Environmental Resources Management

105 Maxess Road
Suite 316
Melville, NY 11747
(631) 756-8900
(http://www.erm.com)

21 January 2022
ERM Reference No. 0506713

Mr. Kevin Willis
Remedial Project Manager – Fulton Avenue Superfund Site
New York Remediation Branch
United States Environmental Protection Agency, Region II
290 Broadway, 20th Floor
New York, NY 10007-1866

Re: Fourth Quarter 2021 Progress Report
150 Fulton Avenue NPL Site - Operable Unit I
USEPA Consent Judgment No. CV–09–3917
DOJ Ref. No. 90–11–2–09329
Garden City Park Industrial Site NYSDEC#130073

Dear Mr. Willis:

On behalf of Genesco Inc. (Settling Defendant), this letter transmits the Fourth Quarter 2021 (October – December) Progress Report for the Fulton Avenue Superfund Site (Site).

OPERABLE UNIT 1 REMEDIAL DESIGN & INTERIM REMEDIAL ACTION

During the reporting period, remedial action (RA) activities continued as specified in the U.S. Environmental Protection Agency's (EPA) 30 September 2015 Amended Operable Unit One (OU1) Record of Decision (ROD) for the Site. The OU1 Remedial Design (RD) and RA activities (the Work) are being implemented in accordance with the 2016 OU1 Consent Judgment (2016 CJ) and 2016 OU1 Statement of Work (2016 SOW) approved by the Court on 15 August 2016, and the EPA-approved 2017 OU1 RD Work Plan.

During 2016-2018, remedial design (RD) activities were completed and concluded with EPA's approval of the OU1 RD Report on 25 March 2019. During 2019-2020, an OU1 Remedial Action (RA) Report was prepared, submitted to, and approved by EPA on 13 November 2020. Remaining OU1 RA activities for which the Settling Defendant is responsible are:

- Long-term groundwater monitoring and reporting (Table 1 & Figure 1) and maintenance of the associated groundwater monitoring wells; and
- The sub-slab depressurization/venting system (SSDS) at the 150 Fulton Avenue property.

The Incorporated Village of Garden City (VGC) operates public supply wells 13 & 14 and the associated air stripper treatment systems, which are not under the Settling Defendant's control.

Long-Term Groundwater Monitoring

The long-term groundwater monitoring program commenced in September 2017 following EPA approval of the OU1 RD Work Plan, and is currently being implemented in accordance with the:

- 2016 CJ;
- Schedule provided in Attachment 1 of the 2016 SOW: Monitoring Well Sampling Program (see attached Table 1);
- EPA-approved 2017 Quality Assurance Project Plan (QAPP) for the Site; and
- OU1 RA Schedule (Figure 3 of the OU1 Site Management Plan {SMP}).

Long-term groundwater monitoring well network locations are shown on the map presented as Figure 1.

The results of the tenth sampling event completed during 30 August – 2 September 2021 were transmitted to EPA in the Third Quarter 2021 Progress Report.

150 Fulton Avenue Sub-Slab Depressurization System (SSDS)

Monthly drive-by checks confirm the SSDS fan continues to operate.

VGC Water Supply Well Monitoring

The VGC continued operations and maintenance (O&M), monitoring and protection (treatment) of VGC water supply wells 13 and 14. The VGC provided a new set of sampling results and pumpage records for VGC water supply wells 9, 13 and 14 for the period of October – December 2021.

The pumpage records indicate Well No. 13 was used as the primary supply well during January 2021 – December 2021 while in contrast, Well No. 14 was operated little during the same period. According to the VGC, influent (raw) water samples were not collected from Well No. 14 during April 2021 – December 2021. Nearby Well No. 9 was operated very little during summer of 2017 - May of 2020, intermittently during June 2020 – November 2020, little during December 2020 – April 2021, but has operated regularly during April - December 2021.

The new data were incorporated into the existing database, and used to update corresponding charts for the Well Nos. 13 & 14 showing PCE and TCE concentrations versus time, and historic monthly pumpage versus time to evaluate recent contaminant concentration trends depicted in the same. The updated charts for Well Nos. 13 & 14 are presented as Figures 2 & 3, respectively.

Figure 4 presents average concentrations of PCE and TCE (and the corresponding PCE/TCE ratio) for each of the three wells by year (2001 – 2021), and plots of average annual PCE and TCE concentrations versus time for each of the three wells for comparison. The data and resultant plots indicate that concentrations of PCE have fluctuated over time since 2007, but both maximum observed and annual average concentrations of PCE have been declining over time in Well Nos. 13 & 14. A brief summary is presented in the table below that puts the relative concentrations in perspective.

VGC Well	Dominant Compound Historic High	2007 Average (µg/L)	2021 Average (µg/L)	Differenceof Averages	% Change of Averages
No. 13 (N-07058)	**6/4/2007**				
PCE	1,020	722.6	283.5	-439.1	-61%
TCE	91.5	90.0	35.4	-54.6	-61%
No. 14 (N-08339)	**10/27/2007**				
PCE	769	370.1	367	-3.1	-1%
TCE	69	38.9	21.5	-17.4	-45%

UPCOMING ACTIVITIES

Long-Term Groundwater Monitoring

Long-term groundwater monitoring of Group 2 (MWs 21A-D) and Group 3 wells (MWs 26A-H, 27A-H, 28A-H) will continue in September 2022 in accordance with the annual sampling schedule established in the 2016 SOW (Table 1) and indicated in the OU1 RA Schedule (Figure 3 of the Site Management Plan). Year 5 sampling does not include Group 1 (GCP-01/01D, 08, 15S, 18S/18D, MWs- 15 A-B, 20 A-C, 22 A-C, 23 A-D) wells.

150 Fulton Avenue Sub-Slab Depressurization System (SSDS)

Continued monthly checks to confirm the SSDS fan is operating.

VGC Water Supply Well Monitoring

A new set of sampling and pumpage records for VGC water supply wells 9, 13, and 14 for January 2022 through March 2022 will be obtained, and the updated charts and tables will be presented in the First Quarter 2022 Progress Report in April 2022.

If you should have any questions or wish to discuss the content of this progress report, please do not hesitate to call me at (631) 756-8920.

Sincerely,

Chris W. Wenczel, P.G.
Consultant Director/Hydrogeologist

Attachments

cc: Andrea Leshak, Esq., USEPA
Doug Garbarini, USEPA
Matthew Silverman, USDOJ
Steven M. Scharf, P.E., NYSDEC
John Swartwout, NYSDEC
Scott Becker, Genesco Inc.
Thor Urness, Esq., Bradley
Jeff Sheehan, Esq., Bradley
Melissa Ballengee Alexander, Esq., Bradley
James Periconi, Esq., Periconi, LLC
James Perazzo, ERM Consulting & Engineering, Inc.

FIGURES

GARDEN CITY PARK
SUPPLY WELL No. 9
N-08409 (340'-400')

GCP10D
GCP10S
GCP03
GCP16S
GCP06
GCP02
GCP17D
GCP17S
GCP19S
VP-01B
GCP05
VP-01A
VP-01
GCP04
VP-01C
GCP01
GCP01D
VP-02
VP-03
GCP18S
GCP18D
150 Fulton
Avenue Property
E9B
GCP11S
VP-04
GCP09
GCP07
GCP07D
VP-06
VP-05
GCP08
GCP12S
GCP12D
VP-07
VP-15
N02227
GCP13S
GCP13D
VP-08
VP-10
GCP15S
MW15A
MW15B
VP-09
M5
M6
MW24A
MW24B
LONG ISLAND RAILROAD
(PORT JEFFERSON BRANCH)
VP-11
MW25A
SB24
GCP14S
GCP14D
SB26
VP-16
VP-12
VP-17
VP-13
VP-14
MW21A
MW21B
MW21C
MW21D
MW20A
MW20B
MW20C
VP-18
MW22A
MW22B
MW22C
SB20
GARDEN CITY SUPPLY
WELL No. 9
N-03881 (426'-468')
GARDEN CITY SUPPLY
WELL Nos. 13 & 14
N-07058 (380'-440')
N-08339 (308'-358')
LONG ISLAND RAILROAD (HEMPSTEAD BRANCH)
MW23A
MW23B
MW23C
MW23D
SB23
N-07799
ADELPHI UNIVERSITY
GARDEN CITY COUNTRY CLUB GOLF COURSE
MW26A-H
MW28A-H
MW27A-H
FRANKLIN SQUARE
SUPPLY WELL Nos. 1 & 2
N-03603 (443'-493')
N-03604 (433'-483')

Bedford Ave
Broadway
Belmont Ave
Park Ave
Merillon Ave
Somerset Ave
Newmarket Rd
Stratford Ave
Euston Rd
Nassau Blvd
Cambridge Ave
Stewart Ave
South Ave
Garden City Country Club
Garden Ci Communit Park
Adelp Univers
Garden
25

VP-04 VERTICAL PROFILE LOCATION

GCP Or MW # EXISTING MONITORING WELL LOCATION

GCP or MW # LONG-TERM GROUNDWATER MONITORING WELL LOCATION

SB27 SOIL BORING LOCATION

No.9/N-03881 SUPPLY WELL (426'-468')=SCREEN INTERVAL

N-07799 IRRIGATION WELL

HISTORICAL EXTENT OF OU1 PLUME (TETRACHLOROETHENE {PCE}-DOMINANT PLUME) WHERE THE TOTAL VOLATILE ORGANIC CONCENTRATION WAS >100 UG/l*

HISTORICAL EXTENT OF OU2 PLUME (TRICHLOROETHENE {TCE}-DOMINANT PLUME) WHERE THE TOTAL VOLATILE ORGANIC CONCENTRATION WAS >100 UG/l*

* NOTE:
THE AREAL EXTENT OF CHLORINATED VOLATILE ORGANIC COMPOUNDS DEPICTED IN THIS FIGURE IS BASED ON THE MAXIMUM CONCENTRATIONS DETECTED IN GROUNDWATER SAMPLES OBTAINED FROM VERTICAL PROFILE TEMPORARY WELLS INSTALLED DURING 1999 - 2000, AND PERMANENT WELLS DURING SEPTEMBER 2001 - MAY 2005.

GENERALIZED GROUNDWATER FLOW PATH

Scale (1"=800')
400' 0 400' 800' 1600'
Graphic Scale in Feet

TITLE
Long-Term Groundwater Monitoring Well Network Well Locations Fulton Avenue Superfund Site Garden City/Garden City Park, NY

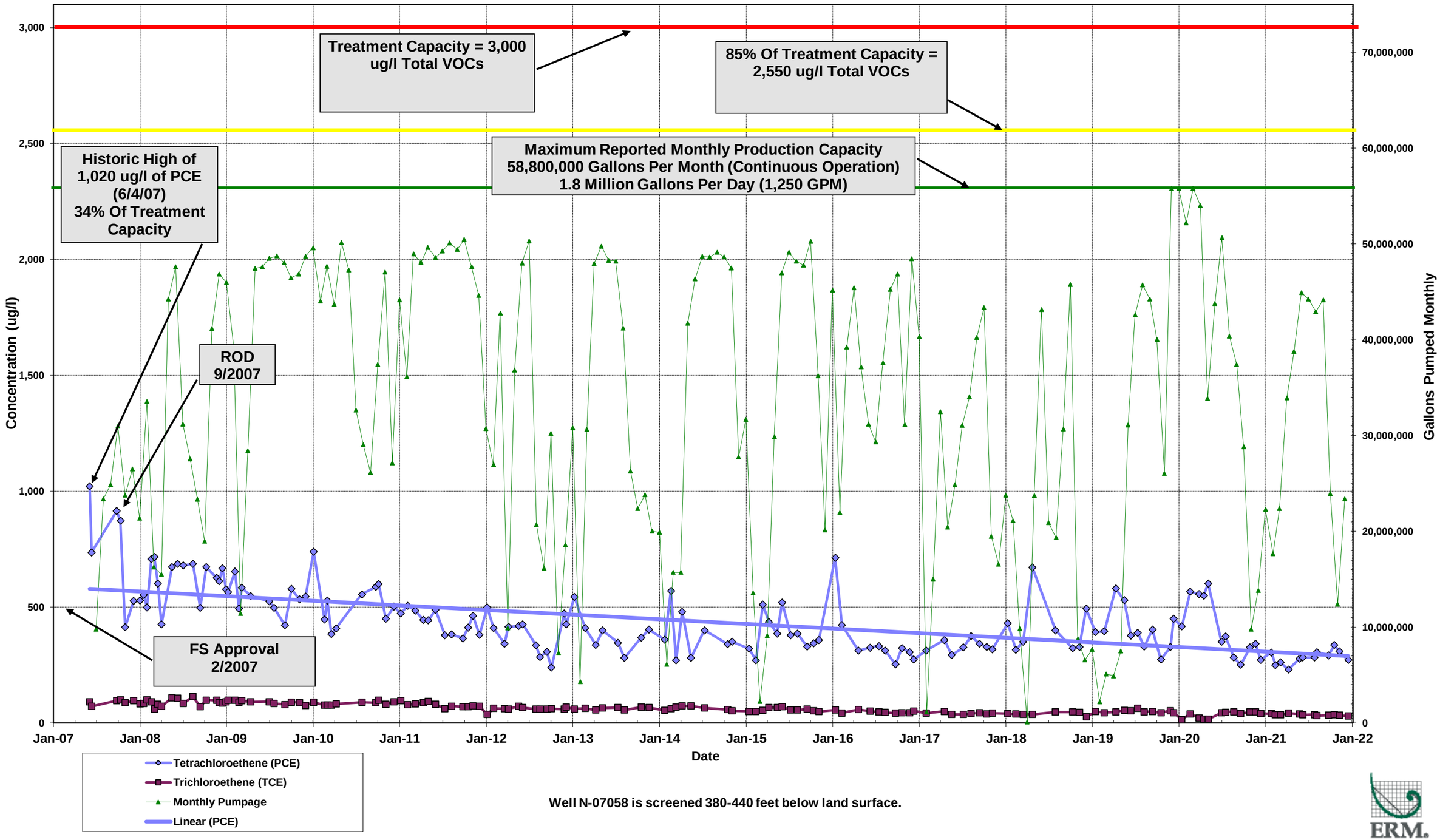
PREPARED FOR
Genesco Inc.

Environmental Resources Management

DRAWN BY	SCALE	DATE	JOB NO.	FIGURE
EMF	AS SHOWN	10/04/16	0097881	1

Y:\GENESCO\150 Fulton Ave\NYCAD\2016\2016-12-29 - Fulton Avenue QAPP Wells.dwg (05/10/2017 - 6:10pm Melville)

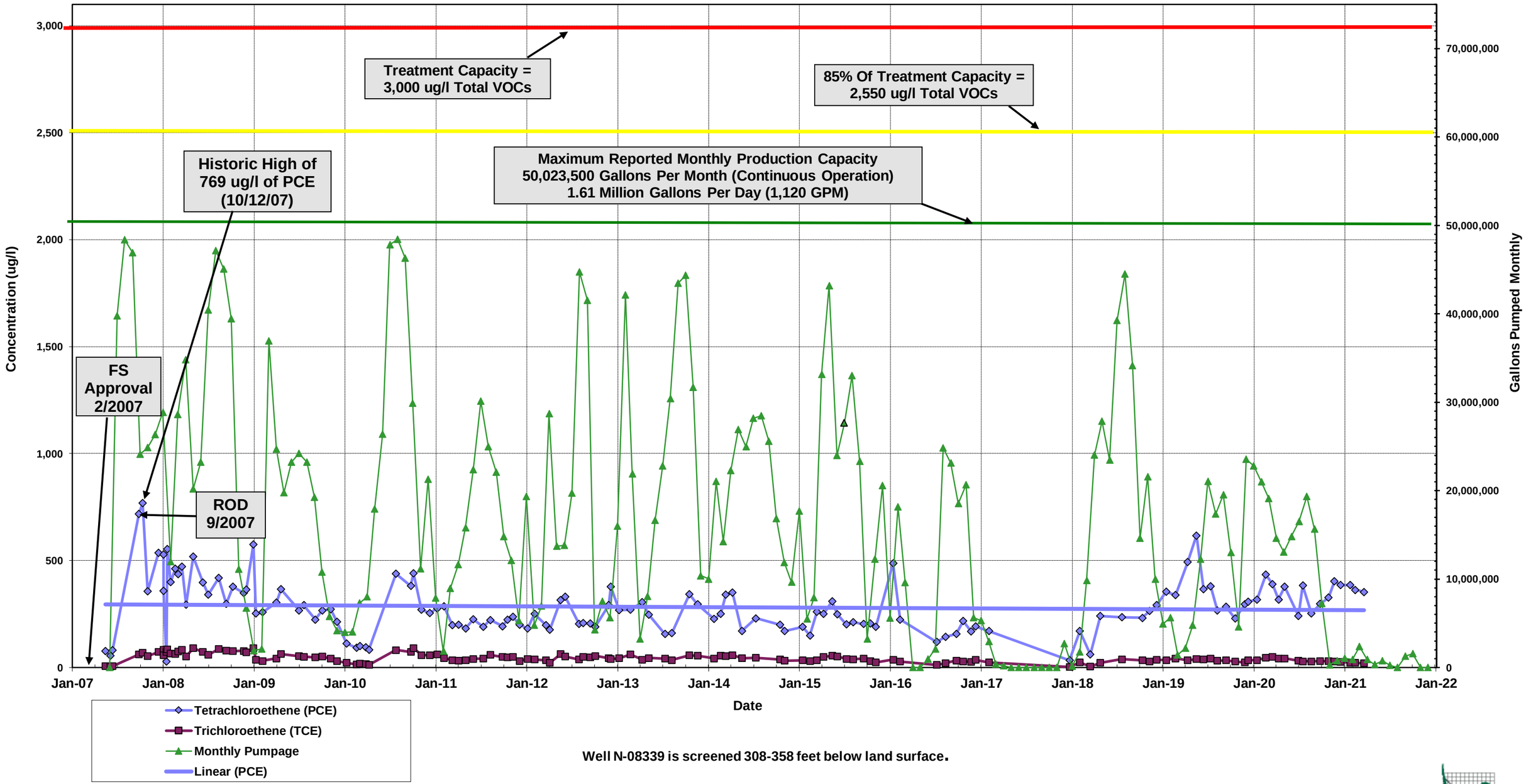
FIGURE 2
HISTORICAL TETRACHLOROETHENE & TRICHLOROETHENE CONCENTRATIONS AND MONTHLY WELL PUMPAGE: JANUARY 2007 - DECEMBER 2021
PUBLIC WATER SUPPLY WELL # N-07058 (GARDEN CITY WELL NO. 13), GARDEN CITY, NEW YORK



Well N-07058 is screened 380-440 feet below land surface.

ERM

FIGURE 3
HISTORICAL TETRACHLOROETHENE & TRICHLOROETHENE CONCENTRATIONS AND MONTHLY WELL PUMPAGE: JANUARY 2007 - DECEMBER 2021
PUBLIC WATER SUPPLY WELL # N-08339 (GARDEN CITY WELL NO. 14), GARDEN CITY, NEW YORK

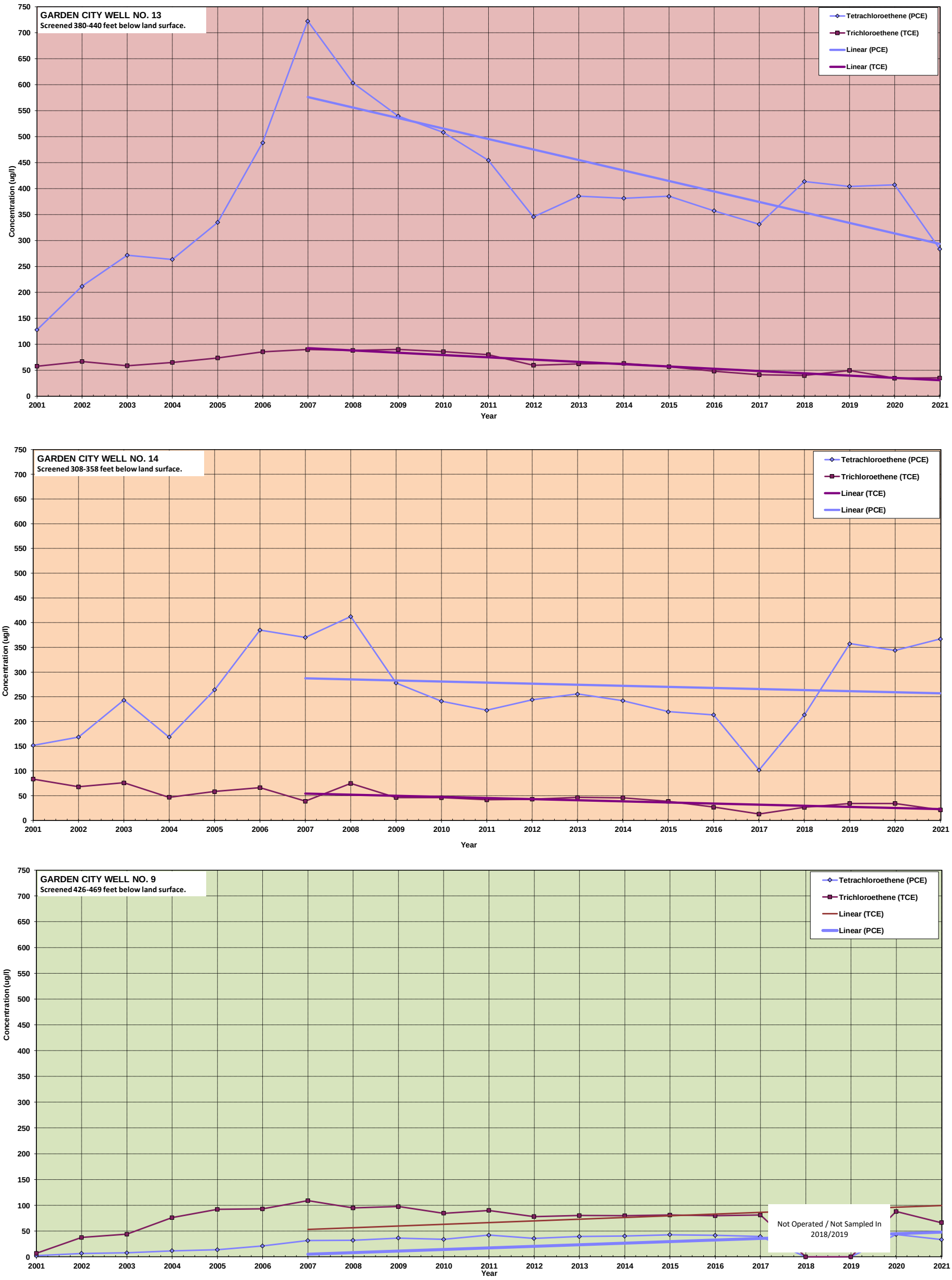


Well N-08339 is screened 308-358 feet below land surface.

FIGURE 4
HISTORIC AVERAGE TETRACHLOROETHENE AND TRICHLOROETHENE CONCENTRATIONS BY YEAR 2001 - 2021
GARDEN CITY PUBLIC WATER SUPPLY WELL NOS. 9, 13 14, GARDEN CITY, NEW YORK

	Year	2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021	
	Compound	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
Well No. 13 (N-07058)	Average Concentra	128.0	57.8	211.8	67.0	271.7	59.0	263.6	65.3	335.0	73.9	488.3	85.8	722.6	90.0	603.4	88.5	539.5	90.3	508.3	86.1	454.3	80.2	345.4	59.7	385.5	62.5	381.1	63.4	385.1	57.1	357.0	48.3	331.3	41.6	413.6	40.0	404.1	49.9	407.1	35.0	283.5	35.4
	Ratio PCE/TCE	2.2		3.2		4.6		4.0		4.5		5.7		8.0		6.8		6.0		5.9		5.7		5.8		6.2		6.0		6.7		7.4		8.0		10.3		8.1		11.6		8.0	
Well No. 14 (N-08339)	Average Concentra	152.0	83.6	168.7	68.2	243.3	76.2	168.6	46.9	264.2	58.6	385.0	66.5	370.1	38.9	412.4	75.0	278.1	46.3	241.2	46.2	222.8	41.7	244.1	43.1	255.8	46.6	242.1	45.9	219.9	38.8	213.6	27.1	102.0	13.1	213.6	26.5	357.5	34.5	343.8	34.5	367.0	21.5
	Ratio PCE/TCE	1.8		2.5		3.2		3.6		4.5		5.8		9.5		5.5		6.0		5.2		5.3		5.7		5.5		5.3		5.7		7.9		7.8		8.1		10.4		10.0		17.1	
Well No. 9 (N-03881)	Average Concentra	2.1	7.0	6.6	37.5	7.9	44.0	11.6	76.0	13.7	92.0	21.0	93.0	31.6	109.0	32.0	94.8	36.4	97.5	33.9	84.6	42.0	90.0	35.7	78.1	39.5	80.2	40.1	79.6	42.8	81.2	41.8	79.8	39.4	81.2	Not Operated / Not Sampled				43.3	88.0	33.4	66.2
	Ratio PCE/TCE	0.3		0.2		0.2		0.2		0.1		0.3		0.3		0.3		0.4		0.4		0.5		0.5		0.5		0.5		0.5		0.5		0.5						0.5		0.5	

Concentrations are in ug/l (ppb).



TABLES

Table 1
OU1 Long-Term Monitoring Well Sampling Program
Fulton Avenue Superfund Site
Garden City Park, New York

Per 2016 SOW Attachment 1: Monitoring Well Sampling Program

Group 1 Wells are as follows:

GCP-01 S/D
GCP 08
GCP-18 S/D
GCP-15S
MW15 A-B
MW20 A-C
MW22 A-C
MW23 A-D

Group 1 Wells shall be sampled and analyzed at the following frequency:

The first sampling round shall commence within 20 days of EPA approval of the RD Work Plan, and sampling shall be performed every 24 months thereafter.

Group 2 Wells are as follows:

MW21 A-D

Group 2 Wells shall be sampled and analyzed at the following frequency:

Year 1 – quarterly, to commence approximately 30 days after completion of construction of MW21 D and MW28 A-H
Year 2 – semi-annually (every six months)
Year 3 – semi-annually (every six months)
Year 4 – no sampling and analysis
Year 5 (and beyond) – once in year 5 and every 24 months thereafter.

Group 3 Wells are as follows:

MW26 A-H
MW27 A-H
MW28 A-H

Group 3 Wells shall be sampled and analyzed at the following frequency:

Year 1 – quarterly, to commence approximately 30 days after completion of construction of MW21 D and MW28 A-H
Year 2 –9 of 24 zones with EPA approval of the specific zones, semi-annually (every six months)
Year 3 – 9 of 24 zones with EPA approval of the specific zones, semi-annually (every six months)
Year 4 – no sampling and analysis
Year 5 (and beyond) – once in year 5 and every 24 months thereafter.