8976 Wellington Road
Manassas, VA 20109

March 30, 2022

Amen Omorogbe
Division of Environmental Remediation
New York State Dept. of Environmental Conservation
625 Broadway, 11th Floor
Albany, NY 12233-7017

Re: Former IBM Kingston Facility
Site Number: 356002
Order on Consent Index: D3-10023-6-11
2021 Annual Groundwater Monitoring Report

Dear Mr. Omorogbe:

Enclosed please find the 2021 Annual Groundwater Monitoring Report for the former IBM Kingston Facility. In July 2011, the Part 373 RCRA for the Site was superseded by a Part 375 Order on Consent (Order).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 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 Stephen Brown at (720) 397-5618.

Sincerely,

Brandon Ashby, P.G., R.E.M.
Manager, Environmental Engineering
Corporate Environmental Engineering

Recipient

Justin Stenerson, Esq.	NYSDEC Albany (electronic copy only)
Daniel Lanners	NYSDEC Albany (electronic copy only)
Kristin Kulow	NYSDOH Oneonta (electronic copy only)
Timothy Weidemann	Ulster County & Ulster County Economic Development Alliance (electronic copy only)
Alan Ginsberg	TechCity Properties, Inc. (electronic copy only)

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

2021 ANNUAL GROUNDWATER MONITORING REPORT

Prepared for:

IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, VA 20109

March 30, 2022

Prepared by:
Groundwater Sciences, P.C.
Groundwater Sciences Corporation

2550 Interstate Drive, Suite 303
Harrisburg, Pennsylvania 17110

560 Route 52, Suite 202
Beacon, New York 12508

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

Professional Geologist Certification
Former IBM Kingston
Town of Ulster
Ulster County, New York

2021 Annual Groundwater Monitoring Report
Order on Consent Index # D3-10023-6-11
Site # 356002

March 30, 2022

As the person with primary responsibility for the performance of the geological services and activities associated with the captioned report, I certify that I have reviewed the document titled *"Former IBM Kingston, Site Number 356002, Order on Consent Index D3-10023-6-11, 2021 Annual Groundwater Monitoring Report"*. This report is dated March 30, 2022 and was prepared for IBM Corporation by Groundwater Sciences Corporation and Groundwater Sciences, P.C.

As a professional geologist licensed in the State of New York, I certify that the associated geological services and this report have been prepared under my direct supervision. To the best of my knowledge, all such information contained in this report is complete and accurate.

This report bears the seal of a professional geologist. No alterations may be made to the information contained in this report unless made in accordance with Title 8, Article 145, Section 7209 of New York State Education Law.

Signature: _____ Date: 3/30/2022

Name: Dorothy A. Bergmann

License No: 00477

State: New York

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Table A: Summary of Abbreviations Used in this Report	
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601-9675,
GMP	Groundwater Monitoring Plan
GSC	Groundwater Sciences Corporation
GSPC	Groundwater Sciences, P.C.
GTF	Groundwater Treatment Facility
GWCS	Groundwater Collection System
IBM	International Business Machines Corporation
IWSL	Industrial Waste Sludge Lagoon
IWTP	Industrial Waste Treatment Plant
NPLA	North Parking Lot Area
NYSDEC	New York State Department of Environmental Conservation
OU	Operable Unit
QA/QC	Quality Assurance/Quality Control
SPDES	State Pollutant Discharge Elimination System
VOCs	Volatile Organic Compounds
Monitoring Parameters	
111-TCA	1,1,1-Trichlorethane
112-TCA	1,1,2-Trichloroethane
11-DCA	1,1-Dichloroethane
11-DCE	1,1-Dichloroethene
12-DCA	1,2-Dichloroethane
12-DCBZ	1,2-Dichlorobenzene
12-DCE	1,2-Dichloroethene (total)
13-DCBZ	1,3-Dichlorobenzene
14-DCBZ	1,4-Dichlorobenzene
CBZ	Chlorobenzene
CEA	Chloroethane
CIS13-DCPRE	Cis-1,2-Dichloropropene
DCDFM	Dichlorodifluoromethane
DCM	Methylene Chloride (Dicholoromethane)
Freon® 113	1,1,2-Trichloro-1,2,2-Trifluoroethane
Freon® 123a	1,2-Dichloro-1,2,2-Trifluoroethane
PCE	Tetrachloroethene
TCE	Trichloroethene
TCM	Chloroform (Trichloromethane)
VC	Vinyl Chloride

1.0 INTRODUCTION

This Annual Groundwater Monitoring Report, prepared by Groundwater Sciences, P.C. (GSPC) and 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 2021 calendar year at the TechCity (Former IBM Kingston Site (the Site)) located at 300 Enterprise Drive, Kingston, Ulster County, New York (see Figure 1-1).

The Site is listed as a Class 4 Site (Site # 356002) in the Registry of Inactive Hazardous Waste Disposal Sites in New York State and is managed in compliance with the Order on Consent (Order), Index # D3-10023-6-11, signed with New York State Department of Environmental Conservation (NYSDEC) by IBM and TechCity on July 8, 2011.

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 a discussion of the analytical data for groundwater samples collected during the previous annual period (January 1, 2021 through December 31, 2021). Section 5.0 presents the results of the groundwater remediation system operations Section 6.0 presents the progress of remediation at the Site and includes a report on the contaminant recovery levels and treatment efficiency data for the previous annual period. Section 7.0 provides a summary listing of reports on other activities completed. Section 8.0 provides reference listing of historical documents used in the preparation of this report.

2.0 SITE OVERVIEW

The following sections provide details on the 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 at the Site 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. 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 and some demolished with just the slab remaining. 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); a large parking area south and west of this building complex; and generally undeveloped land further to the southwest and north of this building complex.

In 1996, the Town of Ulster approved IBM's subdivision of the Site into twenty-seven (27) parcels as shown on Figure 2-1. In 1998, IBM sold the Site to AG Properties of Kingston, LLC (Parcels: 2 – 19; 22 – 29 and; 30) and, Ulster Business Complex, LLC (Parcel 1 (Building 201-203 Complex); Parcel 20 (Building 042) and; Parcel 21 (Building 043)). Since that time, multiple property transfers have occurred from AG Properties of Kingston, LLC and Ulster Business Complex LLC to other entities. A summary of the property transfers are included in Table 2-1.

As noted in Table 2-1, on March 13, 2017 three parcels were transferred to Ulster County due to tax foreclosure and include: Building B001 and the 5.84 acres on which it sits (Parcel 11); the 1-acre site where building B002 used to stand (Parcel 12); and; the 0.38-acre site where Building B034 used to stand (Parcel 034). On November 1, 2019, two additional parcels were transferred to Ulster County

due to tax foreclosure and include: Buildings B201, B202 and B203 and associated 24.7 acres of land (Parcel 1) and B070 (Salt Barn) and the 57.5 acres of vacant land to the south and southwest along Boices Lane (Parcel 2).

As noted on Table 2-1, on May 27, 2021, two parcels were transferred from Ulster County to the Ulster County Development Alliance, Inc. The two parcels transferred included the B201, B202 and B203 Complex (Parcel 1) and B070 (vacant land, Parcel 2).

As noted on Table 2-1, on August 17, 2021, two parcels were transferred to Kingston Realty Team LLC from TechCity 42 and 43 LLC. The two parcels include B042 and the 2.3 acres on which it sits (Parcel 20) and B043 and the 1.8 acres on which it sits (Parcel 21). On August 17, 2021, Kingston Realty Team LLC also acquired B052 (Parcel 23) and the 3.5 acres on which it sits from TechCity 52, LLC and B064 (Parcel 22) and the 0.39 acres on which it sits from TechCity 33, 52 and 64 LLC.

As noted on Table 2-1, on August 17, 2021, two parcels were transferred to BSD Realty NY LLC from TechCity 33, 51 and 64 LLC. These two parcels include B051 and the 0.67 acres on which it sits (Parcel 18) and B033 and the 1.0 acres on which it sits (Parcel 19).

As noted on Table 2-1, on December 28, 2021, fourteen (14) parcels were transferred to the Ulster County Economic Development Alliance from Ulster County as a result of a foreclosure on said parcels by Ulster County. The fourteen parcels (14) include: B001 and the 5.84 acres on which it sits (Parcel 11); B002 and the 1.00 acres on which it sits (Parcel 12); B034 and the 0.38 acres on which it sits (Parcel 13); B035 and the 0.43 acres on which it sits (Parcel 14); B003 and the 5.80 acres on which it sits (Parcel 15); B004 and the 0.84 acres on which it sits (Parcel 16); B005S and the 2.70 acres on which it sits (Parcel 17); B029 and the 0.28 acres on which it sits (Parcel 24); B025 and the 2.10 acres on which it sits (Parcel 25); the 60-inch stormwater outfall and the 0.87 acres on which it sits (Parcel 26); B036 and the 36.10 acres on which it sits (Parcel 3); B021 and the 0.65 acres on which it sits (Parcel 10); B005N and the 3.00 acres on which it sits (Parcel 5); B022 and the 0.49 acres on which it sits (Parcel 7); B023 and the 0.64 acres on which it sits (Parcel 8); B024 and the 0.55 acres on which it sits (Parcel 9) and; the common areas, including internal roadways and parking areas comprising 95.50 acres (Parcel 27).

Of note, the former utility plant area consisting of B031, B032, B067, B038, B056 and the 7.4 acres on which it sits (Parcel 6) is still owned by A.G. Properties of Kingston, LLC.

Table 2-1: Summary of Property Transactions after IBM Sale							
Ulster County SBL #	**IBM Parcel Number**	**Buildings or Areas**	**Parcel Size (Acres)**	**Owner**	**Date of Transfer**	**Deed Document Number**	**Recorded Date**
48.7-1-29.100	1	B201 B202 B203	24.7	*Ulster Business Complex LLC*	1998-02-06	1998-27610194	1998-02-18
				County of Ulster	2019-11-01	2019-14519	2019-11-01
				Ulster County Economic Development Alliance, Inc	2021-05-20	2021-10714	2021-05-27
48.7-1-29.110	11	B001	5.84	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				County of Ulster	2017-03-09	2017-3853	2017-03-13
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2610	2022-02-10
48.7-1-29.120	12	B002	1.0	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				County of Ulster	2017-03-09	2017-3853	2017-03-13
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2610	2022-02-10
48.7-1-29.130	13	B034	0.38	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				County of Ulster	2017-03-09	2017-3853	2017-03-13
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2610	2022-02-10
48.7-1-29.140	14	B035	0.43	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.150	15	B003	5.8	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.160	16	B004	0.84	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10

Table 2-1: Summary of Property Transactions after IBM Sale (continued)

Ulster County SBL #	IBM Parcel Number	Buildings or Areas	Parcel Size (Acres)	Owner	Date of Transfer	Deed Document Number	Recorded Date
48.7-1-29.170	17	B005S	2.7	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.180	18	B051	0.67	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				TechCity 33 51 64 LLC	2017-11-16	2018-00001945	2018-02-06
				BSD Realty NY LLC	2021-08-17	2021-16500	2021-08-20
48.7-1-29.190	19	B033	1.0	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				TechCity 33 51 64 LLC	2017-11-16	2018-00001945	2018-02-06
				BSD Realty NY LLC	2021-08-17	2021-16500	2021-08-20
48.7-1-29.200	2	58 acres (B070)	57.5	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				County of Ulster	2019-11-01	2019-14519	2019-11-01
				Ulster County Economic Development Alliance, Inc	2021-05-20	2021-10715	2021-05-27
48.7-1-29.210	21	B043	1.8	*Ulster Business Complex LLC*	1998-02-06	1998-27610194	1998-02-18
				TechCity 42 43 LLC	2010-05-26	2010-00007508	2010-06-02
				Kingston Realty Team LLC	2021-08-17	2021-16540	2021-08-23
48.7-1-29.220	22	B064	0.39	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				TechCity 33 51 64 LLC	2017-11-16	2018-00001945	2018-02-06
				Kingston Realty Team LLC	2021-08-17	2021-16541	2021-08-23
48.7-1-29.230	23	B052	3.5	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				TechCity 52 LLC	2000-03-31	2000-30360279	2000-05-02
				Kingston Realty Team LLC	2021-08-17	2021-16542	2021-08-23
48.7-1-29.240	24	B029	0.28	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.250	25	B025	2.1	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10

Table 2-1: Summary of Property Transactions after IBM Sale (continued)

Ulster County SBL #	IBM Parcel Number	Buildings or Areas	Parcel Size (Acres)	Owner	Date of Transfer	Deed Document Number	Recorded Date
48.7-1-29.260	26	60-in storm outfall	0.87	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.270	27	Common Areas	95.5	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2607	2022-02-10
48.7-1-29.290	20	B042	2.3	*Ulster Business Complex LLC*	1998-02-06	1998-27610194	1998-02-18
				TechCity 42 43 LLC	2010-05-26	2010-00007508	2010-06-02
				Kingston Realty Team LLC	2021-08-17	2021-16540	2021-08-23
48.7-1-29.300	3	B036	36.1	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.400	10	B021	0.65	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				TechCity 22 23 24 LLC	2011-10-12	2011-00013981	2011-10-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.500	5	B005N	3.0	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.600	6	B031, B032, B067, B038, B056	7.4	AG Properties of Kingston LLC	1998-02-06	1998-27610203	1998-02-18

Table 2-1: Summary of Property Transactions after IBM Sale (continued)							
Ulster County SBL #	**IBM Parcel Number**	**Buildings or Areas**	**Parcel Size (Acres)**	**Owner**	**Date of Transfer**	**Deed Document Number**	**Recorded Date**
48.7-1-29.700	7	B022	0.49	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				TechCity 22 23 24 LLC	1999-10-01	1999-29880039	1999-11-22
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.800	8	B023	0.64	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				TechCity 22 23 24 LLC	1999-10-01	1999-29880039	1999-11-22
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10
48.7-1-29.900	9	B024	0.55	*AG Properties of Kingston LLC*	1998-02-06	1998-27610203	1998-02-18
				TechCity 22 23 24 LLC	1999-10-01	1999-29880039	1999-11-22
				Ulster County Economic Development Alliance, Inc	2021-12-28	2022-2614	2022-02-10

The site is 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 A.G. Properties of Kingston, LLC and Ulster Business Complex LLC ("TechCity") on July 8, 2011. Corrective Action activities at the Site were conducted with oversight of NYSDEC under the RCRA Permit and from July 2011 to present under the Order.

Prior to and under the RCRA Permit, IBM completed extensive RCRA Facility Assessments (RFAs) and RCRA Facility Investigations (RFIs) and beginning in the early 1990s through 2002 delineated the occurrence and extent of volatile organic compounds (VOCs) in groundwater, soil and soil vapor beneath the Site. These investigations were conducted at all identified and accessible Solid Waste Management Units (SWMUs). Since 2008, IBM has completed additional investigations of SWMUs as those areas that became accessible as the result of TechCity's redevelopment activities.

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 storm water 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 2-2).

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 2-2. Table 2-2 presents a list of the OUs, including TechCity's proposed use for each OU based on the TechCity Comprehensive Design Plan and Redevelopment Overlay District, and which OUs remain listed as a Class 4 Inactive Hazardous Waste Disposal Site.

Table 2-2: Listing of Operable Units, Proposed Use and Status		
Operable Unit	**Proposed Use**	**Status**
OU 1	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	
OU 4a	Commercial	
OU 5	Commercial	Included as part of the Class 4 Inactive Hazardous Waste Disposal Site # 356002
OU 6	Commercial	
OU 7	Commercial	
OU 8	Commercial	

NYSDEC's Statement of Basis (February 2013) provides an update on the Corrective Action activities at the Site and describes the closure conditions identified by various Site investigations from the late 1970s to 2012. The Statement of Basis also identifies four SWMUs that will be the subject of a future Statement of Basis: SWMU M, Portions of the IW Sewer Lines; SWMU S, Former Waste TCA Tanks (B001); SWMU T, Former Waste Oil Tank (B003) and; SWMU X, Building 031 Separator Tank. SWMUs S, T and M have been investigated and the results of these investigations have been submitted previously to NYSDEC. The supplemental investigation of a portion of SWMU M was completed in late 2019 and the report was submitted March 31, 2020. SWMU X has been investigated with no indication of any releases; however, it remains in operation as part of the B031 footer drain system.

In February 2009, the Town of Ulster Town Board received a request from TechCity Properties, Inc. for approval of an amendment to the Town Zoning Code and a Comprehensive Development Plan for the redevelopment of the East Campus of TechCity - the area bounded by Boices Lane, Enterprise Drive, Old Neighborhood Road and the CSX Railroad tracks. The TechCity Comprehensive Development Plan called for the demolition of buildings which TechCity deemed to be obsolete among other activities including the reuse of two existing buildings for interior parking facilities, the

continued use of some existing buildings, the allowance for new buildings and parking spaces located throughout the East Campus, both in covered facilities and at-grade parking lots.

In late 2015, asbestos abatement ensued in select buildings by A2 Environmental Solutions, LLC, an asbestos abatement contractor retained by TechCity. In early 2016, demolition of buildings B001, B002, B003, B004, B025, and B034 and B035 commenced (B001 and B035 have not been demolished to date). Debris piles from the demolition activities were stored on the building slabs and are still present.

The following summary is derived from information presented in the EPA's Notice of Potential Liability and Request to Perform Response Action Under Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601-9675[1], ("CERCLA", also known as the Superfund Law). In May 2017, the United States Environmental Protection Agency (USEPA) was contacted by Ulster County officials requesting assistance in addressing potential public health threats associated with friable asbestos at three buildings at the Site (B001, B002 and former B034). Starting in May 2017, EPA encouraged TechCity to address asbestos concerns associated with B001, B002 and B034 but not the three debris piles associated with the demolition of B025 which at that time, reportedly contained non-friable asbestos-containing material (ACM) in the form of vinyl flooring. In April 2018, the New York State Department of Labor recategorized the three B025 debris piles as friable regulated asbestos-containing materials (RACM).

On December 11, 2019, USEPA provided notice to the Site Owner (Alan L. Ginsberg), TechCity Properties Inc. and AG Properties of Kingston, LLC) together with A2 Environmental Solutions, LLC and the A2 Environmental Solutions, LLC owner, Ms. Stephanie Laskin, of potential liability and request to perform a Response Action under the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601-9675, ("CERCLA", also known as the Superfund Law). The notice relates to the release or threatened release of asbestos, a CERCLA

[1] United States Environmental Protection Agency, December 11, 2019, *Notice of Potential Liability and Request to Perform Response Action Under Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601-9675, TechCity Superfund Site, Town of Ulster, Ulster County, New York.*

hazardous substance, into the environment at the TechCity Superfund Site located at 300 Enterprise Drive, Town of Ulster, Ulster County, New York.

On September 23, 2021, the USEPA filed a Notice of Federal Lien against AG Properties of Kingston LLC in favor of the United States on the real property which are or have been or will be subject to or affected by removal or remedial action as defined in Section 101 of CERCLA, 42 U.S.C. §9601 and include B025 and the 2.1 acres on which it sits (Parcel 25) and the master parcel / parking lot (common areas including internal roadways and parking areas) consisting of 95.5 acres (Parcel 27).

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 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 x 10^{-2} centimeters per second [cm/sec] to 9.5 x 10^{-2} cm/sec), with an average hydraulic conductivity of approximately 100 ft/day [2.3 x 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 x 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 (OU-5)

The former Industrial Waste Sludge Lagoon (IWSL) 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 a NYSDEC 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 to NYSDEC 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 in 2021. 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 in 2021.

4.0 GROUNDWATER MONITORING RESULTS

The current Groundwater Monitoring Plan (GMP) was approved by the NYSDEC on August 7, 2013. The following sections detail the monitoring completed during the reporting period.

4.1 Summary of Field Activities

Monitoring wells and piezometers were inspected and sampled during the monitoring period as per the GMP.

4.1.1 Groundwater Monitoring Well Sampling

Routine groundwater samples were collected during the first quarter of 2021. Sampling and analysis of groundwater was performed at the Site in accordance with protocols contained in the currently approved GMP. The results of the routine groundwater sampling and the associated Quality Assurance/Quality Control (QA/QC) data are contained in Appendix A. The next routine sampling per the GMP will be conducted in the second quarter of 2022.

4.1.2 Physical Well Inventory and Maintenance

Accessible wells and piezometers were inspected during the monitoring period. During each groundwater elevation measurement event, each accessible monitoring well was inspected for integrity in accordance with the Groundwater Monitoring System Inspection Plan.

4.1.3 Groundwater Elevation Measurements

In addition to the GMP monitoring requirements, IBM measured water levels in the hydraulic effectiveness wells during the first, second, third and fourth quarters. The results of each of these water level surveys were converted to groundwater elevations and are presented in Appendix B and are discussed further in Section 4.2.

4.2 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. Four groundwater elevation contour maps were prepared, one for each quarter of 2021, included as Figures 4-1 through Figure 4-4. An enlargement of the northern portion of the Site, including the

Groundwater Collection System (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 and the utility trench barrier wall.

An east-west trending groundwater divide has been identified at the Site underlying B001, Building 002 (B002), B003 and Building 005 (B005) (see Figures 4-1 through Figure 4-4). 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 GWCS is 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 Figures 4-1 through Figure 4-4), 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 passes under Enterprise Drive to the south of B201.
- A naturally occurring 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 runs parallel to the north property line 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 westward groundwater migration along the underground

utility pipes which ultimately terminate at the former Industrial Waste Treatment Facility (IWTF).

4.3 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. PCE, TCE, and 111-TCA present in the NPLA Plume appear to originate in the central and western portions of the eastern campus, and move north-northwest toward the GWCS.
- 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 B036 Area Plume, located on the West Campus near Building 036 (B036), is primarily composed of TCE and 111-TCA. The plume in this area is not likely to have originated from the former IWSL or from activities associated with 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 4-5 and 4-6 present a generalized depiction of areas where groundwater is impacted by VOCs that has been inferred based on historical monitoring data and corresponds to the following compounds: PCE; TCE; 12-DCE; VC; 111-TCA; 11-DCE; 11-DCA; Freon® 113; 12-DCA; TCM and 112-TCA. Compounds less frequently detected include: 12-dichlorobenzene (DCBZ), 13-DCBZ, 14-DCBZ, chlorobenzene [CBZ], and chloroethane [CEA].

Figures 4-5 and 4-6 include postings of the results from the first quarter 2021 sampling event for each of the major constituent(s) and their associated degradation products. The maximum concentrations for the constituents present in these plumes were observed during the 1980s and the concentrations observed on the Site have declined since that time.

Lastly, Figures 4-5 and 4-6 show 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 the B036 Area plume which 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.

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

The Groundwater Remediation System consists of the GWCS and NPLA system 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 as needed and routine cleaning of the air stripper units and components.

5.1 Groundwater Remediation System Components

5.1.1 Groundwater Collection System (GWCS)

The two main elements of the GWCS are the interceptor trench and the lateral trench as shown on Figure 5-1. The interceptor portion of the GWCS lies more or less perpendicular to the direction of groundwater flow. The GWCS 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 (MH1 through MH5) which are connected by 6-inch diameter perforated pipe. Water recovered from these trenches was conveyed to the on-site IWTF for removal of VOCs using counter-current air stripping towers. During early 1994, upgrades to the GWCS were completed and included the installation of new pumps in the associated trench manholes, the construction of a new dedicated groundwater 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 new treatment building, subjected to tray aeration, and discharged to sanitary sewer. Additionally, in May 1995, the northwest leg of the GWCS trench was extended approximately 240 feet with three additional trench manholes (MH6 through MH8) with one pump installed at MH6 (see Figure 5-1). On July 10, 1996 the discharge from the tray-aerators was connected to the storm sewer system under the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit NY0108138.

5.1.2 North Parking Lot Area System (Passive Groundwater Collection)

In 1996, IBM initiated a storm-sewer re-routing project at the Site. This project involved the installation of a new storm sewer system and re-routing of certain connections to mitigate groundwater infiltration into the storm water system in the area between and near B003 and B005N. 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. Any 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 went online in December 1997. The NPLA system shown on Figure 5-1, consists of two pump stations, Pump Station-1 (PS-1), Pump Station-2 (PS-2), and associated conveyance piping.

5.1.3 Groundwater Treatment System

There is one groundwater treatment facility (GTF) operating at the Site which treats groundwater extracted by the GWCS and the NPLA system. The GTF consists of a 1,200 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 or approximately 83 gallons per minute (gpm) of groundwater. The average treatment system flow rate is typically between 30 to 50 gpm. The maximum SPDES-permitted daily discharge limit is 120,000 gallons.

5.2 Summary of Operations

Daily operating data for the GWCS and NPLA are presented in Appendix C. With the exception of minimal downtime for routine maintenance activities and minor repairs, the groundwater treatment system was operated continuously in accordance with the Operations, Maintenance, and Monitoring Plan.

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 SPDES Permit NY0108138, including the final effluent from the treatment system, Outfall 01A.

6.0 PROGRESS OF REMEDIATION

Historical activities combined with the satisfaction of the RCRA Permit requirements from 1988 through 2011 and from July 2011 to present under the Order have resulted in extensive remediation of contaminated media on Site.

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

The 2021 mass removal calculations for the Groundwater Remediation System are presented in Appendix D.

Long-term operations began at the GWCS in December 1986 and continued operations since that time have extracted and treated 597 million gallons of groundwater. Total mass removed as of year-end 2021 for the site is approximately 2,964 pounds, with approximately 2900 pounds from the GWCS. Approximately 19.7 million gallons of groundwater was collected and treated from the GWCS or, on average, 54,050 gallons per day over the 2021 calendar year. The average flowrate was approximately 37.5 gpm. For this annual period, approximately 22.19 pounds of VOCs were removed by the GWCS.

Operation of the NPLA pump stations began in December 1997. Continued operations since that time have extracted and treated 47.5 million gallons of water. Total mass removed by the NPLA as of year-end 2021 is approximately 43 pounds. Approximately 1.3 million gallons of groundwater was collected from the NPLA pump stations or, on average, 3,611 gallons per day over the 2021 calendar year. The average flowrate was approximately 2.5 gpm. For this annual period, approximately 0.14 pounds of VOCs were removed by the NPLA system.

The ongoing remedial program continues to be effective in reducing and containing the dissolved groundwater plume and in removing contaminant mass from Site groundwater.

7.0 OTHER ACTIVITIES AND REPORTING

In addition to routine groundwater monitoring other activities were conducted at the Site in 2021 under the oversight of NYSDEC.

The results of these activities have been or will be submitted to NYSDEC in separate reports and therefore discussions relating to these activities are not included herein. Following is a summary of activities and submittals for the 2021 calendar year.

7.1 Emerging Contaminant Sampling Request

In response to a NYSDEC request[2], an Emerging Contaminant, Poly- and Perfluoroalkyl Substances (PFAS) and 1,4-Dioxane, Sampling Work Plan (EC Sampling Work Plan)[3] was prepared and submitted to NYSDEC on July 31, 2018. NYSDEC approved the EC Sampling Work Plan on in a letter dated September 4, 2020[4]. Sampling pursuant to the EC Sampling Work Plan was completed during October 2020 and reported[5] to NYSDEC on January 29, 2021. The EC Sampling Work Plan was accepted[6] by the NYSDEC on August 26, 2021.

7.2 Vapor Intrusion Monitoring

Golder Associates, 2021 Annual Vapor Intrusion Monitoring Report, Building 021, June 21, 2021.

7.3 Monitoring Well and Well Point Decommissioning Activities

On September 20, 2020, IBM submitted a request for approval to decommission twenty-five (25) IBM-installed monitoring wells, five (5) IBM-installed point wells, twenty-two (22) TechCity-

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[2] NYSDEC, June 5, 2018, *Request for Sampling of Emerging Contaminants, Former IBM Kingston, NYSDEC Site No. 356002.*

[3] Groundwater Sciences Corporation and Groundwater Sciences, P.C., July 31, 2018, *Former IBM Kingston Facility (TechCity) Emerging Contaminants Poly- and Perfluoroalkyl Substances and 1,4-Dioxane Sampling Work Plan, Site No. 356002, Order on Consent, Index #D3-10023-6-11.*

[4] NYSDEC, September 4, 2020, *Emerging Contaminants Sampling Work Plan, Former IBM Kingston Site, NYSDEC Site No. 356002, Kingston, Ulster County, NY.*

[5] NYSDEC, January 29, 2021, *Emerging Contaminants Sampling Work Report, Former IBM Kingston Site, NYSDEC Site No. 356002, Kingston, Ulster County, NY.*

[6] NYSDEC, August 26, 2021, *Emerging Contaminants PFAS and 1,4-Dioxane Sampling Report, Former IBM Kingston, NYSDEC Site No. 356002.*

installed monitoring wells; seven (7) TechCity-installed Soil Gas Vapor Points sampling points and eight (8) Sub-slab Vapor Points. On July 29, 2021, NYSDEC approved the proposed decommissioning activities.

During the fourth quarter 2021, all accessible locations were decommissioned. A summary report detailing the field activities will be submitted to the NYSDEC during early 2022.

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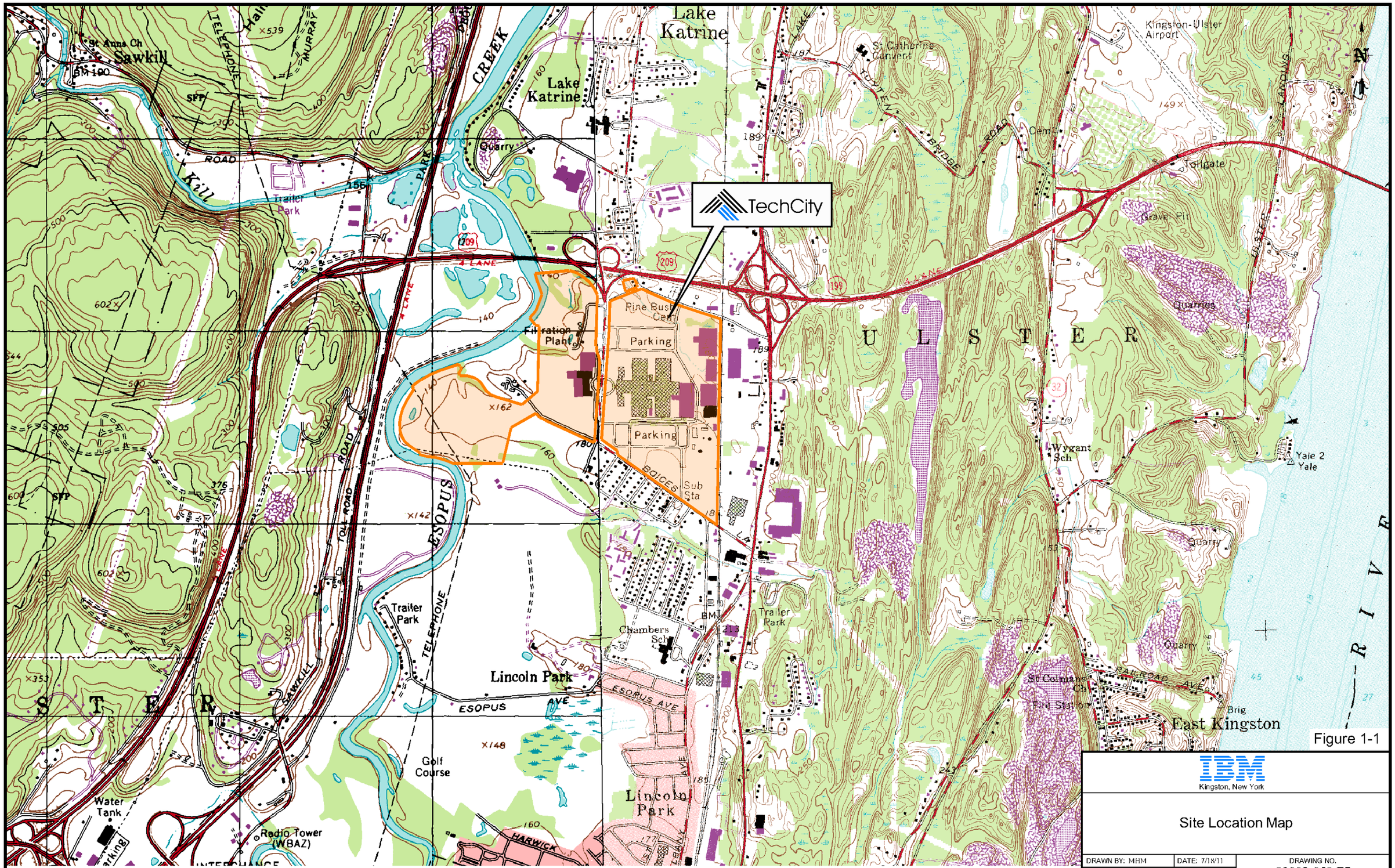

Portions of the Kingston East (1963, photorevised 1980) and Kingston West (1997) 7.5 Minute USGS Quadrangles

Scale
0 750' 1500'

Figure 1-1

IBM
Kingston, New York

Site Location Map

DRAWN BY: MHM	DATE: 7/18/11	DRAWING NO. 93002-059-E7
CHECKED & APPROVED BY: DAB		

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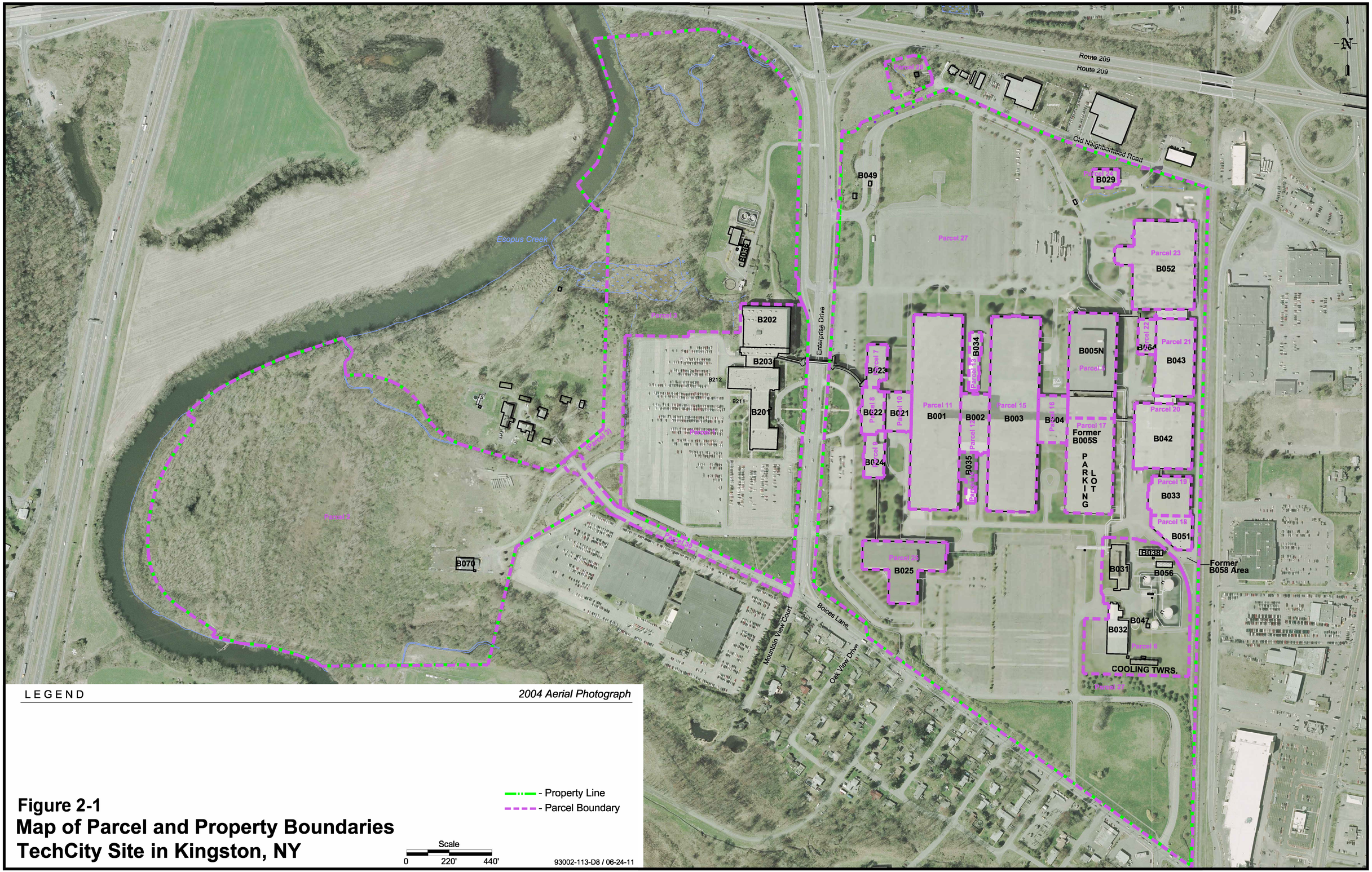

Figure 2-1
Map of Parcel and Property Boundaries
TechCity Site in Kingston, NY

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

Groundwater Collection System

60" Storm

North Parking Lot Area (NPLA) System

42" Storm

Utility Trench Barrier Wall

Route 209

Old Neighborhood Road

Route 9W

John M. Clark Road

Enterprise Drive

Esopus Creek

Mountain View Court

Bolces Lane

Oak View Drive

Former B005S

Former B058 Area

COOLING TWRS.

PS1

PS2

B049 GWCS Treatment Bldg.

B029 B052 B005N B064 B043 B042 B033 B051 B038 B056 B031 B032 B047 B034 B023 B022 B021 B001 B002 B003 B004 B202 B203 B201 B024 B035 B025 B070

1 2 3 3a 4 4a 5 6 7 8

Figure 2-2

IBM
Kingston, New York

Site Layout and Area Map

DRAWN BY: MHM	DATE: 3/13/19	DRAWING NO. 93002-113-F1
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LEGEND

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

N

Scale 0 220' 440'

IWSL Detail, 2X

GWCS Detail, 2X

Esopus Creek

Route 209

Old Neighborhood Rd.

Enterprise Drive

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 B055 B064 B201 B202 B203

60" STORM

42" STORM

36" STORM

27" STORM

Dry

Scale

0 300' 400'

LEGEND

- ▲ - Monitoring Well Location (installed in soil)
- △ - Temporary Monitoring Point
- ○ - North Parking Lot Area Pump Station
- Property Line
- Site Control Perimeter
- 178 - Groundwater Elevation Contour
- Supplemental Groundwater Elevation Contour
- 178.90 - Groundwater Elevation
- NA - Not Accessible
- Groundwater Divide
- Inferred Direction of Groundwater Flow
- Groundwater Collection System (GWCS)
- GWCS Trench Extension
- 162.64 - GWCS Invert Elevation
- Subsurface Utility Trench Barrier Wall
- Unsaturated Surficial Sand Unit (Perennially Saturated Shallow Sand Absent)

Figure 4-1

IBM
Kingston, New York

Surficial Sand Aquifer
Groundwater Elevation Contour Map
January 13, 2021 (First Quarter 2021)

DRAWN BY: KA	DATE: 2/15/22	DRAWING NO. 93002-129-1Q2021-H1
CHECKED & APPROVED BY: CES/DAB		

GROUNDWATER SCIENCES CORPORATION

IWSL Detail, 2X

GWCS Detail, 2X

Esopus Creek

Route 209

Old Neighborhood Rd.

Enterprise Drive

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

60" STORM

36" STORM

27" STORM

42" STORM

(see IWSL detail)

(see GWCS detail)

LEGEND

- ▲ - Monitoring Well Location (installed in soil)
- △ - Temporary Monitoring Point
- ○ - North Parking Lot Area Pump Station
- Property Line
- Site Control Perimeter
- Groundwater Elevation Contour
- Supplemental Groundwater Elevation Contour
- 178.28 - Groundwater Elevation
- NA - Not Accessible
- Groundwater Divide
- Inferred Direction of Groundwater Flow
- Groundwater Collection System (GWCS)
- GWCS Trench Extension
- 162.64 - GWCS Invert Elevation
- Subsurface Utility Trench Barrier Wall
- Unsaturated Surficial Sand Unit (Perennially Saturated Shallow Sand Absent)

Scale 0 300' 400'

Figure 4-2

IBM Kingston, New York

Surficial Sand Aquifer Groundwater Elevation Contour Map April 8, 2021 (Second Quarter 2021)

DRAWN BY: KA	DATE: 2/15/22	DRAWING NO. 93002-129-2Q2021-H1
CHECKED & APPROVED BY: CES/DAB		

GROUNDWATER SCIENCES CORPORATION

IWSL Detail, 2X

GWCS Detail, 2X

Esopus Creek

Route 209

Old Neighborhood Rd.

Enterprise Drive

Mtn. View Ct.

Boices Lane

Landing Area

Former B058 Area

60" STORM

36" STORM

27" STORM

42" STORM

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

LEGEND

- ▲ - Monitoring Well Location (installed in soil)
- △ - Temporary Monitoring Point
- ○ - North Parking Lot Area Pump Station
- Property Line
- Site Control Perimeter
- 178 - Groundwater Elevation Contour
- Supplemental Groundwater Elevation Contour
- 178.80 - Groundwater Elevation
- NA - Not Accessible
- Groundwater Divide
- Inferred Direction of Groundwater Flow
- Groundwater Collection System (GWCS)
- GWCS Trench Extension
- 162.64 - GWCS Invert Elevation
- Subsurface Utility Trench Barrier Wall
- Unsaturated Surficial Sand Unit (Perennially Saturated Shallow Sand Absent)

Scale 0 300' 400'

Figure 4-3

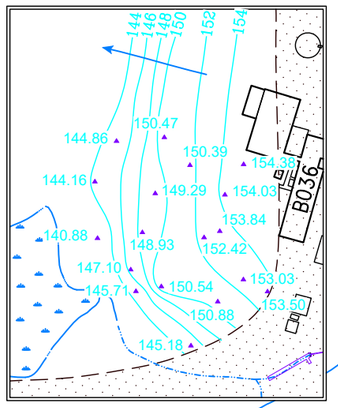
IBM
Kingston, New York

Surficial Sand Aquifer
Groundwater Elevation Contour Map
August 17, 2021 (Third Quarter 2021)

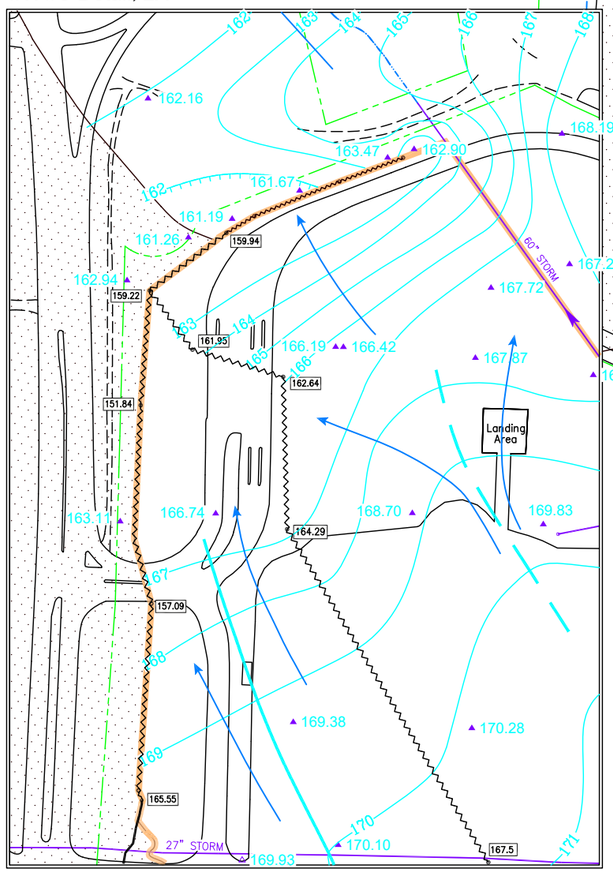
DRAWN BY: KA	DATE: 2/17/22	DRAWING NO. 93002-129-3Q2021-H1
CHECKED & APPROVED BY: CES/DAB		

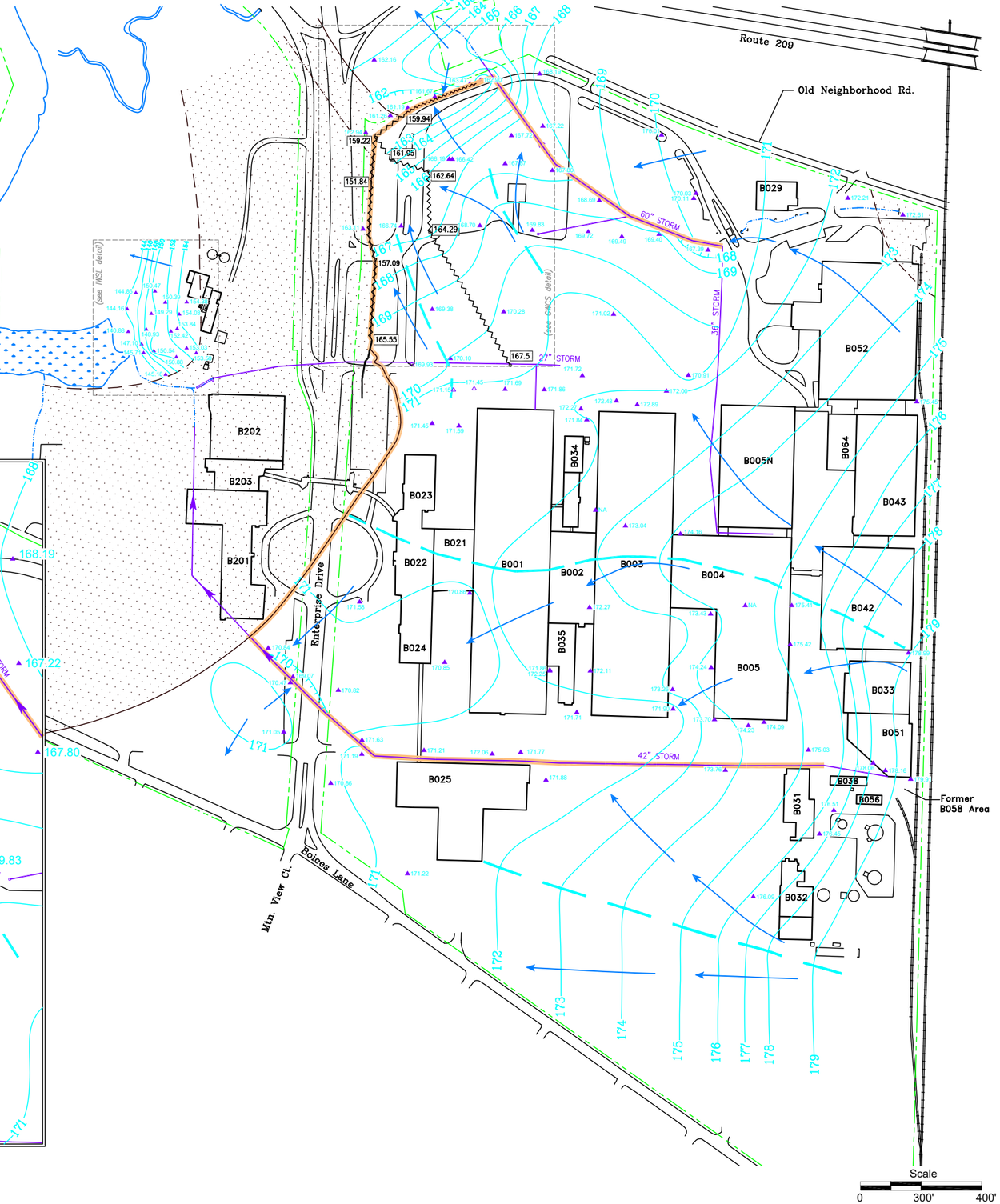
GROUNDWATER SCIENCES CORPORATION

IWSL Detail, 2X



GWCS Detail, 2X





LEGEND

- ▲ - Monitoring Well Location (installed in soil)
- △ - Temporary Monitoring Point
- ○ - North Parking Lot Area Pump Station
- Property Line
- Site Control Perimeter
- 178 - Groundwater Elevation Contour
- Supplemental Groundwater Elevation Contour
- 179.91 - Groundwater Elevation
- NA - Not Accessible
- Groundwater Divide
- Inferred Direction of Groundwater Flow
- Groundwater Collection System (GWCS)
- GWCS Trench Extension
- 162.64 - GWCS Invert Elevation
- Subsurface Utility Trench Barrier Wall
- Unsaturated Surficial Sand Unit (Perennially Saturated Shallow Sand Absent)

Figure 4-4

IBM
Kingston, New York

Surficial Sand Aquifer
Groundwater Elevation Contour Map
October 6, 2021 (Fourth Quarter 2021)

DRAWN BY: KA	DATE: 2/18/22	DRAWING NO. 93002-129-4Q2021-H1
CHECKED & APPROVED BY: CES/DAB		

GROUNDWATER SCIENCES CORPORATION

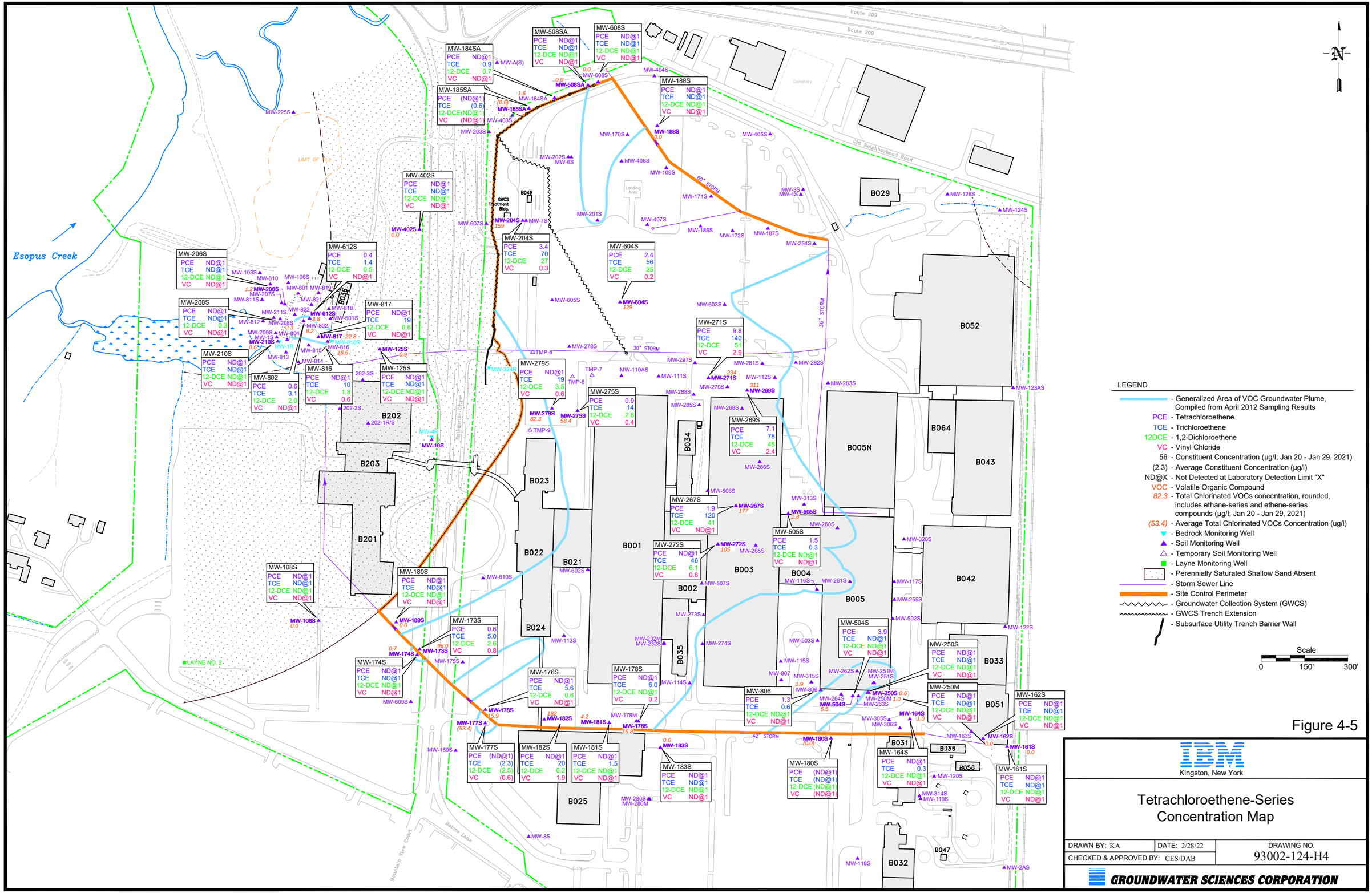


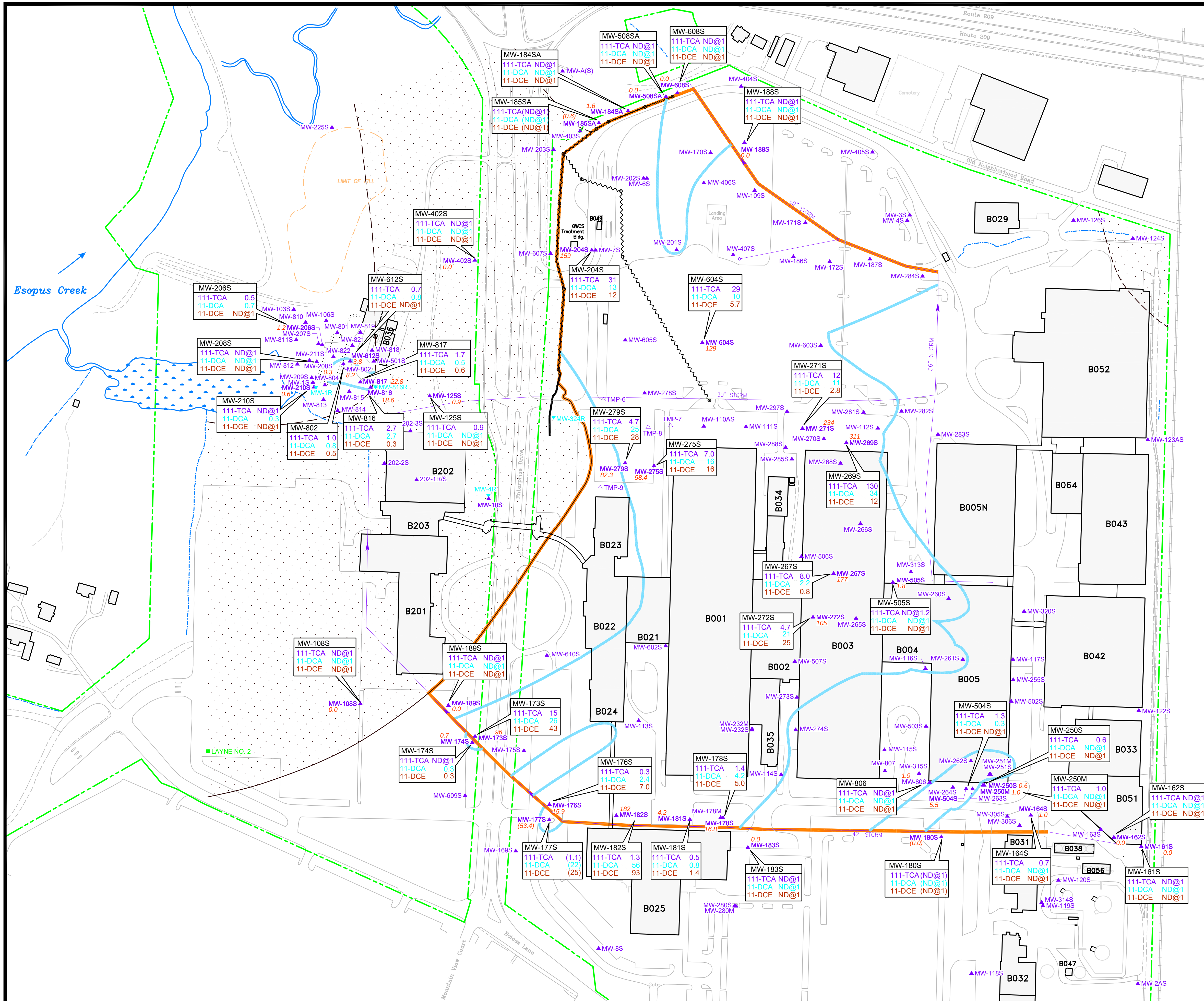
Figure 4-5

IBM
Kingston, New York

Tetrachloroethene-Series Concentration Map

DRAWN BY: KA	DATE: 2/28/22	DRAWING NO. 93002-124-H4
CHECKED & APPROVED BY: CES/DAB		

GROUNDWATER SCIENCES CORPORATION



LEGEND

- Generalized Area of VOC Groundwater Plume, Compiled from April 2012 Sampling Results
- 111TCA - 1,1,1-Trichloroethane
- 11DCA - 1,1-Dichloroethane
- 11DCE - 1,1-Dichloroethene
- 29 - Constituent Concentration (µg/l; Jan 20 - Jan 29, 2021)
- (25) - Average Constituent Concentration (µg/l)
- ND@X - Not Detected at Laboratory Detection Limit "X"
- VOC - Volatile Organic Compound
- *82.3* - Total Chlorinated VOCs concentration, rounded, includes ethane-series and ethene-series compounds (µg/l; Jan 20 - Jan 29, 2021)
- *(53.4)* - Average Total Chlorinated VOCs Concentration (µg/l)
- Bedrock Monitoring Well
- Soil Monitoring Well
- Temporary Soil Monitoring Well
- Layne Monitoring Well
- Perennially Saturated Shallow Sand Absent
- Storm Sewer Line
- Site Control Perimeter
- Groundwater Collection System (GWCS)
- GWCS Trench Extension
- Subsurface Utility Trench Barrier Wall

Scale 0 150' 300'

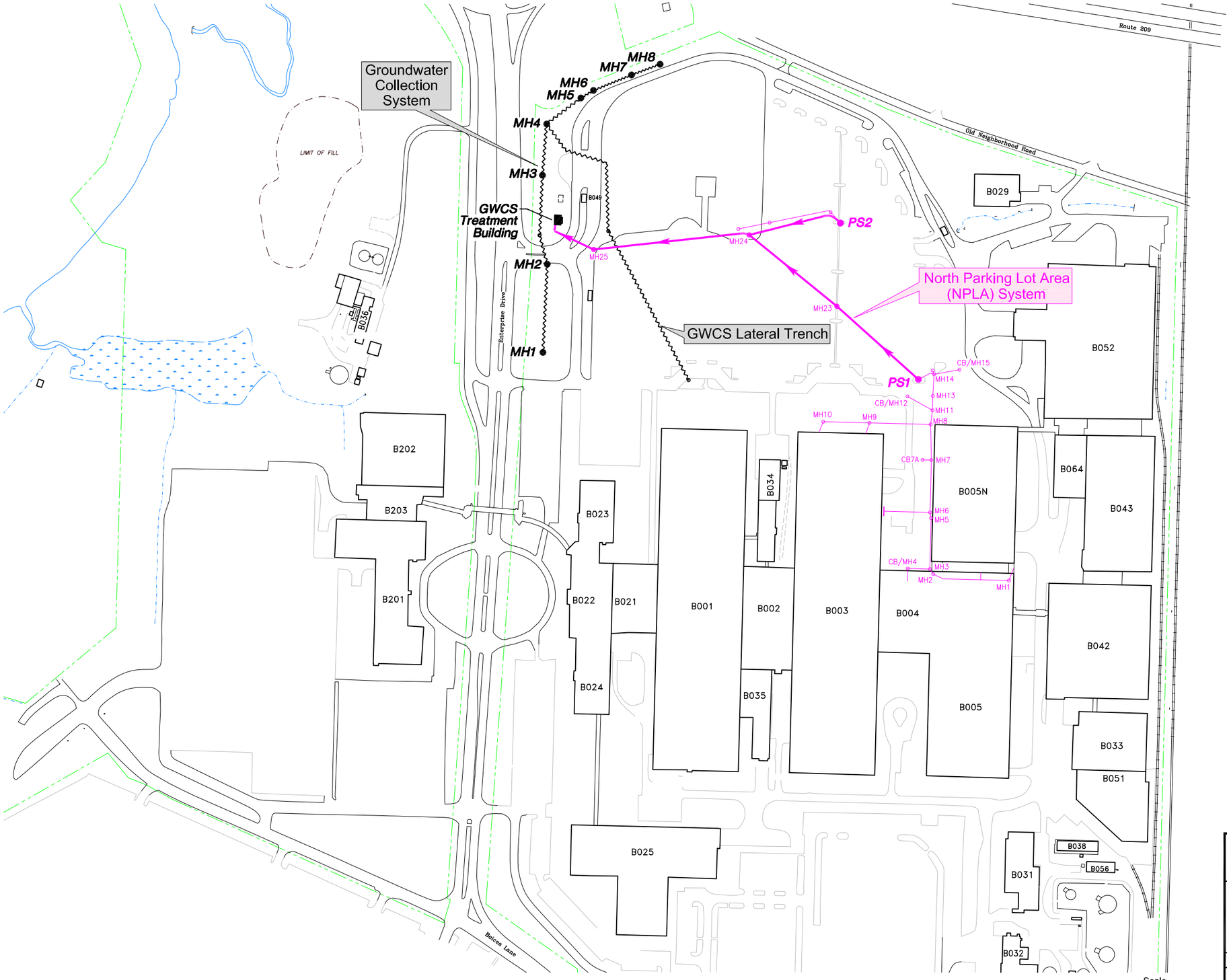
Figure 4-6

IBM Kingston, New York

1,1,1-Trichloroethane-Series Concentration Map

DRAWN BY: KA | DATE: 02/28/22 | DRAWING NO. 93002-125-G4
CHECKED & APPROVED BY: CES/DAB

GROUNDWATER SCIENCES CORPORATION



LEGEND

GWCS - Groundwater Collection System
MH - Manhole
PS - Pump Station
CS - Confined Space
- GWCS Interceptor Trench (Dec. 1986 - June 1994)
- GWCS Trench Extension (online July 1994)
- North Parking Lot Area (NPLA) System

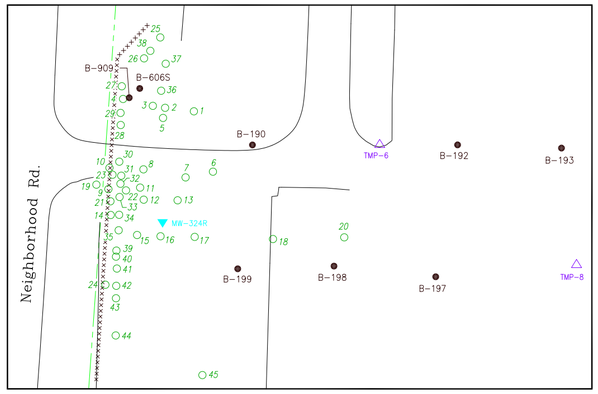
Figure 5-1

IBM
Kingston, New York

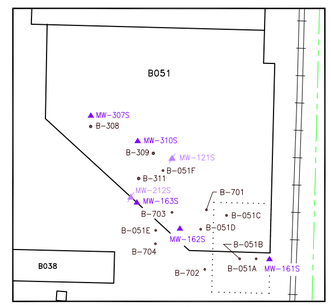
Groundwater Remediation System Location Map

DRAWN BY: MJ/MHM	DATE: 3/23/17	DRAWING NO. 93002-089-E1
CHECKED & APPROVED BY: MTL/DAB		

GROUNDWATER SCIENCES CORPORATION



Detail (4X)



Former B058 Detail (Scale 3X)

– 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

Scale
0 150' 300'

Plate 1

IBM
Kingston, New York

Soil Boring, Test Pit and Well Location Map

DRAWN BY: MHM	DATE: 9/18/17	DRAWING NO. 93002-055-N2
CHECKED & APPROVED BY: DAB		

GROUNDWATER SCIENCES CORPORATION

Appendix A

Groundwater and Field QA/QC Data Report

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2021 - December 31, 2021

Sample Location		MW-108-S	MW-125-S	MW-161-S	MW-162-S	MW-164-S	MW-173-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/21/2021	01/27/2021	01/26/2021	01/26/2021	01/26/2021	01/21/2021
Laboratory Sample I.D.		420189727-17	420190036-14	420190036-10	420190036-11	420190036-9	420189727-19
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.19	7.02	6.83	6.36	6.77	7.36
SPECIFIC CONDUCTANCE	umhos/cm	583	607	2514	2681	1919	1228
TEMPERATURE	C	18.6	13.0	16.8	16.0	16.5	19.0
Acid Extractables							
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
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
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
SILVER, DISSOLVED	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	ND@1	0.89 J	ND@1	ND@1	0.72 J	15
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	0.58 J
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	26 D

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2021 - December 31, 2021

Sample Location		MW-108-S	MW-125-S	MW-161-S	MW-162-S	MW-164-S	MW-173-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/21/2021	01/27/2021	01/26/2021	01/26/2021	01/26/2021	01/21/2021
Laboratory Sample I.D.		420189727-17	420190036-14	420190036-10	420190036-11	420190036-9	420189727-19
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	43 D
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	1.7
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	2.6
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
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	0.78 J
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	0.57 J
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	0.29 J	5.0

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2021 - December 31, 2021

Sample Location		MW-108-S	MW-125-S	MW-161-S	MW-162-S	MW-164-S	MW-173-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/21/2021	01/27/2021	01/26/2021	01/26/2021	01/26/2021	01/21/2021
Laboratory Sample I.D.		420189727-17	420190036-14	420190036-10	420190036-11	420190036-9	420189727-19
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
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	0.79 J
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2021 - December 31, 2021

Sample Location		MW-174-S	MW-176-S	MW-177-S	MW-177-S	MW-178-S	MW-180-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		01/21/2021	01/22/2021	01/22/2021	01/22/2021	01/22/2021	01/26/2021
Laboratory Sample I.D.		420189727-20	420189800-3	420189800-4	420189800-5	420189800-7	420190036-7
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.18	6.81	7.40	7.40	6.19	7.09
SPECIFIC CONDUCTANCE	umhos/cm	701	1102	926	926	403	946
TEMPERATURE	C	14.8	17.2	19.0	19.0	14.2	17.2
Acid Extractables							
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
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
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
SILVER, DISSOLVED	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	ND@1	0.29 J	1.0	1.1	1.4	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	0.34 J	2.4	21	22	4.2	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2021 - December 31, 2021

Sample Location		MW-174-S	MW-176-S	MW-177-S	MW-177-S	MW-178-S	MW-180-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		01/21/2021	01/22/2021	01/22/2021	01/22/2021	01/22/2021	01/26/2021
Laboratory Sample I.D.		420189727-20	420189800-3	420189800-4	420189800-5	420189800-7	420190036-7
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHYLENE	ug/l	0.32 J	7.0	25 D	25 D	5.0	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	0.36 J	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	ND@1	0.64 J	2.4	2.6	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
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	0.25 J	0.26 J	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	5.6	2.3	2.3	6.0	ND@1

Former IBM Kingston Facility
Groundwater Monitoring Data Report
January 1, 2021 - December 31, 2021

Sample Location		MW-174-S	MW-176-S	MW-177-S	MW-177-S	MW-178-S	MW-180-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		01/21/2021	01/22/2021	01/22/2021	01/22/2021	01/22/2021	01/26/2021
Laboratory Sample I.D.		420189727-20	420189800-3	420189800-4	420189800-5	420189800-7	420190036-7
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	0.57 J	0.65 J	0.15 J	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		MW-180-S	MW-181-S	MW-182-S	MW-183-S	MW-184-SA	MW-185-SA
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/26/2021	01/22/2021	01/22/2021	01/22/2021	01/20/2021	01/20/2021
Laboratory Sample I.D.		420190036-8	420189800-8	420189800-9	420189800-6	420189727-5	420189727-3
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.09	7.08	6.81	6.35	7.26	7.07
SPECIFIC CONDUCTANCE	umhos/cm	946	736	719	283	881	822
TEMPERATURE	C	17.2	18.5	14.5	17.9	14.7	14.3
Acid Extractables							
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
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
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
SILVER, DISSOLVED	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	ND@1	0.48 J	1.3	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	0.46 J	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	1.0	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	0.82 J	56 D	ND@1	ND@1	ND@1

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Sample Location		MW-180-S	MW-181-S	MW-182-S	MW-183-S	MW-184-SA	MW-185-SA
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/26/2021	01/22/2021	01/22/2021	01/22/2021	01/20/2021	01/20/2021
Laboratory Sample I.D.		420190036-8	420189800-8	420189800-9	420189800-6	420189727-5	420189727-3
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHYLENE	ug/l	ND@1	1.4	93 D	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	0.63 J	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	0.68 J	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	6.2	ND@1	0.70 J	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
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	0.71 J	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	1.5	20	ND@1	0.88 J	0.65 J

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Sample Location		MW-180-S	MW-181-S	MW-182-S	MW-183-S	MW-184-SA	MW-185-SA
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/26/2021	01/22/2021	01/22/2021	01/22/2021	01/20/2021	01/20/2021
Laboratory Sample I.D.		420190036-8	420189800-8	420189800-9	420189800-6	420189727-5	420189727-3
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	1.9	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		MW-185-SA	MW-188-S	MW-189-S	MW-204-S	MW-206-S	MW-208-S
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/20/2021	01/20/2021	01/21/2021	01/20/2021	01/28/2021	01/28/2021
Laboratory Sample I.D.		420189727-4	420189727-8	420189727-18	420189727-2	420190203-8	420190203-9
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.07	7.76	7.09	7.68	7.07	7.17
SPECIFIC CONDUCTANCE	umhos/cm	822	431	1019	929	917	909
TEMPERATURE	C	14.3	13.8	18.2	15.1	14.0	14.0
Acid Extractables							
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA	ND@10	ND@10
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
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA	ND@0.0014	0.024
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA	ND@0.0010	ND@0.0010
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA	ND@0.0010	ND@0.0010
SILVER, DISSOLVED	mg/l	NA	NA	NA	NA	ND@0.0010	ND@0.0010
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	31 D	0.54 J	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	13	0.66 J	ND@1

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Sample Location		MW-185-SA	MW-188-S	MW-189-S	MW-204-S	MW-206-S	MW-208-S
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/20/2021	01/20/2021	01/21/2021	01/20/2021	01/28/2021	01/28/2021
Laboratory Sample I.D.		420189727-4	420189727-8	420189727-18	420189727-2	420190203-8	420190203-9
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	12	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	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	1.5	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	27 D	ND@1	0.28 J
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
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	1.2	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	3.4	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	0.61 J	ND@1	ND@1	70 D	ND@1	ND@1

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Sample Location		MW-185-SA	MW-188-S	MW-189-S	MW-204-S	MW-206-S	MW-208-S
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/20/2021	01/20/2021	01/21/2021	01/20/2021	01/28/2021	01/28/2021
Laboratory Sample I.D.		420189727-4	420189727-8	420189727-18	420189727-2	420190203-8	420190203-9
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
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	0.28 J	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		MW-210-S	MW-250-M	MW-250-S	MW-267-S	MW-269-S	MW-271-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/29/2021	01/26/2021	01/26/2021	01/28/2021	01/21/2021	01/21/2021
Laboratory Sample I.D.		420190203-11	420190036-5	420190036-6	420190203-3	420189727-15	420189727-14
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.10	6.67	7.00	6.35	NA	6.78
SPECIFIC CONDUCTANCE	umhos/cm	1047	1021	817	592	NA	663
TEMPERATURE	C	13.3	15.1	19.2	17.1	NA	12.5
Acid Extractables							
PHENOLS, TOTAL	ug/l	ND@10	NA	NA	NA	NA	NA
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
Metals							
ARSENIC, DISSOLVED	mg/l	0.110	NA	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	ND@0.0010	NA	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	ND@0.0010	NA	NA	NA	NA	NA
SILVER, DISSOLVED	mg/l	ND@0.0010	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	ND@1	1.0	0.61 J	8.0	130 D	12
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	1.1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.28 J	ND@1	ND@1	2.2	34 D	11

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Sample Location		MW-210-S	MW-250-M	MW-250-S	MW-267-S	MW-269-S	MW-271-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/29/2021	01/26/2021	01/26/2021	01/28/2021	01/21/2021	01/21/2021
Laboratory Sample I.D.		420190203-11	420190036-5	420190036-6	420190203-3	420189727-15	420189727-14
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	0.75 J	12	2.8
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	1.1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	0.31 J	2.3	0.60 J
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	ND@1	ND@1	41 D	45 D	51 D
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	ND@1	ND@1
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	NA	NA	NA	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
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	0.29 J	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	2.5	ND@1	1.6
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	ND@1	ND@1
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	1.9	7.1	9.8
TOLUENE	ug/l	NA	NA	NA	NA	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	ND@1	ND@1	ND@1	120 D	78 D	140 D

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Sample Location		MW-210-S	MW-250-M	MW-250-S	MW-267-S	MW-269-S	MW-271-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/29/2021	01/26/2021	01/26/2021	01/28/2021	01/21/2021	01/21/2021
Laboratory Sample I.D.		420190203-11	420190036-5	420190036-6	420190203-3	420189727-15	420189727-14
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
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	2.4	2.9
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	ND@1	ND@1

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Sample Location		MW-272-S	MW-275-S	MW-279-S	MW-402-S	MW-504-S	MW-505-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/28/2021	01/20/2021	01/20/2021	01/27/2021	01/26/2021	01/21/2021
Laboratory Sample I.D.		420190203-4	420189727-10	420189727-9	420190036-13	420190036-4	420189727-16
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.61	6.70	6.20	7.13	6.73	7.53
SPECIFIC CONDUCTANCE	umhos/cm	1006	583	517	1076	1486	2833
TEMPERATURE	C	17.1	15.9	17.1	15.0	15.1	17.5
Acid Extractables							
PHENOLS, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
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
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
SILVER, DISSOLVED	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	4.7	7.0	4.7	ND@1	1.3	ND@1.2
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	0.99 J	0.53 J	0.39 J	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	21	16	25	ND@1	0.28 J	ND@1

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Sample Location		MW-272-S	MW-275-S	MW-279-S	MW-402-S	MW-504-S	MW-505-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/28/2021	01/20/2021	01/20/2021	01/27/2021	01/26/2021	01/21/2021
Laboratory Sample I.D.		420190203-4	420189727-10	420189727-9	420190036-13	420190036-4	420189727-16
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHYLENE	ug/l	25	16	28 D	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	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	0.31 J	0.63 J	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	6.1	2.8	3.5	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
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	0.26 J	0.49 J	0.50 J	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	0.92 J	ND@1	ND@1	3.9	1.5
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	46 D	14	19	ND@1	ND@1	0.33 J

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Sample Location		MW-272-S	MW-275-S	MW-279-S	MW-402-S	MW-504-S	MW-505-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/28/2021	01/20/2021	01/20/2021	01/27/2021	01/26/2021	01/21/2021
Laboratory Sample I.D.		420190203-4	420189727-10	420189727-9	420190036-13	420190036-4	420189727-16
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	0.76 J	0.36 J	0.56 J	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		MW-508-SA	MW-604-S	MW-608-S	MW-612-S	MW-802	MW-806-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/20/2021	01/20/2021	01/20/2021	01/28/2021	01/29/2021	01/26/2021
Laboratory Sample I.D.		420189727-6	420189727-12	420189727-7	420190203-7	420190203-12	420190036-3
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.99	6.87	6.91	6.72	7.06	6.86
SPECIFIC CONDUCTANCE	umhos/cm	702	239	922	958	1001	702
TEMPERATURE	C	15.3	17.2	15.8	12.5	12.9	16.1
Acid Extractables							
PHENOLS, TOTAL	ug/l	NA	NA	NA	ND@10	ND@10	NA
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
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	ND@0.0014	ND@0.0014	NA
CADMIUM, DISSOLVED	mg/l	NA	NA	NA	ND@0.0010	ND@0.0010	NA
LEAD, DISSOLVED	mg/l	NA	NA	NA	ND@0.0010	0.0013	NA
SILVER, DISSOLVED	mg/l	NA	NA	NA	ND@0.0010	ND@0.0010	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	ND@1	29 D	ND@1	0.69 J	1.0	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	10	ND@1	0.80 J	0.82 J	ND@1

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Sample Location		MW-508-SA	MW-604-S	MW-608-S	MW-612-S	MW-802	MW-806-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/20/2021	01/20/2021	01/20/2021	01/28/2021	01/29/2021	01/26/2021
Laboratory Sample I.D.		420189727-6	420189727-12	420189727-7	420190203-7	420190203-12	420190036-3
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHYLENE	ug/l	ND@1	5.7	ND@1	ND@1	0.45 J	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	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	0.57 J	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	ND@1	25	ND@1	0.47 J	2.0	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
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	0.48 J	ND@1	ND@1	0.28 J	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	2.4	ND@1	0.42 J	0.58 J	1.3
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	56 D	ND@1	1.4	3.1	0.58 J

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Sample Location		MW-508-SA	MW-604-S	MW-608-S	MW-612-S	MW-802	MW-806-S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/20/2021	01/20/2021	01/20/2021	01/28/2021	01/29/2021	01/26/2021
Laboratory Sample I.D.		420189727-6	420189727-12	420189727-7	420190203-7	420190203-12	420190036-3
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	0.18 J	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		MW-816	MW-817
Sample Description		GROUNDWATER	GROUNDWATER
Sample Date		01/28/2021	01/28/2021
Laboratory Sample I.D.		420190203-5	420190203-6
Sample Comment Codes			
Parameter	**Units**		
Indicator Parameters			
PH	pH	7.01	7.09
SPECIFIC CONDUCTANCE	umhos/cm	927	858
TEMPERATURE	C	13.6	13.8
Acid Extractables			
PHENOLS, TOTAL	ug/l	ND@10	ND@10
Base/Neutral Extractables			
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1
Metals			
ARSENIC, DISSOLVED	mg/l	ND@0.0014	ND@0.0014
CADMIUM, DISSOLVED	mg/l	ND@0.0010	ND@0.0010
LEAD, DISSOLVED	mg/l	ND@0.0010	ND@0.0010
SILVER, DISSOLVED	mg/l	ND@0.0010	ND@0.0010
Volatile Organics			
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	2.7	1.7
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	2.7	0.50 J

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Sample Location		MW-816	MW-817
Sample Description		GROUNDWATER	GROUNDWATER
Sample Date		01/28/2021	01/28/2021
Laboratory Sample I.D.		420190203-5	420190203-6
Sample Comment Codes			
Parameter	**Units**		
Volatile Organics			
1,1-DICHLOROETHYLENE	ug/l	0.31 J	0.59 J
1,2,3-TRICHLOROPROPANE	ug/l	ND@1	ND@1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	0.39 J
1,2-DICHLOROETHYLENE, TOTAL	ug/l	1.8	0.60 J
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1
2-CHLOROTOLUENE	ug/l	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1
BENZENE	ug/l	NA	NA
BROMOBENZENE	ug/l	ND@1	ND@1
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1
CHLOROFORM	ug/l	0.48 J	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1
ETHYLBENZENE	ug/l	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1
TOLUENE	ug/l	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1
TRICHLOROETHYLENE	ug/l	10	19

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Sample Location		MW-816	MW-817
Sample Description		GROUNDWATER	GROUNDWATER
Sample Date		01/28/2021	01/28/2021
Laboratory Sample I.D.		420190203-5	420190203-6
Sample Comment Codes			
Parameter	**Units**		
Volatile Organics			
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1
VINYL CHLORIDE	ug/l	0.57 J	ND@1
XYLENE, TOTAL	ug/l	NA	NA

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Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
D	Compound identified at a secondary dilution factor (Organics)
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit

Former IBM Kingston Facility
Field Quality Assurance / Control Data
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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		01/20/2021	01/21/2021	01/22/2021	01/26/2021	01/27/2021	01/28/2021
Laboratory Sample I.D.		420189727-11	420189727-13	420189800-2	420190036-2	420190036-12	420190203-2
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	0.73 J	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	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
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

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Field Quality Assurance / Control Data
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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		01/20/2021	01/21/2021	01/22/2021	01/26/2021	01/27/2021	01/28/2021
Laboratory Sample I.D.		420189727-11	420189727-13	420189800-2	420190036-2	420190036-12	420190203-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
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
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
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Sample Location		EQ RINSE BLK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		WTR LVL IND	1/20-21/21	1/22/2021	1/26-27/21	1/28-29/21
Sample Date		01/29/2021	01/20/2021	01/22/2021	01/26/2021	01/28/2021
Laboratory Sample I.D.		420190203-10	420189727-1	420189800-1	420190036-1	420190203-1
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	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
2-CHLOROTOLUENE	ug/l	NA	ND@1	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	NA	ND@1	NA	NA	NA
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

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2021 - December 31, 2021

Sample Location		EQ RINSE BLK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		WTR LVL IND	1/20-21/21	1/22/2021	1/26-27/21	1/28-29/21
Sample Date		01/29/2021	01/20/2021	01/22/2021	01/26/2021	01/28/2021
Laboratory Sample I.D.		420190203-10	420189727-1	420189800-1	420190036-1	420190203-1
Sample Comment Codes						
Parameter	**Units**					
Volatile Organics						
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	ND@1	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1	0.56 J	0.44 J	0.43 J	ND@1
TETRACHLOROETHYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	NA	ND@1	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
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	ND@1	NA	NA	NA

Former IBM Kingston Facility
Field Quality Assurance / Control Data
January 1, 2021 - December 31, 2021

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit

Appendix B

Groundwater Elevation Table

Kingston Site
2021 Water Level Data

Well	Elevation	01/13/21		04/08/21		08/17/21		10/06/21	
	TOC	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE
MW-001-R	**150.93**	6.20	144.73	5.85	145.08	6.38	144.55	6.10	144.83
MW-003-S	**173.03**	3.82	169.21	3.72	169.31	4.13	168.90	3.00	170.03
MW-004-R	**176.08**	4.10	171.98	6.06	170.02	6.77	169.31	6.12	169.96
MW-004-S	**172.74**	3.68	169.06	3.19	169.55	3.55	169.19	2.63	170.11
MW-006-S	**172.69**	6.30	166.39	6.00	166.69	6.38	166.31	6.27	166.42
MW-008-S	**178.17**	6.20	171.97	7.00	171.17	7.17	171.00	6.95	171.22
MW-010-S	**176.94**	5.51	171.43	6.48	170.46	6.87	170.07	4.30	172.64
MW-106-S	**152.00**	1.21	150.79	1.72	150.28	1.98	150.02	1.53	150.47
MW-108-S	**177.26**	6.75	170.51	6.53	170.73	7.70	169.56	7.47	169.79
MW-109-S	**174.53**	6.65	167.88	7.08	167.45	6.92	167.61	6.73	167.80
MW-110-SA	**180.15**	8.98	171.17	9.42	170.73	9.00	171.15	8.46	171.69
MW-111-S	**179.39**	8.60	170.79	8.42	170.97	8.42	170.97	7.53	171.86
MW-112-S	**180.16**	8.52	171.64	8.78	171.38	8.80	171.36	8.16	172.00
MW-113-S	**177.03**	6.47	170.56	6.08	170.95	6.33	170.70	6.18	170.85
MW-114-S	**176.92**	5.38	171.54	5.38	171.54	5.39	171.53	5.21	171.71
MW-115-S	**181.20**	8.12	173.08	8.11	173.09	8.21	172.99	7.94	173.26
MW-116-S	**181.28**	8.20	173.08	8.09	173.19	8.17	173.11	7.85	173.43
MW-117-S	**180.75**	5.77	174.98	5.79	174.96	5.57	175.18	5.34	175.41
MW-118-S	**182.96**	7.42	175.54	6.91	176.05	7.00	175.96	6.87	176.09
MW-119-S	**183.87**	8.00	175.87	7.37	176.50	7.50	176.37	7.42	176.45
MW-120-S	**185.20**	9.10	176.10	8.60	176.60	8.82	176.38	8.69	176.51
MW-122-S	**183.62**	4.79	178.83	4.78	178.84	4.82	178.80	4.63	178.99
MW-123-SA	**178.21**	3.02	175.19	3.09	175.12	2.98	175.23	2.76	175.45
MW-124-S	**179.14**	7.65	171.49	7.19	171.95	7.73	171.41	6.53	172.61
MW-125-S	**173.88**	11.28	162.60	11.22	162.66	12.48	161.40	6.60	167.28
MW-126-S	**180.64**	8.83	171.81	8.82	171.82	9.00	171.64	8.43	172.21
MW-161-S	**183.36**	5.00	178.36	5.08	178.28	5.13	178.23	3.45	179.91
MW-162-S	**184.36**	5.46	178.90	6.30	178.06	6.31	178.05	6.20	178.16
MW-163-S	**185.65**	8.55	177.10	7.59	178.06	7.66	177.99	7.59	178.06
MW-164-S	**182.31**	7.33	174.98	7.22	175.09	7.38	174.93	7.28	175.03
MW-169-S	**178.07**	6.97	171.10	7.29	170.78	7.35	170.72	7.21	170.86
MW-170-S	**174.36**	6.20	168.16	6.42	167.94	6.71	167.65	6.64	167.72
MW-171-S	**172.51**	4.30	168.21	4.62	167.89	4.68	167.83	3.82	168.69
MW-172-S	**171.68**	2.42	169.26	2.11	169.57	4.38	167.30	2.19	169.49
MW-173-S	**179.83**	12.45	167.38	11.92	167.91	11.11	168.72	10.76	169.07
MW-174-S	**179.89**	9.90	169.99	10.06	169.83	9.68	170.21	9.42	170.47
MW-175-S	**177.99**	7.54	170.45	7.32	170.67	7.36	170.63	7.17	170.82
MW-176-S	**177.55**	7.00	170.55	6.88	170.67	7.00	170.55	5.92	171.63
MW-177-S	**177.94**	7.46	170.48	7.31	170.63	7.82	170.12	6.75	171.19
MW-178-S	**179.29**	8.41	170.88	7.83	171.46	7.69	171.60	7.52	171.77
MW-180-S	**179.45**	6.52	172.93	6.78	172.67	6.32	173.13	5.69	173.76
MW-181-S	**177.38**	6.28	171.10	6.00	171.38	6.16	171.22	5.32	172.06
MW-182-S	**180.09**	9.47	170.62	9.25	170.84	9.22	170.87	8.88	171.21
MW-183-S	**174.38**	3.40	170.98	2.69	171.69	3.63	170.75	2.50	171.88
MW-184-SA	**171.30**	9.82	161.48	9.78	161.52	10.62	160.68	9.63	161.67
MW-185-SA	**176.88**	16.13	160.75	15.90	160.98	16.26	160.62	15.69	161.19
MW-186-S	**172.60**	3.18	169.42	3.68	168.92	3.52	169.08	2.88	169.72
MW-187-S	**170.82**	2.52	168.30	2.62	168.20	2.46	168.36	1.42	169.40
MW-188-S	**174.59**	7.42	167.17	7.00	167.59	7.47	167.12	7.37	167.22
MW-189-S	**175.52**	5.88	169.64	5.52	170.00	5.40	170.12	4.68	170.84
MW-201-S	**177.00**	8.33	168.67	7.91	169.09	8.38	168.62	8.30	168.70
MW-202-S	**173.29**	7.38	165.91	7.03	166.26	7.19	166.10	7.10	166.19
MW-203-S	**175.16**	12.62	162.54	12.36	162.80	Dry		12.22	162.94
MW-204-S	**173.93**	7.49	166.44	7.84	166.09	7.62	166.31	7.19	166.74
MW-206-S	**152.42**	3.30	149.12	3.65	148.77	3.65	148.77	3.13	149.29
MW-208-S	**152.31**	4.48	147.83	4.61	147.70	4.73	147.58	3.38	148.93
MW-209-S	**152.02**	5.73	146.29	6.00	146.02	6.25	145.77	4.92	147.10
MW-210-S	**151.99**	6.70	145.29	7.42	144.57	7.69	144.30	6.28	145.71
MW-232-M	**180.94**	9.49	171.45	9.15	171.79	9.21	171.73	9.08	171.86
MW-232-S	**181.03**	9.86	171.17	8.80	172.23	8.86	172.17	8.78	172.25
MW-250-M	**178.09**	4.88	173.21	4.30	173.79	4.49	173.60	4.00	174.09
MW-261-S	**178.85**	NM		NM		NM		NM	
MW-267-S	**178.77**	6.03	172.74	5.87	172.90	6.17	172.60	5.73	173.04
MW-269-S	**180.89**	9.80	171.09	8.73	172.16	9.20	171.69	8.00	172.89
MW-270-S	**180.48**	9.63	170.85	8.72	171.76	9.15	171.33	8.00	172.48
MW-274-S	**177.71**	5.62	172.09	5.62	172.09	5.73	171.98	5.60	172.11
MW-275-S	**180.97**	9.92	171.05	9.61	171.36	9.58	171.39	9.38	171.59
MW-278-S	**180.48**	10.85	169.63	10.68	169.80	11.22	169.26	10.38	170.10
MW-279-S	**180.23**	8.88	171.35	8.95	171.28	9.38	170.85	8.78	171.45
MW-282-S	**176.63**	5.75	170.88	5.79	170.84	6.00	170.63	5.72	170.91
MW-284-S	**174.77**	8.35	166.42	7.52	167.25	8.38	166.39	7.38	167.39
MW-285-S	**180.46**	9.89	170.57	8.93	171.53	9.27	171.19	8.62	171.84

Kingston Site
2021 Water Level Data

Well	Elevation	01/13/21		04/08/21		08/17/21		10/06/21	
	TOC	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE
MW-288-S	**180.22**	8.90	171.32	8.33	171.89	8.66	171.56	7.95	172.27
MW-297-S	**180.07**	9.28	170.79	9.25	170.82	8.65	171.42	8.35	171.72
MW-402-S	**173.94**	14.15	159.79	14.24	159.70	11.81	162.13	11.58	162.36
MW-403-S	**176.89**	15.81	161.08	15.50	161.39	Dry		15.63	161.26
MW-404-S	**171.17**	3.92	167.25	3.98	167.19	5.42	165.75	2.98	168.19
MW-405-S	**174.93**	5.42	169.51	5.78	169.15	6.22	168.71	4.92	170.01
MW-406-S	**175.85**	7.32	168.53	8.06	167.79	8.38	167.47	7.98	167.87
MW-407-S	**176.66**	7.42	169.24	7.48	169.18	7.10	169.56	6.83	169.83
MW-502-S	**180.90**	5.73	175.17	5.62	175.28	5.65	175.25	5.48	175.42
MW-503-S	**180.71**	6.68	174.03	6.81	173.90	6.96	173.75	6.47	174.24
MW-504-S	**177.11**	3.42	173.69	3.73	173.38	3.53	173.58	2.88	174.23
MW-505-S	**179.08**	4.99	174.09	6.51	172.57	6.22	172.86	4.92	174.16
MW-506-S	**180.14**	NM		NM		NM		NM	
MW-507-S	**178.61**	6.31	172.30	6.38	172.23	6.44	172.17	6.34	172.27
MW-508-SA	**169.89**	8.20	161.69	8.16	161.73	8.78	161.11	6.42	163.47
MW-602-S	**178.37**	7.82	170.55	7.51	170.86	7.60	170.77	7.51	170.86
MW-603-S	**174.74**	3.82	170.92	4.60	170.14	4.69	170.05	3.72	171.02
MW-604-S	**175.93**	6.12	169.81	6.20	169.73	6.10	169.83	5.65	170.28
MW-605-S	**176.06**	8.19	167.87	7.31	168.75	7.63	168.43	6.68	169.38
MW-607-S	**174.01**	Dry		Dry		Dry		10.90	163.11
MW-608-S	**170.23**	9.00	161.23	8.36	161.87	9.28	160.95	7.33	162.90
MW-609-S	**178.58**	7.85	170.73	7.68	170.90	7.72	170.86	7.53	171.05
MW-610-S	**178.05**	6.37	171.68	6.73	171.32	6.78	171.27	6.47	171.58
MW-612-S	**156.22**	4.28	151.94	3.50	152.72	4.95	151.27	2.38	153.84
MW-801-S	**152.27**	2.53	149.74	2.49	149.78	2.53	149.74	1.88	150.39
MW-802-S	**153.42**	1.38	152.04	1.33	152.09	2.02	151.40	1.00	152.42
MW-804-S	**152.74**	2.50	150.24	2.10	150.64	2.46	150.28	2.20	150.54
MW-806-S	**176.49**	3.30	173.19	3.00	173.49	3.22	173.27	2.79	173.70
MW-807-S	**177.63**	5.65	171.98	5.72	171.91	5.80	171.83	5.73	171.90
MW-810	**145.03**	0.68	144.35	0.60	144.43	0.99	144.04	0.17	144.86
MW-811S	**144.93**	0.91	144.02	1.40	143.53	1.53	143.40	0.77	144.16
MW-812	**146.73**	6.70	140.03	6.12	140.61	6.27	140.46	5.85	140.88
MW-814	**151.70**	8.13	143.57	7.90	143.80	8.03	143.67	6.52	145.18
MW-815	**156.30**	5.72	150.58	5.59	150.71	7.55	148.75	5.42	150.88
MW-816	**161.40**	7.90	153.50	8.20	153.20	8.66	152.74	7.90	153.50
MW-817	**160.53**	7.88	152.65	7.53	153.00	8.95	151.58	7.50	153.03
MW-819	**154.79**	1.01	153.78	0.21	154.58	0.53	154.26	0.41	154.38
MW-821	**154.70**	0.75	153.95	0.51	154.19	0.78	153.92	0.67	154.03
MW-A	**172.34**	11.01	161.33	10.32	162.02	10.39	161.95	10.18	162.16
TMP-6	**177.51**	8.00	169.51	7.72	169.79	8.31	169.20	7.58	169.93
TMP-7	**180.08**	9.50	170.58	9.32	170.76	9.27	170.81	8.63	171.45
TMP-8	**177.50**	7.28	170.22	7.08	170.42	6.85	170.65	6.35	171.15

NM = Not Measured, Damaged or Inaccessible

Appendix C

Groundwater Withdrawal Data Tables (GWCS and NPLA)

Former IBM Kingston Site
Groundwater Collection System and North Parking Lot Area Extraction Data

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)
1-Jan-21	1,967	1.4	54,540	39.2	56,507	39.2	46,174,540	577,844,245	624,018,786
2-Jan-21	2,354	1.6	55,524	40.2	57,878	40.2	46,176,894	577,899,769	624,076,664
3-Jan-21	2,242	1.6	54,793	39.6	57,035	39.6	46,179,136	577,954,562	624,133,699
4-Jan-21	2,180	1.5	54,712	39.5	56,892	39.5	46,181,316	578,009,274	624,190,591
5-Jan-21	2,120	1.5	53,656	38.7	55,776	38.7	46,183,436	578,062,930	624,246,367
6-Jan-21	2,070	1.4	54,268	39.1	56,338	39.1	46,185,506	578,117,198	624,302,705
7-Jan-21	1,973	1.4	53,964	38.8	55,937	38.8	46,187,479	578,171,162	624,358,642
8-Jan-21	1,894	1.3	52,639	37.9	54,533	37.9	46,189,373	578,223,801	624,413,175
9-Jan-21	1,808	1.3	52,507	37.7	54,315	37.7	46,191,181	578,276,308	624,467,490
10-Jan-21	1,820	1.3	53,184	38.2	55,004	38.2	46,193,001	578,329,492	624,522,494
11-Jan-21	1,829	1.3	50,975	36.7	52,804	36.7	46,194,830	578,380,467	624,575,298
12-Jan-21	1,808	1.3	51,709	37.2	53,517	37.2	46,196,638	578,432,176	624,628,815
13-Jan-21	1,817	1.3	50,407	36.3	52,224	36.3	46,198,455	578,482,583	624,681,039
14-Jan-21	1,820	1.3	49,813	35.9	51,633	35.9	46,200,275	578,532,396	624,732,672
15-Jan-21	1,814	1.3	49,418	35.6	51,232	35.6	46,202,089	578,581,814	624,783,904
16-Jan-21	2,065	1.4	47,568	34.5	49,633	34.5	46,204,154	578,629,382	624,833,537
17-Jan-21	2,013	1.4	49,449	35.7	51,462	35.7	46,206,167	578,678,831	624,884,999
18-Jan-21	1,928	1.3	49,091	35.4	51,019	35.4	46,208,095	578,727,922	624,936,018
19-Jan-21	1,791	1.2	48,238	34.7	50,029	34.7	46,209,886	578,776,160	624,986,047
20-Jan-21	1,796	1.2	48,162	34.7	49,958	34.7	46,211,682	578,824,322	625,036,005
21-Jan-21	1,847	1.3	45,503	32.9	47,350	32.9	46,213,529	578,869,825	625,083,355
22-Jan-21	1,782	1.2	47,575	34.3	49,357	34.3	46,215,311	578,917,400	625,132,712
23-Jan-21	1,784	1.2	47,700	34.4	49,484	34.4	46,217,095	578,965,100	625,182,196
24-Jan-21	1,842	1.3	46,705	33.7	48,547	33.7	46,218,937	579,011,805	625,230,743
25-Jan-21	1,763	1.2	45,994	33.2	47,757	33.2	46,220,700	579,057,799	625,278,500
26-Jan-21	1,779	1.2	44,773	32.3	46,552	32.3	46,222,479	579,102,572	625,325,052
27-Jan-21	1,766	1.2	46,363	33.4	48,129	33.4	46,224,245	579,148,935	625,373,181
28-Jan-21	1,894	1.3	44,806	32.4	46,700	32.4	46,226,139	579,193,741	625,419,881
29-Jan-21	1,868	1.3	44,943	32.5	46,811	32.5	46,228,007	579,238,684	625,466,692
30-Jan-21	1,909	1.3	44,448	32.2	46,357	32.2	46,229,916	579,283,132	625,513,049
31-Jan-21	1,931	1.3	43,992	31.9	45,923	31.9	46,231,847	579,327,124	625,558,972
1-Feb-21	1,901	1.3	42,348	30.7	44,249	30.7	46,233,748	579,369,472	625,603,221
2-Feb-21	1,896	1.3	41,726	30.3	43,622	30.3	46,235,644	579,411,198	625,646,843
3-Feb-21	1,882	1.3	43,523	31.5	45,405	31.5	46,237,526	579,454,721	625,692,248
4-Feb-21	1,872	1.3	42,908	31.1	44,780	31.1	46,239,398	579,497,629	625,737,028
5-Feb-21	1,887	1.3	41,728	30.3	43,615	30.3	46,241,285	579,539,357	625,780,643
6-Feb-21	1,934	1.3	43,335	31.4	45,269	31.4	46,243,219	579,582,692	625,825,912
7-Feb-21	1,880	1.3	41,301	30.0	43,181	30.0	46,245,099	579,623,993	625,869,093

Former IBM Kingston Site
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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)
8-Feb-21	1,891	1.3	41,577	30.2	43,468	30.2	46,246,990	579,665,570	625,912,561
9-Feb-21	1,928	1.3	41,022	29.8	42,950	29.8	46,248,918	579,706,592	625,955,511
10-Feb-21	1,926	1.3	40,741	29.6	42,667	29.6	46,250,844	579,747,333	625,998,178
11-Feb-21	1,925	1.3	40,281	29.3	42,206	29.3	46,252,769	579,787,614	626,040,384
12-Feb-21	1,922	1.3	40,146	29.2	42,068	29.2	46,254,691	579,827,760	626,082,452
13-Feb-21	1,924	1.3	39,267	28.6	41,191	28.6	46,256,615	579,867,027	626,123,643
14-Feb-21	1,920	1.3	39,732	28.9	41,652	28.9	46,258,535	579,906,759	626,165,295
15-Feb-21	1,970	1.4	38,630	28.2	40,600	28.2	46,260,505	579,945,389	626,205,895
16-Feb-21	1,901	1.3	38,725	28.2	40,626	28.2	46,262,406	579,984,114	626,246,521
17-Feb-21	2,100	1.5	39,670	29.0	41,770	29.0	46,264,506	580,023,784	626,288,291
18-Feb-21	2,001	1.4	39,056	28.5	41,057	28.5	46,266,507	580,062,840	626,329,348
19-Feb-21	1,937	1.3	38,326	28.0	40,263	28.0	46,268,444	580,101,166	626,369,611
20-Feb-21	1,932	1.3	39,293	28.6	41,225	28.6	46,270,376	580,140,459	626,410,836
21-Feb-21	1,922	1.3	38,656	28.2	40,578	28.2	46,272,298	580,179,115	626,451,414
22-Feb-21	1,962	1.4	37,158	27.2	39,120	27.2	46,274,260	580,216,273	626,490,534
23-Feb-21	1,908	1.3	38,550	28.1	40,458	28.1	46,276,168	580,254,823	626,530,992
24-Feb-21	1,968	1.4	37,327	27.3	39,295	27.3	46,278,136	580,292,150	626,570,287
25-Feb-21	2,314	1.6	39,577	29.1	41,891	29.1	46,280,450	580,331,727	626,612,178
26-Feb-21	2,431	1.7	38,722	28.6	41,153	28.6	46,282,881	580,370,449	626,653,331
27-Feb-21	2,402	1.7	38,897	28.7	41,299	28.7	46,285,283	580,409,346	626,694,630
28-Feb-21	2,074	1.4	38,776	28.4	40,850	28.4	46,287,357	580,448,122	626,735,480
1-Mar-21	2,987	2.1	40,075	29.9	43,062	29.9	46,290,344	580,488,197	626,778,542
2-Mar-21	2,454	1.7	41,997	30.9	44,451	30.9	46,292,798	580,530,194	626,822,993
3-Mar-21	2,413	1.7	42,350	31.1	44,763	31.1	46,295,211	580,572,544	626,867,756
4-Mar-21	2,358	1.6	43,467	31.8	45,825	31.8	46,297,569	580,616,011	626,913,581
5-Mar-21	2,185	1.5	44,300	32.3	46,485	32.3	46,299,754	580,660,311	626,960,066
6-Mar-21	2,043	1.4	45,646	33.1	47,689	33.1	46,301,797	580,705,957	627,007,755
7-Mar-21	1,928	1.3	45,497	32.9	47,425	32.9	46,303,725	580,751,454	627,055,180
8-Mar-21	1,944	1.4	45,240	32.8	47,184	32.8	46,305,669	580,796,694	627,102,364
9-Mar-21	1,838	1.3	45,841	33.1	47,679	33.1	46,307,507	580,842,535	627,150,043
10-Mar-21	1,927	1.3	45,158	32.7	47,085	32.7	46,309,434	580,887,693	627,197,128
11-Mar-21	1,901	1.3	43,805	31.7	45,706	31.7	46,311,335	580,931,498	627,242,834
12-Mar-21	1,820	1.3	46,265	33.4	48,085	33.4	46,313,155	580,977,763	627,290,919
13-Mar-21	1,885	1.3	45,756	33.1	47,641	33.1	46,315,040	581,023,519	627,338,560
14-Mar-21	1,821	1.3	45,767	33.0	47,588	33.0	46,316,861	581,069,286	627,386,148
15-Mar-21	1,829	1.3	46,068	33.3	47,897	33.3	46,318,690	581,115,354	627,434,045
16-Mar-21	1,818	1.3	44,943	32.5	46,761	32.5	46,320,508	581,160,297	627,480,806
17-Mar-21	1,824	1.3	44,353	32.1	46,177	32.1	46,322,332	581,204,650	627,526,983

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18-Mar-21	1,973	1.4	44,715	32.4	46,688	32.4	46,324,305	581,249,365	627,573,671
19-Mar-21	2,095	1.5	45,485	33.0	47,580	33.0	46,326,400	581,294,850	627,621,251
20-Mar-21	2,053	1.4	44,291	32.2	46,344	32.2	46,328,453	581,339,141	627,667,595
21-Mar-21	1,799	1.2	44,483	32.1	46,282	32.1	46,330,252	581,383,624	627,713,877
22-Mar-21	1,755	1.2	44,012	31.8	45,767	31.8	46,332,007	581,427,636	627,759,644
23-Mar-21	1,813	1.3	44,553	32.2	46,366	32.2	46,333,820	581,472,189	627,806,010
24-Mar-21	1,919	1.3	43,707	31.7	45,626	31.7	46,335,739	581,515,896	627,851,636
25-Mar-21	2,064	1.4	43,893	31.9	45,957	31.9	46,337,803	581,559,789	627,897,593
26-Mar-21	2,093	1.5	44,494	32.4	46,587	32.4	46,339,896	581,604,283	627,944,180
27-Mar-21	2,001	1.4	44,266	32.1	46,267	32.1	46,341,897	581,648,549	627,990,447
28-Mar-21	2,239	1.6	42,003	30.7	44,242	30.7	46,344,136	581,690,552	628,034,689
29-Mar-21	2,292	1.6	47,833	34.8	50,125	34.8	46,346,428	581,738,385	628,084,814
30-Mar-21	2,106	1.5	45,714	33.2	47,820	33.2	46,348,534	581,784,099	628,132,634
31-Mar-21	1,947	1.4	45,438	32.9	47,385	32.9	46,350,481	581,829,537	628,180,019
1-Apr-21	1,974	1.4	47,994	34.7	49,968	34.7	46,352,455	581,877,531	628,229,987
2-Apr-21	1,851	1.3	49,173	35.4	51,024	35.4	46,354,306	581,926,704	628,281,011
3-Apr-21	1,783	1.2	47,569	34.3	49,352	34.3	46,356,089	581,974,273	628,330,363
4-Apr-21	1,689	1.2	47,523	34.2	49,212	34.2	46,357,778	582,021,796	628,379,575
5-Apr-21	1,688	1.2	48,527	34.9	50,215	34.9	46,359,466	582,070,323	628,429,790
6-Apr-21	1,601	1.1	47,889	34.4	49,490	34.4	46,361,067	582,118,212	628,479,280
7-Apr-21	1,544	1.1	47,771	34.2	49,315	34.2	46,362,611	582,165,983	628,528,595
8-Apr-21	1,503	1.0	47,795	34.2	49,298	34.2	46,364,114	582,213,778	628,577,893
9-Apr-21	1,448	1.0	47,467	34.0	48,915	34.0	46,365,562	582,261,245	628,626,808
10-Apr-21	1,500	1.0	45,258	32.5	46,758	32.5	46,367,062	582,306,503	628,673,566
11-Apr-21	1,511	1.0	46,042	33.0	47,553	33.0	46,368,573	582,352,545	628,721,119
12-Apr-21	1,481	1.0	47,000	33.7	48,481	33.7	46,370,054	582,399,545	628,769,600
13-Apr-21	1,505	1.0	45,773	32.8	47,278	32.8	46,371,559	582,445,318	628,816,878
14-Apr-21	1,470	1.0	44,932	32.2	46,402	32.2	46,373,029	582,490,250	628,863,280
15-Apr-21	1,545	1.1	44,201	31.8	45,746	31.8	46,374,574	582,534,451	628,909,026
16-Apr-21	1,852	1.3	44,428	32.1	46,280	32.1	46,376,426	582,578,879	628,955,306
17-Apr-21	1,729	1.2	45,064	32.5	46,793	32.5	46,378,155	582,623,943	629,002,099
18-Apr-21	1,643	1.1	45,266	32.6	46,909	32.6	46,379,798	582,669,209	629,049,008
19-Apr-21	1,577	1.1	44,503	32.0	46,080	32.0	46,381,375	582,713,712	629,095,088
20-Apr-21	1,369	1.0	44,745	32.0	46,114	32.0	46,382,744	582,758,457	629,141,202
21-Apr-21	1,418	1.0	43,922	31.5	45,340	31.5	46,384,162	582,802,379	629,186,542
22-Apr-21	1,339	0.9	44,785	32.0	46,124	32.0	46,385,501	582,847,164	629,232,666
23-Apr-21	1,329	0.9	43,776	31.3	45,105	31.3	46,386,830	582,890,940	629,277,771
24-Apr-21	1,413	1.0	44,035	31.6	45,448	31.6	46,388,243	582,934,975	629,323,219

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25-Apr-21	1,307	0.9	43,478	31.1	44,785	31.1	46,389,550	582,978,453	629,368,004
26-Apr-21	1,288	0.9	44,246	31.6	45,534	31.6	46,390,838	583,022,699	629,413,538
27-Apr-21	1,381	1.0	42,363	30.4	43,744	30.4	46,392,219	583,065,062	629,457,282
28-Apr-21	1,274	0.9	42,456	30.4	43,730	30.4	46,393,493	583,107,518	629,501,012
29-Apr-21	1,392	1.0	41,316	29.7	42,708	29.7	46,394,885	583,148,834	629,543,720
30-Apr-21	1,580	1.1	43,084	31.0	44,664	31.0	46,396,465	583,191,918	629,588,384
1-May-21	1,489	1.0	43,265	31.1	44,754	31.1	46,397,954	583,235,183	629,633,138
2-May-21	1,362	0.9	42,518	30.5	43,880	30.5	46,399,316	583,277,701	629,677,018
3-May-21	1,347	0.9	42,170	30.2	43,517	30.2	46,400,663	583,319,871	629,720,535
4-May-21	1,646	1.1	42,338	30.5	43,984	30.5	46,402,309	583,362,209	629,764,519
5-May-21	3,886	2.7	45,099	34.0	48,985	34.0	46,406,195	583,407,308	629,813,504
6-May-21	1,863	1.3	46,784	33.8	48,647	33.8	46,408,058	583,454,092	629,862,151
7-May-21	1,693	1.2	47,531	34.2	49,224	34.2	46,409,751	583,501,623	629,911,375
8-May-21	1,544	1.1	48,352	34.7	49,896	34.7	46,411,295	583,549,975	629,961,271
9-May-21	1,454	1.0	48,470	34.7	49,924	34.7	46,412,749	583,598,445	630,011,195
10-May-21	1,721	1.2	50,194	36.1	51,915	36.1	46,414,470	583,648,639	630,063,110
11-May-21	1,665	1.2	49,724	35.7	51,389	35.7	46,416,135	583,698,363	630,114,499
12-May-21	1,402	1.0	50,696	36.2	52,098	36.2	46,417,537	583,749,059	630,166,597
13-May-21	1,409	1.0	50,208	35.8	51,617	35.8	46,418,946	583,799,267	630,218,214
14-May-21	1,341	0.9	51,085	36.4	52,426	36.4	46,420,287	583,850,352	630,270,640
15-May-21	1,277	0.9	50,090	35.7	51,367	35.7	46,421,564	583,900,442	630,322,007
16-May-21	1,270	0.9	50,553	36.0	51,823	36.0	46,422,834	583,950,995	630,373,830
17-May-21	1,231	0.9	50,275	35.8	51,506	35.8	46,424,065	584,001,270	630,425,336
18-May-21	1,213	0.8	49,627	35.3	50,840	35.3	46,425,278	584,050,897	630,476,176
19-May-21	1,228	0.9	49,381	35.1	50,609	35.1	46,426,506	584,100,278	630,526,785
20-May-21	1,327	0.9	49,366	35.2	50,693	35.2	46,427,833	584,149,644	630,577,478
21-May-21	1,134	0.8	47,967	34.1	49,101	34.1	46,428,967	584,197,611	630,626,579
22-May-21	1,217	0.8	47,046	33.5	48,263	33.5	46,430,184	584,244,657	630,674,842
23-May-21	1,272	0.9	47,736	34.0	49,008	34.0	46,431,456	584,292,393	630,723,850
24-May-21	1,227	0.9	47,828	34.1	49,055	34.1	46,432,683	584,340,221	630,772,905
25-May-21	1,321	0.9	45,947	32.8	47,268	32.8	46,434,004	584,386,168	630,820,173
26-May-21	1,616	1.1	45,995	33.1	47,611	33.1	46,435,620	584,432,163	630,867,784
27-May-21	1,534	1.1	46,432	33.3	47,966	33.3	46,437,154	584,478,595	630,915,750
28-May-21	1,274	0.9	45,586	32.5	46,860	32.5	46,438,428	584,524,181	630,962,610
29-May-21	1,248	0.9	48,249	34.4	49,497	34.4	46,439,676	584,572,430	631,012,107
30-May-21	1,453	1.0	48,048	34.4	49,501	34.4	46,441,129	584,620,478	631,061,608
31-May-21	1,411	1.0	50,526	36.1	51,937	36.1	46,442,540	584,671,004	631,113,545
1-Jun-21	948	0.7	50,971	36.1	51,919	36.1	46,443,488	584,721,975	631,165,464

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2-Jun-21	734	0.5	50,950	35.9	51,684	35.9	46,444,222	584,772,925	631,217,148
3-Jun-21	681	0.5	51,460	36.2	52,141	36.2	46,444,903	584,824,385	631,269,289
4-Jun-21	678	0.5	51,627	36.3	52,305	36.3	46,445,581	584,876,012	631,321,594
5-Jun-21	600	0.4	52,217	36.7	52,817	36.7	46,446,181	584,928,229	631,374,411
6-Jun-21	498	0.3	51,916	36.4	52,414	36.4	46,446,679	584,980,145	631,426,825
7-Jun-21	499	0.3	50,906	35.7	51,405	35.7	46,447,178	585,031,051	631,478,230
8-Jun-21	535	0.4	51,046	35.8	51,581	35.8	46,447,713	585,082,097	631,529,811
9-Jun-21	661	0.5	51,039	35.9	51,700	35.9	46,448,374	585,133,136	631,581,511
10-Jun-21	826	0.6	50,863	35.9	51,689	35.9	46,449,200	585,183,999	631,633,200
11-Jun-21	595	0.4	49,824	35.0	50,419	35.0	46,449,795	585,233,823	631,683,619
12-Jun-21	497	0.3	50,659	35.5	51,156	35.5	46,450,292	585,284,482	631,734,775
13-Jun-21	465	0.3	50,337	35.3	50,802	35.3	46,450,757	585,334,819	631,785,577
14-Jun-21	740	0.5	49,881	35.2	50,621	35.2	46,451,497	585,384,700	631,836,198
15-Jun-21	4,529	3.1	50,090	37.9	54,619	37.9	46,456,026	585,434,790	631,890,817
16-Jun-21	7,804	5.4	50,118	40.2	57,922	40.2	46,463,830	585,484,908	631,948,739
17-Jun-21	7,851	5.5	49,501	39.8	57,352	39.8	46,471,681	585,534,409	632,006,091
18-Jun-21	7,958	5.5	48,063	38.9	56,021	38.9	46,479,639	585,582,472	632,062,112
19-Jun-21	8,006	5.6	48,091	39.0	56,097	39.0	46,487,645	585,630,563	632,118,209
20-Jun-21	8,020	5.6	47,709	38.7	55,729	38.7	46,495,665	585,678,272	632,173,938
21-Jun-21	8,017	5.6	46,988	38.2	55,005	38.2	46,503,682	585,725,260	632,228,943
22-Jun-21	8,162	5.7	48,306	39.2	56,468	39.2	46,511,844	585,773,566	632,285,411
23-Jun-21	8,011	5.6	47,633	38.6	55,644	38.6	46,519,855	585,821,199	632,341,055
24-Jun-21	7,952	5.5	47,161	38.3	55,113	38.3	46,527,807	585,868,360	632,396,168
25-Jun-21	7,949	5.5	46,609	37.9	54,558	37.9	46,535,756	585,914,969	632,450,726
26-Jun-21	7,936	5.5	46,006	37.5	53,942	37.5	46,543,692	585,960,975	632,504,668
27-Jun-21	7,832	5.4	46,358	37.6	54,190	37.6	46,551,524	586,007,333	632,558,858
28-Jun-21	7,866	5.5	45,701	37.2	53,567	37.2	46,559,390	586,053,034	632,612,425
29-Jun-21	7,857	5.5	45,213	36.9	53,070	36.9	46,567,247	586,098,247	632,665,495
30-Jun-21	8,366	5.8	44,817	36.9	53,183	36.9	46,575,613	586,143,064	632,718,678
1-Jul-21	8,517	5.9	44,560	36.9	53,077	36.9	46,584,130	586,187,624	632,771,755
2-Jul-21	8,332	5.8	46,959	38.4	55,291	38.4	46,592,462	586,234,583	632,827,046
3-Jul-21	8,093	5.6	48,057	39.0	56,150	39.0	46,600,555	586,282,640	632,883,196
4-Jul-21	7,883	5.5	48,198	38.9	56,081	38.9	46,608,438	586,330,838	632,939,277
5-Jul-21	7,802	5.4	47,958	38.7	55,760	38.7	46,616,240	586,378,796	632,995,037
6-Jul-21	7,696	5.3	48,105	38.8	55,801	38.8	46,623,936	586,426,901	633,050,838
7-Jul-21	7,734	5.4	47,310	38.2	55,044	38.2	46,631,670	586,474,211	633,105,882
8-Jul-21	10,590	7.4	50,168	42.2	60,758	42.2	46,642,260	586,524,379	633,166,640
9-Jul-21	9,459	6.6	54,921	44.7	64,380	44.7	46,651,719	586,579,300	633,231,020

Former IBM Kingston Site
Groundwater Collection System and North Parking Lot Area Extraction Data

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)
10-Jul-21	8,785	6.1	61,468	48.8	70,253	48.8	46,660,504	586,640,768	633,301,273
11-Jul-21	8,139	5.7	64,096	50.2	72,235	50.2	46,668,643	586,704,864	633,373,508
12-Jul-21	9,896	6.9	68,313	54.3	78,209	54.3	46,678,539	586,773,177	633,451,717
13-Jul-21	8,445	5.9	75,046	58.0	83,491	58.0	46,686,984	586,848,223	633,535,208
14-Jul-21	8,166	5.7	77,372	59.4	85,538	59.4	46,695,150	586,925,595	633,620,746
15-Jul-21	7,718	5.4	77,544	59.2	85,262	59.2	46,702,868	587,003,139	633,706,008
16-Jul-21	7,466	5.2	77,175	58.8	84,641	58.8	46,710,334	587,080,314	633,790,649
17-Jul-21	8,508	5.9	76,180	58.8	84,688	58.8	46,718,842	587,156,494	633,875,337
18-Jul-21	7,868	5.5	67,642	52.4	75,510	52.4	46,726,710	587,224,136	633,950,847
19-Jul-21	4,918	3.4	39,777	31.0	44,695	31.0	46,731,628	587,263,913	633,995,542
20-Jul-21	7,458	5.2	84,459	63.8	91,917	63.8	46,739,086	587,348,372	634,087,459
21-Jul-21	6,944	4.8	84,804	63.7	91,748	63.7	46,746,030	587,433,176	634,179,207
22-Jul-21	6,673	4.6	84,850	63.6	91,523	63.6	46,752,703	587,518,026	634,270,730
23-Jul-21	6,568	4.6	84,743	63.4	91,311	63.4	46,759,271	587,602,769	634,362,041
24-Jul-21	6,436	4.5	84,743	63.3	91,179	63.3	46,765,707	587,687,512	634,453,220
25-Jul-21	6,328	4.4	84,705	63.2	91,033	63.2	46,772,035	587,772,217	634,544,253
26-Jul-21	6,113	4.2	84,717	63.1	90,830	63.1	46,778,148	587,856,934	634,635,083
27-Jul-21	6,047	4.2	84,601	63.0	90,648	63.0	46,784,195	587,941,535	634,725,731
28-Jul-21	5,930	4.1	84,116	62.5	90,046	62.5	46,790,125	588,025,651	634,815,777
29-Jul-21	6,005	4.2	78,516	58.7	84,521	58.7	46,796,130	588,104,167	634,900,298
30-Jul-21	6,112	4.2	76,839	57.6	82,951	57.6	46,802,242	588,181,006	634,983,249
31-Jul-21	6,056	4.2	75,483	56.6	81,539	56.6	46,808,298	588,256,489	635,064,788
1-Aug-21	6,150	4.3	74,341	55.9	80,491	55.9	46,814,448	588,330,830	635,145,279
2-Aug-21	5,995	4.2	74,213	55.7	80,208	55.7	46,820,443	588,405,043	635,225,487
3-Aug-21	6,087	4.2	73,088	55.0	79,175	55.0	46,826,530	588,478,131	635,304,662
4-Aug-21	6,052	4.2	70,625	53.2	76,677	53.2	46,832,582	588,548,756	635,381,339
5-Aug-21	6,082	4.2	68,039	51.5	74,121	51.5	46,838,664	588,616,795	635,455,460
6-Aug-21	6,030	4.2	66,554	50.4	72,584	50.4	46,844,694	588,683,349	635,528,044
7-Aug-21	6,083	4.2	64,977	49.3	71,060	49.3	46,850,777	588,748,326	635,599,104
8-Aug-21	5,888	4.1	64,101	48.6	69,989	48.6	46,856,665	588,812,427	635,669,093
9-Aug-21	5,885	4.1	62,653	47.6	68,538	47.6	46,862,550	588,875,080	635,737,631
10-Aug-21	5,865	4.1	60,915	46.4	66,780	46.4	46,868,415	588,935,995	635,804,411
11-Aug-21	5,749	4.0	60,147	45.8	65,896	45.8	46,874,164	588,996,142	635,870,307
12-Aug-21	5,777	4.0	59,189	45.1	64,966	45.1	46,879,941	589,055,331	635,935,273
13-Aug-21	5,783	4.0	58,234	44.5	64,017	44.5	46,885,724	589,113,565	635,999,290
14-Aug-21	5,691	4.0	57,777	44.1	63,468	44.1	46,891,415	589,171,342	636,062,758
15-Aug-21	5,730	4.0	57,039	43.6	62,769	43.6	46,897,145	589,228,381	636,125,527
16-Aug-21	5,662	3.9	55,827	42.7	61,489	42.7	46,902,807	589,284,208	636,187,016

Former IBM Kingston Site
Groundwater Collection System and North Parking Lot Area Extraction Data

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17-Aug-21	5,477	3.8	55,930	42.6	61,407	42.6	46,908,284	589,340,138	636,248,423
18-Aug-21	5,585	3.9	54,435	41.7	60,020	41.7	46,913,869	589,394,573	636,308,443
19-Aug-21	6,696	4.7	54,279	42.3	60,975	42.3	46,920,565	589,448,852	636,369,418
20-Aug-21	5,972	4.1	54,730	42.2	60,702	42.2	46,926,537	589,503,582	636,430,120
21-Aug-21	5,581	3.9	54,081	41.4	59,662	41.4	46,932,118	589,557,663	636,489,782
22-Aug-21	5,961	4.1	53,779	41.5	59,740	41.5	46,938,079	589,611,442	636,549,522
23-Aug-21	8,240	5.7	56,115	44.7	64,355	44.7	46,946,319	589,667,557	636,613,877
24-Aug-21	6,787	4.7	60,574	46.8	67,361	46.8	46,953,106	589,728,131	636,681,238
25-Aug-21	6,177	4.3	61,029	46.7	67,206	46.7	46,959,283	589,789,160	636,748,444
26-Aug-21	5,922	4.1	60,890	46.4	66,812	46.4	46,965,205	589,850,050	636,815,256
27-Aug-21	5,711	4.0	60,948	46.3	66,659	46.3	46,970,916	589,910,998	636,881,915
28-Aug-21	5,473	3.8	60,692	45.9	66,165	45.9	46,976,389	589,971,690	636,948,080
29-Aug-21	5,336	3.7	59,857	45.3	65,193	45.3	46,981,725	590,031,547	637,013,273
30-Aug-21	5,330	3.7	58,753	44.5	64,083	44.5	46,987,055	590,090,300	637,077,356
31-Aug-21	5,261	3.7	58,629	44.4	63,890	44.4	46,992,316	590,148,929	637,141,246
1-Sep-21	5,977	4.2	58,361	44.7	64,338	44.7	46,998,293	590,207,290	637,205,584
2-Sep-21	7,384	5.1	63,990	49.6	71,374	49.6	47,005,677	590,271,280	637,276,958
3-Sep-21	5,749	4.0	67,701	51.0	73,450	51.0	47,011,426	590,338,981	637,350,408
4-Sep-21	5,376	3.7	68,790	51.5	74,166	51.5	47,016,802	590,407,771	637,424,574
5-Sep-21	5,206	3.6	69,128	51.6	74,334	51.6	47,022,008	590,476,899	637,498,908
6-Sep-21	4,997	3.5	69,411	51.7	74,408	51.7	47,027,005	590,546,310	637,573,316
7-Sep-21	4,870	3.4	68,734	51.1	73,604	51.1	47,031,875	590,615,044	637,646,920
8-Sep-21	4,822	3.3	67,110	50.0	71,932	50.0	47,036,697	590,682,154	637,718,852
9-Sep-21	5,350	3.7	67,767	50.8	73,117	50.8	47,042,047	590,749,921	637,791,969
10-Sep-21	5,027	3.5	68,463	51.0	73,490	51.0	47,047,074	590,818,384	637,865,459
11-Sep-21	4,820	3.3	67,385	50.1	72,205	50.1	47,051,894	590,885,769	637,937,664
12-Sep-21	4,665	3.2	66,142	49.2	70,807	49.2	47,056,559	590,951,911	638,008,471
13-Sep-21	4,657	3.2	65,228	48.5	69,885	48.5	47,061,216	591,017,139	638,078,356
14-Sep-21	4,562	3.2	64,690	48.1	69,252	48.1	47,065,778	591,081,829	638,147,608
15-Sep-21	4,584	3.2	63,884	47.5	68,468	47.5	47,070,362	591,145,713	638,216,076
16-Sep-21	5,046	3.5	64,232	48.1	69,278	48.1	47,075,408	591,209,945	638,285,354
17-Sep-21	4,780	3.3	63,315	47.3	68,095	47.3	47,080,188	591,273,260	638,353,449
18-Sep-21	4,560	3.2	63,370	47.2	67,930	47.2	47,084,748	591,336,630	638,421,379
19-Sep-21	4,508	3.1	63,120	47.0	67,628	47.0	47,089,256	591,399,750	638,489,007
20-Sep-21	4,477	3.1	62,455	46.5	66,932	46.5	47,093,733	591,462,205	638,555,939
21-Sep-21	4,446	3.1	61,456	45.8	65,902	45.8	47,098,179	591,523,661	638,621,841
22-Sep-21	4,390	3.0	59,874	44.6	64,264	44.6	47,102,569	591,583,535	638,686,105
23-Sep-21	4,834	3.4	60,633	45.5	65,467	45.5	47,107,403	591,644,168	638,751,572

Former IBM Kingston Site
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24-Sep-21	6,184	4.3	63,540	48.4	69,724	48.4	47,113,587	591,707,708	638,821,296
25-Sep-21	4,791	3.3	65,506	48.8	70,297	48.8	47,118,378	591,773,214	638,891,593
26-Sep-21	4,420	3.1	66,812	49.5	71,232	49.5	47,122,798	591,840,026	638,962,825
27-Sep-21	4,215	2.9	66,937	49.4	71,152	49.4	47,127,013	591,906,963	639,033,977
28-Sep-21	4,121	2.9	67,340	49.6	71,461	49.6	47,131,134	591,974,303	639,105,438
29-Sep-21	4,003	2.8	67,101	49.4	71,104	49.4	47,135,137	592,041,404	639,176,542
30-Sep-21	3,909	2.7	66,237	48.7	70,146	48.7	47,139,046	592,107,641	639,246,688
1-Oct-21	3,861	2.7	65,156	47.9	69,017	47.9	47,142,907	592,172,797	639,315,705
2-Oct-21	3,860	2.7	63,578	46.8	67,438	46.8	47,146,767	592,236,375	639,383,143
3-Oct-21	3,861	2.7	62,671	46.2	66,532	46.2	47,150,628	592,299,046	639,449,675
4-Oct-21	4,798	3.3	63,683	47.6	68,481	47.6	47,155,426	592,362,729	639,518,156
5-Oct-21	4,735	3.3	65,236	48.6	69,971	48.6	47,160,161	592,427,965	639,588,127
6-Oct-21	4,242	2.9	66,691	49.3	70,933	49.3	47,164,403	592,494,656	639,659,060
7-Oct-21	4,060	2.8	66,228	48.8	70,288	48.8	47,168,463	592,560,884	639,729,348
8-Oct-21	3,844	2.7	66,613	48.9	70,457	48.9	47,172,307	592,627,497	639,799,805
9-Oct-21	3,703	2.6	66,847	49.0	70,550	49.0	47,176,010	592,694,344	639,870,355
10-Oct-21	3,677	2.6	65,293	47.9	68,970	47.9	47,179,687	592,759,637	639,939,325
11-Oct-21	3,587	2.5	64,629	47.4	68,216	47.4	47,183,274	592,824,266	640,007,541
12-Oct-21	3,595	2.5	64,202	47.1	67,797	47.1	47,186,869	592,888,468	640,075,338
13-Oct-21	3,647	2.5	62,860	46.2	66,507	46.2	47,190,516	592,951,328	640,141,845
14-Oct-21	3,587	2.5	62,066	45.6	65,653	45.6	47,194,103	593,013,394	640,207,498
15-Oct-21	3,578	2.5	61,526	45.2	65,104	45.2	47,197,681	593,074,920	640,272,602
16-Oct-21	3,614	2.5	60,305	44.4	63,919	44.4	47,201,295	593,135,225	640,336,521
17-Oct-21	3,791	2.6	61,501	45.3	65,292	45.3	47,205,086	593,196,726	640,401,813
18-Oct-21	3,596	2.5	61,091	44.9	64,687	44.9	47,208,682	593,257,817	640,466,500
19-Oct-21	3,595	2.5	59,782	44.0	63,377	44.0	47,212,277	593,317,599	640,529,877
20-Oct-21	3,504	2.4	60,337	44.3	63,841	44.3	47,215,781	593,377,936	640,593,718
21-Oct-21	3,569	2.5	58,536	43.1	62,105	43.1	47,219,350	593,436,472	640,655,823
22-Oct-21	3,576	2.5	58,647	43.2	62,223	43.2	47,222,926	593,495,119	640,718,046
23-Oct-21	3,645	2.5	58,627	43.2	62,272	43.2	47,226,571	593,553,746	640,780,318
24-Oct-21	3,680	2.6	57,677	42.6	61,357	42.6	47,230,251	593,611,423	640,841,675
25-Oct-21	3,687	2.6	56,160	41.6	59,847	41.6	47,233,938	593,667,583	640,901,522
26-Oct-21	7,428	5.2	58,290	45.6	65,718	45.6	47,241,366	593,725,873	640,967,240
27-Oct-21	5,133	3.6	67,777	50.6	72,910	50.6	47,246,499	593,793,650	641,040,150
28-Oct-21	4,124	2.9	71,768	52.7	75,892	52.7	47,250,623	593,865,418	641,116,042
29-Oct-21	3,830	2.7	72,765	53.2	76,595	53.2	47,254,453	593,938,183	641,192,637
30-Oct-21	3,871	2.7	72,806	53.2	76,677	53.2	47,258,324	594,010,989	641,269,314
31-Oct-21	3,790	2.6	73,620	53.8	77,410	53.8	47,262,114	594,084,609	641,346,724

Former IBM Kingston Site
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1-Nov-21	3,626	2.5	74,438	54.2	78,064	54.2	47,265,740	594,159,047	641,424,788
2-Nov-21	3,552	2.5	73,549	53.5	77,101	53.5	47,269,292	594,232,596	641,501,889
3-Nov-21	3,436	2.4	73,344	53.3	76,780	53.3	47,272,728	594,305,940	641,578,669
4-Nov-21	3,411	2.4	72,413	52.7	75,824	52.7	47,276,139	594,378,353	641,654,493
5-Nov-21	3,431	2.4	71,881	52.3	75,312	52.3	47,279,570	594,450,234	641,729,805
6-Nov-21	3,495	2.4	69,063	50.4	72,558	50.4	47,283,065	594,519,297	641,802,363
7-Nov-21	3,400	2.4	67,556	49.3	70,956	49.3	47,286,465	594,586,853	641,873,319
7-Nov-21	3,440	2.4	67,421	49.2	70,861	49.2	47,289,905	594,654,274	641,944,180
8-Nov-21	3,445	2.4	65,612	48.0	69,057	48.0	47,293,350	594,719,886	642,013,237
9-Nov-21	3,509	2.4	65,296	47.8	68,805	47.8	47,296,859	594,785,182	642,082,042
10-Nov-21	3,509	2.4	64,066	46.9	67,575	46.9	47,300,368	594,849,248	642,149,617
11-Nov-21	3,949	2.7	62,019	45.8	65,968	45.8	47,304,317	594,911,267	642,215,585
12-Nov-21	3,895	2.7	62,111	45.8	66,006	45.8	47,308,212	594,973,378	642,281,591
13-Nov-21	3,837	2.7	63,460	46.7	67,297	46.7	47,312,049	595,036,838	642,348,888
14-Nov-21	3,622	2.5	62,772	46.1	66,394	46.1	47,315,671	595,099,610	642,415,282
15-Nov-21	3,581	2.5	63,744	46.8	67,325	46.8	47,319,252	595,163,354	642,482,607
16-Nov-21	3,553	2.5	61,622	45.3	65,175	45.3	47,322,805	595,224,976	642,547,782
17-Nov-21	3,561	2.5	60,911	44.8	64,472	44.8	47,326,366	595,285,887	642,612,254
18-Nov-21	3,521	2.4	62,760	46.0	66,281	46.0	47,329,887	595,348,647	642,678,535
19-Nov-21	3,572	2.5	60,174	44.3	63,746	44.3	47,333,459	595,408,821	642,742,281
20-Nov-21	3,543	2.5	59,369	43.7	62,912	43.7	47,337,002	595,468,190	642,805,193
21-Nov-21	3,549	2.5	59,321	43.7	62,870	43.7	47,340,551	595,527,511	642,868,063
22-Nov-21	3,450	2.4	59,943	44.0	63,393	44.0	47,344,001	595,587,454	642,931,456
23-Nov-21	0	0.0	0	0.0		0.0	47,344,001	595,587,454	642,931,456
24-Nov-21	0	0.0	0	0.0		0.0	47,344,001	595,587,454	642,931,456
25-Nov-21	0	0.0	0	0.0	0	0.0	47,344,001	595,587,454	642,931,456
26-Nov-21	857	0.6	27,801	19.9	28,658	19.9	47,344,858	595,615,255	642,960,114
27-Nov-21	2,247	1.6	85,599	61.0	87,846	61.0	47,347,105	595,700,854	643,047,960
28-Nov-21	5,006	3.5	73,712	54.7	78,718	54.7	47,352,111	595,774,566	643,126,678
29-Nov-21	3,281	2.3	59,509	43.6	62,790	43.6	47,355,392	595,834,075	643,189,468
30-Nov-21	2,535	1.8	84,107	60.2	86,642	60.2	47,357,927	595,918,182	643,276,110
1-Dec-21	3,168	2.2	70,553	51.2	73,721	51.2	47,361,095	595,988,735	643,349,831
2-Dec-21	3,101	2.2	58,998	43.1	62,099	43.1	47,364,196	596,047,733	643,411,930
3-Dec-21	3,559	2.5	48,136	35.9	51,695	35.9	47,367,755	596,095,869	643,463,625
4-Dec-21	3,115	2.2	57,460	42.1	60,575	42.1	47,370,870	596,153,329	643,524,200
5-Dec-21	4,063	2.8	67,569	49.7	71,632	49.7	47,374,933	596,220,898	643,595,832
6-Dec-21	3,370	2.3	46,552	34.7	49,922	34.7	47,378,303	596,267,450	643,645,754
7-Dec-21	3,871	2.7	48,249	36.2	52,120	36.2	47,382,174	596,315,699	643,697,874

Former IBM Kingston Site
Groundwater Collection System and North Parking Lot Area Extraction Data

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)
8-Dec-21	3,381	2.3	44,984	33.6	48,365	33.6	47,385,555	596,360,683	643,746,239
9-Dec-21	3,360	2.3	45,167	33.7	48,527	33.7	47,388,915	596,405,850	643,794,766
10-Dec-21	2,883	2.0	62,454	45.4	65,337	45.4	47,391,798	596,468,304	643,860,103
11-Dec-21	2,902	2.0	64,961	47.1	67,863	47.1	47,394,700	596,533,265	643,927,966
12-Dec-21	3,099	2.2	57,442	42.0	60,541	42.0	47,397,799	596,590,707	643,988,507
13-Dec-21	3,119	2.2	56,329	41.3	59,448	41.3	47,400,918	596,647,036	644,047,955
14-Dec-21	3,137	2.2	55,315	40.6	58,452	40.6	47,404,055	596,702,351	644,106,407
15-Dec-21	3,384	2.4	23,993	19.0	27,377	19.0	47,407,439	596,726,344	644,133,784
16-Dec-21	3,296	2.3	46,485	34.6	49,781	34.6	47,410,735	596,772,829	644,183,565
17-Dec-21	3,035	2.1	47,893	35.4	50,928	35.4	47,413,770	596,820,722	644,234,493
18-Dec-21	6,855	4.8	31,493	26.6	38,348	26.6	47,420,625	596,852,215	644,272,841
19-Dec-21	3,248	2.3	46,377	34.5	49,625	34.5	47,423,873	596,898,592	644,322,466
20-Dec-21	3,240	2.3	54,331	40.0	57,571	40.0	47,427,113	596,952,923	644,380,037
21-Dec-21	3,414	2.4	58,309	42.9	61,723	42.9	47,430,527	597,011,232	644,441,760
22-Dec-21	4,426	3.1	53,751	40.4	58,177	40.4	47,434,953	597,064,983	644,499,937
23-Dec-21	4,781	3.3	53,390	40.4	58,171	40.4	47,439,734	597,118,373	644,558,108
24-Dec-21	5,219	3.6	51,570	39.4	56,789	39.4	47,444,953	597,169,943	644,614,897
25-Dec-21	5,675	3.9	50,023	38.7	55,698	38.7	47,450,628	597,219,966	644,670,595
26-Dec-21	6,342	4.4	51,695	40.3	58,037	40.3	47,456,970	597,271,661	644,728,632
27-Dec-21	6,448	4.5	49,617	38.9	56,065	38.9	47,463,418	597,321,278	644,784,697
28-Dec-21	6,833	4.7	49,921	39.4	56,754	39.4	47,470,251	597,371,199	644,841,451
29-Dec-21	6,665	4.6	49,625	39.1	56,290	39.1	47,476,916	597,420,824	644,897,741
30-Dec-21	6,857	4.8	48,836	38.7	55,693	38.7	47,483,773	597,469,660	644,953,434
31-Dec-21	6,786	4.7	48,417	38.3	55,203	38.3	47,490,559	597,518,077	645,008,637

Appendix D

Groundwater Extraction and Treatment System Data Report including Flux Calculations

Former IBM Kingston Facility
Groundwater Treatment System Effectiveness Data
January 1, 2021 - December 31, 2021

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		01/07/2021	01/14/2021	02/04/2021	02/11/2021	03/04/2021	03/11/2021
Laboratory Sample I.D.		420-188790-3	420-189291-2	420-190434-3	420-190897-2	420-192381-3	420-192820-2
Sample Comment Codes							
Parameter	**Units**						
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
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
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	16	15	19	26	18	11
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	11	10	14	20	7.6	4.8
1,1-DICHLOROETHYLENE	ug/l	8.7	8.2	9.6	14	4.1	2.7
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	14	14	15	29	20
1,2-DICHLOROPROPANE	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, 2021 - December 31, 2021

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		01/07/2021	01/14/2021	02/04/2021	02/11/2021	03/04/2021	03/11/2021
Laboratory Sample I.D.		420-188790-3	420-189291-2	420-190434-3	420-190897-2	420-192381-3	420-192820-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	ND@1	ND@1	ND@1	ND@1	1.5	ND@1
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	49	46	50	170 D	190 D	130 D
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, 2021 - December 31, 2021

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		04/01/2021	04/08/2021	05/06/2021	05/13/2021	06/03/2021	06/10/2021
Laboratory Sample I.D.		420-194229-3	420-194695-2	420-196843-3	420-197439-2	420-198849-3	420-199465-2
Sample Comment Codes							
Parameter	**Units**						
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
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
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	12	20	13	21	23	21
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	6.1	15	5.3	13	21	15
1,1-DICHLOROETHYLENE	ug/l	3.2	11	2.8	12	17	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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHYLENE, TOTAL	ug/l	23	20	20	16	18	18
1,2-DICHLOROPROPANE	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, 2021 - December 31, 2021

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		04/01/2021	04/08/2021	05/06/2021	05/13/2021	06/03/2021	06/10/2021
Laboratory Sample I.D.		420-194229-3	420-194695-2	420-196843-3	420-197439-2	420-198849-3	420-199465-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	1.0	ND@1	1.2	ND@1	ND@1	1.1
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	64 D	59 D	100 D	76 D	76 D	80 D
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, 2021 - December 31, 2021

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		07/01/2021	07/08/2021	08/06/2021	08/12/2021	09/02/2021	09/10/2021
Laboratory Sample I.D.		420-201121-3	420-201605-2	420-203638-3	420-204092-2	420-205655-3	420-206214-2
Sample Comment Codes							
Parameter	**Units**						
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
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
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	20	25	11	18	13	18
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	8.0	18	4.2	14	5.7	7.1
1,1-DICHLOROETHYLENE	ug/l	4.4	13	2.7	13	2.7	4.3
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	27	22	14	11	19	21
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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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		07/01/2021	07/08/2021	08/06/2021	08/12/2021	09/02/2021	09/10/2021
Laboratory Sample I.D.		420-201121-3	420-201605-2	420-203638-3	420-204092-2	420-205655-3	420-206214-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	1.7	ND@1	ND@1	1.1	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	140 D	100 D	56 D	36	56 D	110 D
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

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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		10/07/2021	10/14/2021	11/04/2021	11/11/2021	12/09/2021	12/16/2021
Laboratory Sample I.D.		420-208385-3	420-208878-2	420-210396-3	420-210930-2	420-212882-3	420-213373-2
Sample Comment Codes							
Parameter	**Units**						
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
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
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	14	21	15	18	24	23
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	7.0	24	6.5	16	17	9.5
1,1-DICHLOROETHYLENE	ug/l	3.0	14	3.9	11	9.5	5.7
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	17	14	17	15	21	21
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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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		10/07/2021	10/14/2021	11/04/2021	11/11/2021	12/09/2021	12/16/2021
Laboratory Sample I.D.		420-208385-3	420-208878-2	420-210396-3	420-210930-2	420-212882-3	420-213373-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	ND@1	ND@1	ND@1	ND@1	ND@1	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	43 D	47	43 D	49	54 D	55 D
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

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Sample Location		NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/07/2021	02/04/2021	03/04/2021	04/01/2021	05/06/2021	06/03/2021
Laboratory Sample I.D.		420-188790-2	420-190434-2	420-192381-2	420-194229-2	420-196843-2	420-198849-2
Sample Comment Codes							
Parameter	**Units**						
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
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
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	2.7	ND@1	1.1	2.0	1.6	1.1
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	5.5	ND@1	2.0	3.6	2.2	2.1
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	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	3.8	ND@1	1.6	2.6	1.3	1.5
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/07/2021	02/04/2021	03/04/2021	04/01/2021	05/06/2021	06/03/2021
Laboratory Sample I.D.		420-188790-2	420-190434-2	420-192381-2	420-194229-2	420-196843-2	420-198849-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	ND@1	1.6	ND@1	ND@1	ND@1	ND@1
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	2.3	1.5	1.6	1.9	1.4	1.2
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

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Sample Location		NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		07/01/2021	08/06/2021	09/02/2021	10/07/2021	11/04/2021	12/09/2021
Laboratory Sample I.D.		420-201121-2	420-203638-2	420-205655-2	420-208385-2	420-210396-2	420-212882-2
Sample Comment Codes							
Parameter	**Units**						
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
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
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	4.4	7.3	9.1	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	3.8	18	17	1.7	1.9	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	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	5.8	4.3	9.1	ND@1	1.1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL	NPLA INFL
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		07/01/2021	08/06/2021	09/02/2021	10/07/2021	11/04/2021	12/09/2021
Laboratory Sample I.D.		420-201121-2	420-203638-2	420-205655-2	420-208385-2	420-210396-2	420-212882-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	1.6	ND@1	ND@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	4.4	5.2	7.7	ND@1	ND@1	2.0
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

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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		01/07/2021	01/14/2021	02/04/2021	02/11/2021	03/04/2021	03/11/2021
Laboratory Sample I.D.		420-188790-1	420-189291-1	420-190434-1	420-190897-1	420-192381-1	420-192820-1
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	8.14	8.67	8.10	8.26	8.84	8.21
TEMPERATURE	C	14.3	13.3	13.7	12.7	13.4	14.2
TOTAL DISSOLVED SOLIDS	mg/l	320	NA	530	NA	NA	430
TOTAL SUSPENDED SOLIDS	mg/l	ND@1.1	NA	ND@1.0	NA	NA	ND@1.0
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
Metals							
LEAD, TOTAL	mg/l	ND@0.0010	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	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	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

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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		01/07/2021	01/14/2021	02/04/2021	02/11/2021	03/04/2021	03/11/2021
Laboratory Sample I.D.		420-188790-1	420-189291-1	420-190434-1	420-190897-1	420-192381-1	420-192820-1
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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

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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		04/01/2021	04/08/2021	05/06/2021	05/13/2021	06/03/2021	06/10/2021
Laboratory Sample I.D.		420-194229-1	420-194695-1	420-196843-1	420-197439-1	420-198849-1	420-199465-1
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	8.62	8.40	7.94	8.11	6.85	7.90
TEMPERATURE	C	13.0	14.1	13.7	14.6	15.3	16.7
TOTAL DISSOLVED SOLIDS	mg/l	450	NA	470	NA	350	NA
TOTAL SUSPENDED SOLIDS	mg/l	2.2	NA	3.2	NA	1.1	NA
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
Metals							
LEAD, TOTAL	mg/l	ND@0.0010	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	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	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

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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		04/01/2021	04/08/2021	05/06/2021	05/13/2021	06/03/2021	06/10/2021
Laboratory Sample I.D.		420-194229-1	420-194695-1	420-196843-1	420-197439-1	420-198849-1	420-199465-1
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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

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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		07/01/2021	07/08/2021	08/06/2021	08/12/2021	09/02/2021	09/10/2021
Laboratory Sample I.D.		420-201121-1	420-201605-1	420-203638-1	420-204092-1	420-205655-1	420-206214-1
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.90	8.21	8.14	8.40	8.25	7.21
TEMPERATURE	C	20.3	18.1	22.9	21.9	19.6	20.2
TOTAL DISSOLVED SOLIDS	mg/l	200	NA	300	NA	460	NA
TOTAL SUSPENDED SOLIDS	mg/l	4.4	NA	12	NA	1.1	NA
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
Metals							
LEAD, TOTAL	mg/l	ND@0.0010	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	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	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

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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		07/01/2021	07/08/2021	08/06/2021	08/12/2021	09/02/2021	09/10/2021
Laboratory Sample I.D.		420-201121-1	420-201605-1	420-203638-1	420-204092-1	420-205655-1	420-206214-1
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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

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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		10/07/2021	10/14/2021	11/04/2021	11/11/2021	12/09/2021	12/16/2021
Laboratory Sample I.D.		420-208385-1	420-208878-1	420-210396-1	420-210930-1	420-212882-1	420-213373-1
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.76	8.15	8.30	8.26	8.62	8.03
TEMPERATURE	C	19.0	19.5	16.5	16.5	14.1	16.6
TOTAL DISSOLVED SOLIDS	mg/l	360	NA	180	NA	180	NA
TOTAL SUSPENDED SOLIDS	mg/l	ND@4.0	NA	1.7	NA	ND@1.0	NA
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
Metals							
LEAD, TOTAL	mg/l	ND@0.0010	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	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	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

Former IBM Kingston Facility
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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		10/07/2021	10/14/2021	11/04/2021	11/11/2021	12/09/2021	12/16/2021
Laboratory Sample I.D.		420-208385-1	420-208878-1	420-210396-1	420-210930-1	420-212882-1	420-213373-1
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
4-CHLOROTOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ACROLEIN	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
ACRYLONITRILE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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
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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
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

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Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
D	Compound identified at a secondary dilution factor (Organics)

Former IBM Kingston Flux Calculations

Groundwater Collection System and
North Parking Lot Area Passive Groundwater Collection System

Groundwater Collection System

Total Gallons Extracted January 1, 2021- December 31, 2021: 19,728,372

Average Flow Rate 54,050 gal/day

	avg. ug/l	Flux lbs/day
Tetrachloroethene	0.5	0.00022
Trichloroethene	78.3	0.03529
12-Dichloroethene(tot)	18.3	0.00826
Vinyl Chloride	0.0	0.00000
111-Trichloroethane	8.0	0.00360
11-Dichloroethane	18.1	0.00817
12-Dichloroethane	0.0	0.00000
11-Dichloroethene	11.7	0.00526
Freon 113	0.0	0.00000
Freon 123a	0.0	0.00000

Total flux contributed by GWCS: 0.06080 lbs/day
Annual Flux for GWCS: 22.19 lbs

North Parking Lot Area Passive Groundwater Collection System

Total Gallons Extracted January 1, 2021- December 31, 2021: 1,317,986

Average Flow Rate 3,611 gal/day

	avg. ug/l	Flux lbs/day
Tetrachloroethene	0.6	0.00002
Trichloroethene	2.4	0.00007
12-Dichloroethene(tot)	2.6	0.00008
Vinyl Chloride	0.0	0.00000
111-Trichloroethane	0.0	0.00000
11-Dichloroethane	2.4	0.00007
12-Dichloroethane	0.0	0.00000
11-Dichloroethene	4.8	0.00015
Freon 113	0.0	0.00000
Freon 123a	0.0	0.00000

Total flux contributed by NPLA pump stations: 0.00039 lbs/day
Annual Flux for NPLA pump stations: 0.14 lbs

overall flux: ***22.3323***