

Village of Endicott
Industrial Pretreatment Dept.
c/o 1009 E. Main St.
Endicott, New York 13760

March 1, 2021

USEPA, Region II
Emergency and Remediation Response Division
290 Broadway
New York, New York 10007
Attn: Sherrel Henry

Re: Supplemental Purge Well,
Endicott Wellfield Site

Dear Ms. Henry:

Pursuant to EPA's approval of the Village of Endicott's proposal for a reduction in the frequency of monitoring and analysis for the Supplemental Purge Well, I am submitting a report for 2020 for the supplemental purge well as well as for the final effluent.

The average daily flows for 2020 are: 224,546 gal/day (157 gal/min)

Within this report are summaries of daily SPW flows, a listing of detectable VOC's for both SPW and final effluent, water level readings for 2020 and a Landfill Inspection Report.

If you have any questions concerning this report, please call me at 607-757-5352.

Sincerely,



Philip Grayson
Chief Operator, Wastewater

cc: NYSDEC, Payson Long

2020

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Prev.	109766	119961	129047	138383	145873		155128	155456	155902	160369		181459
1	110102	120197	129365	138652	146120	152465	155187	155456	156105	160555	172727	181770
2	110501		129717	138967	146332	152630	155255	155456	156250	160976	173117	182088
3	110781	120882	130022	139239	146589	152761	155300	155456	156385	161239	173489	182337
4	111059	121234	130350		146912	152899	155350	155456	156509	161668	173903	182617
5		121523		139761	147098	153036	155456	155456	156654	162219	174188	182848
6	111847	121830	130997	140036	147333	153106	155456	155456	156829	162554		183136
7	112117			140315	147573	153231	155456	155456	156985		174817	183428
8	112496		131585	140586	147750	153364	155456	155456	157159	163385		183660
9	112787	122768	131928	140815	147974	153471	155456	155456	157332	163888	175469	183950
10	113139	123108		141093	148197		155456	155456	157579	164172	175729	184208
11			132553	141316	148446		155456	155456		164574	176084	184437
12		123711	132870		148663	153775	155456	155456	157846	165033	176344	
13	114085	124068	133175	141863	148898	153882	155456	155456	158001	165449	176689	185347
14		124366		142110	149102		155456	155456	158144			185914
15	114740			142347	149280	154097	155456	155459		166279	177327	186422
16	115074		134110	142592	149462	154180	155456		158438	166756	177572	186899
17	115459	125358	134398	142803		154260	155456		158560		177824	
18		125669	134698		149902		155456	155472	158737		178127	
19	116012	126027		143293	150109	154431	155456	155472		167862	178413	
20	116378	126323	135257	143556	150325	154498	155456	155472	159013	168270	178679	
21	116749	126641	135511	143785	150506		155456	155472	159161	168704	178914	
22	117029	126995	135829	144033	150714	154861	155456	155472	159312	169120	179199	189883
23	117391	127195	136146	144268	150874	154734	155456	155472	159452	169388	179511	190287
24	117715	127538	136430	144513		154800	155456	155472	159565	169768	179845	
25				144701	151242	154865	155456	155472	159695		180081	
26			136970		151474	154934	155456	155472	159808		180328	
27	118626	128472	137259	145199	151612		155456	155472		170949	180680	
28	118958	128778	137539	145433	151804	155023	155456		160129	171373	180880	191571
29	119289	129047		145670	151953	155072	155456	155591		171736		191678
30	119610		138129	145873		155128	155456		160369	172102	181549	
31	119961		138383				155456	155902				

Supplemental Purge Well

Daily Flow Readings: 2020

Gal./Day

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	336,000	236,000	318,000	269,000	247,000	170,667	59,000	0	203,000	186,000	312,500	311,000
2	399,000	342,500	352,000	315,000	212,000	165,000	68,000	0	145,000	421,000	390,000	318,000
3	280,000	342,500	305,000	272,000	257,000	131,000	45,000	0	135,000	263,000	372,000	249,000
4	278,000	352,000	328,000	261,000	323,000	138,000	50,000	0	124,000	429,000	414,000	280,000
5	394,000	289,000	323,500	261,000	186,000	137,000	106,000	0	145,000	551,000	285,000	231,000
6	394,000	307,000	323,500	275,000	235,000	70,000	0	0	175,000	335,000	314,500	288,000
7	270,000	312,667	294,000	279,000	240,000	125,000	0	0	156,000	415,500	314,500	292,000
8	379,000	312,667	294,000	271,000	177,000	133,000	0	0	174,000	415,500	326,000	232,000
9	291,000	312,667	343,000	229,000	224,000	107,000	0	0	173,000	503,000	326,000	290,000
10	352,000	340,000	312,500	278,000	223,000	101,333	0	0	247,000	284,000	260,000	258,000
11	315,333	301,500	312,500	223,000	249,000	101,333	0	0	133,500	402,000	355,000	229,000
12	315,333	301,500	317,000	273,500	217,000	101,333	0	0	133,500	459,000	260,000	455,000
13	315,333	357,000	305,000	273,500	235,000	107,000	0	0	155,000	416,000	345,000	455,000
14	327,500	298,000	311,667	247,000	204,000	107,500	0	0	143,000	415,000	319,000	567,000
15	327,500	330,667	311,667	237,000	178,000	107,500	0	3,000	147,000	415,000	319,000	508,000
16	334,000	330,667	311,667	245,000	182,000	83,000	0	4,333	147,000	477,000	245,000	477,000
17	385,000	330,667	288,000	211,000	220,000	80,000	0	4,333	122,000	368,667	252,000	497,333
18	276,500	311,000	300,000	245,000	220,000	85,500	0	4,333	177,000	368,667	303,000	497,333
19	276,500	358,000	279,500	245,000	207,000	85,500	0	0	138,000	368,667	286,000	497,333
20	366,000	296,000	279,500	263,000	216,000	67,000	0	0	138,000	408,000	266,000	497,333
21	371,000	318,000	254,000	229,000	181,000	81,500	0	0	148,000	434,000	235,000	497,333
22	280,000	354,000	318,000	248,000	208,000	81,500	0	0	151,000	416,000	285,000	497,333
23	362,000	200,000	317,000	235,000	160,000	73,000	0	0	140,000	268,000	312,000	404,000
24	324,000	343,000	284,000	245,000	184,000	66,000	0	0	113,000	380,000	334,000	256,800
25	303,667	311,333	270,000	188,000	184,000	65,000	0	0	130,000	393,667	236,000	256,800
26	303,667	311,333	270,000	249,000	232,000	69,000	0	0	113,000	393,667	247,000	256,800
27	303,667	311,333	289,000	249,000	138,000	44,500	0	0	160,500	393,667	352,000	256,800
28	332,000	306,000	280,000	234,000	192,000	44,500	0	59,500	160,500	424,000	200,000	256,800
29	331,000	269,000	295,000	237,000	149,000	49,000	0	59,500	120,000	363,000	334,500	107,000
30	321,000		295,000	203,000	170,667	56,000	0	155,500	120,000	366,000	434,500	88,000
31	351,000		254,000		170,667		0	155,500		312,500		88,000
Total	10,195,000	9,086,000	9,336,000	7,490,000	6,421,333	2,833,667	328,000	446,000	4,467,000	12,045,500	9,234,500	10,395,000
Ave	328,871	313,310	301,161	249,667	207,140	99,414	0	14,387	148,900	388,565	307,817	335,323
Gal/Hr.	13,703	13,055	12,548	10,403	8,631	4,142	441	599	6,204	16,190	12,826	13,972
Gal/Min	228	218	209	173	144	69	7	10	103	270	214	233

Supplemental Purge Well
Monthly Analysis: VOC's
2020 Detectable Quantities

Parameter	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Results in ug/L													
Vinyl Chloride					29.3						27.3		56.6
Chloromethane					<1.0						<1.0		0.0
Chloroethane					<1.0						<1.0		0.0
Methylene Chloride					<1.0						<1.0		0.0
Dichlorodifluoromethane					<1.0						<1.0		0.0
Trichloroethylene					<1.0						<1.0		0.0
1,1-Dichloroethane					1.94						1.69		3.6
1,1-Dichloroethylene					<1.0						<1.0		0.0
cis-1,2-Dichloroethylene					23.1						18.4		41.5
cis-1,3-Dichloropropene					<1.0						<1.0		0.0
Chlorobenzene					3.67						3.23		6.9
Benzene					1.05						1.11		2.2
Toluene					<1.0						<1.0		0.0
Chloroform					<1.0						<1.0		0.0
m-Xylene & p-Xylene					<1.0						<1.0		0.0
Total VOC's					59.1						51.7		111

Final Effluent
Monthly Analysis: VOC's
2020 Detectable Quantities

Parameter	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Results in ug/L													
Vinyl Chloride					<1.0						<1.0		0
Chloromethane					<1.0						<1.0		0
Chloroethane					<1.0						<1.0		0
Methylene Chloride					<1.0						<1.0		0
Dichlorodifluoromethane					<1.0						<1.0		0
Trichloroethylene					<1.0						<1.0		0
1,1-Dichloroethane					<1.0						<1.0		0
1,1-Dichloroethylene					<1.0						<1.0		0
cis-1,2-Dichloroethylene					<1.0						<1.0		0
cis-1,3-Dichloropropene					<1.0						<1.0		0
Chlorobenzene					<1.0						<1.0		0
Benzene					<1.0						<1.0		0
Toluene					<1.0						<1.0		0.0
Chloroform					5.33						7.81		13.1
Bromodichloromethane					5.90						6.52		12.4
m-Xylene & p-Xylene					<1.0						<1.0		0
Total VOC's					11.23						14.3		25.6

GROUNDWATER DEPTHS
VILLAGE OF ENDICOTT
ANNUAL SUMMARIES: 2020

Well No.	Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
B-4												
B-21												
EW-3D					20.1				25.0			
EW-8					21.1				26.0			
EW-9												
EW-11												
EW-12												
EW-14					20.5				24.3			
MW-3					28.6				33.4			
MW-6D					22.7				28.1			
MW-8D												
MW-9D												
MW-7S					18.9				24.5			
MW-7D					15.9				23.2			
MW-11												
MW-12									29.3			
MW-13D					10.8				15.7			
MW-21					30.0				35.2			
MW-22D					28.1				33.5			
MW-25D					16.3				22.4			
MW-29					12.5				17.3			
MW-30					22.0				26.7			
MW-31												
MW-32									13.0			
MW-33					17.6				23.1			
MW-34					13.7				18.4			
MW-35												
SPW					21.1				28.8			

GROUNDWATER ELEVATIONS
VILLAGE OF ENDICOTT
ANNUAL SUMMARIES: 2020

Well No.		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
B-4													
B-21													
EW-3D						798.23				793.33			
EW-8						802.24				797.34			
EW-9													
EW-11													
EW-12													
EW-14						802.54				798.74			
MW-3						801.92				797.12			
MW-6D						803.85				798.45			
MW-8D													
MW-9D													
MW-7S						804.31				798.71			
MW-7D						807.38				800.08			
MW-11													
MW-12													
MW-13D						803.49				798.59			
MW-21						804.56				799.36			
MW-22D						803.73				798.33			
MW-25D						805.22				799.12			
MW-29						804.01				799.21			
MW-30						801.47				796.77			
MW-31													
MW-32													
MW-33						801.77				796.27			
MW-34						801.67				796.97			
MW-35													
SPW						801.27				793.57			

POST CLOSURE INSPECTION FORM

Checklist

A. Capped Area

Capped area will be inspected by traversing the cover and observing for the following items:

		<u>No</u>	<u>Yes</u>
1.	Is there bare, dead or damaged grassed area?	<u>X</u>	<u> </u>
2.	Is there evidence of cracks or subsidence?	<u>X</u>	<u> </u>
3.	Is there evidence of burrowing by animals?	<u>X</u>	<u> </u>
4.	Is there any deep-rooted vegetation present?	<u>X</u>	<u> </u>
5.	Is there any erosion damage to grassed areas?	<u>X</u>	<u> </u>

Comments: *(Required for each Yes answer)*

B. Paved Areas and Access Roads

The paved areas and access roads on the property will be inspected by traversing their entire length and observing for the following:

		<u>No</u>	<u>Yes</u>
1.	Is there any erosion damage to road/paved surface?	<u>X</u>	<u> </u>
2.	Are there substantial potholes?	<u>X</u>	<u> </u>
3.	Is there evidence of cracks or subsidence?	<u> </u>	<u>X</u>

Comments: *(Required for each Yes answer)*

The Village intends to utilize millings and
fill to reduce and eliminate the
subsidence.

C. Site Drainage System

The drainage system will be inspected by traversing the full length of the system and examining for the following:

	<u>No</u>	<u>Yes</u>
Over-Cover Drainage		
1. Is there any damage to swales?	<u>X</u>	___
2. Is there any debris in swales?	<u>X</u>	___
3. Is there any sloughing of cap system?	<u>X</u>	___
Perimeter Drainage		
1. Is there any damage to drainage ditch?	<u>X</u>	___
2. Is there any debris or sediment in drainage ditch?	<u>X</u>	___
3. Seeps observed?	<u>X</u>	___

Comments (Required for each Yes answer)

D. Monitoring Wells

	<u>No</u>	<u>Yes</u>
Monitoring Wells will be inspected for the following:		
1. Is there any damage to the lock or locking cap?	<u>X</u>	___
2. Is there any evidence of erosion of soils in the immediate area around the well casing?	<u>X</u>	___
3. Is concrete collar cracked or settled?	<u>X</u>	___

Comments (Required for each Yes answer)

E. Gas Vents

Gas vents will be inspected for the following:

	<u>No</u>	<u>Yes</u>
1. Is there any damage to the risers?	<u>X</u>	_____
2. Are any insert screens broken or missing?	<u>X</u>	_____

Comments (Required for each Yes answer)

3. Description of Air Monitoring Activities (indicate readings)

F. Security

Site security of the facility will be inspected by examining the following items:

	<u>No</u>	<u>Yes</u>
1. Is there any damage to gates?	<u>X</u>	_____
2. Are there any damaged, missing or obstructed warning signs?	<u>X</u>	_____

Comments (Required for each Yes answer)

Philip Grayson

Inspector

Signature

11/18/2020

Date