Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: Conklin Upper Landfill Site ID: 704013

Date(s) Sampled: March 30, 2021 Class: 4

Number of Monitoring Wells: 4 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	2	☑
PFOA in groundwater	10 ng/L (ppt)	7.8	☐
PFOS in groundwater	10 ng/L (ppt)	4.88	☐
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	13	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	72.528	☐

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	0	2640	GIS map
Private well(s)	3	~825	GIS map

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	Possible	Minor excedences detected
PFAS	No	Reasonably low levels detected

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☐ Yes ☑ No

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

Payson Long
Project Manager

Jeffrey Dyber
Section Chief

Michael Cruden
Bureau Director

11/30/2022
Date Signed

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Checklist for Completing EC Form 1:

- ☑ Did you include a value in "Maximum Level Detected" even if the screening levels were not exceeded?
- ☑ Did you enter "ND" if nothing detected or "NA" if not analyzed?
- ☑ Did you check your units (ug/L vs ng/L)?
- ☑ Did you include PFOA & PFOS when totaling "Total PFAS"?
- ☑ Did you check yes or no for "Is further action required at this time?"
- ☑ Did you include "next steps", or provide justification for not recommending further action, if RMCLs are exceeded?
- ☑ Did you attach a figure with sampling locations?
- ☑ Did you attach emerging contaminant data? (not the full data package—only enough for all reviewers to double check that the form is filled out properly)
- ☑ Did you read through the internal DER Emerging Contaminant website for guidance on what to do if you have exceedances?
- ☑ Did you check with DOH-BEEI to help confirm the existence of public and private drinking water wells? DOH will handle communications with public water suppliers and local health departments.
- ☑ Is the data in EQuIS?
- ☑ Did you complete the UIS EC project current status per the internal DER Emerging Contaminant website?

This form is to be uploaded to DecDocs when completed. A copy of the signed form is to be sent to Caryn Bower (OGC) and Eric Hausamann (DER Bureau D/Sec D).

Site-specific next steps or rationale for not recommending further action

No further action at this time.

Conklin Upper Landfill

Statistic	Concentration	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	2	ug/L	J1C1873-05	
Maximum PFOA	7.8	ng/L	MW-3-20181206	
Maximum PFOS	4.88	ng/L	J1C1873-03	
Maximum PFAS compound aside from PFOS/PFOA	13	ng/L	J1C1873-05	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)
Total PFAS including PFOS and PFOA	72.528	ng/L	J1C1873-03	

MW-1	Well ID Date	J1C1873-01 3/30/2021				J1C1873-09 3/30/2021				MW-1-20181206 12/6/2018				MW-1-FD-20181206 12/6/2018			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL	Result	Lab Quals	Interpreted Quals	RDL	Result	Lab Quals	Interpreted Quals	RDL	Result	Lab Quals	Interpreted Quals	RDL
Perfluorobutanesulfonic acid (PFBS)	ng/l	0.900				0.900				< 0.37	U	U	0.37	< 0.4	U	U	0.4
Perfluoroheptane Sulfonate (PFHPS)	ng/l	1.00				1.00				< 0.7	U	U	0.7	< 0.74	U	U	0.74
Perfluorobutanoic Acid (PFBA)	ng/l	5.08				1.00				< 0.35	U	U	0.35	0.54	J B	J B	0.37
Perfluoroheptanoic acid (PFHpA)	ng/l	1.00				1.00				0.6	J	J	0.27	0.37	J	J	0.29
Perfluorononanoic acid (PFNA)	ng/l	1.00				1.00				< 0.32	U	U	0.32	< 0.34	U	U	0.34
Perfluorohexanesulfonic acid (PFHxS)	ng/l	0.900				0.900				< 0.22	U	U	0.22	< 0.23	U	U	0.23
Perfluorooctanesulfonic acid (PFOS)	ng/l	1.00				1.00				< 0.64	U	U	0.64	< 0.68	U	U	0.68
Perfluorodecane Sulfonic Acid	ng/l									< 0.45	U	U	0.45	< 0.48	U	U	0.48
Perfluorooctanoic acid (PFOA)	ng/l	1.00				1.00				1	J B	J B	0.27	1	J B	J B	0.29
Perfluorodecanoic acid (PFDA)	ng/l	1.00				1.00				< 0.32	U	U	0.32	< 0.34	U	U	0.34
Perfluoropentanoic Acid (PFPeA)	ng/l	1.00				1.00				0.81	J	J	0.64	0.9	J	J	0.67
Perfluorohexanoic acid (PFHxA)	ng/l	1.00				1.00				0.55	J	J	0.2	0.52	J	J	0.22
Perfluoroundecanoic Acid (PFUnA)	ng/l	1.00				1.00				0.38	J B	J B	0.21	0.27	J B	J B	0.22
Perfluorododecanoic acid (PFDoA)	ng/l	1.00				1.00				< 0.3	U	U	0.3	< 0.31	U	U	0.31
Perfluorotridecanoic Acid (PFTriA)	ng/l	1.00				1.00				< 0.2	U	U	0.2	< 0.22	U	U	0.22
Perfluorotetradecanoic acid (PFTA)	ng/l	1.00				1.00				< 0.38	U	U	0.38	< 0.4	U	U	0.4
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	ng/l	10.0				10.0				< 0.85	U	U	0.85	< 0.9	U	U	0.9
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	ng/l	10.0				10.0				< 0.47	U	U	0.47	< 0.5	U	U	0.5
Perfluorooctane Sulfonamide (FOSA)	ng/l	10.0				10.0				< 0.47	U	U	0.47	< 0.5	U	U	0.5
2-(N-methyl perfluorooctanesulfonamido) acetic acid	ng/l	10.0				10.0				< 0.38	U	U	0.38	< 0.4	U	U	0.4
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	ng/l	10.0				10.0				< 0.59	U	U	0.59	< 0.63	U	U	0.63
1,4-Dioxane (P-Dioxane)	ug/l	0.3				0.3				< 0.1	U	U	0.1				

MW-1				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0.3	ug/L	J1C1873-01	
Maximum PFOA	1	ng/L	J1C1873-01	
Maximum PFOS	1	ng/L	J1C1873-01	
Maximum PFAS compound aside from PFOS/PFOA	10	ng/L	J1C1873-01	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)
Total PFAS including PFOS and PFOA	68.88	ng/L	J1C1873-01	

MW-3	Well ID Date	J1C1873-03 3/30/2021				MW-3-20181206 12/6/2018			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL	Result	Lab Quals	Interpreted Quals	RDL
Perfluorobutanesulfonic acid (PFBS)	ng/l	0.900				0.71	J	J	0.38
Perfluoroheptane Sulfonate (PFHPS)	ng/l	1.00				< 0.72	U	U	0.72
Perfluorobutanoic Acid (PFBA)	ng/l	1.00				4.7	B	B	0.36
Perfluoroheptanoic acid (PFHpA)	ng/l	1.25				1.9			0.28
Perfluorononanoic acid (PFNA)	ng/l	1.00				0.48	J	J	0.33
Perfluorohexanesulfonic acid (PFHxS)	ng/l	0.908				0.42	J	J	0.23
Perfluorooctanesulfonic acid (PFOS)	ng/l	4.88				3.6			0.66
Perfluorodecane Sulfonic Acid	ng/l					< 0.46	U	U	0.46
Perfluorooctanoic acid (PFOA)	ng/l	4.13				7.8	B	B	0.28
Perfluorodecanoic acid (PFDA)	ng/l	1.00				< 0.33	U	U	0.33
Perfluoropentanoic Acid (PFPeA)	ng/l	1.00				2.2			0.65
Perfluorohexanoic acid (PFHxA)	ng/l	1.46				2.2			0.21
Perfluoroundecanoic Acid (PFUnA)	ng/l	1.00				< 0.22	U	U	0.22
Perfluorododecanoic acid (PFDoA)	ng/l	1.00				< 0.31	U	U	0.31
Perfluorotridecanoic Acid (PFTriA)	ng/l	1.00				< 0.21	U	U	0.21
Perfluorotetradecanoic acid (PFTA)	ng/l	1.00				< 0.39	U	U	0.39
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	ng/l	10.0				< 0.87	U	U	0.87
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	ng/l	10.0				< 0.49	U	U	0.49
Perfluorooctane Sulfonamide (FOSA)	ng/l	10.0				< 0.49	U	U	0.49
2-(N-methyl perfluorooctanesulfonamido) acetic acid	ng/l	10.0				< 0.39	U	U	0.39
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	ng/l	10.0				< 0.61	U	U	0.61
1,4-Dioxane (P-Dioxane)	ug/l	0.3				0.1			0.1

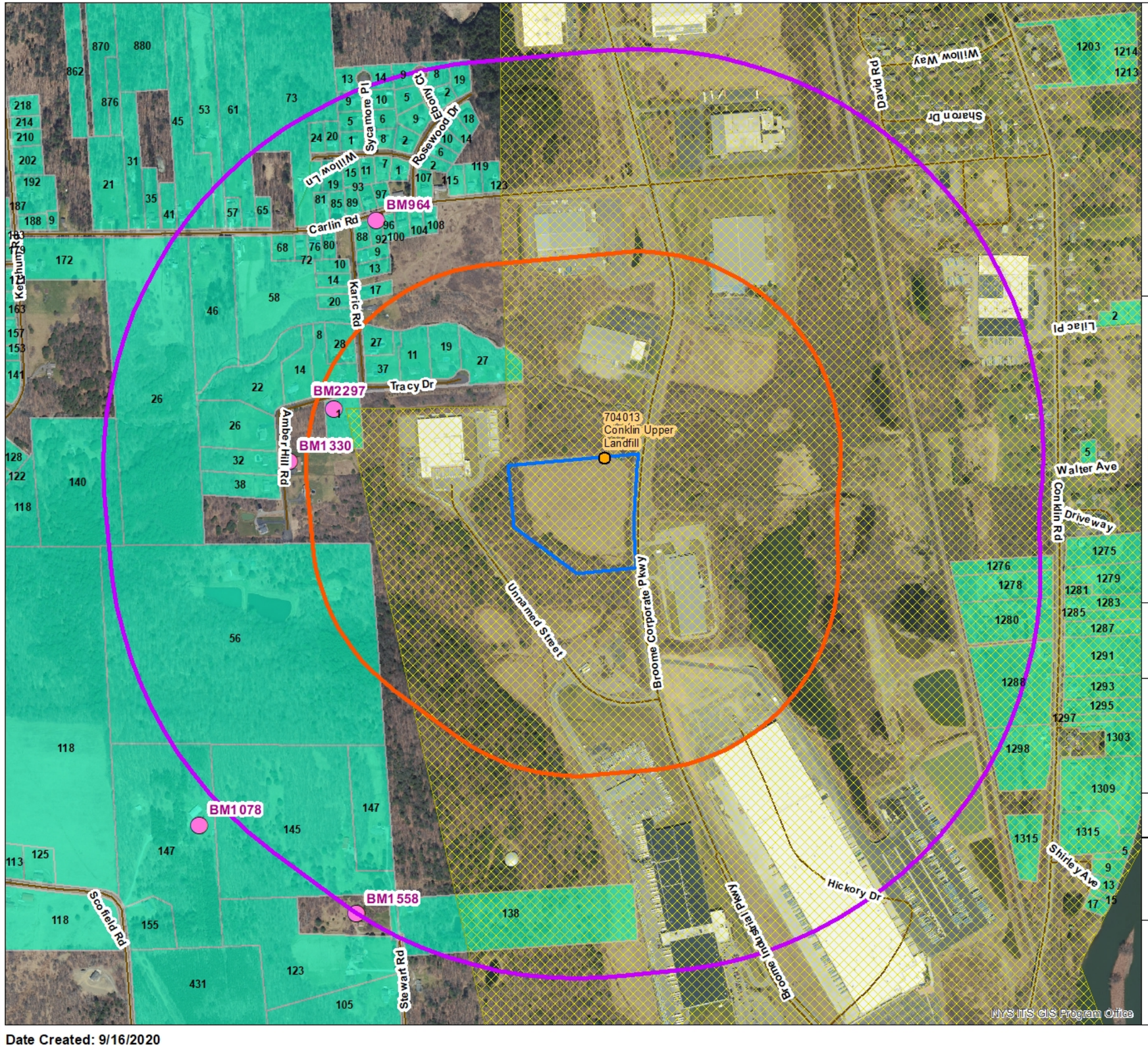
MW-3				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0.3	ug/L	J1C1873-03	
Maximum PFOA	7.8	ng/L	MW-3-20181206	
Maximum PFOS	4.88	ng/L	J1C1873-03	
Maximum PFAS compound aside from PFOS/PFOA	10	ng/L	J1C1873-03	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)
Total PFAS including PFOS and PFOA	72.528	ng/L	J1C1873-03	

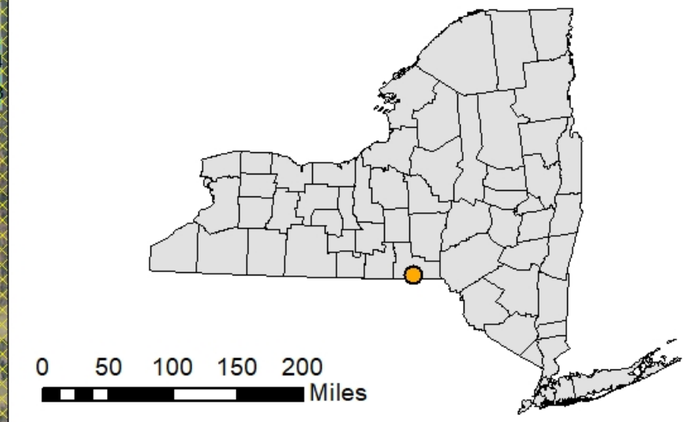
MW-38D	Well ID Date	J1C1873-05 3/30/2021				MW-38D-20181206 12/6/2018			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL	Result	Lab Quals	Interpreted Quals	RDL
Perfluorobutanesulfonic acid (PFBS)	ng/l	0.900				< 0.47	U	U	0.47
Perfluoroheptane Sulfonate (PFHPS)	ng/l	1.00				< 0.88	U	U	0.88
Perfluorobutanoic Acid (PFBA)	ng/l	1.00				1.6	J B	J B	0.44
Perfluoroheptanoic acid (PFHpA)	ng/l	1.00				< 0.34	U	U	0.34
Perfluorononanoic acid (PFNA)	ng/l	1.00				< 0.41	U	U	0.41
Perfluorohexanesulfonic acid (PFHxS)	ng/l	0.900				< 0.28	U	U	0.28
Perfluorooctanesulfonic acid (PFOS)	ng/l	1.00				< 0.81	U	U	0.81
Perfluorodecane Sulfonic Acid	ng/l					< 0.57	U	U	0.57
Perfluorooctanoic acid (PFOA)	ng/l	1.00				0.41	J B	J B	0.34
Perfluorodecanoic acid (PFDA)	ng/l	1.00				< 0.41	U	U	0.41
Perfluoropentanoic Acid (PFPeA)	ng/l	1.00				< 0.8	U	U	0.8
Perfluorohexanoic acid (PFHxA)	ng/l	1.35				0.68	J	J	0.26
Perfluoroundecanoic Acid (PFUnA)	ng/l	1.00				< 0.27	U	U	0.27
Perfluorododecanoic acid (PFDoA)	ng/l	1.00				< 0.37	U	U	0.37
Perfluorotridecanoic Acid (PFTriA)	ng/l	1.00				< 0.26	U	U	0.26
Perfluorotetradecanoic acid (PFTA)	ng/l	1.00				< 0.48	U	U	0.48
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	ng/l	13.0				< 1.1	U	U	1.1
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	ng/l	10.0				< 0.6	U	U	0.6
Perfluorooctane Sulfonamide (FOSA)	ng/l	10.0				< 0.6	U	U	0.6
2-(N-methyl perfluorooctanesulfonamido) acetic acid	ng/l	10.0				< 0.48	U	U	0.48
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	ng/l	10.0				< 0.75	U	U	0.75
1,4-Dioxane (P-Dioxane)	ug/l	2				1.3			0.1

MW-38D				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	2	ug/L	J1C1873-05	
Maximum PFOA	1	ng/L	J1C1873-05	
Maximum PFOS	1	ng/L	J1C1873-05	
Maximum PFAS compound aside from PFOS/PFOA	13	ng/L	J1C1873-05	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)
Total PFAS including PFOS and PFOA	68.15	ng/L	J1C1873-05	

MW-4	Well ID Date	J1C1873-07 3/30/2021				MW-4-20181206 12/6/2018			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL	Result	Lab Quals	Interpreted Quals	RDL
Perfluorobutanesulfonic acid (PFBS)	ng/l	0.900				< 0.38	U	U	0.38
Perfluoroheptane Sulfonate (PFHPS)	ng/l	1.00				< 0.7	U	U	0.7
Perfluorobutanoic Acid (PFBA)	ng/l	4.43				0.99	J B	J B	0.35
Perfluoroheptanoic acid (PFHpA)	ng/l	1.00				0.34	J	J	0.27
Perfluorononanoic acid (PFNA)	ng/l	1.00				< 0.32	U	U	0.32
Perfluorohexanesulfonic acid (PFHxS)	ng/l	0.900				< 0.22	U	U	0.22
Perfluorooctanesulfonic acid (PFOS)	ng/l	1.00				< 0.65	U	U	0.65
Perfluorodecane Sulfonic Acid	ng/l					< 0.45	U	U	0.45
Perfluorooctanoic acid (PFOA)	ng/l	1.04				0.94	J B	J B	0.27
Perfluorodecanoic acid (PFDA)	ng/l	1.00				< 0.32	U	U	0.32
Perfluoropentanoic Acid (PFPeA)	ng/l	1.00				< 0.64	U	U	0.64
Perfluorohexanoic acid (PFHxA)	ng/l	1.00				0.39	J	J	0.2
Perfluoroundecanoic Acid (PFUnA)	ng/l	1.00				< 0.21	U	U	0.21
Perfluorododecanoic acid (PFDoA)	ng/l	1.00				< 0.3	U	U	0.3
Perfluorotridecanoic Acid (PFTriA)	ng/l	1.00				< 0.2	U	U	0.2
Perfluorotetradecanoic acid (PFTA)	ng/l	1.00				< 0.38	U	U	0.38
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	ng/l	10.0				< 0.85	U	U	0.85
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	ng/l	10.0				< 0.48	U	U	0.48
Perfluorooctane Sulfonamide (FOSA)	ng/l	10.0				< 0.48	U	U	0.48
2-(N-methyl perfluorooctanesulfonamido) acetic acid	ng/l	10.0				< 0.38	U	U	0.38
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	ng/l	10.0				< 0.6	U	U	0.6
1,4-Dioxane (P-Dioxane)	ug/l	0.3				0.15			0.1

MW-4				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0.3	ug/L	J1C1873-07	
Maximum PFOA	1.04	ng/L	J1C1873-07	
Maximum PFOS	1	ng/L	J1C1873-07	
Maximum PFAS compound aside from PFOS/PFOA	10	ng/L	J1C1873-07	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)
Total PFAS including PFOS and PFOA	68.27	ng/L	J1C1873-07	





Legend

- Remediation Sites
- Public Wells
- Potential Private Wells
- Public Water Supply Service Areas
- Private Water Source Tax Parcel
- 1/4 Mile Buffer
- 1/2 Mile Buffer
- Site Border

0 0.125 0.25 0.5 Miles

1 inch = 650 feet

Region 7 Broome County
Town of Conklin

Conklin Upper Landfill
#704013
Water Supply Map

Emerging Contaminant Sampling Initiative

Privileged and Confidential
Not for Public Release

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

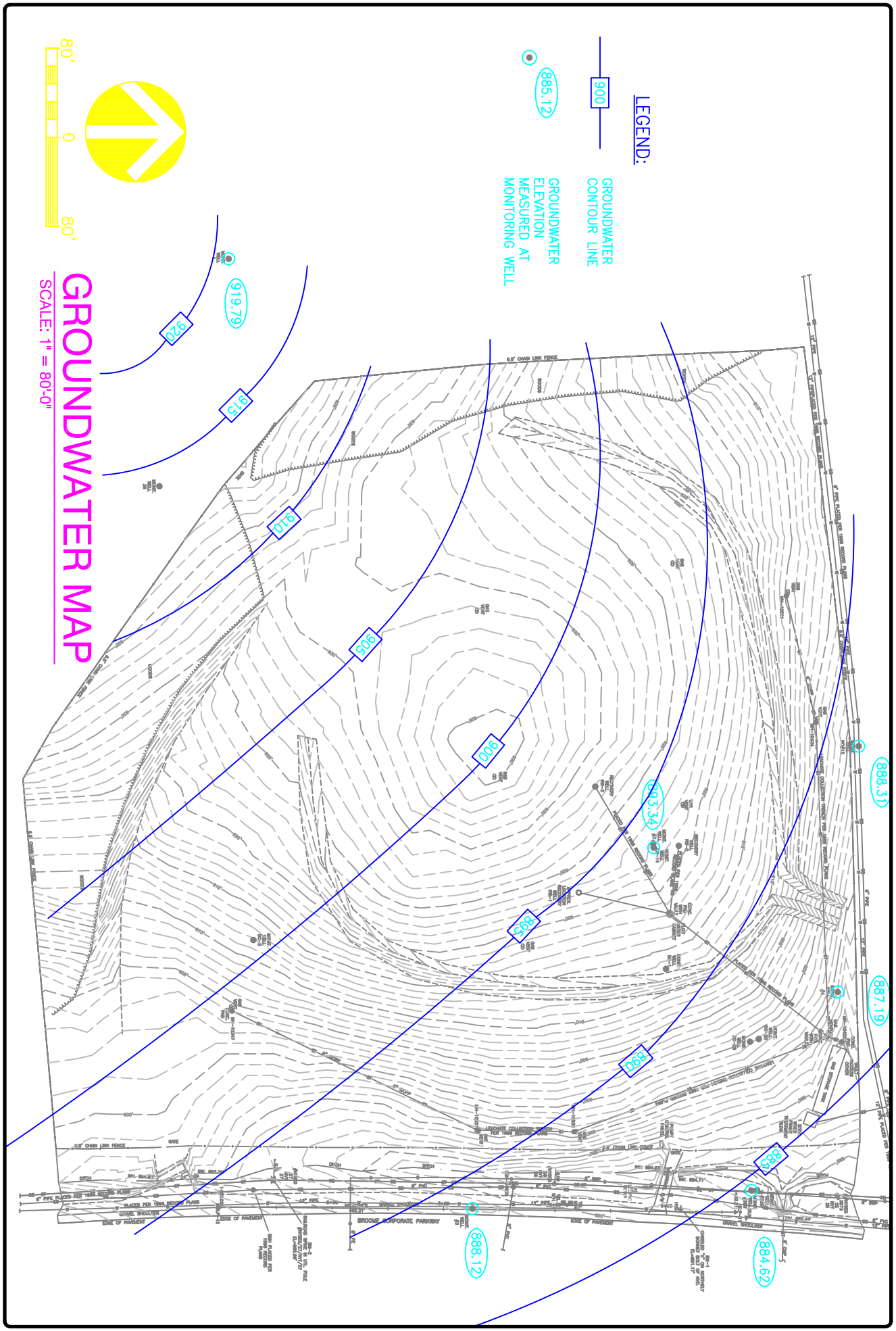
Date Created: 9/16/2020

OBJECTID	RptID	NoticeID	Public	Town	County	DEC_Well_N	Owner	Own_Addres	Own_CTY	Own_State	Own_ZIP	Own_Phone	Well_Loc	Foil_Loc	Latitude	Longitude	Section_Bl	Lmethod	Plus_minu
14967	####	20592	YES	Conklin	BROOME	BM964	JEFF DAVERN	92 CARLIN RD	CONKLIN	NY	13748	6077759228	SAME	CARLIN RD	42 03 16.9	75 49 22.3	194.11-1-23	EST	0
31002	####	39451	YES	Conklin	BROOME	BM1330	BENITO AND LUCILLE SCOTTI	33 AMBER HILL	CONKLIN	NY	13748	6076484155	SAME	AMBER HILL	42 03 01.3	75 49 29.6	194.04-3-1	EST	0
91231	####	103399		Conklin	BROOME	BM2297	RUSSELL MCNULTY	2562 FARM TO MARKET RD	JOHNSON CITY	NY	13780	0	1 AMBER HILL DR, CONKLIN	AMBER HILL DR	42 03 04.7	75 49 25.8			0

OBJECTID	Bedrock_Wa	Elev	TOC	Well_Depth	Rock_Depth	GW_Depth	Cased_Dep	Case1_Di	Case1_Lgth	Case2_Di	Case2_Lgth	Case3_Di	Case3_Lgth	Case4_Di	Case4_Lgth	Grout_Type	Grout_From	Grout_To	SCR
14967	Y		3	260	90	0	90	6	90	0	0	0	0	0	0	Cement	60	90	N
31002	Y		0	220	90	89	99	6	100	0	0	0	0	0	0		0	0	N
91231	Y		1	125	88	49	0	6	10.3	0	0	0	0	0	0	BenSeal	0	89	N

OBJECTID	SCR_Make	SCR_Materi	SCR_Openin	SCR1_Di	SCR1_Lgth	SCR2_Di	SCR2_Lgth	SCR3_Di	SCR3_Lgth	SCR4_Di	SCR4_Lgth	SCR_Depth	YT_Date	YT_Duratio	YT_LiftMth	YT_AveDisc	YT_MaxDis	YT_StatWL	YT_MaxDD	YT_RecovT	YT_DDisch
14967			0	0	0	0	0	0	0	0	0	0				2	0				
31002			0	0	0	0	0	0	0	0	0	0				10	0				
91231			0	0	0	0	0	0	0	0	0	0	8/29/2012 0:00	4:00	Bailer	10	0	60	112	1:45	Y

OBJECTID	PI_Date	P	PI_Type	PI_Make	PI_Model	PI_Capacit	PI_Level	Drill_Meth	Well_Purpo	Start_Date	Complete_D	Rpt_Date	Resp_Drill	Drilling_C	RegNumber	Notice_Dat	Entered	DDLAT	DDLONG
14967	6/6/2002 0:00	Y	Submersible	Flint & Wallin	4E07507305	10	220	Rotary	Domestic	6/4/2002 0:00	6/5/2002 0:00	6/11/2002 0:00	Beavers, Arnold	D A Beavers Well Drilling	NYRD10113	6/4/2002 0:00		42.0546944	-75.8228611
31002	3/2/2004 0:00	Y	Submersible	Flint & Wallin	4f10s07305	10	200	Rotary	Domestic	2/20/2004 0:00	2/20/2004 0:00	3/3/2004 0:00	Beavers, Timothy	D A Beavers Well Drilling	NYRD10113	1/27/2004 0:00		42.0503611	-75.8248889
91231	8/30/2012 0:00	Y	Submersible	Goulds	7SB05422C	7	120	Cable Too	Domestic	8/16/2012 0:00	8/29/2012 0:00	9/18/2012 0:00	Young, Alan R.	Young Well Drilling / Pure Water Proc	NYRD10169	7/25/2012 0:00	11/26/2012 0:00	42.0513056	-75.8238333



SHUMAKER
Consulting Engineering & Land Surveying P.C.
430 Court Street, Suite 200, Utica, New York 13502
Telephone (315) 724-0100 Fax (315) 724-9715

CONKLIN LANDFILL
FOLLOW-UP REPORT
1271 CONKLIN ROAD — CONKLIN, NEW YORK

DRAWING TITLE
AUGUST 2017
GROUNDWATER
POTENTIOMETRIC MAP

Drawn By:	CAB
Checked By:	WCN
Project Mgr:	WCN
Date:	8/10/17
Project No:	R09357

FIGURE
1