The Chemours Company
P.O. Box 788
Lewiston, NY 14092

(716) 221-4723t
chemours.com

May 29, 2020

Mr. Stanley Radon
New York State Department of
Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

Dear Mr. Radon:

NIAGARA PLANT FIRST QUARTER 2020 DATA PACKAGE

Enclosed is the Groundwater Remediation System First Quarter 2020 (1Q20) Data Package for the Chemours Niagara Plant pursuant to Order on Consent No. B9-0206-87-09. The data package includes an operational summary, potentiometric surface contour maps, and process sample analytical data for 1Q20.

Pumping well uptime was 96.8 percent for the original GWRS pumping wells, 99.0 percent for pumping well PW-37, and 99.0 percent for PW-39 during 1Q20. There were no scheduled or unscheduled system shutdowns greater than 24 hours in 1Q20. No wells were down for greater than 48 consecutive hours during the quarter.

Please contact me at (716) 221-4723 if you have any questions or comments regarding this submittal.

Sincerely,

Chemours

Paul F. Mazierski
Project Director

PFM/EAF
Enc. NIAGARA 1Q20 Data Package

cc: Brain Sadowski/NYSDEC (elec.)
Charlotte Bethoney/NYSDOH (elec.)
Dawn Hettrick/NYSDOH (elec.)
Chemours Records Retentions (elec.)

GROUNDWATER REMEDIATION SYSTEM
FIRST QUARTER 2020
GROUNDWATER MONITORING DATA PACKAGE
CHEMOURS NIAGARA PLANT
NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

Prepared For:

THE CHEMOURS COMPANY FC LLC
CORPORATE REMEDIATION GROUP

Buffalo Avenue and 26th Street
Niagara Falls, New York 14302

Prepared By:

PARSONS

40 La Riviere Drive, Suite 350
Buffalo, New York 14202
Phone: (716) 541-0730

May 2020

TABLE OF CONTENTS

SECTION 1

DATA PACKAGE SUMMARY

1.1 INTRODUCTION

This data package presents a summary of operating and monitoring data collected during the first quarter of 2020 (1Q20) for groundwater remediation measures at the Chemours Niagara Plant (the Plant) in Niagara Falls, New York. The Niagara Plant remediation program was implemented pursuant to an Administrative Consent Order with the New York State Department of Environmental Conservation (NYSDEC), Index Number B9-0206-87-09. This Data Package also includes the Silicone Oil Remediation First Quarter Progress Report.

Tables 1 through 6 provide information related to the quarterly sampling program and operational statistics. Figures 1 through 5 provide groundwater potentiometric maps. Appendix A through C provide supporting data.

1.2 OPERATIONAL SUMMARY

Pumping well uptime was 96.8 percent for the original GWRS pumping wells, 99.0 percent for pumping well PW-37, and 99.0 percent for PW-39 during 1Q20. There were no scheduled or unscheduled system shutdowns greater than 24 hours in 1Q20. No wells were down for greater than 48-hours during 1Q20. None of the well pumps required replacement during 1Q20.

From an operations standpoint, the air strippers effectively remove organics from groundwater. The refined indicator parameters for process sampling are summarized in Table 1. It is estimated that 1,208 pounds of volatile organic compounds were removed from groundwater during operation of the Groundwater Remediation System (GWRS) in 1Q20 (see Tables 2 and 3). Historical organic compound removal by the GWRS is summarized in Table 4.

Olin Production Well uptime was 100 percent during 1Q20. Organics removal at the Olin Production Well treatment system was estimated to be 562.7 pounds for 1Q20 (see Tables 2 and 5). Estimated organic compound removal for the Olin Production Well from October 1992 through March 2020 is approximately 46,331 pounds (Table 5).

Point source contaminant loading rates are provided in Table 6. Loading to the Niagara Falls Wastewater Facility (NFWWF) from Outfall 023 is estimated to have been 0.26 pounds of organics per day during 1Q20. Since effluent discharged through this outfall is treated at the NFWWF, this represents an additional 24 pounds of organics (Table 2) that were removed and treated during 1Q20.

Groundwater elevation data collected during 1Q20 indicated that inward hydraulic gradients exist in the A-Zone throughout most plant areas while the GWRS is operating, thereby decreasing off-plant groundwater flow. Inward gradients are coincident with the southern border of the West Plant along Staub Road in both the A-Zone overburden (Figure 1) and A-Zone top-of-rock (Figure 2) and are largely attributed to pumping of the two BFBTs.

Investigation and recovery activities related to Silicone Oil Recovery have been conducted in accordance with the technical scope of work submitted on July 21, 1999 and approved by NYSDEC on August 26, 1999. During 1Q20, no silicone oil was observed in PW-20 and 1.0 gallon was recovered from PW-24 (Appendix C). Silicone oil has never been observed at PW-22 since inspections began at this location in 3Q00. To date, 64 gallons and 1,989.0 gallons of Silicone Oil have been recovered from PW-20 and PW-24 respectively. A total of 2,053.0 gallons of silicone oil have been removed from GWRS pumping wells since recovery began in June 1999.

TABLES

Table 1

Refined Indicator Parameters
First Quarter 2020
Chemours Niagara

Volatiles	Base/Neutrals[1]
Benzene	1,4-dichlorobutane
Carbon tetrachloride	bis(2-ethylhexyl)phthalate
Chlorobenzene	Naphthalene
Chloroform	1,2-dichlorobenzene
Chloromethane	1,4-dichlorobenzene
1,1-dichloroethane	Hexachlorobutadiene
1,1-dichloroethene	Hexachloroethane
trans-1,2-dichloroethene	**Pesticides/PCBs[1]**
cis-1,2-dichloroethene	alpha-BHC
Methylene chloride	beta-BHC
1,1,2,2-tetrachloroethane	delta-BHC
Tetrachloroethene	gamma-BHC
Tetrahydrothiophene	Total PCBs
Toluene	
1,1,1-trichloroethane	
1,1,2-trichloroethane	
Trichloroethene	
Vinyl chloride	
Inorganics and Other Parameters	
Total cyanide[1]	
Soluble barium[1]	
pH*	
Temperature*	
Specific Gravity*	
Specific Conductivity*	

[1] Analyses required once per year for these parameters on select samples.

* Field measurement

Table 2

Point Source Contaminant Loading Rates
Loading Indicator Organics
First Quarter 2020
Chemours Niagara

Treatment System Operations	
GWRS	
Original 23 Pumping Wells System Uptime	96.8%
Pumping Well 37 Uptime	99.0%
Pumping Well 39 Uptime	99.0%
Total Gallons Pumped	2,927,908
Average System Pumping Rate for Quarter (GPM)	22.3
Estimated Pounds of Organics Treated	1,208
Number of unscheduled treatment shutdowns (> 24 hours)	0
Number of scheduled treatment shutdowns (> 24 hours)	0
Olin System	
Pumping System Uptime	100.0%
Estimated Pounds of Organics Treated	562.7
Carbon vessel changes	6

	V-5	1/6/20	V-2	3/11/20	
	V-6	1/6/20	V-3	3/11/20	
	V-7	1/6/20	V-4	3/11/20	

Outfall 023	
Estimated Pounds of Organics Treated	24

GWRS Pumping Well Operations	
Total Pump Replacements:	0
Number of Individual Pumps down > 48 hours:	0

Table 3

Point Source Contaminant Loading Rates
Loading Indicator Organics
First Quarter 2020
Chemours Niagara

Quarterly Total Flow (gallons)	Influent Total VOC Concentration (µg/l)	Effluent Total VOC Concentration (µg/l)	Estimated VOC Removal (lbs.)
2,927,908	49,610	101.6	1,208

Table 4

Point Source Contaminant Loading Rates
Loading Indicator Organics
First Quarter 2020
Chemours Niagara

Time Period	Estimated Organic Removal (lbs)[1]	
1991[2]	4,700	
1992	10,350	
1993	7,220	
1994	7,320	
1995	7,840	
1996	9,436	
1997	6,463	
1998	7,000	
1999	3,382	
2000	3,010	
2001	3,224	
2002	3,848	
2003	2,820	
2004	2,645	
2005	2,237	
2006	11,589	
2007	8,678	
2008	7,932	
2009	12,128	
2010	7,854	
2011	9,004	
2012	8,453	
2013	9,433	
2014	8,567	
2015	8,255	
2016	6,629	
1Q17	3,127	
2Q17	2,581	2017 Total 10,815
3Q17	2,930	
4Q17	2,177	
1Q18	1,454	
2Q18	1,410	2018 Total 5,794
3Q18	1,321	
4Q18	1,609	
1Q19	1,357	
2Q19	1,393	2019 Total 5,635
3Q19	1,389	
4Q19	1,496	
1Q20	1,208	
TOTAL	**203,469**	

[1] Estimated based on influent/effluent data and daily groundwater flow rates, except as noted.
[2] Estimated based on influent/effluent data and instantaneous flow to treatment system.

Table 5

Point Source Contaminant Loading Rates
Loading Indicator Organics
First Quarter 2020
Chemours Niagara

Date	Average Pumping Rate (gpm)	Influent Total VOC (µg/l)	Effluent Total VOC (µg/l)	Total VOC Removed (lbs/day)	Total VOC Removed (lbs)
1992					5,470
1993					3,580
1994					3,530
1995					2,378
1996					2,240
1997					1,887
1998					1,392
1999					1,695
2000					1,214
2001					1,185
2002					1,374
2003					1,124
2004					1,044
2005					1,066
2006	590	491	71	3.0	1,096
2007	527	514	56	2.9	1,068
2008	529	547	6.7	3.4	1,257
2009	536	534	14	3.3	1,222
2010	557	483	5	3	1,168
2011	595	546	9	3.8	1,386
2012	578	459	11	3.1	1,137
2013	541	461	24	2.8	1,042
2014	574	534	32	3.5	1,269
2015	566	511	23	3.3	1,197
2016	573	468	11	3.1	1,137
1Q17	*550*	452	9.6	2.9	263
2Q17	*569*	430	1	3	273
3Q17	*583*	540	14.2	3.7	338
4Q17	*570*	616	17.5	4.1	377
1Q18	*550*	454	1	3	270
2Q18	*567*	299	14.6	1.9	176
3Q18	*604*	369	41.5	2.4	218
4Q18	*590*	453	18.3	3.1	283
1Q19	*545*	388	1.0	2.5	228
2Q19	*533*	356	28.1	2.1	191
3Q19	*618*	413	20.7	2.9	268
4Q19	*579*	1,065	7.8	7.3	676
1Q20	*565*	1,026	113.7	6.2	563
TOTAL					**46,331**

An average analytical result is used when a field duplicate is reported.
All averages are italicized.
Annual VOCs removed is sum of quarterly VOCs removed

Table 6

Point Source Contaminant Loading Rates
Loading Indicator Organics
First Quarter 2020
Chemours Niagara

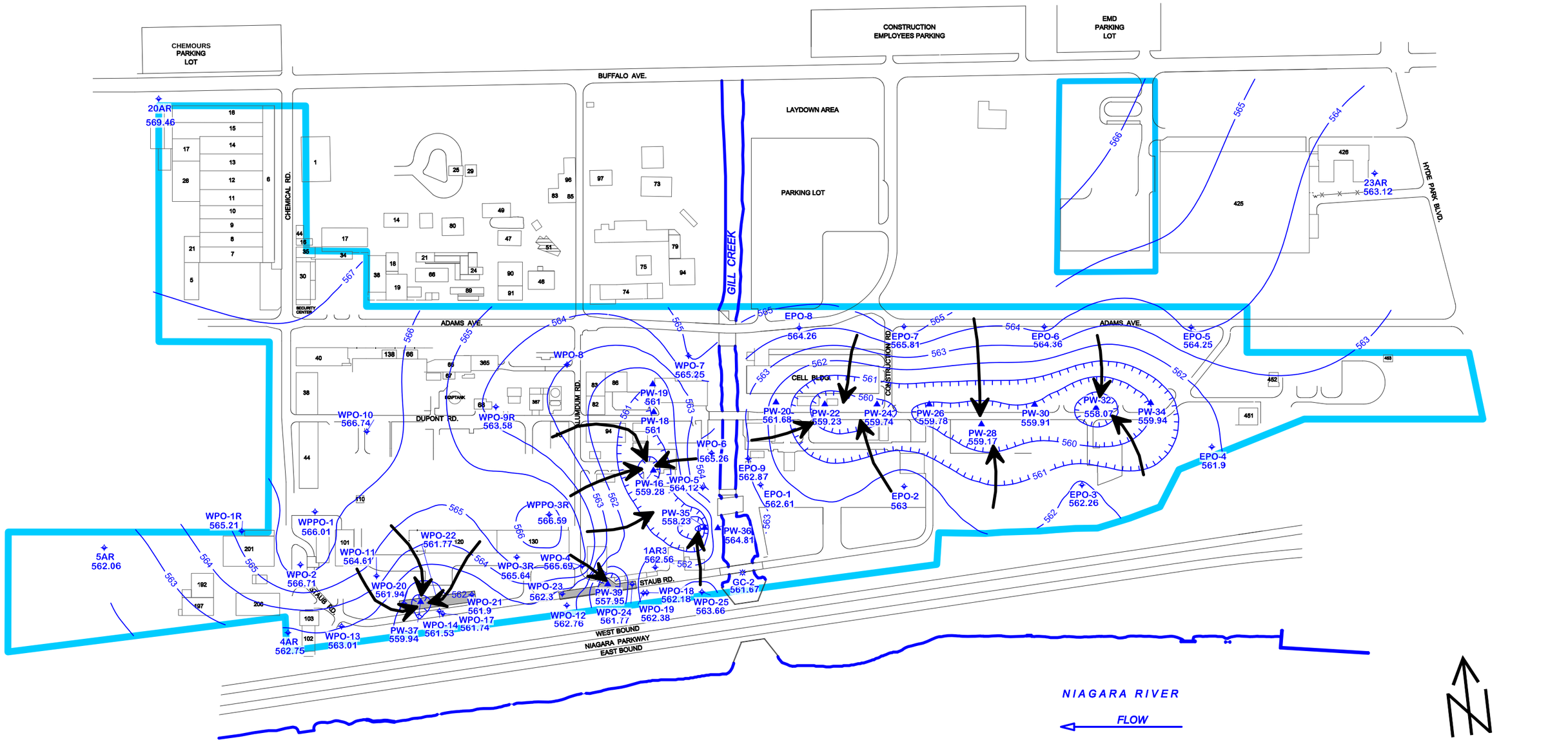
Outfall Sample Location*	Quarterly Average Flow Rate (gpm)	Total Indicator Organic Concentration (µg/l)[(1)]	Quarterly Average Loading Rate (lb/day)[(1)]
023	185	*119.5*	0.26
Olin GAC[(2)]	565	113.7	0.77

GAC = Granular Activated Carbon (Olin Treatment Effluent)
TIO average of field duplicate results are *italicized*.

(1) Values are not adjusted to account for concentrations of loadings indicator organics which may be present in the raw intake water.

(2) Average pumping rate for Olin well through quarter.

FIGURES



Note:
Well WPO-8 was obstructed. No water level was used from this location to generate the contours.

Graphic Scale
0 125 250 375 500
Feet

PARSONS
40 La Riviere Dr, Suite 350
Buffalo, NY 14202
(716) 541-0730

Created by: RBP	Date: 4/2/2020
Checked by: JWS	Date: 4/6/2020
Project Manager: EAF	Date: 4/6/2020
Job number: 452007.03000	

LEGEND

- BUILDING
- ROAD
- CHEMOURS PROPERTY BOUNDARY
- SURFACE WATER

CHEMOURS WELLS

- 1AR3 — WELL ID
- PIEZOMETER
- PUMPING WELL
- MONITORING WELL
- UNDERGROUND UTILITY WELL
- GILL CREEK SURFACE WELL or WATER SAMPLE LOCATION

- BLAST FRACTURED BEDROCK TRENCH
- GROUNDWATER CONTOUR
- GROUNDWATER CONTOUR DEPRESSION
- 561 — GROUNDWATER CONTOUR ELEVATION

FIGURE 1
POTENTIOMETRIC SURFACE MAP
A-ZONE OVERBURDEN - MARCH 4, 2020
CHEMOURS NIAGARA PLANT, NIAGARA FALLS, NY

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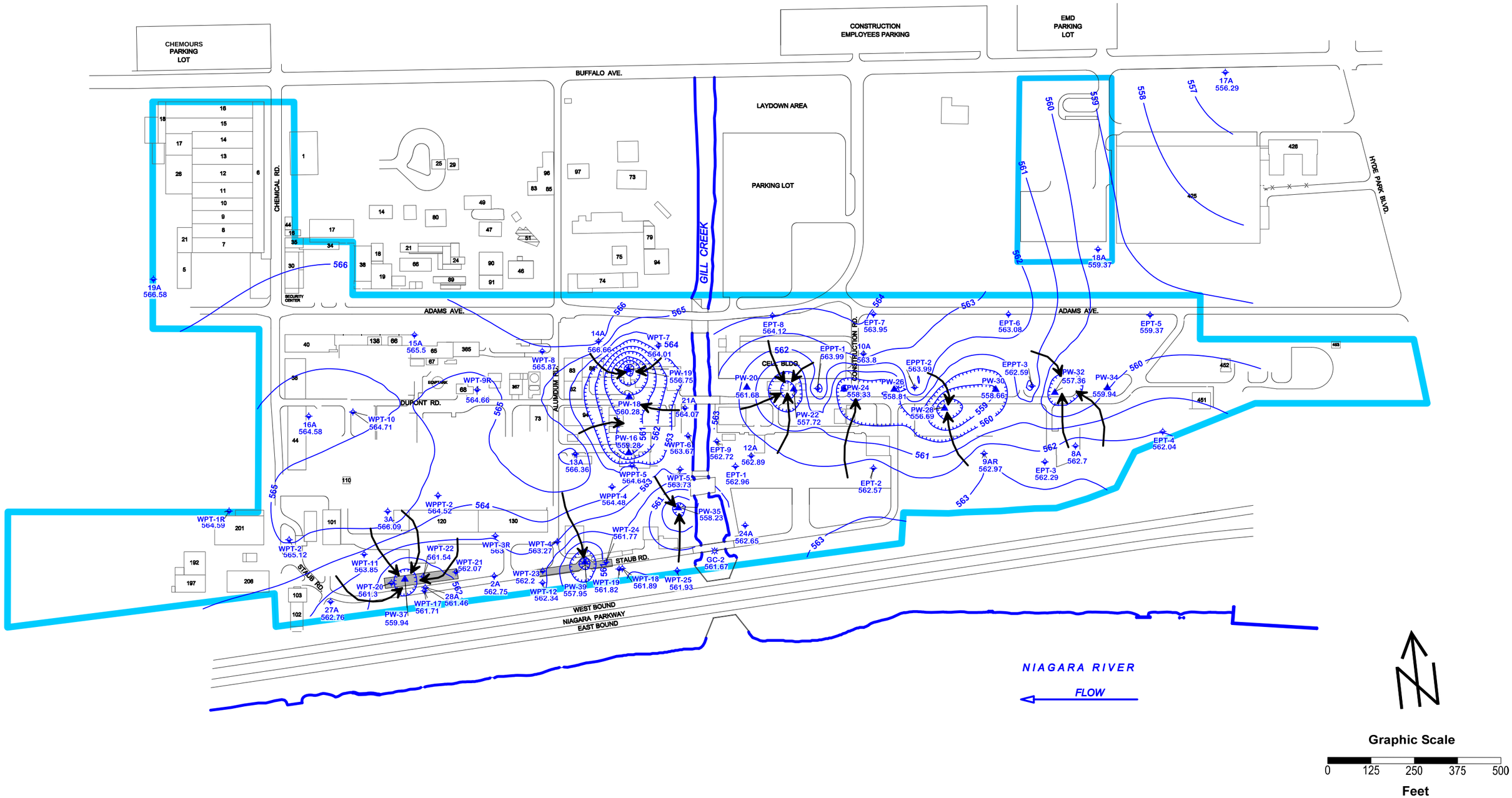

Graphic Scale

0 125 250 375 500

Feet

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LEGEND

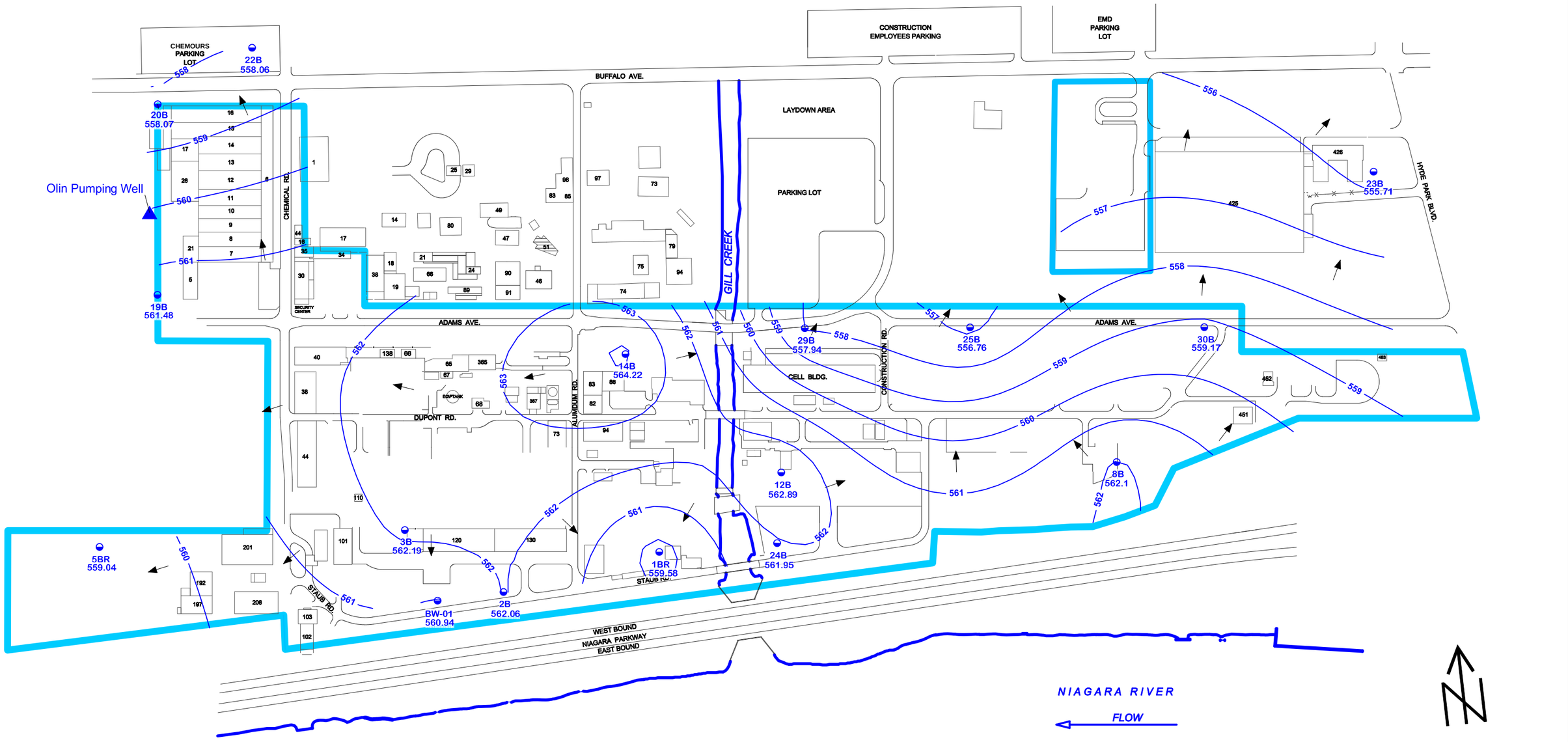
- BUILDING
- ROAD
- CHEMOURS PROPERTY BOUNDARY
- SURFACE WATER

CHEMOURS WELLS

- 1AR3 WELL ID
- PIEZOMETER
- PUMPING WELL
- MONITORING WELL
- UNDERGROUND UTILITY WELL
- GILL CREEK SURFACE WELL or WATER SAMPLE LOCATION
- BLAST FRACTURED BEDROCK TRENCH
- GROUNDWATER CONTOUR
- GROUNDWATER CONTOUR DEPRESSION
- 561 GROUNDWATER CONTOUR ELEVATION

FIGURE 2
POTENTIOMETRIC SURFACE MAP
A-ZONE BEDROCK - MARCH 4, 2020
CHEMOURS NIAGARA PLANT, NIAGARA FALLS, NY

//NYBUF03FS01/Dupont$/Niagara/NiaPlant/Hydrogeo/Hydro/GW_contours/2020-03-04 NIA Contour Tool/2020-03-04-BRPZ.srf



Graphic Scale

0 125 250 375 500

Feet

Note:
New well casing installed at well 12B on 6/4/2019. Top of casing manually measured as 2.5 ft above ground surface.

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Project Manager: EAF	Date: 4/6/2020
Job number: 452007.03000	

LEGEND

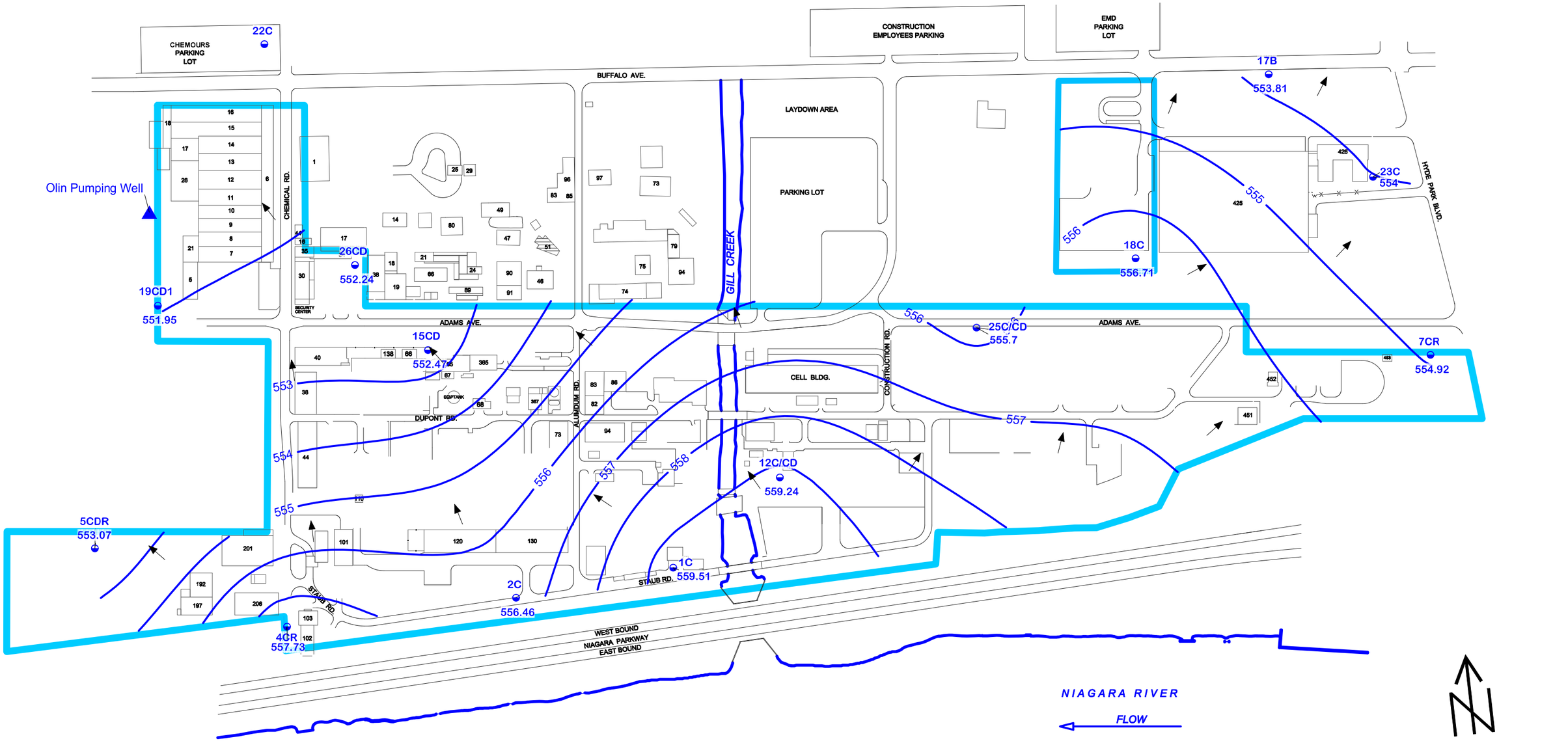
- BUILDING
- ROAD
- CHEMOURS PROPERTY BOUNDARY
- SURFACE WATER

CHEMOURS WELLS

- 1BR — WELL ID
- PIEZOMETER
- PUMPING WELL
- MONITORING WELL
- UNDERGROUND UTILITY WELL
- GROUNDWATER CONTOUR
- GROUNDWATER CONTOUR DEPRESSION
- 561 — GROUNDWATER CONTOUR ELEVATION

FIGURE 3
POTENTIOMETRIC SURFACE MAP
B-ZONE BEDROCK - MARCH 4, 2020
CHEMOURS NIAGARA PLANT, NIAGARA FALLS, NY

//NYBUF03FS01/Dupont$/Niagara/NiaPlant/Hydrogeo/Hydro/GW_contours/2020-03-04 NIA Contour Tool/2020-03-04-BZPZ.srf



Notes:
Water level in well 22C was at the top of casing due to assumed surface water infiltration.
The well was not used to generate the contours.

Graphic Scale
0 125 250 375 500
Feet

PARSONS
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Checked by: JWS	Date: 4/6/2020
Project Manager: EAF	Date: 4/6/2020
Job number: 452007.03000	

LEGEND

- BUILDING
- ROAD
- CHEMOURS PROPERTY BOUNDARY
- SURFACE WATER

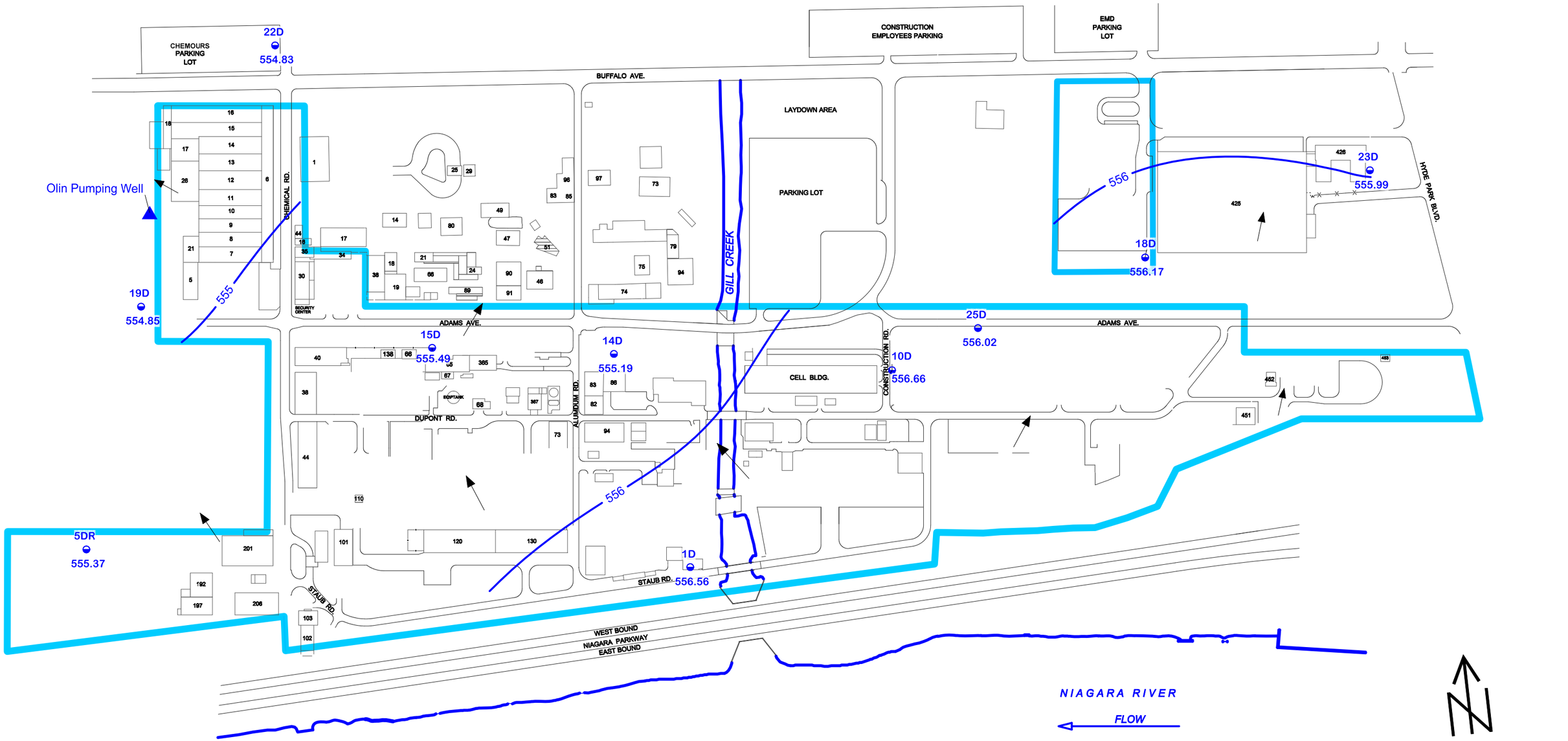
CHEMOURS WELLS

- 1C — WELL ID
- PIEZOMETER
- PUMPING WELL
- MONITORING WELL

- GROUNDWATER CONTOUR
- GROUNDWATER CONTOUR DEPRESSION
- 558 — GROUNDWATER CONTOUR ELEVATION

FIGURE 4
POTENTIOMETRIC SURFACE MAP
C/CD-ZONE BEDROCK - MARCH 4, 2020
CHEMOURS NIAGARA PLANT, NIAGARA FALLS, NY

//NYBUF03FS01/Dupont$/Niagara/NiaPlant/Hydrogeo/Hydro/GW_contours/2020-03-04 NIA Contour Tool/2020-03-04-CZPZ.srf



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Created by: RBP	Date: 4/2/2020
Checked by: JWS	Date: 4/6/2020
Project Manager: EAF	Date: 4/6/2020
Job number: 452007.03000	

LEGEND

- BUILDING
- ROAD
- CHEMOURS PROPERTY BOUNDARY
- SURFACE WATER

CHEMOURS WELLS

- 1D — WELL ID
- PIEZOMETER
- PUMPING WELL
- MONITORING WELL

- GROUNDWATER CONTOUR
- GROUNDWATER CONTOUR DEPRESSION
- 557 — GROUNDWATER CONTOUR ELEVATION

FIGURE 5
POTENTIOMETRIC SURFACE MAP
D-ZONE BEDROCK - MARCH 4, 2020
CHEMOURS NIAGARA PLANT, NIAGARA FALLS, NY

//NYBUF03FS01/Dupont$/Niagara/NiaPlant/Hydrogeo/Hydro/GW_contours/2020-03-04 NIA Contour Tool/2020-03-04-DZPZ.srf

APPENDIX A

CHEMOURS NIAGARA PLANT
GROUNDWATER ELEVATION DATA
FIRST QUARTER 2020

APPENDIX A
GROUNDWATER ELEVATION DATA - FIRST QUARTER 2020
CHEMOURS NIAGARA PLANT

SAMPLE POINT	DATE	DEPTH TO WATER (FT)	CASING ELEVATION (FT AMSL)	GW ELEVATION (FT AMSL)	TIME	COMMENTS
BW-01	03/04/2020	10.59	571.53	560.94	12:19	
DEC-3R	03/04/2020	12.18	574.39	562.21	11:55	
DEC-4R	03/04/2020	13.72	575.81	562.09	12:01	
DEC-5	03/04/2020	20.80	582.13	561.33	12:08	
EPO-1	03/04/2020	10.06	572.67	562.61	13:09	
EPO-2	03/04/2020	9.31	572.31	563.00	12:58	
EPO-3	03/04/2020	10.41	572.67	562.26	15:20	
EPO-4	03/04/2020	8.85	570.75	561.90	15:15	
EPO-5	03/04/2020	6.10	570.35	564.25	13:15	
EPO-6	03/04/2020	6.10	570.46	564.36	13:19	
EPO-7	03/04/2020	4.90	570.71	565.81	13:30	
EPO-8	03/04/2020	6.43	570.69	564.26	13:35	
EPO-9	03/04/2020	9.49	572.36	562.87	13:25	
EPPT-1	03/04/2020	4.97	568.96	563.99	12:35	
EPPT-2	03/04/2020	8.42	572.41	563.99	14:49	
EPPT-3	03/04/2020	9.46	572.05	562.59	14:54	
EPT-1	03/04/2020	9.90	572.86	562.96	13:10	
EPT-2	03/04/2020	9.65	572.22	562.57	12:57	
EPT-3	03/04/2020	10.22	572.51	562.29	15:20	
EPT-4	03/04/2020	8.99	571.03	562.04	15:16	
EPT-5	03/04/2020	10.91	570.28	559.37	13:15	
EPT-6	03/04/2020	7.44	570.52	563.08	13:21	
EPT-7	03/04/2020	6.58	570.53	563.95	13:29	
EPT-8	03/04/2020	6.54	570.66	564.12	13:34	
EPT-9	03/04/2020	9.07	571.79	562.72	13:24	
GC-2	03/04/2020	11.12	572.79	561.67	13:38	
MW-10A	03/04/2020	8.33	572.13	563.80	12:51	
MW-10C	03/04/2020	11.00	568.10	557.10	12:47	
MW-10D	03/04/2020	11.83	568.49	556.66	12:49	
MW-12A	03/04/2020	9.67	572.56	562.89	13:04	
MW-12B	03/04/2020	9.51	572.14	562.63	13:06	Lock difficult to open/close. Is bent/weathered
MW-12C/CD	03/04/2020	13.53	572.77	559.24	13:02	
MW-13A	03/04/2020	6.77	573.13	566.36	11:42	
MW-14A	03/04/2020	5.64	572.30	566.66	11:58	
MW-14B	03/04/2020	8.07	572.29	564.22	12:02	
MW-14C	03/04/2020	16.58	572.10	555.52	11:59	
MW-14D	03/04/2020	17.49	572.68	555.19	11:57	
MW-15A	03/04/2020	3.11	568.61	565.50	11:40	
MW-15C	03/04/2020	11.32	568.52	557.20	11:41	
MW-15CD	03/04/2020	16.08	568.55	552.47	11:43	
MW-15D	03/04/2020	13.08	568.57	555.49	11:45	
MW-16A	03/04/2020	7.75	572.33	564.58	14:33	
MW-16B	03/04/2020	9.95	572.96	563.01	14:35	
MW-17A	03/04/2020	15.69	571.98	556.29	13:01	
MW-17B	03/04/2020	18.13	571.94	553.81	13:02	

APPENDIX A
GROUNDWATER ELEVATION DATA - FIRST QUARTER 2020
CHEMOURS NIAGARA PLANT

SAMPLE POINT	DATE	DEPTH TO WATER (FT)	CASING ELEVATION (FT AMSL)	GW ELEVATION (FT AMSL)	TIME	COMMENTS
MW-18A	03/04/2020	11.44	570.81	559.37	12:56	
MW-18C	03/04/2020	14.00	570.71	556.71	12:54	
MW-18D	03/04/2020	14.72	570.89	556.17	12:56	
MW-19A	03/04/2020	7.09	573.67	566.58	14:13	
MW-19B	03/04/2020	11.78	573.26	561.48	14:11	
MW-19C	03/04/2020	18.99	573.59	554.60	14:09	
MW-19CD1	03/04/2020	21.34	573.29	551.95	14:08	
MW-19D	03/04/2020	18.23	573.08	554.85	14:17	
MW-1AR3	03/04/2020	9.12	571.68	562.56	13:52	
MW-1BR	03/04/2020	11.80	571.38	559.58	13:49	
MW-1C	03/04/2020	11.87	571.38	559.51	13:47	
MW-1D	03/04/2020	15.57	572.13	556.56	13:44	
MW-20AR	03/04/2020	1.05	570.51	569.46	14:24	
MW-20B	03/04/2020	12.02	570.09	558.07	14:26	
MW-21A	03/04/2020	9.34	573.41	564.07	12:09	
MW-22B	03/04/2020	11.80	569.86	558.06	12:47	
MW-22C	03/04/2020	0.00	570.09	-	12:48	Water level greater than TOC
MW-22D	03/04/2020	15.28	570.11	554.83	12:50	
MW-23AR	03/04/2020	10.38	573.50	563.12	13:05	
MW-23B	03/04/2020	16.99	572.70	555.71	13:06	
MW-23C	03/04/2020	18.74	572.74	554.00	13:08	
MW-23D	03/04/2020	16.82	572.81	555.99	13:09	
MW-24A	03/04/2020	9.92	572.57	562.65	13:33	
MW-24B	03/04/2020	10.74	572.69	561.95	13:32	
MW-25B	03/04/2020	12.95	569.71	556.76	13:25	
MW-25C/CD	03/04/2020	15.01	570.71	555.70	13:26	
MW-25D	03/04/2020	14.51	570.53	556.02	13:23	
MW-26C	03/04/2020	13.41	568.39	554.98	13:39	
MW-26CD	03/04/2020	16.63	568.87	552.24	13:45	
MW-27A	03/04/2020	10.84	573.60	562.76	13:20	
MW-28A	03/04/2020	9.02	570.48	561.46	12:58	
MW-29B	03/04/2020	13.59	571.53	557.94	13:33	
MW-2A	03/04/2020	9.07	571.82	562.75	12:32	
MW-2B	03/04/2020	11.49	573.55	562.06	12:30	
MW-2C	03/04/2020	15.16	571.62	556.46	12:35	
MW-30B	03/04/2020	11.66	570.83	559.17	13:14	
MW-3A	03/04/2020	6.34	572.43	566.09	12:12	
MW-3B	03/04/2020	10.06	572.25	562.19	12:10	
MW-4AR	03/04/2020	11.07	573.82	562.75	13:28	
MW-4CR	03/04/2020	12.12	569.85	557.73	13:29	
MW-5AR	03/04/2020	12.95	575.01	562.06	13:45	
MW-5BR	03/04/2020	15.89	574.93	559.04	13:43	
MW-5CDR	03/04/2020	21.93	575.00	553.07	13:42	
MW-5CR	03/04/2020	16.88	574.91	558.03	13:40	
MW-5DR	03/04/2020	19.73	575.10	555.37	13:39	

APPENDIX A
GROUNDWATER ELEVATION DATA - FIRST QUARTER 2020
CHEMOURS NIAGARA PLANT

SAMPLE POINT	DATE	DEPTH TO WATER (FT)	CASING ELEVATION (FT AMSL)	GW ELEVATION (FT AMSL)	TIME	COMMENTS
MW-6AR	03/04/2020	7.46	576.41	568.95	13:34	
MW-7AR	03/04/2020	16.46	571.90	555.44	15:08	
MW-7CR	03/04/2020	16.68	571.60	554.92	15:10	
MW-8A	03/04/2020	8.94	571.64	562.70	15:18	
MW-8B	03/04/2020	9.33	571.43	562.10	15:18	
MW-9AR	03/04/2020	9.69	572.66	562.97	15:23	
MW-U-1	03/04/2020	13.31	573.25	559.94	14:05	
MW-U-14	03/04/2020	4.50	571.26	566.76	14:19	
MW-U-16	03/04/2020	11.03	573.78	562.75	12:11	
PW-16	03/04/2020	14.17	573.45	559.28	13:17	
PW-18	03/04/2020	9.85	570.13	560.28	11:46	
PW-19	03/04/2020	16.55	573.30	556.75	11:51	
PW-20	03/04/2020	8.07	569.75	561.68	12:33	
PW-22	03/04/2020	11.78	569.50	557.72	12:18	
PW-24	03/04/2020	10.42	568.75	558.33	12:38	
PW-26	03/04/2020	9.59	568.40	558.81	12:54	
PW-28	03/04/2020	10.68	567.37	556.69	14:51	
PW-30	03/04/2020	10.15	568.81	558.66	14:52	
PW-32	03/04/2020	10.81	568.17	557.36	14:56	
PW-34	03/04/2020	8.98	568.92	559.94	14:58	
PW-35	03/04/2020	14.45	572.68	558.23	14:31	
PW-36	03/04/2020	4.70	569.51	564.81	14:27	
PW-37	03/04/2020	9.10	569.04	559.94	13:06	
PW-38	03/04/2020	10.42	572.07	561.65	12:23	
PW-39	03/04/2020	13.81	571.76	557.95	14:38	
TPW-01	03/04/2020	9.48	570.85	561.37	12:21	
WPO-10	03/04/2020	5.29	572.03	566.74	14:38	
WPO-11	03/04/2020	8.64	573.25	564.61	13:15	
WPO-12	03/04/2020	11.07	573.83	562.76	12:48	
WPO-13	03/04/2020	10.64	573.65	563.01	13:19	
WPO-14	03/04/2020	8.98	570.51	561.53	12:59	
WPO-15	03/04/2020	13.86	575.98	562.12	12:04	No road box cover
WPO-16	03/04/2020	12.20	574.84	562.64	11:56	
WPO-17	03/04/2020	9.10	570.84	561.74	13:02	
WPO-18	03/04/2020	10.20	572.38	562.18	14:02	
WPO-19	03/04/2020	10.11	572.49	562.38	14:02	
WPO-1R	03/04/2020	8.22	573.43	565.21	13:51	
WPO-2	03/04/2020	6.61	573.32	566.71	13:23	
WPO-20	03/04/2020	9.70	571.64	561.94	13:10	
WPO-21	03/04/2020	10.16	572.06	561.90	12:26	
WPO-22	03/04/2020	9.09	570.86	561.77	12:18	
WPO-23	03/04/2020	9.54	571.84	562.30	12:43	
WPO-24	03/04/2020	9.64	571.41	561.77	14:06	
WPO-25	03/04/2020	8.11	571.77	563.66	13:40	
WPO-3R	03/04/2020	7.20	572.84	565.64	12:38	

APPENDIX A
GROUNDWATER ELEVATION DATA - FIRST QUARTER 2020
CHEMOURS NIAGARA PLANT

SAMPLE POINT	DATE	DEPTH TO WATER (FT)	CASING ELEVATION (FT AMSL)	GW ELEVATION (FT AMSL)	TIME	COMMENTS
WPO-4	03/04/2020	6.69	572.38	565.69	12:51	
WPO-5	03/04/2020	8.87	572.99	564.12	13:14	
WPO-6	03/04/2020	12.47	577.73	565.26	12:11	
WPO-7	03/04/2020	6.27	571.52	565.25	12:06	
WPO-8	03/04/2020	NM	568.34	NM	11:59	Filled with mud
WPO-9R	03/04/2020	9.36	572.94	563.58	11:48	
WPPO-1	03/04/2020	2.65	568.66	566.01	14:54	
WPPO-3R	03/04/2020	5.19	571.78	566.59	12:05	
WPPT-2	03/04/2020	7.63	572.15	564.52	12:07	
WPPT-4	03/04/2020	7.82	572.30	564.48	12:03	
WPPT-5	03/04/2020	12.01	576.65	564.64	13:16	
WPT-10	03/04/2020	7.44	572.15	564.71	14:37	
WPT-11	03/04/2020	9.41	573.26	563.85	13:13	
WPT-12	03/04/2020	11.07	573.41	562.34	12:47	
WPT-17	03/04/2020	9.10	570.81	561.71	13:01	
WPT-18	03/04/2020	11.06	572.95	561.89	14:00	
WPT-19	03/04/2020	10.91	572.73	561.82	14:04	
WPT-1R	03/04/2020	9.43	574.02	564.59	13:49	
WPT-2	03/04/2020	8.01	573.13	565.12	13:24	
WPT-20	03/04/2020	10.89	572.19	561.30	13:08	
WPT-21	03/04/2020	10.42	572.49	562.07	12:27	
WPT-22	03/04/2020	10.10	571.64	561.54	12:16	
WPT-23	03/04/2020	9.49	571.69	562.20	12:44	
WPT-24	03/04/2020	9.69	571.46	561.77	14:09	
WPT-25	03/04/2020	10.57	572.50	561.93	13:42	
WPT-3R	03/04/2020	9.98	572.98	563.00	12:39	
WPT-4	03/04/2020	9.29	572.56	563.27	12:51	
WPT-5	03/04/2020	8.78	572.51	563.73	13:13	
WPT-6	03/04/2020	14.03	577.70	563.67	12:12	
WPT-7	03/04/2020	7.57	571.58	564.01	12:04	
WPT-8	03/04/2020	2.79	568.66	565.87	11:57	
WPT-9R	03/04/2020	7.96	572.62	564.66	11:49	

APPENDIX B

CHEMOURS NIAGARA PLANT
SUMMARY OF ANALYTICAL RESULTS
FIRST QUARTER 2020 SYSTEM MONITORING

Appendix B
Summary of Analytical Results
Chemours Niagara Plant
First Quarter 2020

Method	Parameter Name	Location / Date / Units	GWRS-INF 3/4/2020 FS	GWRS-EFF 3/4/2020 FS	GWRS-EFF 3/4/2020 DUP	OLIN-INF 3/4/2020 FS	OLIN-EFF 3/4/2020 FS	Outfall 023 (MS-8) 12/27/2019 FS	TRIP BLANK 3/4/2020 TB
	Field Parameters								
	COLOR	NONE	Clear	Clear	Clear	Clear	Clear	--	--
	ODOR	NONE	Mild	None	None	Slight	None	--	--
	OXIDATION REDUCTION POT.	MV	230.2	148	148	72.6	48.5	--	--
	PH	STD UNITS	7.21	7.99	7.99	8.15	7.77	--	--
	SPECIFIC CONDUCTANCE	UMHOS/CM	5860	5680	5680	1000	940	--	--
	TEMPERATURE	DEGREES C	11.9	12.3	12.3	12.1	12.4	--	--
	TURBIDITY QUANTITATIVE	NTU	2.43	1.72	1.72	0.83	0.53	--	--
	Volatile Organics								
8260C	1,1,1-Trichloroethane	UG/L	<400	<1	<1	<10	<1	<2	<1
8260C	1,1,2,2-Tetrachloroethane	UG/L	500	100	110	15	<1	5.8	<1
8260C	1,1,2-Trichloroethane	UG/L	<400	<1	<1	<10	<1	0.36 J	<1
8260C	1,1-Dichloroethane	UG/L	<400	<1	<1	<10	<1	--	<1
8260C	1,1-Dichloroethene	UG/L	<400	<1	<1	<10	<1	<1	<1
8260C	1,2-Dichlorobenzene	UG/L	<400	<1	<1	<10	<1	<5	<1
8260C	1,4-Dichlorobenzene	UG/L	<400	<1	<1	<10	<1	<5	<1
8260C	1,4-Dichlorobutane	UG/L	<400	<1	<1	<10	<1	--	<1
8260C	Benzene	UG/L	<400	<1	<1	<10	<1	--	<1
8260C	Carbon Tetrachloride	UG/L	<400	<1	<1	<10	<1	<1	<1
8260C	Chlorobenzene	UG/L	<400	<1	<1	<10	<1	--	<1
8260C	Chloroform	UG/L	18000	1.6	1.7	150	68	6.5	<1
8260C	cis-1,2 Dichloroethene	UG/L	7800	<1	<1	240	38	49	<1
8260C	Methyl Chloride	UG/L	<400	<1	<1	<10	<1	--	<1
8260C	Methylene Chloride	UG/L	<2000	<5	<5	<50	<5	<1	<5
8260C	Tetrachloroethene	UG/L	5600	<1	<1	140	<1	22.0	<1
8260C	Tetrahydrothiophene	UG/L	<800	<2	<2	<20	<2	--	<2
8260C	Toluene	UG/L	<400	<1	<1	<10	<1	--	<1
8260C	trans-1,2-Dichloroethene	UG/L	<400	<1	<1	<10	<1	0.93 J	<1
8260C	Trichloroethene	UG/L	17000	<1	<1	440	7.7	28.0	<1
8260C	Vinyl Chloride	UG/L	710	<1	<1	41	<1	6.9	<1
	Total VOCs	UG/L	49610	101.6	111.7	1026	113.7	119.49	0
	Other Organics								
8270D	Bis(2-Ethylhexyl)Phthalate	UG/L	<5.8	<5.9	<5.9	<6	<5.8	<2.2	--
8270D	Hexachlorobutadiene	UG/L	<9.6	<9.9	<9.8	<10	<9.7	<2.0	--
8270D	Hexachloroethane	UG/L	<9.6	<9.9	<9.8	<10	<9.7	--	--
8270D	Naphthalene	UG/L	<9.6	<9.9	<9.8	<10	<9.7	--	--
8081B	Alpha-BHC	UG/L	1.6	1.7	1.6	0.067	<0.049	0.302	--
8081B	beta-BHC	UG/L	<0.25	<0.49	<0.51	<0.05	<0.049	0.024	--
8081B	delta-BHC	UG/L	<0.25	<0.49	<0.51	<0.05	<0.049	0.011 J	--
8081B	Lindane	UG/L	0.58	0.57	0.55	<0.05	<0.049	0.145	--
8082A	PCB 1016	UG/L	<0.098	<0.097	<0.1	<0.099	<0.098	<0.050	--
8082A	PCB 1221	UG/L	<0.098	<0.097	<0.1	<0.099	<0.098	<0.050	--
8082A	PCB 1232	UG/L	<0.098	<0.097	<0.1	<0.099	<0.098	<0.050	--
8082A	PCB 1242	UG/L	<0.098	<0.097	<0.1	<0.099	<0.098	<0.050	--
8082A	PCB 1248	UG/L	<0.098	<0.097	<0.1	<0.099	<0.098	<0.050	--
8082A	PCB 1254	UG/L	<0.098	<0.097	<0.1	<0.099	<0.098	0.0415 J	--
8082A	PCB 1260	UG/L	<0.098	<0.097	<0.1	<0.099	<0.098	<0.050	--
	Inorganics								
6010C	Barium, dissolved	UG/L	<200	<200	<200	<200	<200	--	--
9012B	Cyanide, total	UG/L	780	810	760	<10	<10	226	--

< Not detected at stated reporting limit

APPENDIX C

CHEMOURS NIAGARA PLANT
SILICONE OIL REMEDIATION 1Q20

TABLE 1
Silicone Oil Recovery Summary - 1Q2020
Niagara Plant
Niagara Falls, NY

DATE	PW-20			PW-24		
	PRODUCT THICKNESS (FT)	AMOUNT RECOVERED (GALLONS)	CUMULATIVE TOTAL (GALLONS)	PRODUCT THICKNESS (FT)	AMOUNT RECOVERED (GALLONS)	CUMULATIVE TOTAL (GALLONS)
			64.0			1988.0
01/06/20	0.0	0.0	64.0	0.0	0.0	1,988.0
01/13/20	0.0	0.0	64.0	0.0	0.0	1,988.0
01/20/20	0.0	0.0	64.0	0.0	0.0	1,988.0
01/27/20	0.0	0.0	64.0	0.0	0.0	1,988.0
02/06/20	0.0	0.0	64.0	0.0	0.0	1,988.0
02/10/20	0.0	0.0	64.0	0.0	0.0	1,988.0
02/17/20	0.0	0.0	64.0	0.0	0.0	1,988.0
02/24/20	0.0	0.0	64.0	0.0	0.0	1,988.0
03/02/20	0.0	0.0	64.0	0.0	0.5	1,988.5
03/09/20	0.0	0.0	64.0	0.0	0.5	1,989.0
03/16/20	0.0	0.0	64.0	0.0	0.0	1,989.0
03/23/20	0.0	0.0	64.0	0.0	0.0	1,989.0
03/30/20	0.0	0.0	64.0	0.0	0.0	1,989.0
1Q20 Totals	**0.0**	**0.0**	**64.0**	**0.0**	**1.0**	**1,989.0**

TOTAL SILICONE OIL RECOVERED SINCE JUNE 1999: 2,053.0 GALLONS

comments: None