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

February 19, 2019

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 2018 for the supplemental purge well as well as for the final effluent.

The average daily flows for 2018 are: 466,952 gal/day (325 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 2018 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
NYSDEC, Tim DiGiulio, P.E.

Supplemental Purge Well Flow Meter Readings
2018

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Prev.	202669	217580		244464	259488	274739	289167	303831	318597		346700	360318
1		218051	230952		259971	275216				332974	347205	360554
2	204543	218580		245474	260458		290179	304766	319834	333377	347732	361004
3		218931			260976		290664			333908	348112	361604
4	205476				261573				320368	334382	348528	362049
5			232757	246987	261890	277266	291707		320856	334894		362561
6	206254	220412	233289	247581		277719	292161	306607	321320		349496	362972
7			233666	247941	262956	278201		307071	321851		349895	363474
8	207237		234129		263408	278661		307566		336207	350447	
9	207739			249011	263909		293525			336709		
10	208081		234976	249444	264549		294048		323243	337126	351272	364775
11	208526		235451	249946		280147	294486		323563	337695	351738	365215
12	208903	223049	235951	250499		280634	295010	309405	324068	338123		365649
13		223475	236429			281178		309934	324539		352709	366095
14	209760	223927	236851		266418	281584	295601	310385	325053		353075	366588
15	210267	224396	237286		266868	282024	296281	310917		339484	353669	366918
16				252483	267419		296815	311476	325859	339906	354120	367398
17	211230			252940	267882		297230	311811	326450	340405	354439	367861
18				253540	268459	283510	297742		326784	340937		
19		226272		253944	268989	284000	298214		327350	341368	355370	368844
20		226675	239562			284490	298768	313328		341708	355902	369201
21		227162	240004	254932	269858	284930		313792	328362		356251	369628
22	213444	227606	240420	255444	270420	285482		314282	328704	342678		
23		228048	240971	255998	270848		300087	314714		343088	357217	370446
24				256561	271319		300489	315326	329675	343592		
25	214833				271757	286854	301031		330153	344045		
26	215679	229483	242349	257436	272254		301490	316129	330640	344560	358458	371841
27		229963	242704	257996		287821	302003	316639			358965	372303
28			243127			288279		317106	331622			372772
29	216745		243605		273803	288763	302876	317543		345848	359903	
30	217182			259488	274230	289167	303366	318046		346258	360318	
31	217580		244464		274739		303831	318597		346700		374066

Suppemental Purge Well
Daily Flow Readings: 2018
Gal./Day

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	468,500	471,000	494,500	505,000	483,000	477,000	506,000	467,500	618,500	450,667	505,000	236,000
2	468,500	529,000	451,250	505,000	487,000	512,500	506,000	467,500	618,500	403,000	527,000	450,000
3	466,500	351,000	451,250	504,333	518,000	512,500	485,000	460,250	267,000	531,000	380,000	600,000
4	466,500	493,667	451,250	504,333	597,000	512,500	521,500	460,250	267,000	474,000	416,000	445,000
5	466,500	493,667	451,250	504,333	317,000	512,500	521,500	460,250	488,000	512,000	484,000	512,000
6	389,000	493,667	532,000	594,000	533,000	453,000	454,000	460,250	464,000	437,667	484,000	411,000
7	389,000	439,500	377,000	360,000	533,000	482,000	454,667	464,000	531,000	437,667	399,000	502,000
8	491,500	439,500	463,000	535,000	452,000	460,000	454,667	495,000	464,000	437,667	552,000	433,667
9	502,000	439,500	423,500	535,000	501,000	495,333	454,667	459,750	464,000	502,000	412,500	433,667
10	342,000	439,500	423,500	433,000	640,000	495,333	523,000	459,750	464,000	417,000	412,500	433,667
11	445,000	439,500	475,000	502,000	467,250	495,333	438,000	459,750	320,000	569,000	466,000	440,000
12	377,000	439,500	500,000	553,000	467,250	487,000	524,000	459,750	505,000	428,000	485,500	434,000
13	428,500	426,000	478,000	496,000	467,250	544,000	295,500	529,000	471,000	453,667	485,500	446,000
14	428,500	452,000	422,000	496,000	467,250	406,000	295,500	451,000	514,000	453,667	366,000	493,000
15	507,000	469,000	435,000	496,000	450,000	440,000	680,000	532,000	403,000	453,667	594,000	330,000
16	415,500	469,000	455,200	496,000	551,000	495,333	534,000	559,000	403,000	422,000	451,000	480,000
17	481,500	469,000	455,200	457,000	463,000	495,333	415,000	335,000	591,000	515,500	319,000	463,000
18	442,800	469,000	455,200	600,000	577,000	495,333	512,000	505,667	334,000	515,500	465,500	491,500
19	442,800	469,000	455,200	404,000	530,000	490,000	472,000	505,667	566,000	431,000	465,500	491,500
20	442,800	542,750	455,200	494,000	434,500	490,000	554,000	505,667	506,000	340,000	532,000	357,000
21	442,800	465,500	442,000	494,000	434,500	440,000	439,667	464,000	506,000	485,000	349,000	427,000
22	442,800	465,500	416,000	512,000	562,000	552,000	439,667	490,000	342,000	485,000	483,000	409,000
23	463,000	442,000	551,000	554,000	428,000	457,333	439,667	432,000	485,500	410,000	483,000	409,000
24	463,000	478,333	459,333	563,000	471,000	457,333	402,000	612,000	485,500	504,000	413,667	465,000
25	463,000	478,333	459,333	437,500	438,000	457,333	542,000	401,500	478,000	453,000	413,667	465,000
26	846,000	478,333	459,333	437,500	497,000	483,500	459,000	401,500	487,000	515,000	413,667	465,000
27	355,333	480,000	355,000	560,000	516,333	483,500	513,000	510,000	491,000	429,333	507,000	462,000
28	355,333	494,500	423,000	497,333	516,333	458,000	436,500	467,000	491,000	429,333	469,000	469,000
29	355,333		478,000	497,333	516,333	484,000	436,500	437,000	450,667	429,333	469,000	431,333
30	437,000		429,500	497,333	427,000	404,000	490,000	503,000	450,667	410,000	415,000	431,333
31	398,000		429,500		509,000		465,000	551,000		442,000		431,333
Total	13,883,000	13,017,250	14,006,500	15,024,000	15,251,000	14,428,000	14,664,000	14,766,000	13,926,333	14,176,667	13,618,000	13,748,000
Ave	447,839	464,902	451,823	500,800	491,968	484,519	466,308	476,323	464,211	457,312	453,933	443,484
Gal/Hr.	18,660	19,371	18,826	20,867	20,499	20,188	19,710	19,847	19,342	19,055	18,914	18,478
Gal/Min	311	323	314	348	342	336	328	331	322	318	315	308

Supplemental Purge Well
Monthly Analysis: VOC's
2018 Detectable Quantities

Parameter	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Results in ug/L													
Vinyl Chloride						**23**						**17**	**40.0**
Chloromethane						<1.0						<0.5	0.0
Chloroethane						<1.0						<0.5	0.0
Methylene Chloride						<1.0						**0.50**	0.0
Dichlorodifluoromethane						<1.0						<0.25	0.0
Trichloroethylene						<1.0						**0.46**	**0.5**
1,1-Dichloroethane						<1.0						**2.5**	**2.5**
1,1-Dichloroethylene						<1.0						<0.5	0.0
cis-1,2-Dichloroethylene						**22.0**						**21**	**43.0**
cis-1,3-Dichloropropene						<1.0						<0.25	0.0
Chlorobenzene						**2.9**						**2.6**	**5.5**
Benzene						<1.0						**0.77**	**0.8**
Toluene						<1.0						<0.25	0.0
Chloroform						<1.0						<0.13	0.0
m-Xylene & p-Xylene						<1.0						<0.5	0.0
Total VOC's						**47.9**						**44.8**	**93**

Final Effluent
Monthly Analysis: VOC's
2018 Detectable Quantities

Parameter	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
						Results in ug/L							
Vinyl Chloride						<1.0						<0.25	0
Chloromethane						<1.0						<0.5	0
Chloroethane						<1.0						<0.5	0
Methylene Chloride						<1.0						**0.27**	**0.27**
Dichlorodifluoromethane						<1.0						<0.25	0
Trichloroethylene						<1.0						<0.25	0
1,1-Dichloroethane						<1.0						<0.13	0
1,1-Dichloroethylene						<1.0						<0.5	0
cis-1,2-Dichloroethylene						<1.0						<0.25	**0**
cis-1,3-Dichloropropene						<1.0						<0.25	0
Chlorobenzene						<1.0						<0.13	**0**
Benzene						<1.0						<0.13	0
Toluene						<1.0						<0.25	0.0
Chloroform						**4.2**						**0.77**	**5.0**
Bromodichloromethane						**3.9**						**0.41**	**4.3**
m-Xylene & p-Xylene						<2.0						<0.5	0
Total VOC's						**8.1**						**1.5**	**9.6**

GROUNDWATER ELEVATIONS
VILLAGE OF ENDICOTT

SAMPLED BY: P. Grayson DATE: 7/31/2018

Well No.	Time	(TOR) Elevation	Water Depth	Water Elevation	Comments
B-4					
B-21					
EW-3D		818.33	22.4	795.93	
EW-8		823.34	23.7	799.64	
EW-9		818.61	19.5	799.11	
EW-11					
EW-12		830.33		830.33	
EW-14		823.04	22.0	801.04	
MW-3		830.52	31.6	798.92	
MW-6D		826.55	25.2	801.35	
MW-8D					
MW-9D		832.07		832.07	
MW-7S		823.21	22.0	801.21	
MW-7D		823.28	17.4	805.88	
MW-11		827.61		827.61	
MW-12		829.74		829.74	
MW-13D		814.29	13.2	801.09	
MW-21		834.56	32.4	802.16	
MW-22D		831.83	30.7	801.13	
MW-25D		821.52	18.9	802.62	
MW-29		816.51	15.2	801.31	
MW-30		823.47	24.5	798.97	
MW-31		823.00		823.00	
MW-32		809.85		809.85	
MW-33		819.37	20.8	798.57	
MW-34		815.37	16.5	798.87	
MW-35		820.34	21.2	799.14	
SPW		822.37	24.7	797.67	

POST CLOSURE INSPECTION FORM

Checklist

A. Capped Area

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

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

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:

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

Comments: *(Required for each Yes answer)*

C. Site Drainage System

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

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

Comments *(Required for each Yes answer)*

D. Monitoring Wells

Monitoring Wells will be inspected for the following:

		No	Yes
1.	Is there any damage to the lock or locking cap?	X	
2.	Is there any evidence of erosion of soils in the immediate area around the well casing?	X	
3.	Is concrete collar cracked or settled?	X	

Comments *(Required for each Yes answer)*

E. Gas Vents

Gas vents will be inspected for the following:

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

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:

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

Comments *(Required for each Yes answer)*

Philip Grayson
Inspector

Signature

7/30/2018
Date