.4	14.4	12.7
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	28	13	930D	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	2.3	ND@1

SAMPLE LOCATION		MW-604-S	MW-604-S	MW-605-S	MW-610-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/06/12	04/23/12	04/17/12	04/24/12
LABORATORY SAMPLE I.D.		420-52082-16	420-54285-5	420-54179-12	420-54338-7
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	1.5	ND@1
1,1-DICHLOROETHANE	ug/l	8.0	3.1	150D	ND@1
1,1-DICHLOROETHYLENE	ug/l	5.9	3.5	110D	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	1.1	ND@1
1,2-DICHLOROETHANE	ug/l	1.3	0.55J	4.5	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	22	13	3.0	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	2.0	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	0.50J	ND@1
TETRACHLOROETHYLENE	ug/l	1.1	1.6	0.17J	ND@1
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	45D	93D	39	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	0.41J	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-612-S	MW-612-S	MW-612-S	MW-612-S	MW-802
SAMPLE DESCRIPTION		GROUNDWATER	DUPLICATE	GROUNDWATER	DUPLICATE	GROUNDWATER
SAMPLE DATE		02/08/12	02/08/12	04/18/12	04/18/12	02/08/12
LABORATORY SAMPLE I.D.		420-52158-14	420-52158-15	420-54179-19	420-54179-20	420-52158-18
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
ACID EXTRACTABLES						
PHENOLS, TOTAL	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10
BASE/NEUTRAL EXTRACTABLES						
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA	NA
INDICATOR PARAMETERS						
PH	pH	7.28	7.28	7.31	7.31	7.29
SPECIFIC CONDUCTANCE	umhos/cm	667	667	655	655	822
TEMPERATURE	C	12.8	12.8	13.7	13.7	11.5
METALS						
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	ND@0.0014	ND@0.0014	ND@0.0014	ND@0.0014	ND@0.0014
CADMIUM, DISSOLVED	mg/l	ND@0.0010	ND@0.0010	ND@0.0010	ND@0.0010	ND@0.0010
LEAD, DISSOLVED	mg/l	ND@0.0010	ND@0.0010	ND@0.0010	ND@0.0010	ND@0.0010
SILVER, DISSOLVED	mg/l	ND@0.0010 N	ND@0.0010 N	ND@0.0010 N	ND@0.0010 N	ND@0.0010 N
VOLATILE ORGANICS						
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	1.6	1.5	1.6	1.6	0.96J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-612-S	MW-612-S	MW-612-S	MW-612-S	MW-802
SAMPLE DESCRIPTION		GROUNDWATER	DUPLICATE	GROUNDWATER	DUPLICATE	GROUNDWATER
SAMPLE DATE		02/08/12	02/08/12	04/18/12	04/18/12	02/08/12
LABORATORY SAMPLE I.D.		420-52158-14	420-52158-15	420-54179-19	420-54179-20	420-52158-18
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
VOLATILE ORGANICS (Continued)						
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	1.2	1.1	1.5	1.5	0.22J
1,1-DICHLOROETHYLENE	ug/l	0.35J	0.34J	0.45J	0.44J	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	0.38J	0.39J	0.44J	0.46J	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	0.16J	0.15J	0.16J	0.16J	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	0.58J	0.55J	0.94J	0.94J	0.22J
TOLUENE	ug/l	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	5.2	5.4	7.5	7.2	6.4
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-802	MW-806-S	MW-816
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/18/12	04/23/12	02/08/12
LABORATORY SAMPLE I.D.		420-54180-3	420-54285-19	420-52158-16
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
ACID EXTRACTABLES				
PHENOLS, TOTAL	ug/l	ND@10	NA	ND@10
BASE/NEUTRAL EXTRACTABLES				
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA
INDICATOR PARAMETERS				
PH	pH	7.42	7.17	7.27
SPECIFIC CONDUCTANCE	umhos/cm	827	839	802
TEMPERATURE	C	12.0	11.6	11.3
METALS				
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	ND@0.0014	NA	ND@0.0014
CADMIUM, DISSOLVED	mg/l	ND@0.0010	NA	ND@0.0010
LEAD, DISSOLVED	mg/l	ND@0.0010	NA	ND@0.0010
SILVER, DISSOLVED	mg/l	ND@0.0010 N	NA	ND@0.0010 N
VOLATILE ORGANICS				
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	1.3	ND@1	1.2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-802	MW-806-S	MW-816
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/18/12	04/23/12	02/08/12
LABORATORY SAMPLE I.D.		420-54180-3	420-54285-19	420-52158-16
SAMPLE RUN NUMBER		01	01	01
SAMPLE COMMENT CODES				
PARAMETER	UNITS			
VOLATILE ORGANICS (Continued)				
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.23J	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	0.59J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	0.12J	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	0.29J	1.9	ND@1
TOLUENE	ug/l	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	6.8	2.1	24
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-817	MW-817	MW-A	TMP-8
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/08/12	04/18/12	04/25/12	04/20/12
LABORATORY SAMPLE I.D.		420-52158-17	420-54180-2	420-54338-13	420-54235-13
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
ACID EXTRACTABLES					
PHENOLS, TOTAL	ug/l	ND@10	ND@10	NA	NA
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
PCB 1016	ug/l	NA	NA	NA	NA
PCB 1221	ug/l	NA	NA	NA	NA
PCB 1232	ug/l	NA	NA	NA	NA
PCB 1242	ug/l	NA	NA	NA	NA
PCB 1248	ug/l	NA	NA	NA	NA
PCB 1254	ug/l	NA	NA	NA	NA
PCB 1260	ug/l	NA	NA	NA	NA
INDICATOR PARAMETERS					
PH	pH	7.47	7.42	7.49	6.98
SPECIFIC CONDUCTANCE	umhos/cm	617	727	202	477
TEMPERATURE	C	12.7	13.2	10.4	12.2
METALS					
ANTIMONY, DISSOLVED	mg/l	NA	NA	NA	NA
ARSENIC, DISSOLVED	mg/l	ND@0.0014	ND@0.0014	NA	NA
CADMIUM, DISSOLVED	mg/l	ND@0.0010	ND@0.0010	NA	NA
LEAD, DISSOLVED	mg/l	ND@0.0010	ND@0.0010	NA	NA
SILVER, DISSOLVED	mg/l	ND@0.0010 N	ND@0.0010 N	NA	NA
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	9.9	11	ND@1	570D
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	3.0

SAMPLE LOCATION		MW-817	MW-817	MW-A	TMP-8
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/08/12	04/18/12	04/25/12	04/20/12
LABORATORY SAMPLE I.D.		420-52158-17	420-54180-2	420-54338-13	420-54235-13
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	9.5
1,1-DICHLOROETHANE	ug/l	2.0	7.1	ND@1	310D
1,1-DICHLOROETHYLENE	ug/l	1.7	4.8	ND@1	260D
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	2.9
1,2-DICHLOROETHANE	ug/l	1.5	3.2	ND@1	5.8
1,2-DICHLOROETHYLENE, TOTAL	ug/l	5.1	18	ND@1	16
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	1.1	0.75J	ND@1	2.6
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	0.88J
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	2.2
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	110D	180D	ND@1	200D
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	0.60J	5.3	ND@1	0.84J
XYLENE, TOTAL	ug/l	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

EXPLANATION OF REPORTING CONVENTIONS AND KEY TO COMMENT CODES

REPORTING CONVENTIONS

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X
BMRL@X	Below Minimum Reporting Limit of X

CODE	EXPLANATION
^	Non-Standard Measurement Unit
c	Sample contained sediment which may have contributed to reported results
d	24 Hour Composite Sample
B	Organic analyte detected in both the sample and the laboratory blank
D	Compounds identifed at a secondary dilution factor
E	Concentration exceeds the calibration range of the GC/MS instrument
J	Estimated Value
N	Spiked sample recovery not within control limits
P	Lower of 2 GC column concentrations that have more than 25% difference
R	Reported value is less than the CRDL but greater than the IDL
S	Surrogate recoveries exceed acceptable control limits
W	Post digestion spike FAA out of control limits; sample absorbance < 50%
*	Manhole flooded when sediment sample collected
B	The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL) (Inorganics)
H	Sample was prepped or run beyond the specified method holding time
^	Value estimated. Possible meter malfunction.

Former IBM Kingston Facility
Supplemental Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-169-S	MW-169-S	MW-181-S	MW-181-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/06/12	04/20/12	02/06/12	04/20/12
LABORATORY SAMPLE I.D.		420-52082-4	420-54235-5	420-52082-3	420-54235-7
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
BASE/NEUTRAL EXTRACTABLES					
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS					
PH	pH	6.99	7.04	7.07	7.13
SPECIFIC CONDUCTANCE	umhos/cm	473	487	372	408
TEMPERATURE	C	11.1	11.4	11.4	11.7
VOLATILE ORGANICS					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	1.2	0.96J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	0.31J	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	10	4.6
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	20	9.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	0.28J	0.19J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	0.22J	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Supplemental Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-169-S	MW-169-S	MW-181-S	MW-181-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		02/06/12	04/20/12	02/06/12	04/20/12
LABORATORY SAMPLE I.D.		420-52082-4	420-54235-5	420-52082-3	420-54235-7
SAMPLE RUN NUMBER		01	01	01	01
SAMPLE COMMENT CODES					
PARAMETER	UNITS				
VOLATILE ORGANICS (Continued)					
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	13	9.6
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1

SAMPLE LOCATION		MW-182-S	MW-182-S	MW-609-S	MW-609-S	MW-609-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	DUPLICATE	GROUNDWATER
SAMPLE DATE		02/06/12	04/20/12	02/06/12	02/06/12	04/20/12
LABORATORY SAMPLE I.D.		420-52082-2	420-54235-8	420-52082-6	420-52082-7	420-54235-2
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
BASE/NEUTRAL EXTRACTABLES						
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS						
PH	pH	7.17	7.20	7.17	7.17	7.23
SPECIFIC CONDUCTANCE	umhos/cm	292	305	871	871	888
TEMPERATURE	C	11.6	11.9	12.3	12.3	12.8
VOLATILE ORGANICS						
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.99J	1.8	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	0.31J	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	0.15J	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	2.5	6.4	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	8.2	17	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	0.10J	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	0.29J	0.79J	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	0.17J
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Supplemental Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-182-S	MW-182-S	MW-609-S	MW-609-S	MW-609-S
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	DUPLICATE	GROUNDWATER
SAMPLE DATE		02/06/12	04/20/12	02/06/12	02/06/12	04/20/12
LABORATORY SAMPLE I.D.		420-52082-2	420-54235-8	420-52082-6	420-52082-7	420-54235-2
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
VOLATILE ORGANICS (Continued)						
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	21	27	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Supplemental Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-609-S
SAMPLE DESCRIPTION		DUPLICATE
SAMPLE DATE		04/20/12
LABORATORY SAMPLE I.D.		420-54235-3
SAMPLE RUN NUMBER		01
SAMPLE COMMENT CODES		
PARAMETER	UNITS	
BASE/NEUTRAL EXTRACTABLES		
1,2-DICHLOROBENZENE	ug/l	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1
INDICATOR PARAMETERS		
PH	pH	7.23
SPECIFIC CONDUCTANCE	umhos/cm	888
TEMPERATURE	C	12.8
VOLATILE ORGANICS		
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1
4-CHLOROTOLUENE	ug/l	ND@1
BENZYL CHLORIDE	ug/l	ND@1
BROMOBENZENE	ug/l	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1
BROMOFORM	ug/l	ND@1
BROMOMETHANE	ug/l	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1
CHLOROBENZENE	ug/l	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1
CHLOROETHANE	ug/l	ND@1
CHLOROFORM	ug/l	ND@1
CHLOROMETHANE	ug/l	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1
DIBROMOMETHANE	ug/l	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1

Former IBM Kingston Facility
Supplemental Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		MW-609-S
SAMPLE DESCRIPTION		DUPLICATE
SAMPLE DATE		04/20/12
LABORATORY SAMPLE I.D.		420-54235-3
SAMPLE RUN NUMBER		01
SAMPLE COMMENT CODES		
PARAMETER	UNITS	
VOLATILE ORGANICS (Continued)		
METHYLENE CHLORIDE	ug/l	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1
TRICHLOROETHYLENE	ug/l	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1
VINYL CHLORIDE	ug/l	ND@1

Former IBM Kingston Facility
Supplemental Groundwater Monitoring Data Report
January 1, 2012 - December 31, 2012

EXPLANATION OF REPORTING CONVENTIONS AND KEY TO COMMENT CODES

REPORTING CONVENTIONS

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X
BMRL@X	Below Minimum Reporting Limit of X

CODE	EXPLANATION
^	Non-Standard Measurement Unit
c	Sample contained sediment which may have contributed to reported results
d	24 Hour Composite Sample
B	Organic analyte detected in both the sample and the laboratory blank
D	Compounds identifed at a secondary dilution factor
E	Concentration exceeds the calibration range of the GC/MS instrument
J	Estimated Value
N	Spiked sample recovery not within control limits
P	Lower of 2 GC column concentrations that have more than 25% difference
R	Reported value is less than the CRDL but greater than the IDL
S	Surrogate recoveries exceed acceptable control limits
W	Post digestion spike FAA out of control limits; sample absorbance < 50%
*	Manhole flooded when sediment sample collected
B	The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL) (Inorganics)
H	Sample was prepped or run beyond the specified method holding time
^	Value estimated. Possible meter malfunction.

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
SAMPLE DESCRIPTION		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
SAMPLE DATE		02/06/12	02/07/12	02/07/12	02/08/12	02/08/12	04/17/12
LABORATORY SAMPLE I.D.		420-52082-5	420-52158-8	200-9264-2	420-52158-13	200-9264-4	420-54179-16
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	NA	ND@1	NA	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	NA	ND@1	NA	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	0.12J	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
SAMPLE DESCRIPTION		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
SAMPLE DATE		02/06/12	02/07/12	02/07/12	02/08/12	02/08/12	04/17/12
LABORATORY SAMPLE I.D.		420-52082-5	420-52158-8	200-9264-2	420-52158-13	200-9264-4	420-54179-16
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
SAMPLE DESCRIPTION		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
SAMPLE DATE		04/18/12	04/18/12	04/20/12	04/23/12	04/24/12	04/25/12
LABORATORY SAMPLE I.D.		420-54179-18	420-54180-11	420-54235-6	420-54285-15	420-54338-6	200-10536-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	0.35J	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
SAMPLE DESCRIPTION		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
SAMPLE DATE		04/18/12	04/18/12	04/20/12	04/23/12	04/24/12	04/25/12
LABORATORY SAMPLE I.D.		420-54179-18	420-54180-11	420-54235-6	420-54285-15	420-54338-6	200-10536-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		EQ RINSE BLK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE DESCRIPTION		WTR LVL IND	2/6-7/112	2/7-8/112	2/7-8/112	2/8/2012
SAMPLE DATE		04/25/12	02/06/12	02/07/12	02/07/12	02/08/12
LABORATORY SAMPLE I.D.		200-10536-4	420-52082-1	420-52158-1	200-9264-1	420-52172-1
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
BASE/NEUTRAL EXTRACTABLES						
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
VOLATILE ORGANICS						
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	ND@1	ND@1	NA	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA	NA
BENZYL CHLORIDE	ug/l	NA	ND@1	ND@1	NA	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		EQ RINSE BLK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE DESCRIPTION		WTR LVL IND	2/6-7/112	2/7-8/112	2/7-8/112	2/8/2012
SAMPLE DATE		04/25/12	02/06/12	02/07/12	02/07/12	02/08/12
LABORATORY SAMPLE I.D.		200-10536-4	420-52082-1	420-52158-1	200-9264-1	420-52172-1
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
VOLATILE ORGANICS (Continued)						
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE DESCRIPTION		4/17-18/112	4/18/2012	4/20/2012	4/23-24/112	4/24-25/112	4/25-26/112
SAMPLE DATE		04/17/12	04/18/12	04/20/12	04/23/12	04/24/12	04/25/12
LABORATORY SAMPLE I.D.		420-54179-1	420-54180-1	420-54235-1	420-54285-1	420-54338-1	200-10536-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	ND@1	NA	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA	NA	ND@1	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	NA	NA	ND@1	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE DESCRIPTION		4/17-18/112	4/18/2012	4/20/2012	4/23-24/112	4/24-25/112	4/25-26/112
SAMPLE DATE		04/17/12	04/18/12	04/20/12	04/23/12	04/24/12	04/25/12
LABORATORY SAMPLE I.D.		420-54179-1	420-54180-1	420-54235-1	420-54285-1	420-54338-1	200-10536-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	ND@1	NA	NA

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2012 - December 31, 2012

EXPLANATION OF REPORTING CONVENTIONS AND KEY TO COMMENT CODES

REPORTING CONVENTIONS

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X
BMRL@X	Below Minimum Reporting Limit of X

CODE	EXPLANATION
^	Non-Standard Measurement Unit
c	Sample contained sediment which may have contributed to reported results
d	24 Hour Composite Sample
B	Organic analyte detected in both the sample and the laboratory blank
D	Compounds identifed at a secondary dilution factor
E	Concentration exceeds the calibration range of the GC/MS instrument
J	Estimated Value
N	Spiked sample recovery not within control limits
P	Lower of 2 GC column concentrations that have more than 25% difference
R	Reported value is less than the CRDL but greater than the IDL
S	Surrogate recoveries exceed acceptable control limits
W	Post digestion spike FAA out of control limits; sample absorbance < 50%
*	Manhole flooded when sediment sample collected
B	The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL) (Inorganics)
H	Sample was prepped or run beyond the specified method holding time
^	Value estimated. Possible meter malfunction.

Appendix B

Groundwater Elevation Table

Kingston Site
2012 Water Level Data

Well	Elevation	01/06/12		04/09/12	
	TOC	DTW	GWE	DTW	GWE
MW-001-R	**150.93**	8.53	142.40	7.97	142.96
MW-003-S	**173.03**	4.95	168.08	4.22	168.81
MW-004-R	**176.08**	9.49	166.59	8.82	167.26
MW-004-S	**172.74**	4.90	167.84	3.8	168.94
MW-006-S	**172.69**	5.35	167.34	4.85	167.84
MW-008-S	**179.43**	8.81	170.62	8.44	170.99
MW-010-S	**176.94**	6.85	170.09	Dry	
MW-101-R	**179.31**	N.M.		N.M.	
MW-102-R	**183.93**	45.88	138.05	44.97	138.96
MW-102-S	**146.98**	15.59	131.39	15.01	131.97
MW-104-S	**168.01**	17.83	150.18	17.28	150.73
MW-105-S	**168.07**	21.29	146.78	20.42	147.65
MW-106-S	**152.00**	6.62	145.38	5.71	146.29
MW-107-S	**173.53**	12.17	161.36	11.4	162.13
MW-108-S	**177.26**	8.80	168.46	7.28	169.98
MW-109-S	**174.53**	6.85	167.68	6	168.53
MW-110-SA	**180.15**	9.55	170.60	10.44	169.71
MW-111-S	**179.39**	8.73	170.66	9.61	169.78
MW-112-S	**180.16**	9.17	170.99	9.69	170.47
MW-113-S	**180.03**	8.80	171.23	8.38	171.65
MW-114-S	**176.92**	5.58	171.34	5.3	171.62
MW-115-S	**181.20**	8.74	172.46	7.99	173.21
MW-116-S	**181.28**	7.72	173.56	7.14	174.14
MW-117-S	**180.75**	5.90	174.85	5.66	175.09
MW-118-S	**182.96**	6.70	176.26	6.52	176.44
MW-119-S	**183.87**	8.00	175.87	7.89	175.98
MW-120-S	**185.20**	9.17	176.03	9.01	176.19
MW-122-S	**183.62**	5.60	178.02	5	178.62
MW-123-SA	**178.21**	3.61	174.60	3.44	174.77
MW-124-S	**179.14**	8.88	170.26	8.32	170.82
MW-125-S	**173.88**	11.90	161.98	12.42	161.46
MW-126-S	**180.64**	9.81	170.83	9.17	171.47
MW-161-S	**183.36**	4.00	179.36	3.92	179.44
MW-162-S	**184.36**	5.88	178.48	5.67	178.69
MW-163-S	**185.65**	8.75	176.90	8.5	177.15
MW-164-S	**182.31**	7.63	174.68	7.57	174.74
MW-169-S	**180.08**	9.17	170.91	8.8	171.28
MW-170-S	**174.36**	5.75	168.61	4.81	169.55
MW-171-S	**172.51**	2.23	170.28	5.61	166.90
MW-172-S	**171.68**	3.10	168.58	4.35	167.33
MW-173-S	**179.83**	9.00	170.83	10.91	168.92
MW-174-S	**179.89**	8.98	170.91	10.19	169.70
MW-175-S	**179.99**	8.68	171.31	8.31	171.68
MW-176-S	**177.55**	6.00	171.55	5.82	171.73
MW-177-S	**179.30**	8.56	170.74	8.1	171.20
MW-178-S	**179.29**	8.94	170.35	8.34	170.95
MW-180-S	**179.45**	6.28	173.17	6.07	173.38
MW-181-S	**177.38**	6.38	171.00	6.17	171.21
MW-182-S	**180.09**	9.13	170.96	8.94	171.15
MW-183-S	**174.38**	3.53	170.85	3	171.38
MW-184-SA	**171.30**	8.63	162.67	8.22	163.08
MW-185-SA	**176.88**	15.54	161.34	14.99	161.89
MW-186-S	**172.60**	1.73	170.87	3.92	168.68
MW-187-S	**170.82**	2.10	168.72	3.22	167.60
MW-188-S	**174.59**	6.89	167.70	6.22	168.37
MW-189-S	**175.52**	6.83	168.69	5.93	169.59
MW-201-S	**177.00**	8.08	168.92	7.64	169.36
MW-202-S	**173.29**	6.23	167.06	5.77	167.52
MW-203-S	**175.16**	12.45	162.71	12.01	163.15
MW-204-S	**173.93**	7.30	166.63	6.98	166.95
MW-206-S	**152.42**	5.53	146.89	5.02	147.40
MW-208-S	**152.31**	6.39	145.92	5.92	146.39
MW-209-S	**152.02**	9.18	142.84	8.58	143.44
MW-210-S	**151.99**	7.90	144.09	7	144.99
MW-232-M	**180.94**	10.73	170.21	10	170.94
MW-232-S	**181.03**	10.68	170.35	10.04	170.99
MW-250-M	**178.09**	4.68	173.41	4.27	173.82
MW-261-S	**178.85**	N.M.		N.M.	
MW-267-S	**178.77**	N.M.		N.M.	
MW-269-S	**180.89**	9.83	171.06	10.52	170.37
MW-270-S	**180.48**	10.82	169.66	12.55	167.93
MW-274-S	**177.71**	7.15	170.56	6.78	170.93

Kingston Site
2012 Water Level Data

Well	Elevation	01/06/12		04/09/12	
	TOC	DTW	GWE	DTW	GWE
MW-277-S	**180.33**	8.80	171.53	9.8	170.53
MW-278-S	**180.48**	11.30	169.18	11.83	168.65
MW-279-S	**180.23**	9.40	170.83	10.25	169.98
MW-282-S	**176.63**	5.84	170.79	6.12	170.51
MW-284-S	**174.77**	7.88	166.89	7.8	166.97
MW-285-S	**180.46**	9.00	171.46	9.84	170.62
MW-288-S	**180.22**	8.97	171.25	9.81	170.41
MW-297-S	**180.07**	9.38	170.69	10.21	169.86
MW-402-S	**173.94**	11.71	162.23	Dry	
MW-403-S	**176.89**	15.50	161.39	15.22	161.67
MW-404-S	**171.17**	5.10	166.07	4.81	166.36
MW-405-S	**174.93**	7.23	167.70	5.4	169.53
MW-406-S	**175.85**	7.47	168.38	6.72	169.13
MW-407-S	**176.66**	7.20	169.46	6.47	170.19
MW-502-S	**180.90**	5.88	175.02	5.49	175.41
MW-503-S	**180.71**	7.73	172.98	7.18	173.53
MW-504-S	**177.11**	3.80	173.31	3.68	173.43
MW-505-S	**179.08**	6.77	172.31	7.4	171.68
MW-506-S	**180.14**	8.35	171.79	9.25	170.89
MW-507-S	**178.61**	N.M.		N.M.	
MW-508-SA	**169.89**	7.97	161.92	7	162.89
MW-601-S	**177.65**	6.02	171.63	7	170.65
MW-602-S	**180.25**	8.45	171.80	8.12	172.13
MW-603-S	**174.74**	4.51	170.23	5.22	169.52
MW-604-S	**175.93**	6.57	169.36	7.88	168.05
MW-605-S	**176.06**	7.71	168.35	8.66	167.40
MW-607-S	**175.78**	12.45	163.33	11.98	163.80
MW-608-S	**170.23**	8.30	161.93	7.84	162.39
MW-609-S	**178.58**	7.47	171.11	8.4	170.18
MW-610-S	**181.16**	11.42	169.74	10.84	170.32
MW-612-S	**156.22**	6.92	149.30	9.19	147.03
MW-801-S	**152.27**	4.35	147.92	3.88	148.39
MW-802-S	**153.42**	5.09	148.33	6.5	146.92
MW-804-S	**152.74**	7.83	144.91	6.73	146.01
MW-806-S	**176.49**	3.17	173.32	3.01	173.48
MW-807-S	**177.63**	6.33	171.30	5.92	171.71
MW-810	**145.03**	3.85	141.18	3.51	141.52
MW-811S	**144.93**	4.35	140.58	3.98	140.95
MW-812	**146.73**	8.19	138.54	8.03	138.70
MW-814	**151.70**	10.11	141.59	9.88	141.82
MW-815	**156.30**	8.15	148.15	9.93	146.37
MW-816	**161.40**	10.62	150.78	12.43	148.97
MW-817	**160.53**	10.25	150.28	11.9	148.63
MW-819	**154.79**	6.87	147.92	5	149.79
MW-821	**154.70**	6.83	147.87	5.33	149.37
MW-A	**172.34**	12.10	160.24	11.88	160.46
TMP-6	**177.51**	9.63	167.88	10	167.51
TMP-7	**180.08**	10.90	169.18	10.6	169.48
TMP-8	**177.50**	8.49	169.01	7.82	169.68

N.M. Not Measured

Appendix C

Groundwater Withdrawal Data Tables
(GWCS and NPLA)

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
01-Jan-12	3,572	2.5	69,638	48.4	73,210	50.8	28,077,058	406,572,052	434,649,110
02-Jan-12	4,472	3.1	69,097	48.0	73,569	51.1	28,081,530	406,641,149	434,722,679
03-Jan-12	5,017	3.5	68,013	47.2	73,030	50.7	28,086,547	406,709,162	434,795,709
04-Jan-12	3,950	2.7	67,991	47.2	71,941	50.0	28,090,497	406,777,153	434,867,650
05-Jan-12	3,531	2.5	67,822	47.1	71,353	49.6	28,094,028	406,844,975	434,939,003
06-Jan-12	3,243	2.3	66,514	46.2	69,757	48.4	28,097,271	406,911,489	435,008,760
07-Jan-12	1,390	1.0	31,353	21.8	32,743	22.7	28,098,661	406,942,842	435,041,503
08-Jan-12	3,137	2.2	40,254	28.0	43,391	30.1	28,101,798	406,983,096	435,084,894
09-Jan-12	3,719	2.6	59,820	41.5	63,539	44.1	28,105,517	407,042,916	435,148,433
10-Jan-12	3,000	2.1	57,883	40.2	60,883	42.3	28,108,517	407,100,799	435,209,316
11-Jan-12	5,083	3.5	57,044	39.6	62,127	43.1	28,113,600	407,157,843	435,271,443
12-Jan-12	5,296	3.7	56,865	39.5	62,161	43.2	28,118,896	407,214,708	435,333,604
13-Jan-12	4,381	3.0	56,713	39.4	61,094	42.4	28,123,277	407,271,421	435,394,698
14-Jan-12	3,206	2.2	56,736	39.4	59,942	41.6	28,126,483	407,328,157	435,454,640
15-Jan-12	3,132	2.2	56,395	39.2	59,527	41.3	28,129,615	407,384,552	435,514,167
16-Jan-12	2,921	2.0	56,210	39.0	59,131	41.1	28,132,536	407,440,762	435,573,298
17-Jan-12	2,451	1.7	56,347	39.1	58,798	40.8	28,134,987	407,497,109	435,632,096
18-Jan-12	2,548	1.8	56,194	39.0	58,742	40.8	28,137,535	407,553,303	435,690,838
19-Jan-12	2,206	1.5	56,132	39.0	58,338	40.5	28,139,741	407,609,435	435,749,176
20-Jan-12	2,390	1.7	56,035	38.9	58,425	40.6	28,142,131	407,665,470	435,807,601
21-Jan-12	2,124	1.5	55,982	38.9	58,106	40.4	28,144,255	407,721,452	435,865,707
22-Jan-12	2,680	1.9	55,810	38.8	58,490	40.6	28,146,935	407,777,262	435,924,197
23-Jan-12	6,979	4.8	55,245	38.4	62,224	43.2	28,153,914	407,832,507	435,986,421
24-Jan-12	5,355	3.7	55,330	38.4	60,685	42.1	28,159,269	407,887,837	436,047,106
25-Jan-12	4,823	3.3	55,375	38.5	60,198	41.8	28,164,092	407,943,212	436,107,304
26-Jan-12	5,985	4.2	54,872	38.1	60,857	42.3	28,170,077	407,998,084	436,168,161
27-Jan-12	5,582	3.9	55,259	38.4	60,841	42.3	28,175,659	408,053,343	436,229,002
28-Jan-12	4,818	3.3	55,462	38.5	60,280	41.9	28,180,477	408,108,805	436,289,282
29-Jan-12	4,054	2.8	55,564	38.6	59,618	41.4	28,184,531	408,164,369	436,348,900
30-Jan-12	3,537	2.5	55,704	38.7	59,241	41.1	28,188,068	408,220,073	436,408,141
31-Jan-12	3,334	2.3	55,844	38.8	59,178	41.1	28,191,402	408,275,917	436,467,319
01-Feb-12	3,052	2.1	55,984	38.9	59,036	41.0	28,194,454	408,331,901	436,526,355
02-Feb-12	3,193	2.2	55,907	38.8	59,100	41.0	28,197,647	408,387,808	436,585,455
03-Feb-12	2,688	1.9	68,096	47.3	70,784	49.2	28,200,335	408,455,904	436,656,239
04-Feb-12	2,586	1.8	75,511	52.4	78,097	54.2	28,202,921	408,531,415	436,734,336
05-Feb-12	2,659	1.8	70,568	49.0	73,227	50.9	28,205,580	408,601,983	436,807,563

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
06-Feb-12	2,651	1.8	77,488	53.8	80,139	55.7	28,208,231	408,679,471	436,887,702
07-Feb-12	3,457	2.4	74,077	51.4	77,534	53.8	28,211,688	408,753,548	436,965,236
08-Feb-12	2,989	2.1	69,485	48.3	72,474	50.3	28,214,677	408,823,033	437,037,710
09-Feb-12	2,548	1.8	66,846	46.4	69,394	48.2	28,217,225	408,889,879	437,107,104
10-Feb-12	2,429	1.7	66,683	46.3	69,112	48.0	28,219,654	408,956,562	437,176,216
11-Feb-12	2,293	1.6	64,997	45.1	67,290	46.7	28,221,947	409,021,559	437,243,506
12-Feb-12	2,197	1.5	63,482	44.1	65,679	45.6	28,224,144	409,085,041	437,309,185
13-Feb-12	2,031	1.4	63,191	43.9	65,222	45.3	28,226,175	409,148,232	437,374,407
14-Feb-12	1,980	1.4	61,497	42.7	63,477	44.1	28,228,155	409,209,729	437,437,884
15-Feb-12	2,026	1.4	60,937	42.3	62,963	43.7	28,230,181	409,270,666	437,500,847
16-Feb-12	1,987	1.4	60,937	42.3	62,924	43.7	28,232,168	409,331,603	437,563,771
17-Feb-12	1,949	1.4	59,282	41.2	61,231	42.5	28,234,117	409,390,885	437,625,002
18-Feb-12	1,996	1.4	59,239	41.1	61,235	42.5	28,236,113	409,450,124	437,686,237
19-Feb-12	1,928	1.3	58,302	40.5	60,230	41.8	28,238,041	409,508,426	437,746,467
20-Feb-12	1,740	1.2	57,234	39.7	58,974	41.0	28,239,781	409,565,660	437,805,441
21-Feb-12	1,833	1.3	57,538	40.0	59,371	41.2	28,241,614	409,623,198	437,864,812
22-Feb-12	1,613	1.1	56,778	39.4	58,391	40.5	28,243,227	409,679,976	437,923,203
23-Feb-12	1,824	1.3	56,002	38.9	57,826	40.2	28,245,051	409,735,978	437,981,029
24-Feb-12	1,703	1.2	56,058	38.9	57,761	40.1	28,246,754	409,792,036	438,038,790
25-Feb-12	1,777	1.2	55,549	38.6	57,326	39.8	28,248,531	409,847,585	438,096,116
26-Feb-12	1,604	1.1	54,471	37.8	56,075	38.9	28,250,135	409,902,056	438,152,191
27-Feb-12	1,742	1.2	54,552	37.9	56,294	39.1	28,251,877	409,956,608	438,208,485
28-Feb-12	1,738	1.2	53,796	37.4	55,534	38.6	28,253,615	410,010,404	438,264,019
29-Feb-12	1,939	1.3	54,942	38.2	56,881	39.5	28,255,554	410,065,346	438,320,900
01-Mar-12	1,975	1.4	53,438	37.1	55,413	38.5	28,257,529	410,118,784	438,376,313
02-Mar-12	2,123	1.5	54,768	38.0	56,891	39.5	28,259,652	410,173,552	438,433,204
03-Mar-12	2,013	1.4	55,070	38.2	57,083	39.6	28,261,665	410,228,622	438,490,287
04-Mar-12	2,108	1.5	54,714	38.0	56,822	39.5	28,263,773	410,283,336	438,547,109
05-Mar-12	1,854	1.3	56,027	38.9	57,881	40.2	28,265,627	410,339,363	438,604,990
06-Mar-12	1,901	1.3	55,725	38.7	57,626	40.0	28,267,528	410,395,088	438,662,616
07-Mar-12	1,965	1.4	55,352	38.4	57,317	39.8	28,269,493	410,450,440	438,719,933
08-Mar-12	1,712	1.2	56,796	39.4	58,508	40.6	28,271,205	410,507,236	438,778,441
09-Mar-12	1,883	1.3	55,122	38.3	57,005	39.6	28,273,088	410,562,358	438,835,446
10-Mar-12	1,602	1.1	56,139	39.0	57,741	40.1	28,274,690	410,618,497	438,893,187
11-Mar-12	1,568	1.1	55,073	38.2	56,641	39.3	28,276,258	410,673,570	438,949,828
12-Mar-12	1,742	1.2	55,297	38.4	57,039	39.6	28,278,000	410,728,867	439,006,867

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
13-Mar-12	1,468	1.0	54,654	38.0	56,122	39.0	28,279,468	410,783,521	439,062,989
14-Mar-12	1,578	1.1	54,495	37.8	56,073	38.9	28,281,046	410,838,016	439,119,062
15-Mar-12	1,556	1.1	53,474	37.1	55,030	38.2	28,282,602	410,891,490	439,174,092
16-Mar-12	1,504	1.0	54,381	37.8	55,885	38.8	28,284,106	410,945,871	439,229,977
17-Mar-12	1,450	1.0	52,860	36.7	54,310	37.7	28,285,556	410,998,731	439,284,287
18-Mar-12	1,414	1.0	52,879	36.7	54,293	37.7	28,286,970	411,051,610	439,338,580
19-Mar-12	1,388	1.0	52,281	36.3	53,669	37.3	28,288,358	411,103,891	439,392,249
20-Mar-12	1,356	0.9	52,614	36.5	53,970	37.5	28,289,714	411,156,505	439,446,219
21-Mar-12	1,473	1.0	52,299	36.3	53,772	37.3	28,291,187	411,208,804	439,499,991
22-Mar-12	1,359	0.9	51,773	36.0	53,132	36.9	28,292,546	411,260,577	439,553,123
23-Mar-12	1,421	1.0	51,317	35.6	52,738	36.6	28,293,967	411,311,894	439,605,861
24-Mar-12	1,317	0.9	51,345	35.7	52,662	36.6	28,295,284	411,363,239	439,658,523
25-Mar-12	1,413	1.0	52,001	36.1	53,414	37.1	28,296,697	411,415,240	439,711,937
26-Mar-12	1,344	0.9	50,971	35.4	52,315	36.3	28,298,041	411,466,211	439,764,252
27-Mar-12	1,315	0.9	50,692	35.2	52,007	36.1	28,299,356	411,516,903	439,816,259
28-Mar-12	1,296	0.9	50,391	35.0	51,687	35.9	28,300,652	411,567,294	439,867,946
29-Mar-12	1,345	0.9	50,726	35.2	52,071	36.2	28,301,997	411,618,020	439,920,017
30-Mar-12	1,188	0.8	50,221	34.9	51,409	35.7	28,303,185	411,668,241	439,971,426
31-Mar-12	1,354	0.9	49,724	34.5	51,078	35.5	28,304,539	411,717,965	440,022,504
01-Apr-12	1,357	0.9	50,008	34.7	51,365	35.7	28,305,896	411,767,973	440,073,869
02-Apr-12	1,293	0.9	47,018	32.7	48,311	33.5	28,307,189	411,814,991	440,122,180
03-Apr-12	1,278	0.9	49,832	34.6	51,110	35.5	28,308,467	411,864,823	440,173,290
04-Apr-12	1,190	0.8	48,769	33.9	49,959	34.7	28,309,657	411,913,592	440,223,249
05-Apr-12	1,217	0.8	49,172	34.1	50,389	35.0	28,310,874	411,962,764	440,273,638
06-Apr-12	1,167	0.8	48,838	33.9	50,005	34.7	28,312,041	412,011,602	440,323,643
07-Apr-12	1,128	0.8	48,000	33.3	49,128	34.1	28,313,169	412,059,602	440,372,771
08-Apr-12	1,158	0.8	48,150	33.4	49,308	34.2	28,314,327	412,107,752	440,422,079
09-Apr-12	1,224	0.9	48,441	33.6	49,665	34.5	28,315,551	412,156,193	440,471,744
10-Apr-12	1,050	0.7	47,549	33.0	48,599	33.7	28,316,601	412,203,742	440,520,343
11-Apr-12	1,029	0.7	47,423	32.9	48,452	33.6	28,317,630	412,251,165	440,568,795
12-Apr-12	1,052	0.7	47,743	33.2	48,795	33.9	28,318,682	412,298,908	440,617,590
13-Apr-12	1,022	0.7	46,936	32.6	47,958	33.3	28,319,704	412,345,844	440,665,548
14-Apr-12	1,004	0.7	46,598	32.4	47,602	33.1	28,320,708	412,392,442	440,713,150
15-Apr-12	1,007	0.7	46,473	32.3	47,480	33.0	28,321,715	412,438,915	440,760,630
16-Apr-12	1,080	0.8	46,597	32.4	47,677	33.1	28,322,795	412,485,512	440,808,307
17-Apr-12	1,259	0.9	46,010	32.0	47,269	32.8	28,324,054	412,531,522	440,855,576

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
18-Apr-12	1,405	1.0	45,179	31.4	46,584	32.4	28,325,459	412,576,701	440,902,160
19-Apr-12	1,274	0.9	45,956	31.9	47,230	32.8	28,326,733	412,622,657	440,949,390
20-Apr-12	1,329	0.9	45,588	31.7	46,917	32.6	28,328,062	412,668,245	440,996,307
21-Apr-12	1,415	1.0	45,436	31.6	46,851	32.5	28,329,477	412,713,681	441,043,158
22-Apr-12	1,520	1.1	47,162	32.8	48,682	33.8	28,330,997	412,760,843	441,091,840
23-Apr-12	1,452	1.0	47,533	33.0	48,985	34.0	28,332,449	412,808,376	441,140,825
24-Apr-12	1,367	0.9	48,307	33.5	49,674	34.5	28,333,816	412,856,683	441,190,499
25-Apr-12	1,313	0.9	47,227	32.8	48,540	33.7	28,335,129	412,903,910	441,239,039
26-Apr-12	1,259	0.9	47,414	32.9	48,673	33.8	28,336,388	412,951,324	441,287,712
27-Apr-12	1,197	0.8	47,747	33.2	48,944	34.0	28,337,585	412,999,071	441,336,656
28-Apr-12	1,159	0.8	46,540	32.3	47,699	33.1	28,338,744	413,045,611	441,384,355
29-Apr-12	1,128	0.8	47,285	32.8	48,413	33.6	28,339,872	413,092,896	441,432,768
30-Apr-12	1,161	0.8	45,813	31.8	46,974	32.6	28,341,033	413,138,709	441,479,742
01-May-12	1,078	0.7	46,522	32.3	47,600	33.1	28,342,111	413,185,231	441,527,342
02-May-12	1,059	0.7	46,361	32.2	47,420	32.9	28,343,170	413,231,592	441,574,762
03-May-12	1,059	0.7	45,589	31.7	46,648	32.4	28,344,229	413,277,181	441,621,410
04-May-12	1,092	0.8	45,922	31.9	47,014	32.6	28,345,321	413,323,103	441,668,424
05-May-12	1,013	0.7	45,165	31.4	46,178	32.1	28,346,334	413,368,268	441,714,602
06-May-12	1,022	0.7	45,495	31.6	46,517	32.3	28,347,356	413,413,763	441,761,119
07-May-12	1,060	0.7	45,764	31.8	46,824	32.5	28,348,416	413,459,527	441,807,943
08-May-12	1,136	0.8	45,400	31.5	46,536	32.3	28,349,552	413,504,927	441,854,479
09-May-12	1,070	0.7	46,480	32.3	47,550	33.0	28,350,622	413,551,407	441,902,029
10-May-12	1,053	0.7	46,475	32.3	47,528	33.0	28,351,675	413,597,882	441,949,557
11-May-12	1,060	0.7	45,553	31.6	46,613	32.4	28,352,735	413,643,435	441,996,170
12-May-12	937	0.7	45,691	31.7	46,628	32.4	28,353,672	413,689,126	442,042,798
13-May-12	793	0.6	45,822	31.8	46,615	32.4	28,354,465	413,734,948	442,089,413
14-May-12	956	0.7	46,288	32.1	47,244	32.8	28,355,421	413,781,236	442,136,657
15-May-12	919	0.6	47,262	32.8	48,181	33.5	28,356,340	413,828,498	442,184,838
16-May-12	1,014	0.7	48,043	33.4	49,057	34.1	28,357,354	413,876,541	442,233,895
17-May-12	871	0.6	47,649	33.1	48,520	33.7	28,358,225	413,924,190	442,282,415
18-May-12	2,435	1.7	47,495	33.0	49,930	34.7	28,360,660	413,971,685	442,332,345
19-May-12	1,158	0.8	47,892	33.3	49,050	34.1	28,361,818	414,019,577	442,381,395
20-May-12	1,077	0.7	47,492	33.0	48,569	33.7	28,362,895	414,067,069	442,429,964
21-May-12	1,200	0.8	49,004	34.0	50,204	34.9	28,364,095	414,116,073	442,480,168
22-May-12	1,330	0.9	49,213	34.2	50,543	35.1	28,365,425	414,165,286	442,530,711
23-May-12	1,138	0.8	50,224	34.9	51,362	35.7	28,366,563	414,215,510	442,582,073

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
24-May-12	1,131	0.8	50,335	35.0	51,466	35.7	28,367,694	414,265,845	442,633,539
25-May-12	1,332	0.9	50,251	34.9	51,583	35.8	28,369,026	414,316,096	442,685,122
26-May-12	1,128	0.8	50,067	34.8	51,195	35.6	28,370,154	414,366,163	442,736,317
27-May-12	898	0.6	49,942	34.7	50,840	35.3	28,371,052	414,416,105	442,787,157
28-May-12	1,150	0.8	49,811	34.6	50,961	35.4	28,372,202	414,465,916	442,838,118
29-May-12	1,154	0.8	49,916	34.7	51,070	35.5	28,373,356	414,515,832	442,889,188
30-May-12	1,108	0.8	50,386	35.0	51,494	35.8	28,374,464	414,566,218	442,940,682
31-May-12	1,080	0.8	50,336	35.0	51,416	35.7	28,375,544	414,616,554	442,992,098
01-Jun-12	994	0.7	50,759	35.2	51,753	35.9	28,376,538	414,667,313	443,043,851
02-Jun-12	978	0.7	51,017	35.4	51,995	36.1	28,377,516	414,718,330	443,095,846
03-Jun-12	1,056	0.7	50,373	35.0	51,429	35.7	28,378,572	414,768,703	443,147,275
04-Jun-12	926	0.6	50,550	35.1	51,476	35.7	28,379,498	414,819,253	443,198,751
05-Jun-12	1,000	0.7	51,355	35.7	52,355	36.4	28,380,498	414,870,608	443,251,106
06-Jun-12	1,009	0.7	51,145	35.5	52,154	36.2	28,381,507	414,921,753	443,303,260
07-Jun-12	1,013	0.7	51,547	35.8	52,560	36.5	28,382,520	414,973,300	443,355,820
08-Jun-12	1,031	0.7	51,501	35.8	52,532	36.5	28,383,551	415,024,801	443,408,352
09-Jun-12	1,004	0.7	52,414	36.4	53,418	37.1	28,384,555	415,077,215	443,461,770
10-Jun-12	1,044	0.7	51,701	35.9	52,745	36.6	28,385,599	415,128,916	443,514,515
11-Jun-12	1,211	0.8	51,391	35.7	52,602	36.5	28,386,810	415,180,307	443,567,117
12-Jun-12	1,174	0.8	50,702	35.2	51,876	36.0	28,387,984	415,231,009	443,618,993
13-Jun-12	1,080	0.8	50,336	35.0	51,416	35.7	28,389,064	415,281,345	443,670,409
14-Jun-12	1,108	0.8	50,386	35.0	51,494	35.8	28,390,172	415,331,731	443,721,903
15-Jun-12	119	0.1	6,850	4.8	6,969	4.8	28,390,291	415,338,581	443,728,872
16-Jun-12	616	0.4	50,600	35.1	51,216	35.6	28,390,907	415,389,181	443,780,088
17-Jun-12	761	0.5	52,195	36.2	52,956	36.8	28,391,668	415,441,376	443,833,044
18-Jun-12	868	0.6	52,782	36.7	53,650	37.3	28,392,536	415,494,158	443,886,694
19-Jun-12	963	0.7	52,376	36.4	53,339	37.0	28,393,499	415,546,534	443,940,033
20-Jun-12	734	0.5	52,549	36.5	53,283	37.0	28,394,233	415,599,083	443,993,316
21-Jun-12	994	0.7	51,861	36.0	52,855	36.7	28,395,227	415,650,944	444,046,171
22-Jun-12	1,779	1.2	50,850	35.3	52,629	36.5	28,397,006	415,701,794	444,098,800
23-Jun-12	862	0.6	50,072	34.8	50,934	35.4	28,397,868	415,751,866	444,149,734
24-Jun-12	893	0.6	50,517	35.1	51,410	35.7	28,398,761	415,802,383	444,201,144
25-Jun-12	895	0.6	50,741	35.2	51,636	35.9	28,399,656	415,853,124	444,252,780
26-Jun-12	894	0.6	51,269	35.6	52,163	36.2	28,400,550	415,904,393	444,304,943
27-Jun-12	925	0.6	51,740	35.9	52,665	36.6	28,401,475	415,956,133	444,357,608
28-Jun-12	948	0.7	51,371	35.7	52,319	36.3	28,402,423	416,007,504	444,409,927

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
29-Jun-12	956	0.7	51,727	35.9	52,683	36.6	28,403,379	416,059,231	444,462,610
30-Jun-12	1,138	0.8	51,648	35.9	52,786	36.7	28,404,517	416,110,879	444,515,396
01-Jul-12	698	0.5	45,880	31.9	46,577	32.3	28,405,215	416,156,759	444,561,973
02-Jul-12	501	0.3	47,822	33.2	48,323	33.6	28,405,716	416,204,580	444,610,296
03-Jul-12	480	0.3	49,758	34.6	50,239	34.9	28,406,196	416,254,339	444,660,535
04-Jul-12	462	0.3	48,980	34.0	49,442	34.3	28,406,658	416,303,318	444,709,976
05-Jul-12	689	0.5	48,657	33.8	49,346	34.3	28,407,347	416,351,976	444,759,323
06-Jul-12	463	0.3	48,317	33.6	48,780	33.9	28,407,810	416,400,293	444,808,102
07-Jul-12	653	0.5	48,004	33.3	48,657	33.8	28,408,463	416,448,296	444,856,759
08-Jul-12	440	0.3	47,417	32.9	47,857	33.2	28,408,903	416,495,713	444,904,616
09-Jul-12	591	0.4	47,672	33.1	48,263	33.5	28,409,494	416,543,385	444,952,879
10-Jul-12	584	0.4	46,879	32.6	47,463	33.0	28,410,078	416,590,264	445,000,342
11-Jul-12	529	0.4	46,430	32.2	46,959	32.6	28,410,607	416,636,694	445,047,301
12-Jul-12	518	0.4	46,186	32.1	46,703	32.4	28,411,124	416,682,880	445,094,004
13-Jul-12	528	0.4	46,088	32.0	46,616	32.4	28,411,652	416,728,968	445,140,620
14-Jul-12	547	0.4	45,643	31.7	46,190	32.1	28,412,200	416,774,611	445,186,810
15-Jul-12	520	0.4	45,470	31.6	45,990	31.9	28,412,720	416,820,080	445,232,800
16-Jul-12	408	0.3	45,340	31.5	45,748	31.8	28,413,128	416,865,420	445,278,548
17-Jul-12	595	0.4	44,926	31.2	45,522	31.6	28,413,723	416,910,347	445,324,070
18-Jul-12	433	0.3	44,200	30.7	44,633	31.0	28,414,156	416,954,547	445,368,703
19-Jul-12	411	0.3	44,755	31.1	45,167	31.4	28,414,567	416,999,302	445,413,869
20-Jul-12	596	0.4	44,490	30.9	45,086	31.3	28,415,164	417,043,792	445,458,956
21-Jul-12	606	0.4	44,874	31.2	45,480	31.6	28,415,770	417,088,665	445,504,435
22-Jul-12	519	0.4	44,530	30.9	45,049	31.3	28,416,289	417,133,196	445,549,485
23-Jul-12	478	0.3	44,481	30.9	44,959	31.2	28,416,767	417,177,677	445,594,444
24-Jul-12	460	0.3	44,456	30.9	44,916	31.2	28,417,228	417,222,132	445,639,360
25-Jul-12	662	0.5	43,872	30.5	44,534	30.9	28,417,890	417,266,004	445,683,894
26-Jul-12	445	0.3	43,969	30.5	44,415	30.8	28,418,335	417,309,973	445,728,309
27-Jul-12	439	0.3	43,687	30.3	44,127	30.6	28,418,774	417,353,661	445,772,435
28-Jul-12	1,687	1.2	43,811	30.4	45,498	31.6	28,420,461	417,397,472	445,817,933
29-Jul-12	566	0.4	46,714	32.4	47,280	32.8	28,421,027	417,444,186	445,865,213
30-Jul-12	550	0.4	47,850	33.2	48,400	33.6	28,421,577	417,492,036	445,913,614
31-Jul-12	538	0.4	47,493	33.0	48,031	33.4	28,422,116	417,539,529	445,961,645
01-Aug-12	527	0.4	47,015	32.6	47,542	33.0	28,422,643	417,586,544	446,009,187
02-Aug-12	522	0.4	47,178	32.8	47,700	33.1	28,423,165	417,633,722	446,056,887
03-Aug-12	518	0.4	46,247	32.1	46,765	32.5	28,423,683	417,679,969	446,103,652

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
04-Aug-12	510	0.4	45,657	31.7	46,167	32.1	28,424,193	417,725,626	446,149,819
05-Aug-12	518	0.4	45,337	31.5	45,855	31.8	28,424,711	417,770,963	446,195,674
06-Aug-12	509	0.4	45,156	31.4	45,665	31.7	28,425,220	417,816,119	446,241,339
07-Aug-12	508	0.4	44,937	31.2	45,445	31.6	28,425,728	417,861,056	446,286,784
08-Aug-12	524	0.4	44,429	30.9	44,953	31.2	28,426,252	417,905,485	446,331,737
09-Aug-12	511	0.4	43,858	30.5	44,369	30.8	28,426,763	417,949,343	446,376,106
10-Aug-12	515	0.4	44,041	30.6	44,556	30.9	28,427,278	417,993,384	446,420,662
11-Aug-12	501	0.3	45,252	31.4	45,753	31.8	28,427,779	418,038,636	446,466,415
12-Aug-12	484	0.3	45,105	31.3	45,589	31.7	28,428,263	418,083,741	446,512,004
13-Aug-12	489	0.3	44,984	31.2	45,473	31.6	28,428,752	418,128,725	446,557,477
14-Aug-12	492	0.3	45,136	31.3	45,628	31.7	28,429,244	418,173,861	446,603,105
15-Aug-12	506	0.4	44,923	31.2	45,429	31.5	28,429,750	418,218,784	446,648,534
16-Aug-12	492	0.3	44,228	30.7	44,720	31.1	28,430,242	418,263,012	446,693,254
17-Aug-12	482	0.3	43,724	30.4	44,206	30.7	28,430,724	418,306,736	446,737,460
18-Aug-12	492	0.3	43,815	30.4	44,307	30.8	28,431,216	418,350,551	446,781,767
19-Aug-12	476	0.3	43,478	30.2	43,954	30.5	28,431,692	418,394,029	446,825,721
20-Aug-12	474	0.3	43,163	30.0	43,637	30.3	28,432,166	418,437,192	446,869,358
21-Aug-12	467	0.3	42,916	29.8	43,383	30.1	28,432,633	418,480,108	446,912,741
22-Aug-12	475	0.3	42,580	29.6	43,055	29.9	28,433,108	418,522,688	446,955,796
23-Aug-12	470	0.3	42,006	29.2	42,476	29.5	28,433,578	418,564,694	446,998,272
24-Aug-12	454	0.3	42,115	29.2	42,569	29.6	28,434,032	418,606,809	447,040,841
25-Aug-12	530	0.4	41,893	29.1	42,423	29.5	28,434,562	418,648,702	447,083,264
26-Aug-12	346	0.2	41,232	28.6	41,578	28.9	28,434,908	418,689,934	447,124,842
27-Aug-12	565	0.4	41,495	28.8	42,060	29.2	28,435,473	418,731,429	447,166,902
28-Aug-12	291	0.2	38,655	26.8	38,946	27.0	28,435,764	418,770,084	447,205,848
29-Aug-12	475	0.3	39,381	27.3	39,856	27.7	28,436,239	418,809,465	447,245,704
30-Aug-12	478	0.3	41,005	28.5	41,483	28.8	28,436,717	418,850,470	447,287,187
31-Aug-12	479	0.3	38,706	26.9	39,185	27.2	28,437,196	418,889,176	447,326,372
01-Sep-12	264	0.2	40,205	27.9	40,469	28.1	28,437,460	418,929,381	447,366,841
02-Sep-12	631	0.4	38,637	26.8	39,268	27.3	28,438,091	418,968,018	447,406,109
03-Sep-12	365	0.3	40,343	28.0	40,708	28.3	28,438,456	419,008,361	447,446,817
04-Sep-12	481	0.3	38,972	27.1	39,453	27.4	28,438,937	419,047,333	447,486,270
05-Sep-12	287	0.2	40,184	27.9	40,471	28.1	28,439,224	419,087,517	447,526,741
06-Sep-12	648	0.5	39,319	27.3	39,967	27.8	28,439,872	419,126,836	447,566,708
07-Sep-12	458	0.3	39,413	27.4	39,871	27.7	28,440,330	419,166,249	447,606,579
08-Sep-12	1,005	0.7	39,826	27.7	40,831	28.4	28,441,335	419,206,075	447,647,410

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
09-Sep-12	501	0.3	40,508	28.1	41,009	28.5	28,441,836	419,246,583	447,688,419
10-Sep-12	518	0.4	42,579	29.6	43,097	29.9	28,442,354	419,289,162	447,731,516
11-Sep-12	281	0.2	41,816	29.0	42,097	29.2	28,442,635	419,330,978	447,773,613
12-Sep-12	516	0.4	41,929	29.1	42,445	29.5	28,443,151	419,372,907	447,816,058
13-Sep-12	515	0.4	40,967	28.4	41,482	28.8	28,443,666	419,413,874	447,857,540
14-Sep-12	283	0.2	40,251	28.0	40,534	28.1	28,443,949	419,454,125	447,898,074
15-Sep-12	508	0.4	40,538	28.2	41,046	28.5	28,444,457	419,494,663	447,939,120
16-Sep-12	508	0.4	40,606	28.2	41,114	28.6	28,444,965	419,535,269	447,980,234
17-Sep-12	271	0.2	39,865	27.7	40,136	27.9	28,445,236	419,575,134	448,020,370
18-Sep-12	542	0.4	39,886	27.7	40,428	28.1	28,445,778	419,615,020	448,060,798
19-Sep-12	706	0.5	42,680	29.6	43,386	30.1	28,446,484	419,657,700	448,104,184
20-Sep-12	260	0.2	29,976	20.8	30,236	21.0	28,446,744	419,687,676	448,134,420
21-Sep-12	750	0.5	39,510	27.4	40,260	28.0	28,447,494	419,727,186	448,174,680
22-Sep-12	1,045	0.7	54,244	37.7	55,289	38.4	28,448,539	419,781,430	448,229,969
23-Sep-12	526	0.4	47,671	33.1	48,197	33.5	28,449,065	419,829,101	448,278,166
24-Sep-12	546	0.4	47,413	32.9	47,959	33.3	28,449,611	419,876,514	448,326,125
25-Sep-12	531	0.4	47,418	32.9	47,949	33.3	28,450,142	419,923,932	448,374,074
26-Sep-12	529	0.4	47,229	32.8	47,758	33.2	28,450,671	419,971,161	448,421,832
27-Sep-12	334	0.2	47,060	32.7	47,394	32.9	28,451,005	420,018,221	448,469,226
28-Sep-12	506	0.4	47,108	32.7	47,614	33.1	28,451,511	420,065,329	448,516,840
29-Sep-12	529	0.4	48,751	33.9	49,280	34.2	28,452,040	420,114,080	448,566,120
30-Sep-12	531	0.4	48,971	34.0	49,502	34.4	28,452,571	420,163,051	448,615,622
01-Oct-12	531	0.4	49,451	34.3	49,982	34.7	28,453,102	420,212,502	448,665,604
02-Oct-12	529	0.4	50,235	34.9	50,764	35.3	28,453,631	420,262,737	448,716,368
03-Oct-12	515	0.4	36,378	25.3	36,893	25.6	28,454,146	420,299,115	448,753,261
04-Oct-12	530	0.4	43,912	30.5	44,442	30.9	28,454,676	420,343,027	448,797,703
05-Oct-12	264	0.2	24,831	17.2	25,095	17.4	28,454,940	420,367,858	448,822,798
06-Oct-12	715	0.5	56,175	39.0	56,890	39.5	28,455,655	420,424,033	448,879,688
07-Oct-12	520	0.4	56,872	39.5	57,392	39.9	28,456,175	420,480,905	448,937,080
08-Oct-12	516	0.4	55,542	38.6	56,058	38.9	28,456,691	420,536,447	448,993,138
09-Oct-12	524	0.4	54,696	38.0	55,220	38.3	28,457,215	420,591,143	449,048,358
10-Oct-12	524	0.4	51,910	36.0	52,434	36.4	28,457,739	420,643,053	449,100,792
11-Oct-12	491	0.3	50,975	35.4	51,466	35.7	28,458,230	420,694,028	449,152,258
12-Oct-12	295	0.2	51,365	35.7	51,660	35.9	28,458,525	420,745,393	449,203,918
13-Oct-12	580	0.4	15,018	10.4	15,598	10.8	28,459,105	420,760,411	449,219,516
14-Oct-12	501	0.3	48,711	33.8	49,212	34.2	28,459,606	420,809,122	449,268,728

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
15-Oct-12	498	0.3	48,324	33.6	48,822	33.9	28,460,104	420,857,446	449,317,550
16-Oct-12	444	0.3	48,653	33.8	49,097	34.1	28,460,548	420,906,099	449,366,647
17-Oct-12	276	0.2	53,209	37.0	53,485	37.1	28,460,824	420,959,308	449,420,132
18-Oct-12	488	0.3	41,829	29.0	42,317	29.4	28,461,312	421,001,137	449,462,449
19-Oct-12	1,912	1.3	46,795	32.5	48,707	33.8	28,463,224	421,047,932	449,511,156
20-Oct-12	589	0.4	47,419	32.9	48,008	33.3	28,463,813	421,095,351	449,559,164
21-Oct-12	511	0.4	47,948	33.3	48,459	33.7	28,464,324	421,143,299	449,607,623
22-Oct-12	280	0.2	48,187	33.5	48,467	33.7	28,464,604	421,191,486	449,656,090
23-Oct-12	517	0.4	48,292	33.5	48,809	33.9	28,465,121	421,239,778	449,704,899
24-Oct-12	512	0.4	48,399	33.6	48,911	34.0	28,465,633	421,288,177	449,753,810
25-Oct-12	510	0.4	48,395	33.6	48,905	34.0	28,466,143	421,336,572	449,802,715
26-Oct-12	519	0.4	48,405	33.6	48,924	34.0	28,466,662	421,384,977	449,851,639
27-Oct-12	283	0.2	48,489	33.7	48,772	33.9	28,466,945	421,433,466	449,900,411
28-Oct-12	516	0.4	48,506	33.7	49,022	34.0	28,467,461	421,481,972	449,949,433
29-Oct-12	493	0.3	43,475	30.2	43,968	30.5	28,467,954	421,525,447	449,993,401
30-Oct-12	532	0.4	64,809	45.0	65,341	45.4	28,468,486	421,590,256	450,058,742
31-Oct-12	540	0.4	56,996	39.6	57,536	40.0	28,469,026	421,647,252	450,116,278
01-Nov-12	542	0.4	55,909	38.8	56,451	39.2	28,469,568	421,703,161	450,172,729
02-Nov-12	286	0.2	55,816	38.8	56,102	39.0	28,469,854	421,758,977	450,228,831
03-Nov-12	512	0.4	55,991	38.9	56,503	39.2	28,470,366	421,814,968	450,285,334
04-Nov-12	510	0.4	55,655	38.6	56,165	39.0	28,470,876	421,870,623	450,341,499
05-Nov-12	286	0.2	55,195	38.3	55,481	38.5	28,471,162	421,925,818	450,396,980
06-Nov-12	519	0.4	54,961	38.2	55,480	38.5	28,471,681	421,980,779	450,452,460
07-Nov-12	525	0.4	54,794	38.1	55,319	38.4	28,472,206	422,035,573	450,507,779
08-Nov-12	267	0.2	54,634	37.9	54,901	38.1	28,472,473	422,090,207	450,562,680
09-Nov-12	509	0.4	54,342	37.7	54,851	38.1	28,472,982	422,144,549	450,617,531
10-Nov-12	520	0.4	53,841	37.4	54,361	37.8	28,473,502	422,198,390	450,671,892
11-Nov-12	272	0.2	52,369	36.4	52,641	36.6	28,473,774	422,250,759	450,724,533
12-Nov-12	515	0.4	51,925	36.1	52,440	36.4	28,474,289	422,302,684	450,776,973
13-Nov-12	505	0.4	51,569	35.8	52,074	36.2	28,474,794	422,354,253	450,829,047
14-Nov-12	490	0.3	51,258	35.6	51,748	35.9	28,475,284	422,405,511	450,880,795
15-Nov-12	251	0.2	50,935	35.4	51,186	35.5	28,475,535	422,456,446	450,931,981
16-Nov-12	493	0.3	50,603	35.1	51,096	35.5	28,476,028	422,507,049	450,983,077
17-Nov-12	484	0.3	49,739	34.5	50,223	34.9	28,476,512	422,556,788	451,033,300
18-Nov-12	468	0.3	49,607	34.4	50,075	34.8	28,476,980	422,606,395	451,083,375
19-Nov-12	243	0.2	49,611	34.5	49,854	34.6	28,477,223	422,656,006	451,133,229

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
20-Nov-12	471	0.3	48,365	33.6	48,836	33.9	28,477,694	422,704,371	451,182,065
21-Nov-12	465	0.3	48,759	33.9	49,224	34.2	28,478,159	422,753,130	451,231,289
22-Nov-12	253	0.2	47,500	33.0	47,753	33.2	28,478,412	422,800,630	451,279,042
23-Nov-12	471	0.3	47,878	33.2	48,349	33.6	28,478,883	422,848,508	451,327,391
24-Nov-12	249	0.2	46,771	32.5	47,020	32.7	28,479,132	422,895,279	451,374,411
25-Nov-12	466	0.3	47,076	32.7	47,542	33.0	28,479,598	422,942,355	451,421,953
26-Nov-12	483	0.3	46,167	32.1	46,650	32.4	28,480,081	422,988,522	451,468,603
27-Nov-12	264	0.2	45,431	31.5	45,695	31.7	28,480,345	423,033,953	451,514,298
28-Nov-12	498	0.3	46,280	32.1	46,778	32.5	28,480,843	423,080,233	451,561,076
29-Nov-12	500	0.3	45,361	31.5	45,861	31.8	28,481,343	423,125,594	451,606,937
30-Nov-12	235	0.2	44,835	31.1	45,070	31.3	28,481,578	423,170,429	451,652,007
01-Dec-12	461	0.3	44,603	31.0	45,064	31.3	28,482,039	423,215,032	451,697,071
02-Dec-12	479	0.3	43,652	30.3	44,131	30.6	28,482,518	423,258,684	451,741,202
03-Dec-12	283	0.2	43,478	30.2	43,761	30.4	28,482,801	423,302,162	451,784,963
04-Dec-12	348	0.2	43,333	30.1	43,681	30.3	28,483,149	423,345,495	451,828,644
05-Dec-12	460	0.3	43,232	30.0	43,692	30.3	28,483,609	423,388,727	451,872,336
06-Dec-12	459	0.3	43,315	30.1	43,774	30.4	28,484,068	423,432,042	451,916,110
07-Dec-12	453	0.3	42,615	29.6	43,068	29.9	28,484,521	423,474,657	451,959,178
08-Dec-12	467	0.3	41,780	29.0	42,247	29.3	28,484,988	423,516,437	452,001,425
09-Dec-12	465	0.3	41,301	28.7	41,766	29.0	28,485,453	423,557,738	452,043,191
10-Dec-12	356	0.2	36,400	25.3	36,756	25.5	28,485,809	423,594,138	452,079,947
11-Dec-12	470	0.3	45,515	31.6	45,985	31.9	28,486,279	423,639,653	452,125,932
12-Dec-12	457	0.3	41,283	28.7	41,740	29.0	28,486,736	423,680,936	452,167,672
13-Dec-12	476	0.3	41,090	28.5	41,566	28.9	28,487,212	423,722,026	452,209,238
14-Dec-12	444	0.3	40,464	28.1	40,908	28.4	28,487,656	423,762,490	452,250,146
15-Dec-12	460	0.3	39,891	27.7	40,351	28.0	28,488,116	423,802,381	452,290,497
16-Dec-12	485	0.3	39,466	27.4	39,951	27.7	28,488,601	423,841,847	452,330,448
17-Dec-12	503	0.3	39,660	27.5	40,163	27.9	28,489,104	423,881,507	452,370,611
18-Dec-12	439	0.3	39,696	27.6	40,135	27.9	28,489,543	423,921,203	452,410,746
19-Dec-12	424	0.3	42,767	29.7	43,191	30.0	28,489,967	423,963,970	452,453,937
20-Dec-12	612	0.4	41,688	29.0	42,300	29.4	28,490,579	424,005,658	452,496,237
21-Dec-12	2,415	1.7	43,624	30.3	46,039	32.0	28,492,994	424,049,282	452,542,276
22-Dec-12	668	0.5	49,828	34.6	50,496	35.1	28,493,662	424,099,110	452,592,772
23-Dec-12	324	0.2	50,849	35.3	51,173	35.5	28,493,986	424,149,959	452,643,945
24-Dec-12	907	0.6	52,249	36.3	53,156	36.9	28,494,893	424,202,208	452,697,101
25-Dec-12	496	0.3	52,393	36.4	52,889	36.7	28,495,389	424,254,601	452,749,990

Former IBM Kingston Site (TechCity Facility)
Groundwater Collection System and North Parking Lot Area Extraction Data
Last Updated: *March 6, 2013*

Date	NPLA PS1 & PS2 Daily Flow (gal)	Average Pumping Rate (NPLA) (gpm)	Total GWCS Daily Flow (gal)	Average Pumping Rate (GWCS) (gpm)	Average Daily Flow Treatment System (gal)	Average Pumping Rate Treatment Sys (gpm)	Cumulative Gallons Pumped (NPLA only)	Cumulative Gallons Pumped (GWCS only)	Cumulative Gallons Pumped (Overall)
26-Dec-12	728	0.5	51,918	36.1	52,646	36.6	28,496,117	424,306,519	452,802,636
27-Dec-12	503	0.3	52,203	36.3	52,706	36.6	28,496,620	424,358,722	452,855,342
28-Dec-12	540	0.4	52,729	36.6	53,269	37.0	28,497,160	424,411,451	452,908,611
29-Dec-12	729	0.5	51,803	36.0	52,532	36.5	28,497,889	424,463,254	452,961,143
30-Dec-12	513	0.4	52,706	36.6	53,219	37.0	28,498,402	424,515,960	453,014,362
31-Dec-12	753	0.5	52,496	36.5	53,249	37.0	28,499,155	424,568,456	453,067,611

Appendix D

Groundwater Extraction and Treatment System Data Report including Flux Calculations

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		01/05/12	01/12/12	02/02/12	02/09/12	03/01/12	03/08/12
LABORATORY SAMPLE I.D.		420-51188-3	420-51408-2	420-52002-3	420-52212-2	420-52728-3	420-52971-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS							
PH	pH	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TOTAL DISSOLVED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
TOTAL SUSPENDED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	48	71	71	42	67	55
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	15	20	18	12	18	15
1,1-DICHLOROETHYLENE	ug/l	10	14	14	8.7	12	14
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	1.1	ND@1	ND@1	1.1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	36	47	44	27	48	41
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		01/05/12	01/12/12	02/02/12	02/09/12	03/01/12	03/08/12
LABORATORY SAMPLE I.D.		420-51188-3	420-51408-2	420-52002-3	420-52212-2	420-52728-3	420-52971-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	1.7	2.5	2.1	1.2	1.8	1.5
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	74	99	94	58	110D	76D
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/05/12	04/12/12	05/03/12	05/10/12	06/07/12	06/14/12
LABORATORY SAMPLE I.D.		420-53819-3	420-54015-2	420-54595-3	420-54837-2	420-55750-3	420-56027-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS							
PH	pH	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TOTAL DISSOLVED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
TOTAL SUSPENDED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	49	70	70D	74D	79	60
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	14	19	23	22	21	18
1,1-DICHLOROETHYLENE	ug/l	10	13	19	16	15	12
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	1.0	1.1	1.2	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	31	49	73	71	54	39
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		04/05/12	04/12/12	05/03/12	05/10/12	06/07/12	06/14/12
LABORATORY SAMPLE I.D.		420-53819-3	420-54015-2	420-54595-3	420-54837-2	420-55750-3	420-56027-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	1.2	2.0	3.1	2.9	2.2	1.4
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	65	95	110D	120D	130D	81
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		07/05/12	07/12/12	08/02/12	08/09/12	09/06/12	09/13/12
LABORATORY SAMPLE I.D.		420-56731-3	420-57004-2	420-57676-3	420-57928-2	420-58756-3	420-59020-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS							
PH	pH	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TOTAL DISSOLVED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
TOTAL SUSPENDED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	71	79	60	81	72	63
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	22	22	20	22	20	19
1,1-DICHLOROETHYLENE	ug/l	13	16	13	15	13	13
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	1.3	1.1	ND@1	1.3	1.3	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	55	56	45	54	51	42
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		07/05/12	07/12/12	08/02/12	08/09/12	09/06/12	09/13/12
LABORATORY SAMPLE I.D.		420-56731-3	420-57004-2	420-57676-3	420-57928-2	420-58756-3	420-59020-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	2.3	2.6	ND@1	2.1	2.1	1.3
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	130D	140D	91D	120D	110D	86
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		10/04/12	10/11/12	11/01/12	11/08/12	12/06/12	12/13/12
LABORATORY SAMPLE I.D.		420-59842-3	420-60089-2	420-60653-3	420-60821-2	420-61648-3	420-61933-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS							
PH	pH	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TOTAL DISSOLVED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
TOTAL SUSPENDED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	88	56	68D	85	70	56
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	1.2	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	24	17	24	23	19	17
1,1-DICHLOROETHYLENE	ug/l	16	11	18	16	13	11
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	1.3	ND@1	1.2	1.3	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	83	41	69D	71	56	41
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS	GWCS UP AS
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		10/04/12	10/11/12	11/01/12	11/08/12	12/06/12	12/13/12
LABORATORY SAMPLE I.D.		420-59842-3	420-60089-2	420-60653-3	420-60821-2	420-61648-3	420-61933-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	3.0	1.5	3.1	2.7	2.1	1.7
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	120D	82	120D	180D	120D	78
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		01/05/12	02/02/12	03/01/12	04/05/12	05/03/12	06/07/12
LABORATORY SAMPLE I.D.		420-51188-2	420-52002-2	420-52728-2	420-53819-2	420-54595-2	420-55750-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS							
PH	pH	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TOTAL DISSOLVED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
TOTAL SUSPENDED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	27	14	2.7	6.2	69D	37
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	3.9	3.0	ND@1	2.2	32	15
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	6.8	2.2
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	14	9.6	3.5	7.8	120D	54
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		01/05/12	02/02/12	03/01/12	04/05/12	05/03/12	06/07/12
LABORATORY SAMPLE I.D.		420-51188-2	420-52002-2	420-52728-2	420-53819-2	420-54595-2	420-55750-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	1.7	1.5	1.3	1.9	2.4	1.2
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	14	12	4.9	9.5	94D	45
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	1.5	1.2
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		07/05/12	08/02/12	09/06/12	10/04/12	11/01/12	12/06/12
LABORATORY SAMPLE I.D.		420-56731-2	420-57676-2	420-58756-2	420-59842-2	420-60653-2	420-61648-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS							
PH	pH	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TOTAL DISSOLVED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
TOTAL SUSPENDED SOLIDS	mg/l	NA	NA	NA	NA	NA	NA
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	62	26	16	13	15	36
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	31	13	9.2	11	9.9	23
1,1-DICHLOROETHYLENE	ug/l	3.7	2.0	ND@1	1.5	1.6	3.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	1.1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	96	43	25	41	36	81
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL
SAMPLE DESCRIPTION		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMPLE DATE		07/05/12	08/02/12	09/06/12	10/04/12	11/01/12	12/06/12
LABORATORY SAMPLE I.D.		420-56731-2	420-57676-2	420-58756-2	420-59842-2	420-60653-2	420-61648-2
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	1.6	ND@1	ND@1	ND@1	ND@1	1.0
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	77	40	23	27	26	55
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	1.3	1.8	1.4	1.8	1.7	ND@1
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		01/05/12	01/05/12	01/12/12	02/02/12	02/09/12	03/01/12
LABORATORY SAMPLE I.D.		420-51188-1	420-51190-1	420-51408-1	420-52002-1	420-52212-1	420-52728-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,4-DICHLOROBENZENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
INDICATOR PARAMETERS							
PH	pH	7.41	NA	7.33	7.87	7.61	7.27
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TOTAL DISSOLVED SOLIDS	mg/l	280	NA	NA	240	NA	240
TOTAL SUSPENDED SOLIDS	mg/l	ND@2.0	NA	NA	ND@1.0	NA	3.0
METALS							
LEAD, TOTAL	mg/l	NA	ND@0.0050	NA	NA	NA	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,1,1-TRICHLOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,1,2-TRICHLOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,1-DICHLOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,1-DICHLOROETHYLENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,2-DICHLOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
4-CHLOROTOLUENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
ACROLEIN	ug/l	ND@5	NA	ND@5	ND@5	ND@5	NA
ACRYLONITRILE	ug/l	ND@5	NA	ND@5	ND@5	ND@5	NA
BENZENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
BENZYL CHLORIDE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
BROMOBENZENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
BROMODICHLOROMETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
BROMOFORM	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		01/05/12	01/05/12	01/12/12	02/02/12	02/09/12	03/01/12
LABORATORY SAMPLE I.D.		420-51188-1	420-51190-1	420-51408-1	420-52002-1	420-52212-1	420-52728-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
CARBON TETRACHLORIDE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
CHLOROBENZENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
CHLORODIBROMOMETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
CHLOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
CHLOROFORM	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
CHLOROMETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
DIBROMOMETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
ETHYLBENZENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
METHYLENE CHLORIDE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
TETRACHLOROETHYLENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
TOLUENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
TRICHLOROETHYLENE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
TRICHLOROFLUOROMETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
VINYL CHLORIDE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA
XYLENE, TOTAL	ug/l	ND@1	NA	ND@1	ND@1	ND@1	NA

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		03/08/12	03/22/12	04/05/12	04/05/12	04/12/12	05/03/12
LABORATORY SAMPLE I.D.		420-52971-1	420-53387-1	420-53819-1	420-53820-1	420-54015-1	420-54595-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
INDICATOR PARAMETERS							
PH	pH	7.85	NA	7.88	NA	8.49	8.24
TEMPERATURE	C	NA	NA	NA	NA	11.3	13.7
TOTAL DISSOLVED SOLIDS	mg/l	NA	NA	270	NA	NA	310
TOTAL SUSPENDED SOLIDS	mg/l	NA	NA	ND@1.0	NA	NA	ND@1.0
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	ND@0.0050	NA	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	NA	ND@1	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	NA	ND@1	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		03/08/12	03/22/12	04/05/12	04/05/12	04/12/12	05/03/12
LABORATORY SAMPLE I.D.		420-52971-1	420-53387-1	420-53819-1	420-53820-1	420-54015-1	420-54595-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		05/10/12	06/07/12	06/14/12	07/05/12	07/05/12	07/12/12
LABORATORY SAMPLE I.D.		420-54837-1	420-55750-1	420-56027-1	420-56731-1	420-56732-1	420-57004-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
INDICATOR PARAMETERS							
PH	pH	8.40	7.71	7.79	7.96	NA	8.16
TEMPERATURE	C	13.9	16.9	16.1	NA	NA	21.2
TOTAL DISSOLVED SOLIDS	mg/l	NA	260	NA	300	NA	NA
TOTAL SUSPENDED SOLIDS	mg/l	NA	ND@1.0	NA	ND@1.0	NA	NA
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	NA	0.0053	NA
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	NA	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	NA	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		05/10/12	06/07/12	06/14/12	07/05/12	07/05/12	07/12/12
LABORATORY SAMPLE I.D.		420-54837-1	420-55750-1	420-56027-1	420-56731-1	420-56732-1	420-57004-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		08/02/12	08/09/12	09/06/12	09/13/12	10/04/12	10/04/12
LABORATORY SAMPLE I.D.		420-57676-1	420-57928-1	420-58756-1	420-59020-1	420-59842-1	420-59843-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
BASE/NEUTRAL EXTRACTABLES							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
INDICATOR PARAMETERS							
PH	pH	8.14	7.92	8.36	8.07	8.44	NA
TEMPERATURE	C	20.7	20.5	20.2	19.1	20.3	NA
TOTAL DISSOLVED SOLIDS	mg/l	300	NA	250	NA	270	NA
TOTAL SUSPENDED SOLIDS	mg/l	1.2	NA	ND@1.0	NA	7.2	NA
METALS							
LEAD, TOTAL	mg/l	NA	NA	NA	NA	NA	ND@0.0050
VOLATILE ORGANICS							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	NA
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5	NA
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		08/02/12	08/09/12	09/06/12	09/13/12	10/04/12	10/04/12
LABORATORY SAMPLE I.D.		420-57676-1	420-57928-1	420-58756-1	420-59020-1	420-59842-1	420-59843-1
SAMPLE RUN NUMBER		01	01	01	01	01	01
SAMPLE COMMENT CODES							
PARAMETER	UNITS						
VOLATILE ORGANICS (Continued)							
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		10/11/12	11/01/12	11/08/12	12/06/12	12/13/12
LABORATORY SAMPLE I.D.		420-60089-1	420-60653-1	420-60821-1	420-61648-1	420-61933-1
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
BASE/NEUTRAL EXTRACTABLES						
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
INDICATOR PARAMETERS						
PH	pH	8.16	8.09	8.33	8.10	7.73
TEMPERATURE	C	18.4	17.8	15.7	14.8	15.5
TOTAL DISSOLVED SOLIDS	mg/l	NA	280	NA	320	NA
TOTAL SUSPENDED SOLIDS	mg/l	NA	ND@1.0	NA	ND@1.0	NA
METALS						
LEAD, TOTAL	mg/l	NA	NA	NA	NA	NA
VOLATILE ORGANICS						
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5
ACRYLONITRILE	ug/l	ND@5	ND@5	ND@5	ND@5	ND@5
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BENZYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

SAMPLE LOCATION		SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A	SPDES OF 01A
SAMPLE DESCRIPTION		SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL	SPDES OUTFL
SAMPLE DATE		10/11/12	11/01/12	11/08/12	12/06/12	12/13/12
LABORATORY SAMPLE I.D.		420-60089-1	420-60653-1	420-60821-1	420-61648-1	420-61933-1
SAMPLE RUN NUMBER		01	01	01	01	01
SAMPLE COMMENT CODES						
PARAMETER	UNITS					
VOLATILE ORGANICS (Continued)						
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2012 - December 31, 2012

EXPLANATION OF REPORTING CONVENTIONS AND KEY TO COMMENT CODES

REPORTING CONVENTIONS

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X
BMRL@X	Below Minimum Reporting Limit of X

CODE	EXPLANATION
^	Non-Standard Measurement Unit
c	Sample contained sediment which may have contributed to reported results
d	24 Hour Composite Sample
B	Organic analyte detected in both the sample and the laboratory blank
D	Compounds identifed at a secondary dilution factor
E	Concentration exceeds the calibration range of the GC/MS instrument
J	Estimated Value
N	Spiked sample recovery not within control limits
P	Lower of 2 GC column concentrations that have more than 25% difference
R	Reported value is less than the CRDL but greater than the IDL
S	Surrogate recoveries exceed acceptable control limits
W	Post digestion spike FAA out of control limits; sample absorbance < 50%
*	Manhole flooded when sediment sample collected
B	The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL) (Inorganics)
H	Sample was prepped or run beyond the specified method holding time
^	Value estimated. Possible meter malfunction.

Former IBM Kingston Facility Flux Calculations

Groundwater Collection System and MW-504S Pumping Well and North Parking Lot Area Passive Groundwater Collection System

Groundwater Collection System

Total Gallons Extracted January 1, 2012 - June 30, 2012: 9,608,465

Average Flow Rate 52,649 gal/day

	avg. ug/l	Flux lbs/day
Tetrachloroethene	2.0	0.00086
Trichloroethene	92.7	0.04049
12-Dichloroethene(tot)	46.7	0.02039
Vinyl Chloride	0.0	0.00000
111-Trichloroethane	63.0	0.02753
11-Dichloroethane	17.9	0.00783
12-Dichloroethane	0.5	0.00020
11-Dichloroethene	13.1	0.00574
Freon 113	0.0	0.00000
Freon 123a	0.0	0.00000

Total flux contributed by GWCS: 0.10305 lbs/day

Semiannual Flux for GWCS: 18.81 lbs

Pumping Well MW-504S (offline)

Total Gallons Extracted January 1, 2012 - June 30, 2012: 0

Average Flow Rate 0 gal/day

	avg. ug/l	Flux lbs/day
Tetrachloroethene		0.00000
Trichloroethene		0.00000
111-Trichloroethane		0.00000

Total flux contributed by MW-504S: 0.00000 lbs/day

Semiannual Flux for MW-504S: 0.000 lbs

North Parking Lot Area Passive Groundwater Collection System

Total Gallons Extracted January 1, 2012 - June 30, 2012: 331,031

Average Flow Rate 1,814 gal/day

	avg. ug/l	Flux lbs/day
Tetrachloroethene	1.7	0.00003
Trichloroethene	29.9	0.00045
12-Dichloroethene(tot)	34.8	0.00052
Vinyl Chloride	0.5	0.00001
111-Trichloroethane	26.0	0.00039
11-Dichloroethane	9.4	0.00014
12-Dichloroethane	0.0	0.00000
11-Dichloroethene	1.5	0.00002
Freon 113	0.0	0.00000
Freon 123a	0.0	0.00000

Total flux contributed by NPLA pump stations: 0.00156 lbs/day

Semiannual Flux for NPLA pump stations: 0.28 lbs

overall flux: **19.0913**

Former IBM Kingston Facility Flux Calculations

Groundwater Collection System and MW-504S Pumping Well and North Parking Lot Area Passive Groundwater Collection System

Groundwater Collection System

Total Gallons Extracted July 1, 2012 - December 31, 2012: 8,457,577

Average Flow Rate 46,343 gal/day

	avg. ug/l	Flux lbs/day
Tetrachloroethene	2.0	0.00079
Trichloroethene	114.8	0.04414
12-Dichloroethene(tot)	55.3	0.02128
Vinyl Chloride	0.0	0.00000
111-Trichloroethane	70.8	0.02721
11-Dichloroethane	20.8	0.00798
12-Dichloroethane	0.7	0.00028
11-Dichloroethene	14.0	0.00539
Freon 113	0.1	0.00004
Freon 123a	0.0	0.00000

Total flux contributed by GWCS: 0.10711 lbs/day

Semiannual Flux for GWCS: 19.55 lbs

Pumping Well MW-504S (offline)

Total Gallons Extracted July 1, 2012 - December 31, 2012: 0

Average Flow Rate 0 gal/day

	avg. ug/l	Flux lbs/day
Tetrachloroethene		0.00000
Trichloroethene		0.00000
111-Trichloroethane		0.00000

Total flux contributed by MW-504S: 0.00000 lbs/day

Semiannual Flux for MW-504S: 0.000 lbs

North Parking Lot Area Passive Groundwater Collection System

Total Gallons Extracted July 1, 2012 - December 31, 2012: 94,638

Average Flow Rate 519 gal/day

	avg. ug/l	Flux lbs/day
Tetrachloroethene	0.4	0.00000
Trichloroethene	41.3	0.00018
12-Dichloroethene(tot)	53.7	0.00023
Vinyl Chloride	1.3	0.00001
111-Trichloroethane	28.0	0.00012
11-Dichloroethane	16.2	0.00007
12-Dichloroethane	0.2	0.00000
11-Dichloroethene	2.0	0.00001
Freon 113	0.0	0.00000
Freon 123a	0.0	0.00000

Total flux contributed by NPLA pump stations: 0.00062 lbs/day

Semiannual Flux for NPLA pump stations: 0.11 lbs

overall flux: **19.6596**