TCEQ – 1J

River Road Waste Water Treatment Plant (RR WWTP) Effluent

Site Description:

This site is at the RR WWTP chlorine injection box after the second clarification and prior to the WW DZ 1 chlorine injection point before the RR WWTP chlorine contact basin. The analysis that was performed at this site monitors the quality of the RR WWTP effluent.

Protocol:

TCEQ 1J RR WWTP Effluent (at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point before the RR WWTP chlorine contact basin)									
	5-min	15-min	2-hr	4-hr	1/day	1/day or Δ	2/week	1/week	S/30/E
Flow rate		X							
Turbidity		X							
Temperature		X							
pH level					X				
TDS								X	
TSS					X				
Daily flow rate					X				
Nitrate					X				X
E. coli					X				X
Giardia					X				X
Cryptosporidium					X				X
5 Day CBOD					X				
Alkalinity								X	
TOC								X	
DOC								X	
Full metal scan								X	
Bromide								X	
THM								X	
HAA5								X	
Chemicals listed in 290.106(b) Inorganic chemicals									X
Chemicals listed in 290.107(b) organic chemicals									X
Chemicals listed in 290.108(b)(1) and 290.108(b) and 40 CFR 141.66(d)									X
Chemicals listed in 290.118(b) secondary Chemicals									X
Perchlorate									X
Total culturable viruses									X

Summary Table:

TCEQ – 1J River Road Wastewater Treatment Plant Effluent

	Flow (gpm)	Turbidity	Temp (15 MIN)	Free NH3 (15 MIN)	*E. coli* (CFU) on-site	*Giardia* on-site	*Cryptosporidium* on-site	*E. coli* off-site	*Giardia off-site* (Cysts/L)	*Cryptosporidium off-site* (Oocysts/L)	TCV off-site	CBOD
Units	gpm	NTU	˚C	ppm	CFU	Cysts/L	Oocysts/L	MPN	Cysts/L	Oocysts/L		
Min	720	0.9	2.0	0.00	350	0	0	1028	11.0	0.00	0.02	3.56
Max	2232	10.8	17.4	5.54	5100	0	0	1028	203.4	4.24	0.02	5.43
Avg	1904	4.0	15.4	2.25	2909	0	0	1028	106.6	2.12	0.02	4.47
95th %	2046	5.5	17.0	3.11	4960	0	0	1028	193.6	4.03	0.02	5.20
n	4173	4173	4173	4176	44	44	44	3	3	3	1	44

	TSS	Flow	TDS	Alkalinity	TOC	DOC on-site	DOC off-site	Arsenic (ug/L - Weekly)	Barium (ug/L - Weekly)	Cadmium (ug/L - Weekly)	Chromium (ug/L - Weekly)	Copper (ug/L - Weekly)
Units	ppm	MGD	ppm	ppm	ppm	ppm	ppm	ug/L	ug/L	ug/L	ug/L	ug/L
Min	3.89	2.69	650	94	12.4	12.9	11.2	1.2	13	0	0	2.2
Max	14.00	2.96	750	126	16.6	13.9	14.0	2.2	18	0	0	6.8
Avg	9.63	2.74	702	104	14.8	13.5	12.6	1.8	16	0	0	3.6
95th %	12.54	2.94	746	120	16.4	13.9	13.8	2.2	18	0	0	6.3
n	44	44	6	10	9	7	7	7	7	7	7	7

	Lead (ug/L - Weekly)	Manganese (ug/L - Weekly)	Mercury (ug/L - Weekly)	Nickel (ug/L - Weekly)	Selenium (ug/L - Weekly)	Silver (ug/L - Weekly)	Zinc (ug/L - Weekly)	TTHM (Weekly)	HAA5 (Weekly)	Bromide (Weekly)	Nitrate (Daily)	Algae Count (CFU/L)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ppm	ppm	CFU/L
Min	0	39	0	3	0	0	18	0.0	1.2	1.1	11.3	379
Max	0	48	0	5	3	0	27	1.4	2.3	1.5	19.9	2002
Avg	0	44	0	4	2	0	24	0.8	1.7	1.2	14.9	1452
95th %	0	47	0	5	3	0	27	1.3	2.3	1.4	18.3	1999
n	7	7	7	7	7	7	7	8	8	7	44	3

	Perchlorate (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Asbestos	Barium (ug/L)	Beryllium (ug/L)	Cadmium (ug/L)	Chromium (ug/L0	Cyanide (mg/L)	Fluoride (mg/L)	Mercury (ug/)	Nitrate as Nitrogen (Start/30/End)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ppm	ppm	ug/L	ppm
Min	0.00	0	0.0	0	10	0	0	0	0.00	0.81	0	14.00
Max	0.14	0	1.4	0	19	0	0	0	0.01	2.10	0	16.00
Avg	0.09	0	0.5	0	14	0	0	0	0.00	1.27	0	14.67
95th %	0.14	0	1.3	0	18	0	0	0	0.00	1.98	0	15.80
n	3	3	3	3	3	3	3	3	3	3	3	3

	Nitrite as Nitrogen (mg/L)	Nitrate & Nitrite (Total) (mg/L)	Selenium (ug/L)	Thallium (ug/L)	Alachlor (ug/L)	Atrazine (ug/L)	Benzopyrene (ug/L)	Carbofuran (ug/L)	Chlordane (ug/L)	Dalapon (ug/L)	Dibromochloropropane (ug/L)	Di(2-ethylhexyl)adipate (ug/L)
Units	ppm	ppm	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Min	0.00	14.00	0.0	0	0	0	0	0	0	0	0	0
Max	0.35	16.35	3.2	0	0	0	0	0	0	0	0	0
Avg	0.19	14.86	1.1	0	0	0	0	0	0	0	0	0
95th %	0.34	16.14	2.9	0	0	0	0	0	0	0	0	0
n	3	3	3	3	3	3	3	3	3	3	3	3

	Di(2-ethylhexyl)phtalate (ug/L)	Dinoseb (ug/L)	Diquat (ug/L)	Endothall (ug/L)	Endrin (ug/L)	Ethylene Dibromide (ug/L)	Glyphosate (ug/L)	Heptachlor (ug/L)	Heptachlor epoxide (ug/L)	Hexachlorobenzene (ug/L)	Hexachlorocyclopentadiene (ug/L)	Lindane (ug/L)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Avg	0	0	0	0	0	0	0	0	0	0	0	0
95th %	0	0	0	0	0	0	0	0	0	0	0	0
n	3	3	3	3	3	3	3	3	3	3	3	3

	Methoxychlor (ug/L)	Oxamyl (Vydate) (ug/L)	Pentachlorophenol (ug/L)	Picloram (ug/L)	Polychlorinated biphenyls (PCB) (ug/L)	Simazine (ug/L)	Toxaphene (ug/L)	2,3,7,8-TCDD (Dioxin) (ug/L)	2,4,5-TP (ug/L)	2,4-D (ug/L)	1,1-Dichloroethylene (ug/L)	1,1,1-Trichloroethane (ug/L)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Avg	0	0	0	0	0	0	0	0	0	0	0	0
95th %	0	0	0	0	0	0	0	0	0	0	0	0
n	3	3	3	3	3	3	3	3	3	3	3	3

	1,1,2-Trichloroethane (ug/L)	1,2-Dichloroethane (ug/L)	1,2-Dichloropropane (ug/L)	1,2,4-Trichlorobenzene (ug/L)	Benzene (ug/L)	Carbon tetrachloride (ug/L)	cis-1,2-Dichloroethylene (ug/L)	Dichloromethane	Ethylbenzene (ug/L)	Monochlorobenzene (ug/L)	o-Dichlorobenzene (ug/L)	para-Dichlorobenzene (ug/L)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Avg	0	0	0	0	0	0	0	0	0	0	0	0
95th %	0	0	0	0	0	0	0	0	0	0	0	0
n	3	3	3	3	3	3	3	3	3	3	3	3

	Styrene (ug/L)	Tetrachloroethylene (ug/L)	Toluene (ug/L)	trans-1,2-Dichloroethylene (ug/L)	Trichloroethylene (ug/L)	Vinyl chloride (ug/L)	Xylenes (total) (ug/L)	Aluminum (ug/L)	Chloride (mg/L)	Color	Copper (ug/L)	Corrosivity (Aggressive Index)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ppm		ug/L	
Min	0	0	0	0	0	0	0	0	230	30	0.0	10.3
Max	0	0	0	0	0	0	0	33	270	35	3.7	12.0
Avg	0	0	0	0	0	0	0	17	253	33	1.2	10.9
95th %	0	0	0	0	0	0	0	31.5	269	35	3.3	11.8
n	3	3	3	3	3	3	3	3	3	3	3	3

	Foaming agents	Hydrogen sulfide (mg/L)	Iron (mg/L)	Manganese (ug/L)	Odor	pH	Silver (ug/L)	Sulfate (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Uranium (pCi/L)	Gross Alpha Activity (pCi/L)
Units	ppm	ppm	ppm	ug/L			ug/L	ppm	pCi/L	pCi/L	pCi/L	pCi/L
Min	0	0	0.00	42	8	6.9	0	62	0.08	0	0.13	0
Max	0	0	0.26	42	8	7.4	0	68	0.31	0	0.15	0
Avg	0	0	0.15	42	8	7.1	0	64	0.19	0	0.14	0
95th %	0	0	0.25	42	8	7.4	0	67	0.30	0	0.15	0
n	3	2	3	3	3	3	3	3	2	2	2	2

	Gross Beta Particle Activity (pCi/L)	Tritium (pCi/L)	Strontium 90 (pCi/L)	TDS (mg/L)	Zinc (ug/L)
Units	pCi/L	pCi/L	pCi/L	ppm	ug/L
Min	23.4	0	0	690	20
Max	26.4	0	0	900	32
Avg	24.9	0	0	777	26
95th %	26.3	0	0	884	31
n	2	2	2	3	3

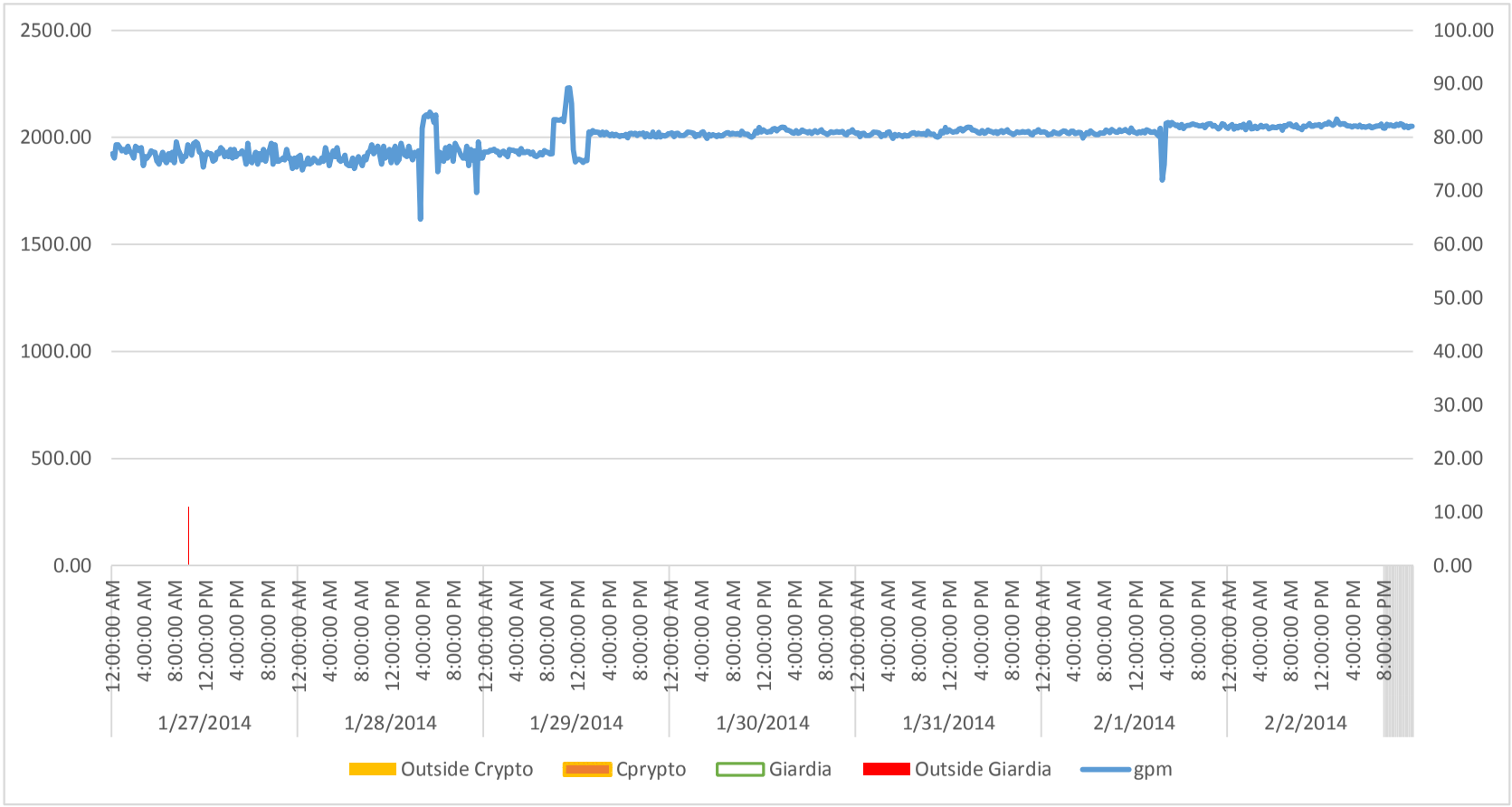
Conclusions:

This sample site establishes the constituents of concern within the Wastewater Effluent and is the basis for removal calculations. The only constituents that were not already below Primary or Secondary Drinking Water Standards were Turbidity, Nitrate, Mercury, Color, Odor, *E. coli*, *Giardia*, *Cryptosporidium* and Total Culturable Viruses.

The Week of Monday, January 27, 2014 to Sunday, February 02, 2014

TCEQ-1J RR WWTP Effluent

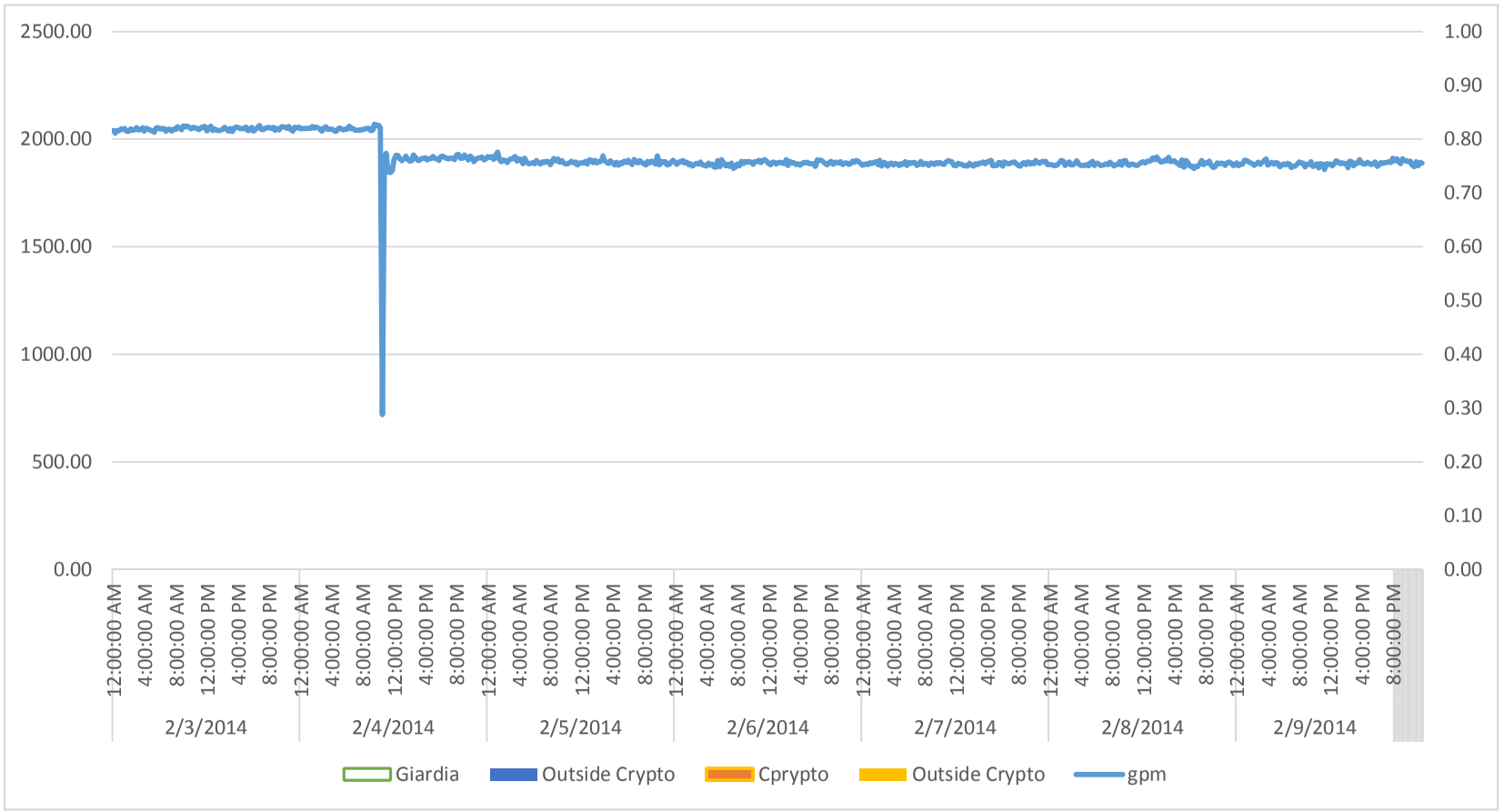
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



The Week of Monday, February 03, 2014 to Sunday, February 09, 2014

TCEQ-1J RR WWTP Effluent

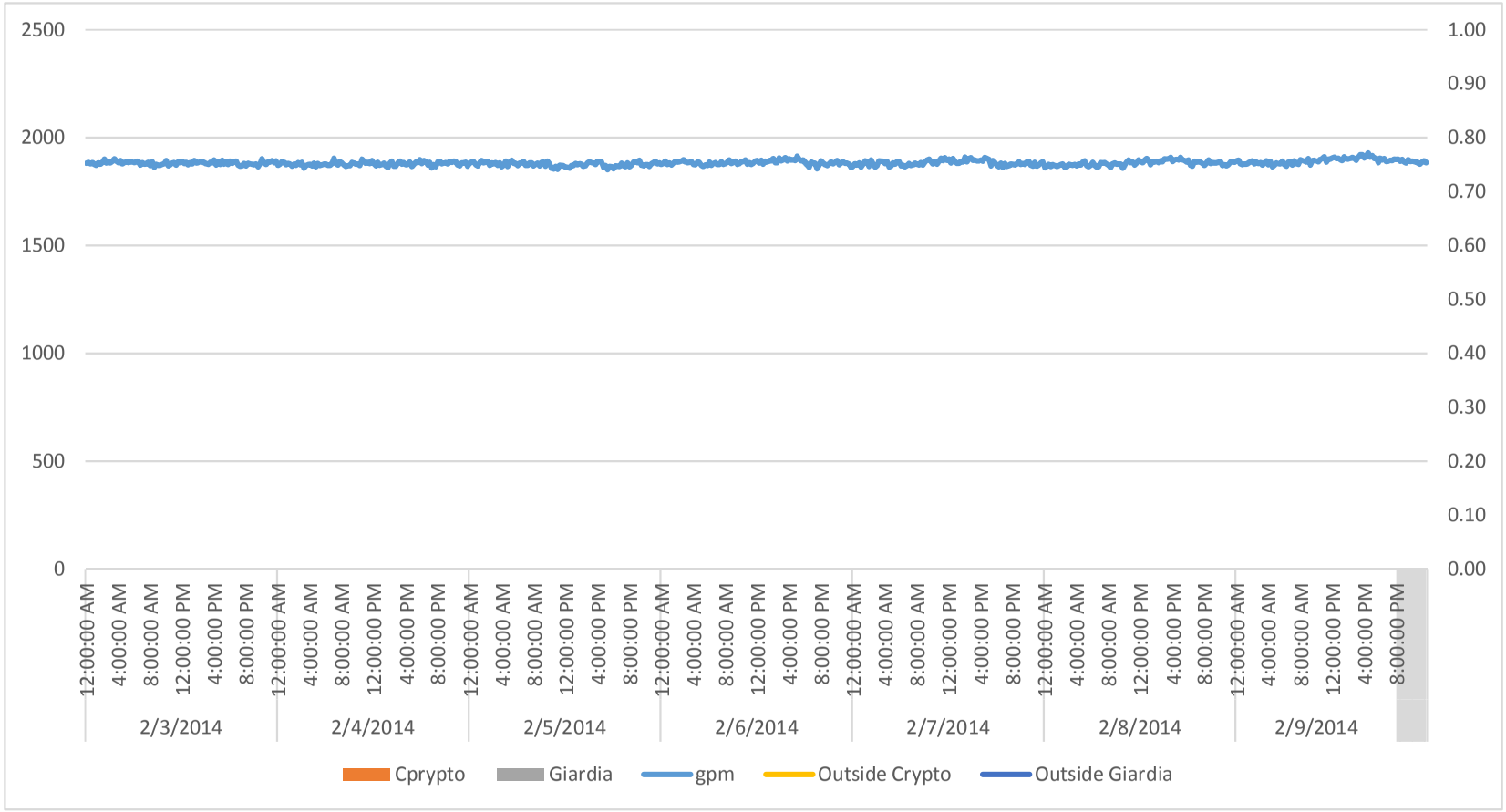
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



The Week of Monday, February 10, 2014 to Sunday, February 16, 2014

TCEQ-1J RR WWTP Effluent

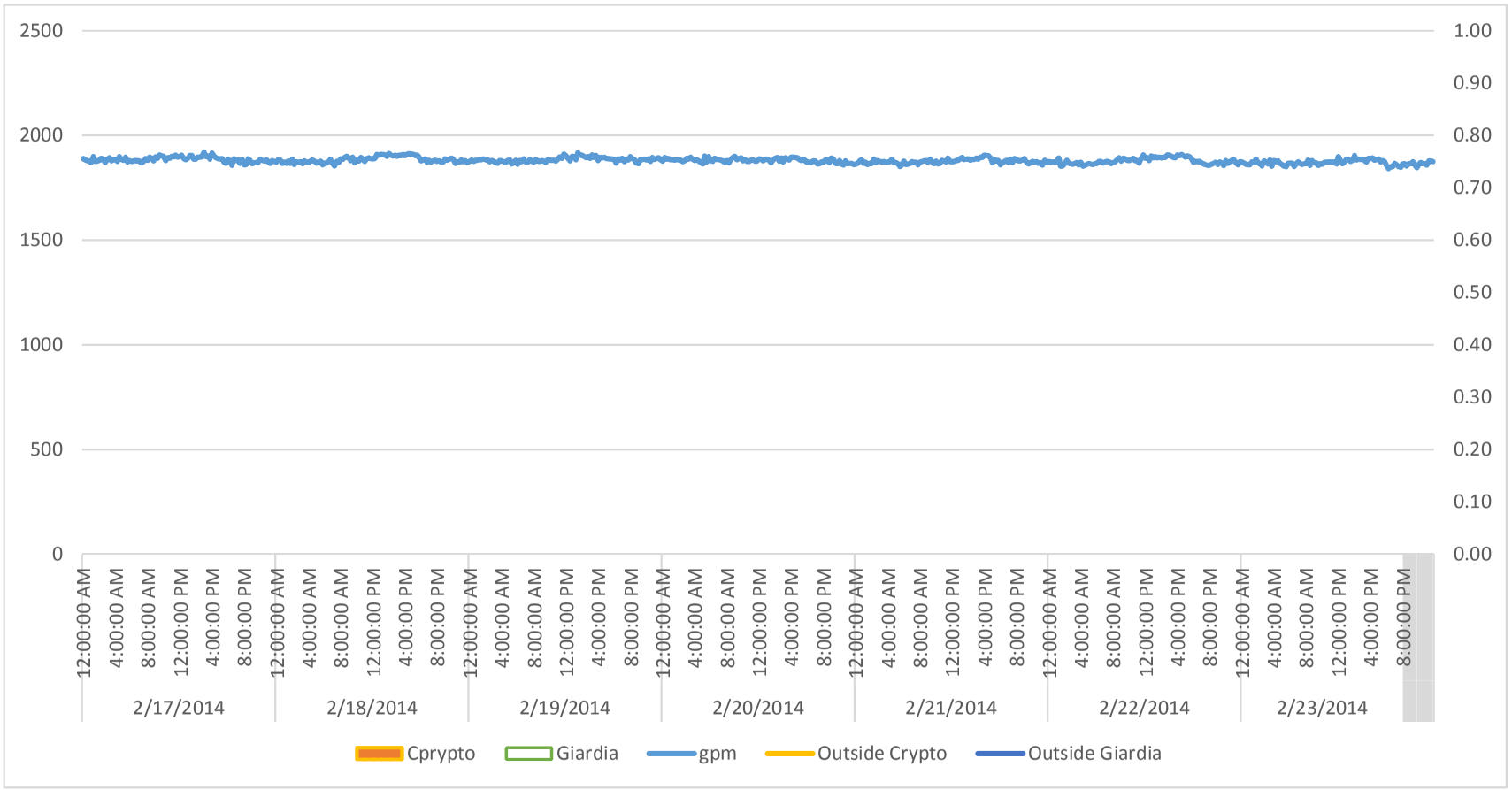
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



The Week of Monday, February 17, 2014 to Sunday, February 23, 2014

TCEQ-1J RR WWTP Effluent

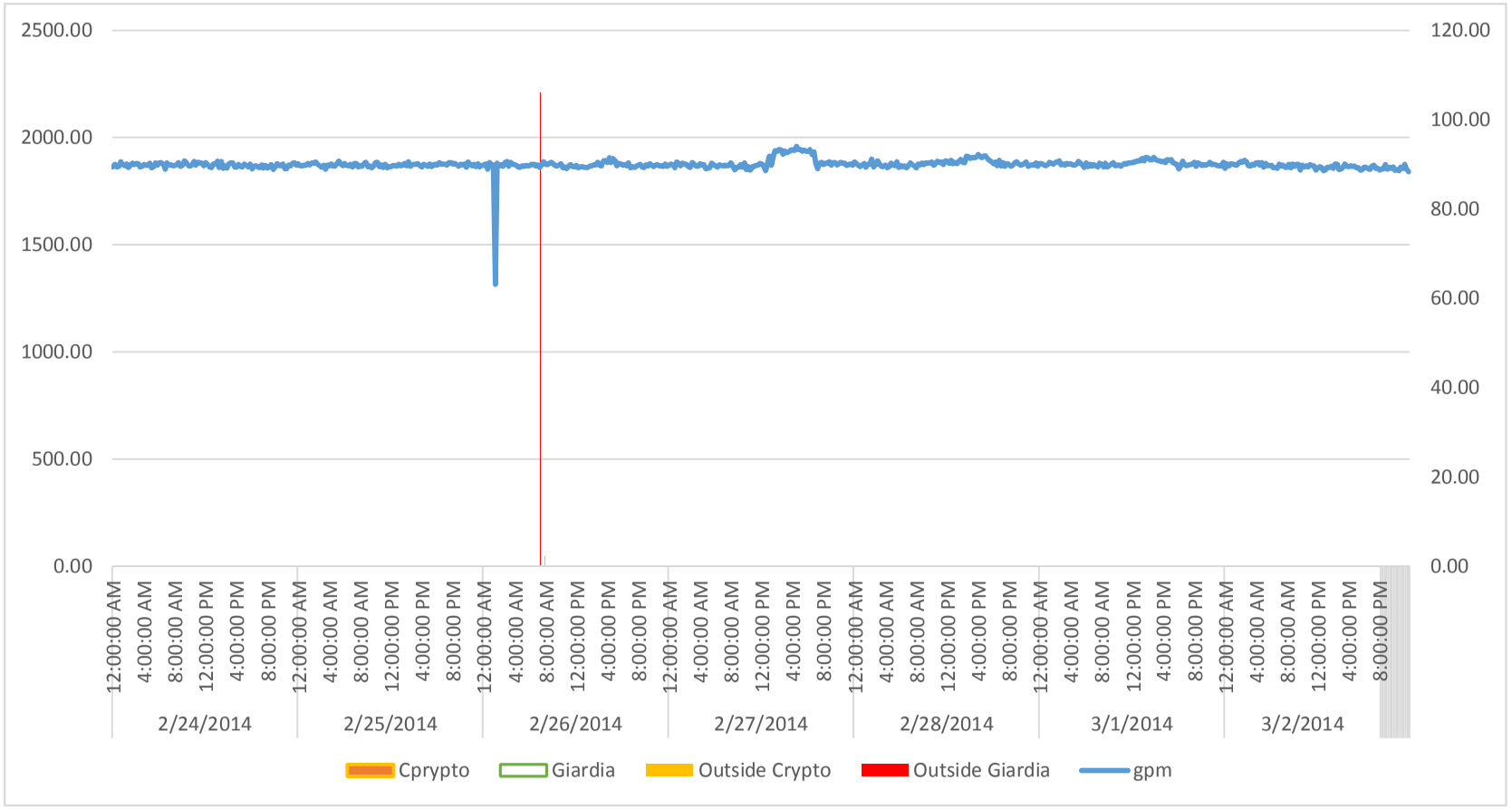
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



The Week of Monday, February 24, 2014 to Sunday, March 02, 2014

TCEQ-1J RR WWTP Effluent

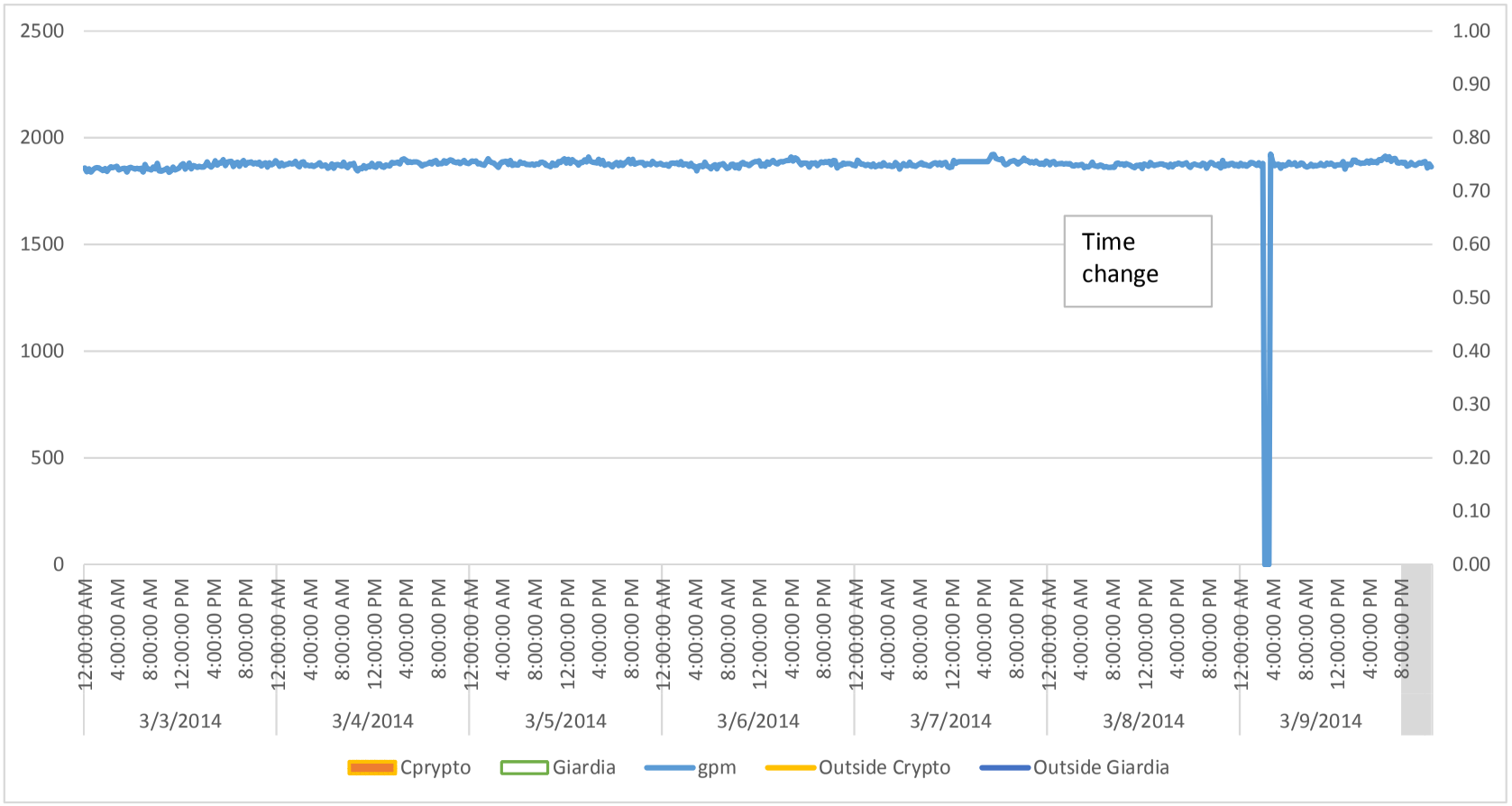
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



The Week of Monday, March 03, 2014 to Sunday, March 09, 2014

TCEQ-1J RR WWTP Effluent

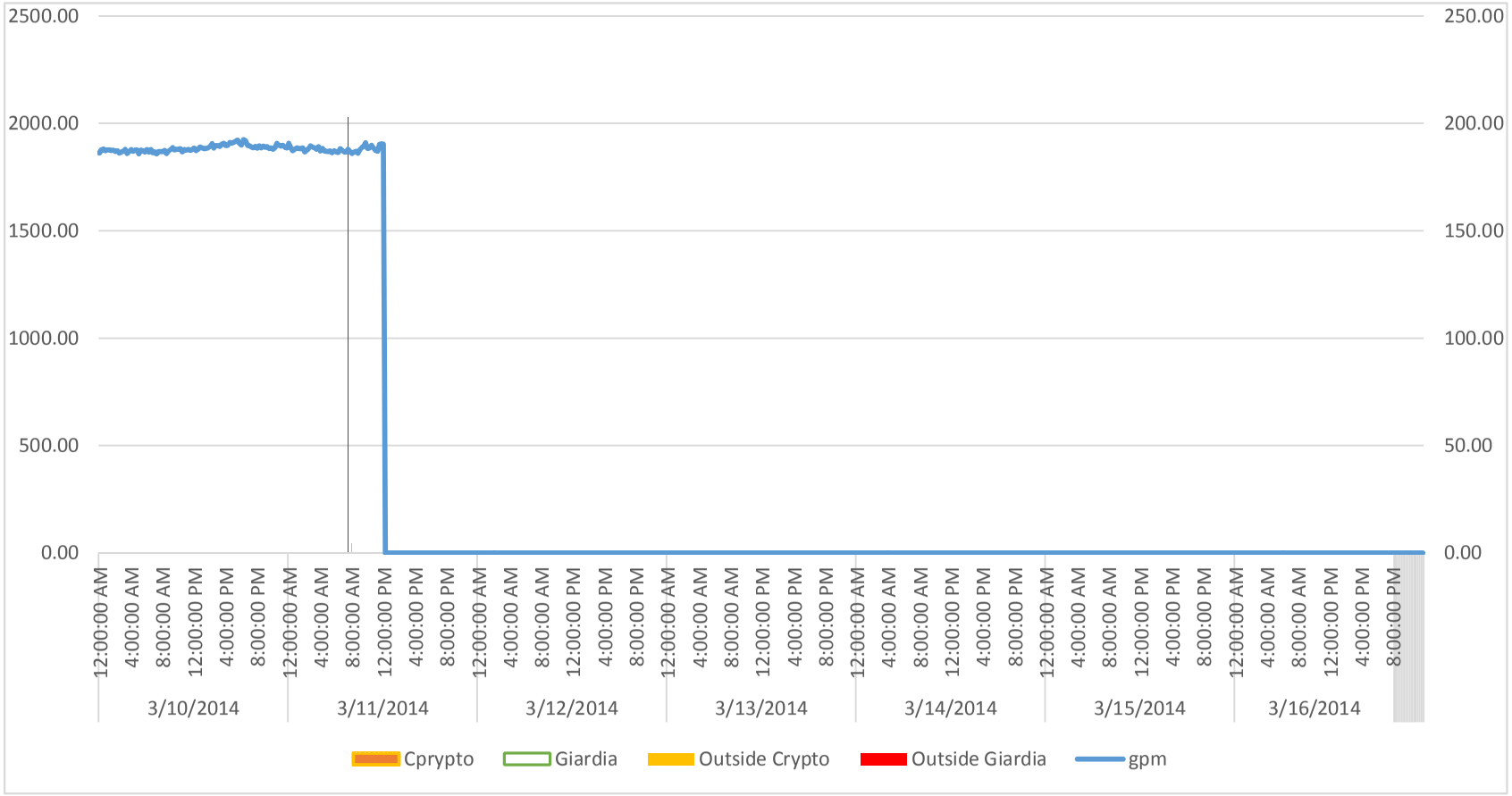
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



The Week of Monday, March 10, 2014 to Sunday, March 16, 2014

TCEQ-1J RR WWTP Effluent

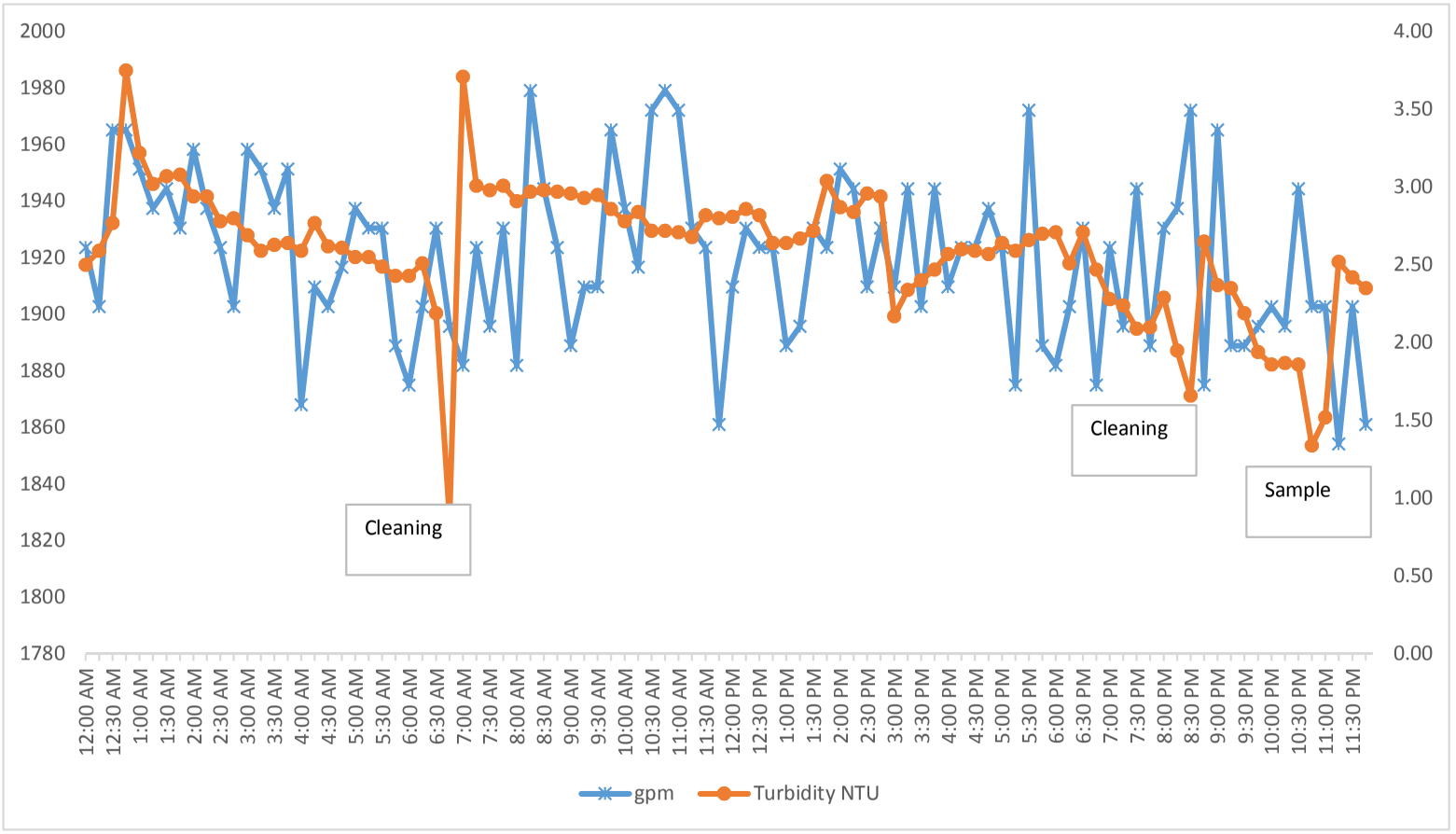
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Monday, January 27, 2014

TCEQ-1J RR WWTP Effluent

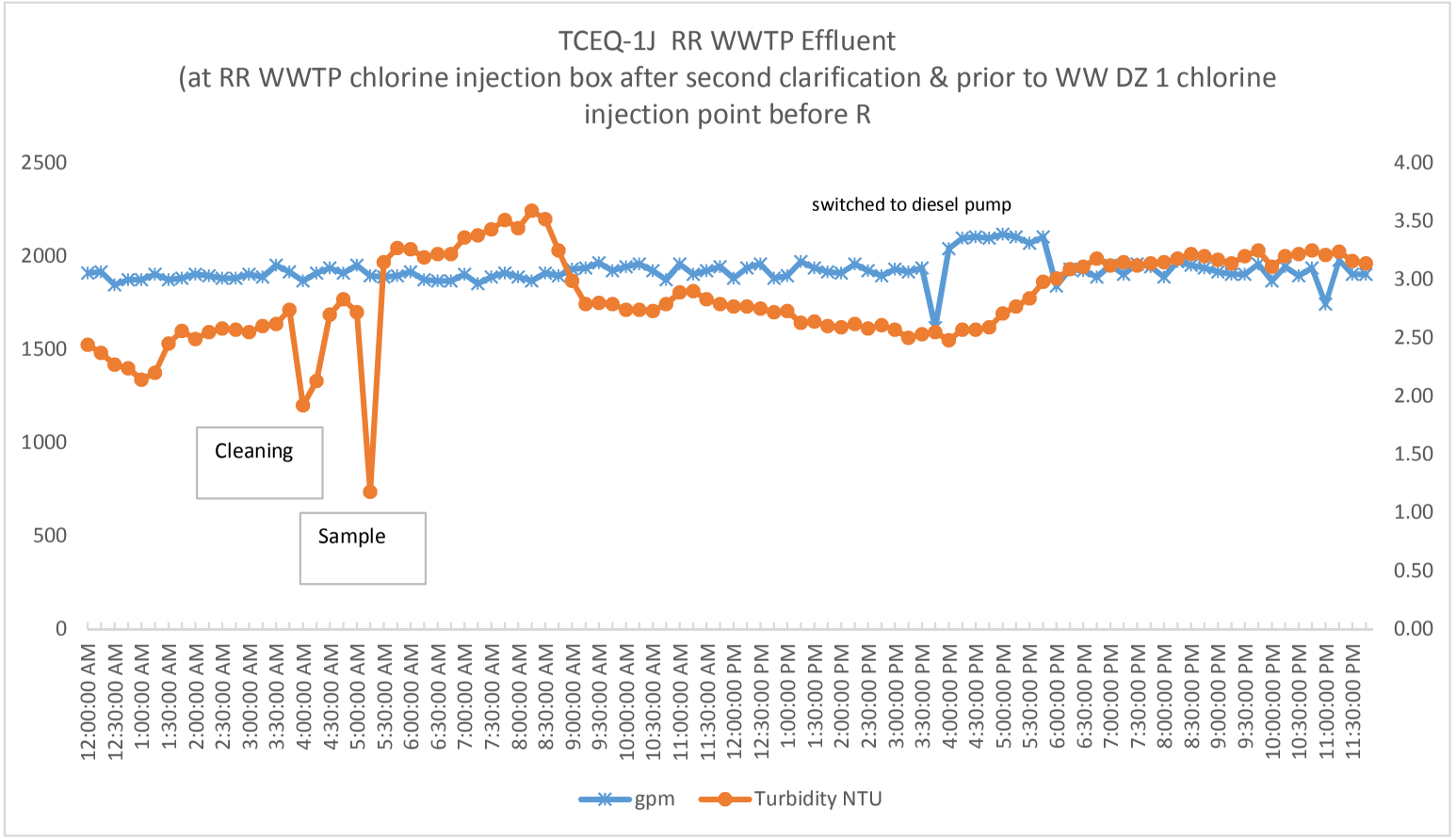
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Tuesday, January 28, 2014

TCEQ-1J RR WWTP Effluent

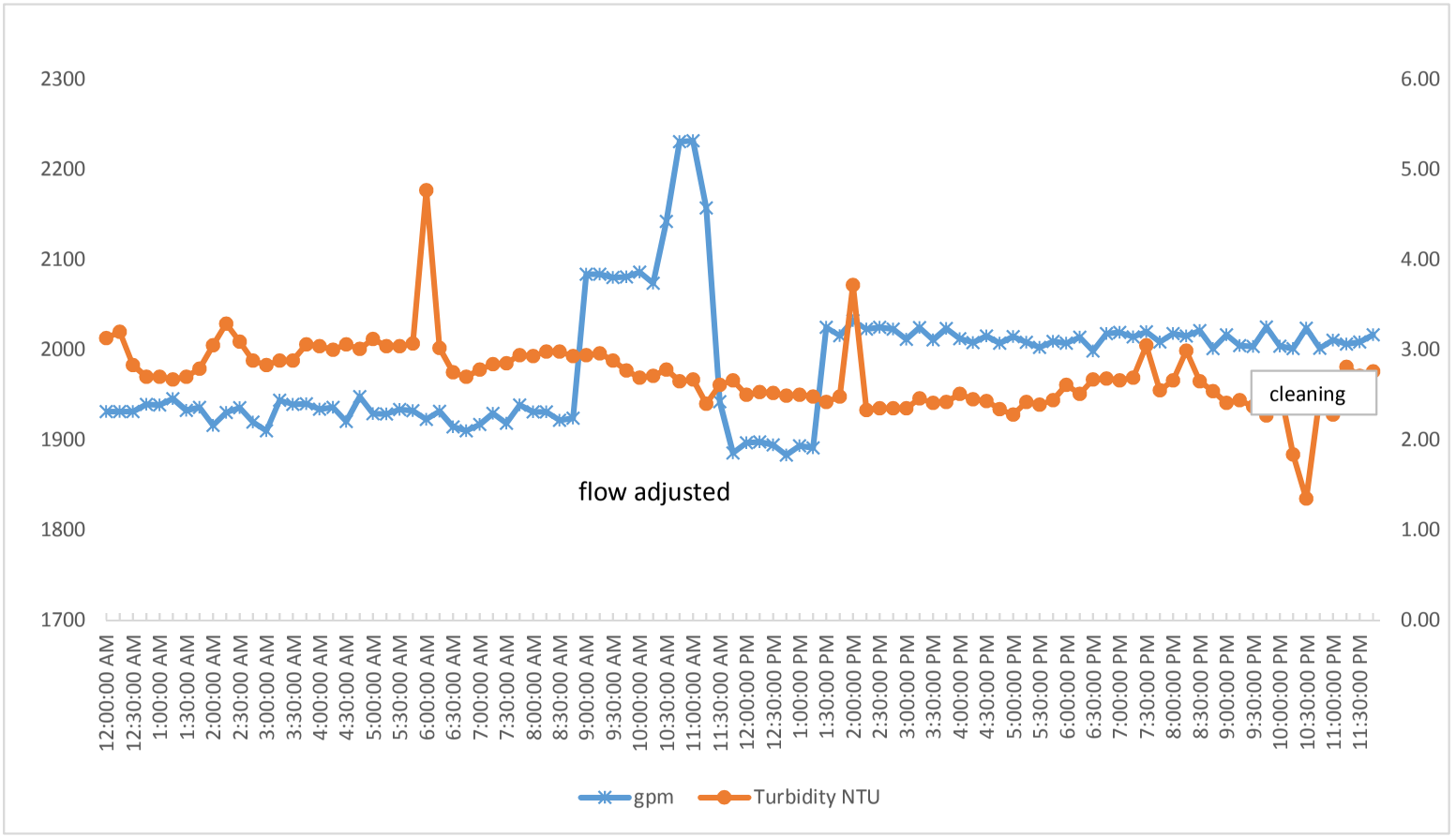
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Wednesday, January 29, 2014

TCEQ-1J RR WWTP Effluent

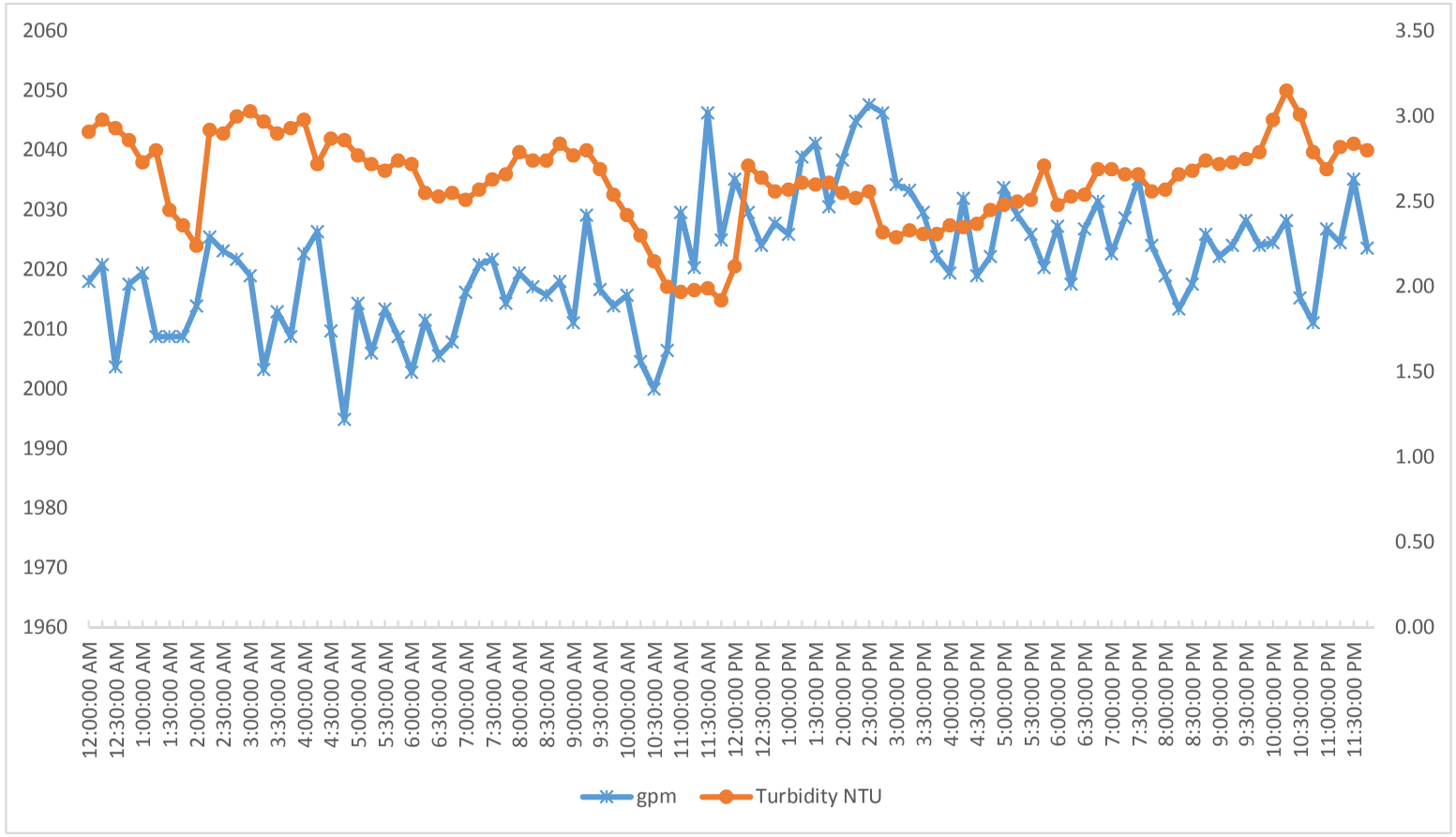
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Thursday, January 30, 2014

TCEQ-1J RR WWTP Effluent

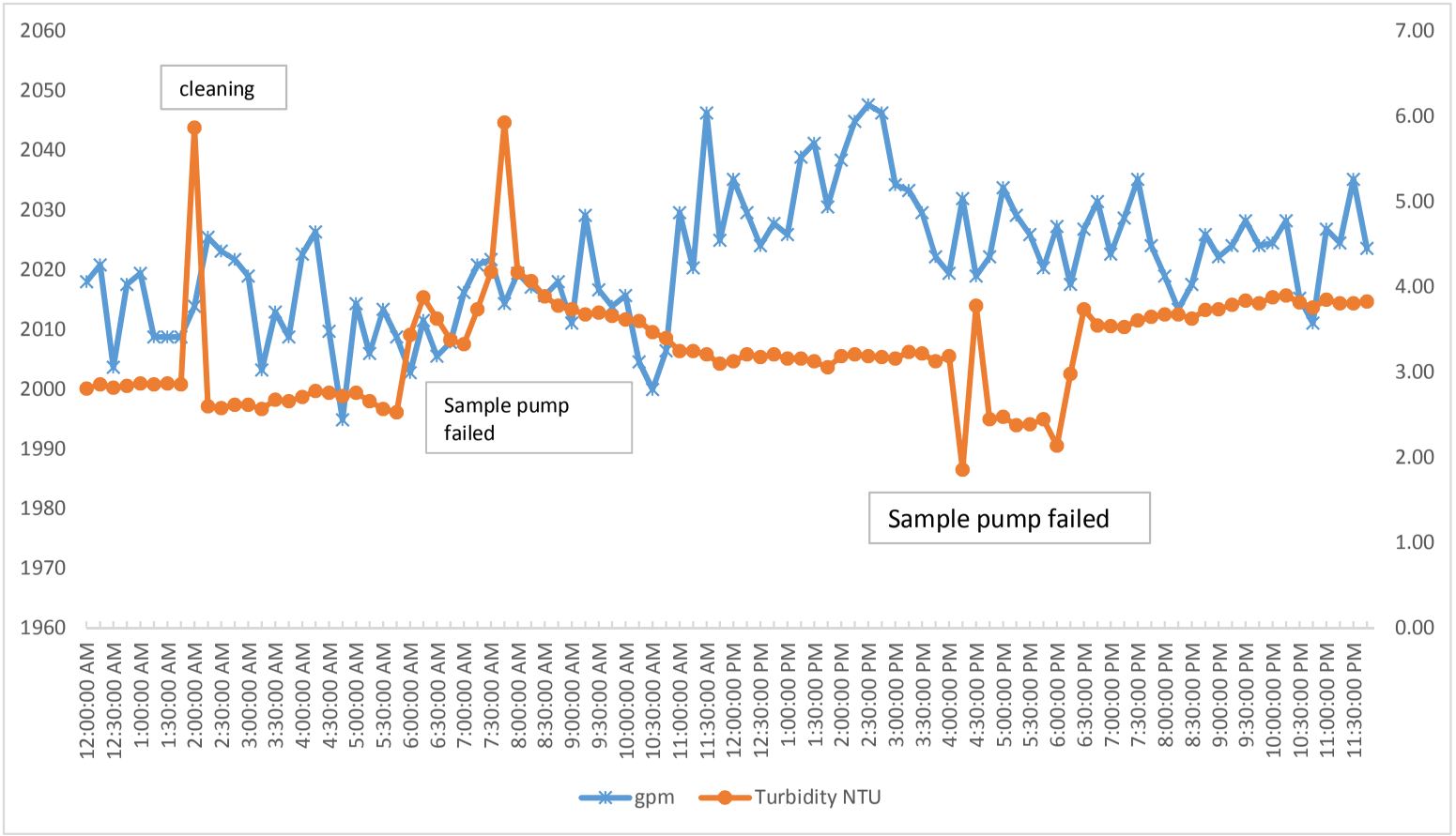
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Friday, January 31, 2014

TCEQ-1J RR WWTP Effluent

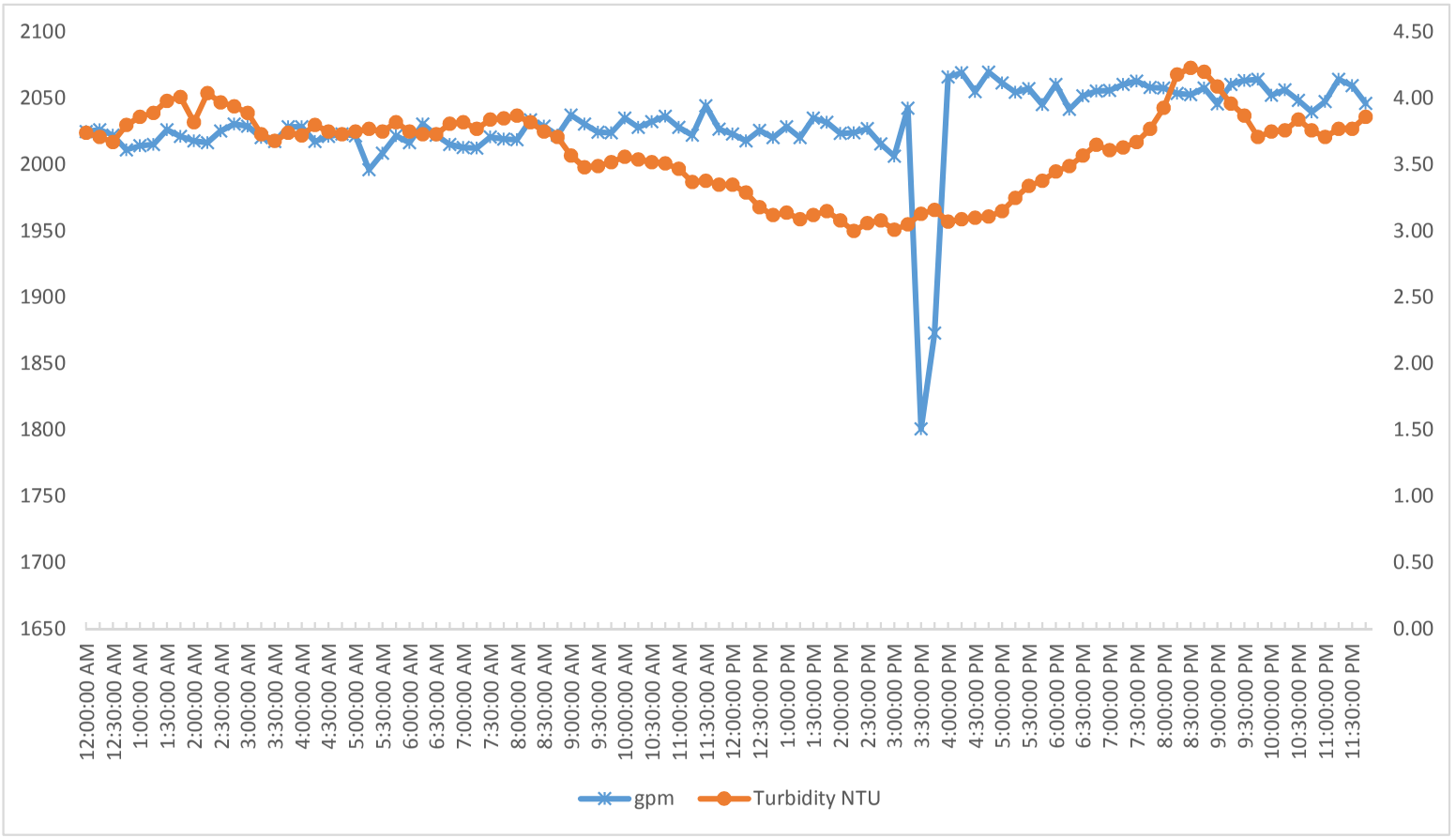
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Saturday, February 01, 2014

TCEQ-1J RR WWTP Effluent

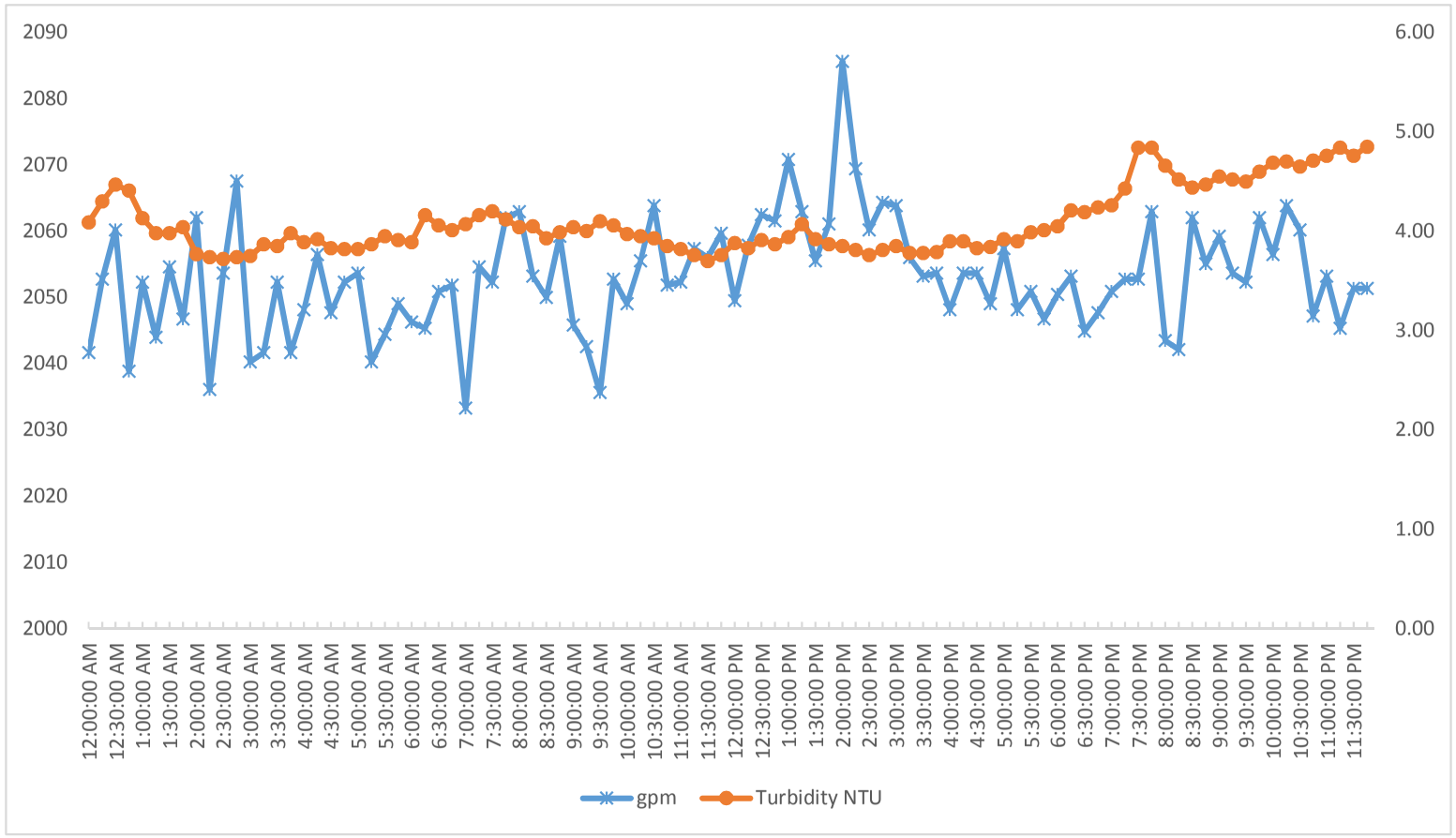
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Sunday, February 02, 2014

TCEQ-1J RR WWTP Effluent

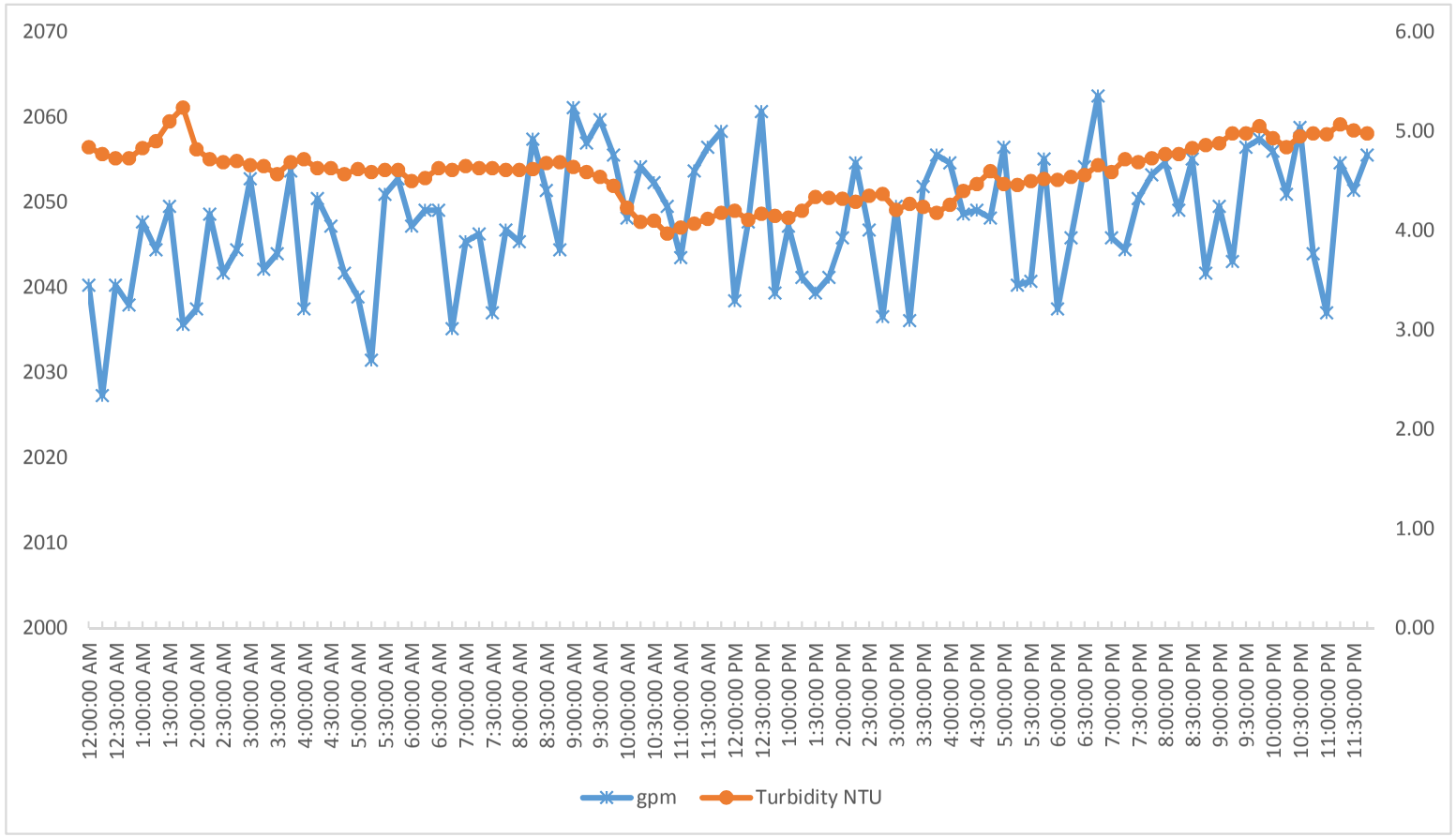
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Monday, February 03, 2014

TCEQ-1J RR WWTP Effluent

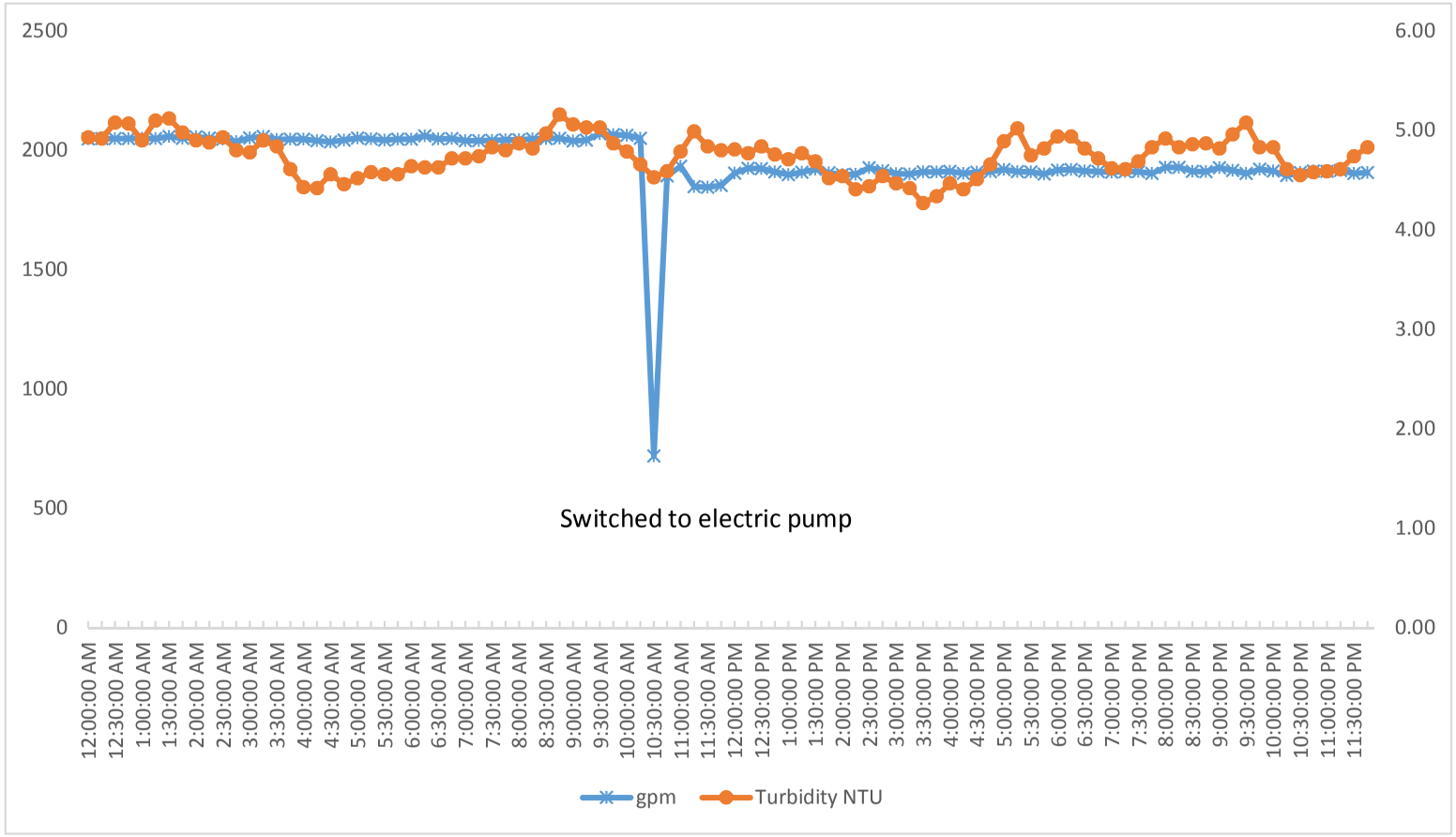
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Tuesday, February 04, 2014

TCEQ-1J RR WWTP Effluent

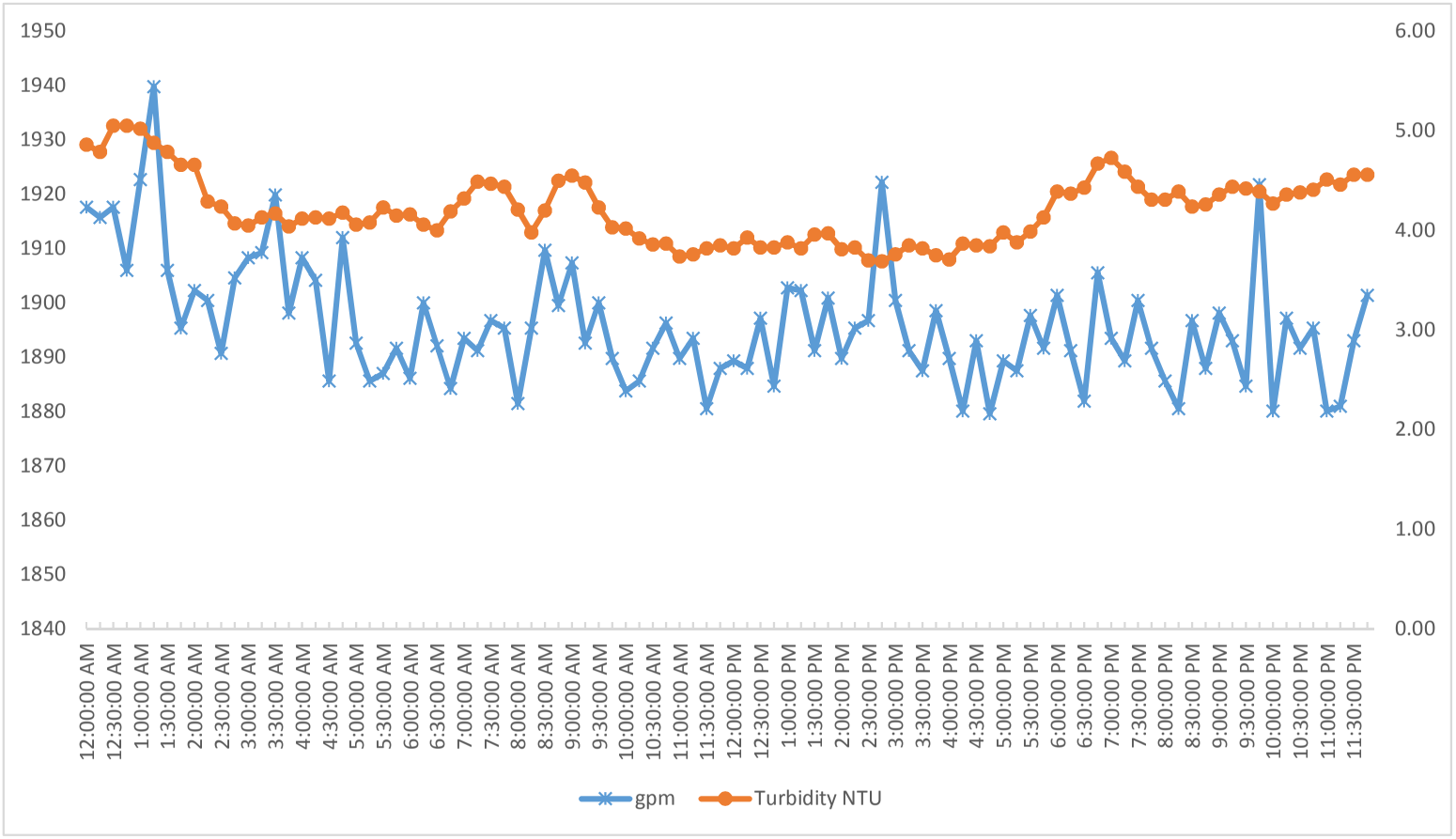
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Wednesday, February 05, 2014

TCEQ-1J RR WWTP Effluent

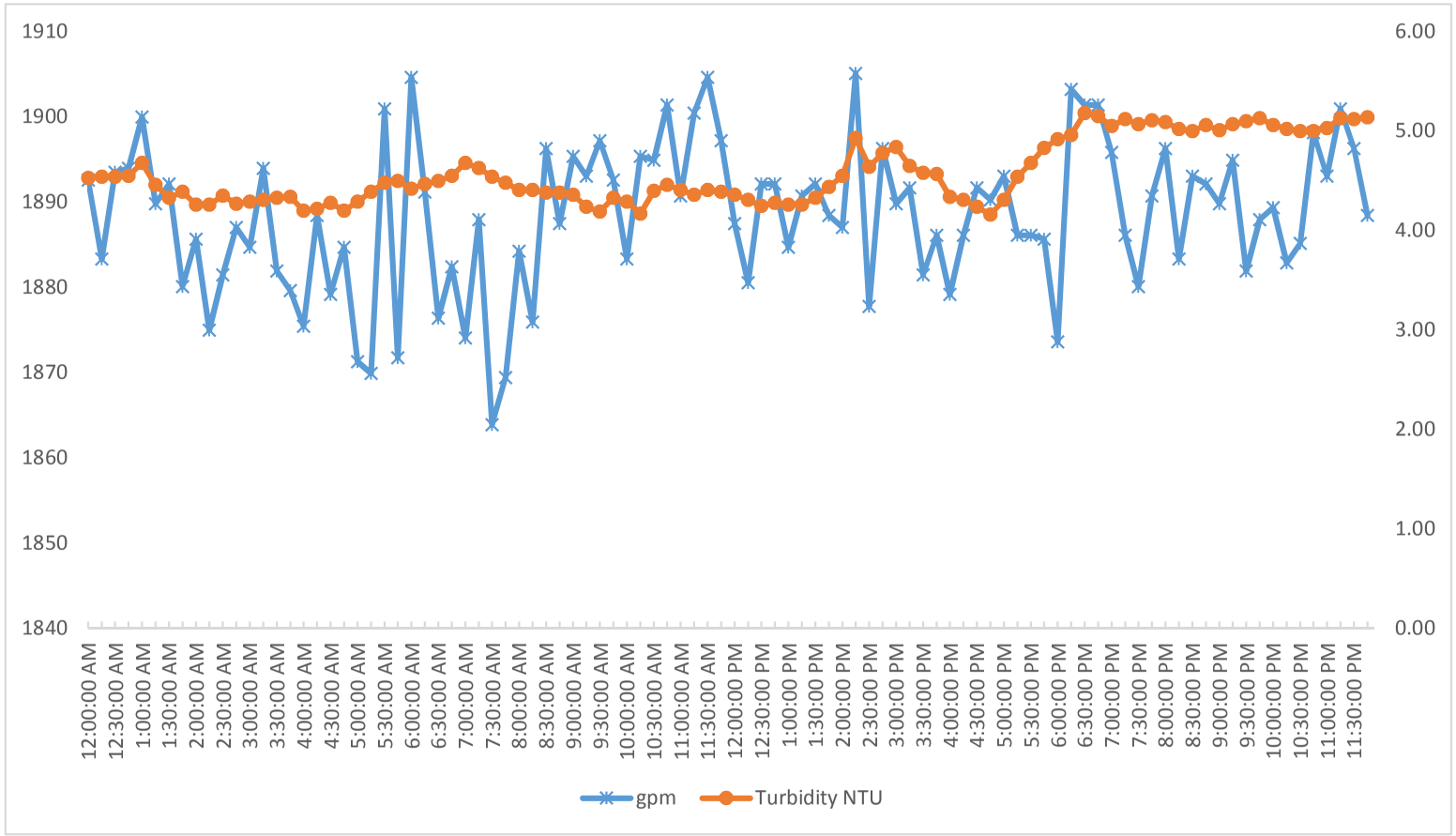
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Thursday, February 06, 2014

TCEQ-1J RR WWTP Effluent

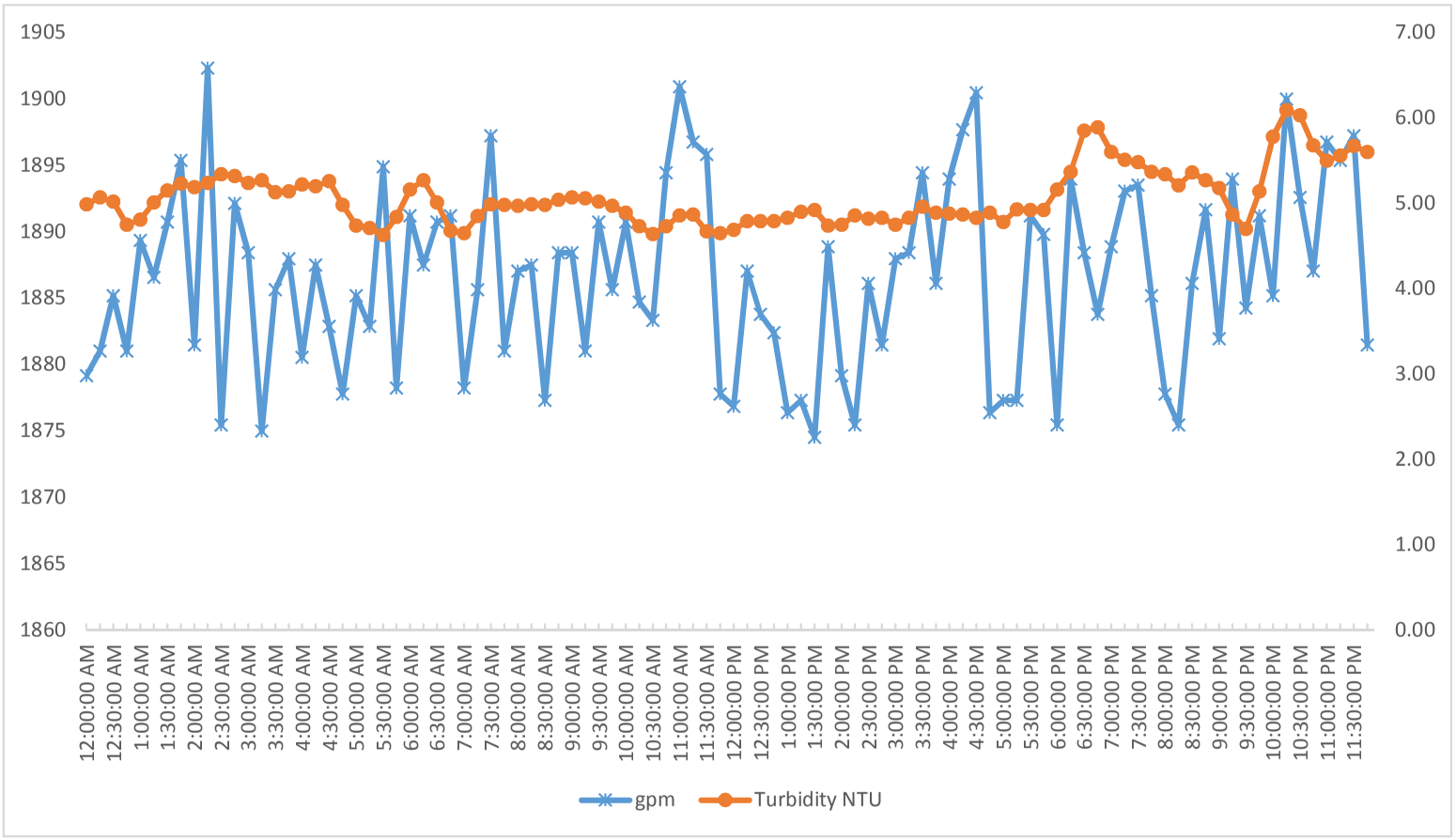
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Friday, February 07, 2014

TCEQ-1J RR WWTP Effluent

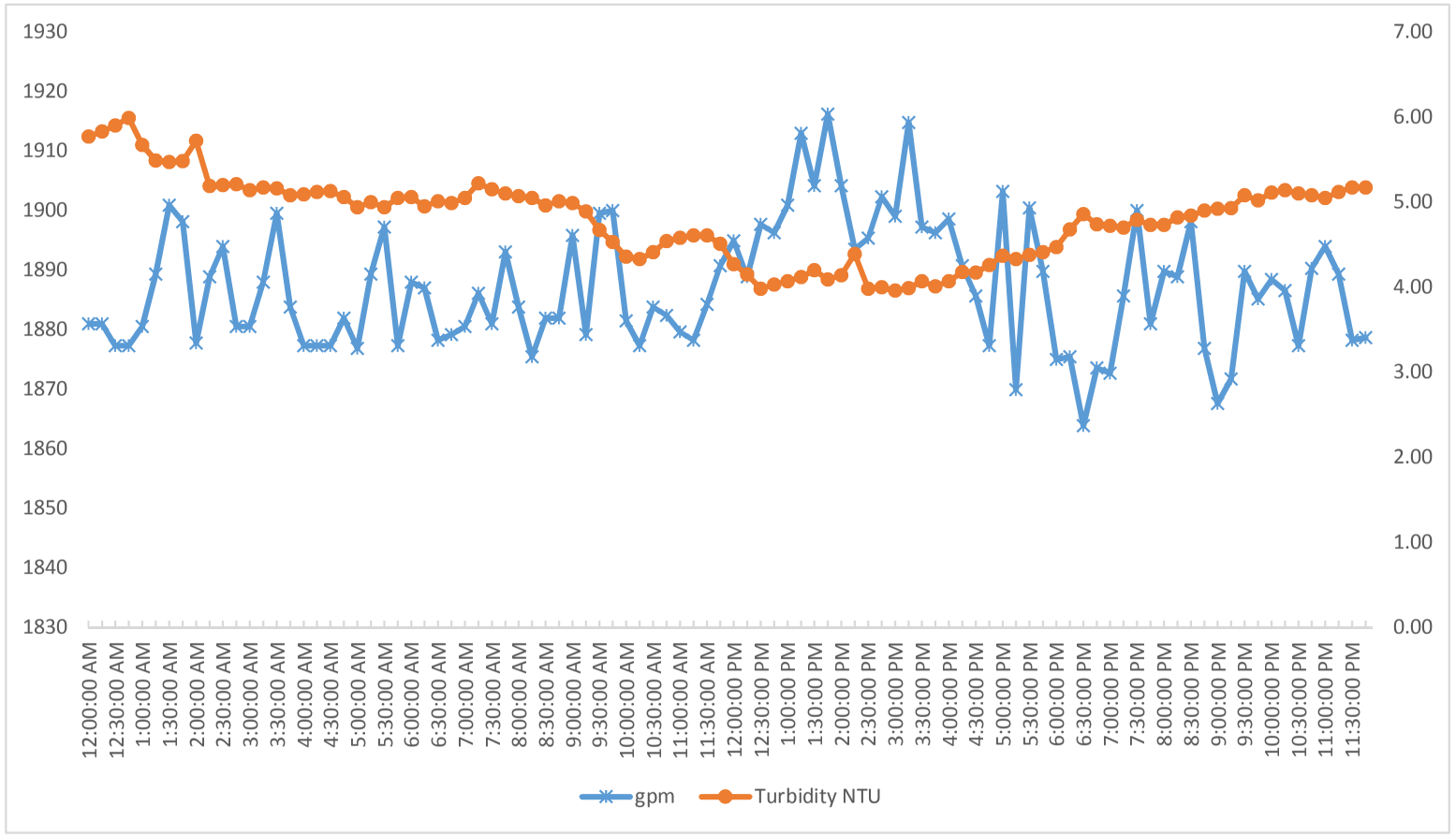
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Saturday, February 08, 2014

TCEQ-1J RR WWTP Effluent

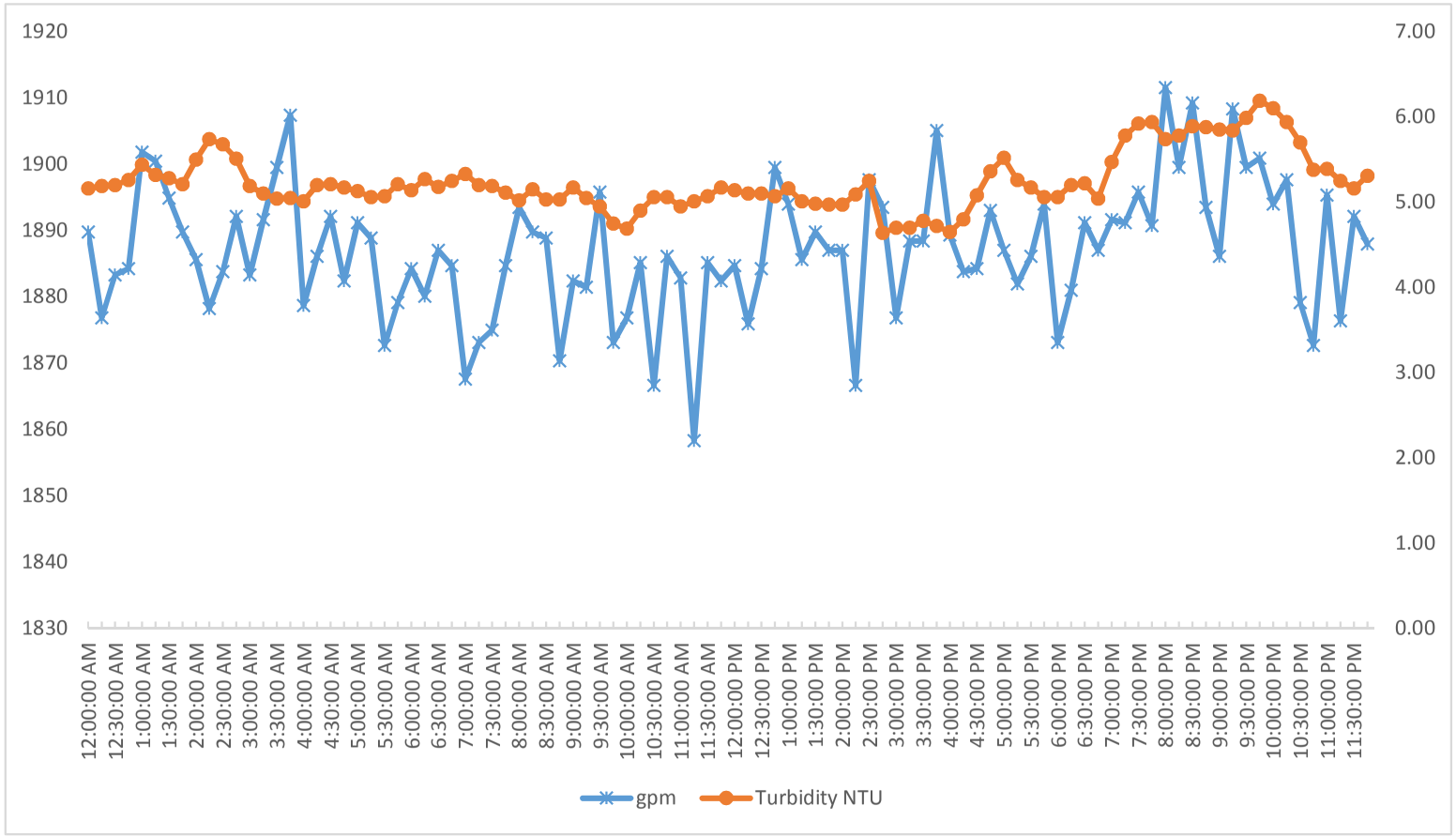
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Sunday, February 09, 2014

TCEQ-1J RR WWTP Effluent

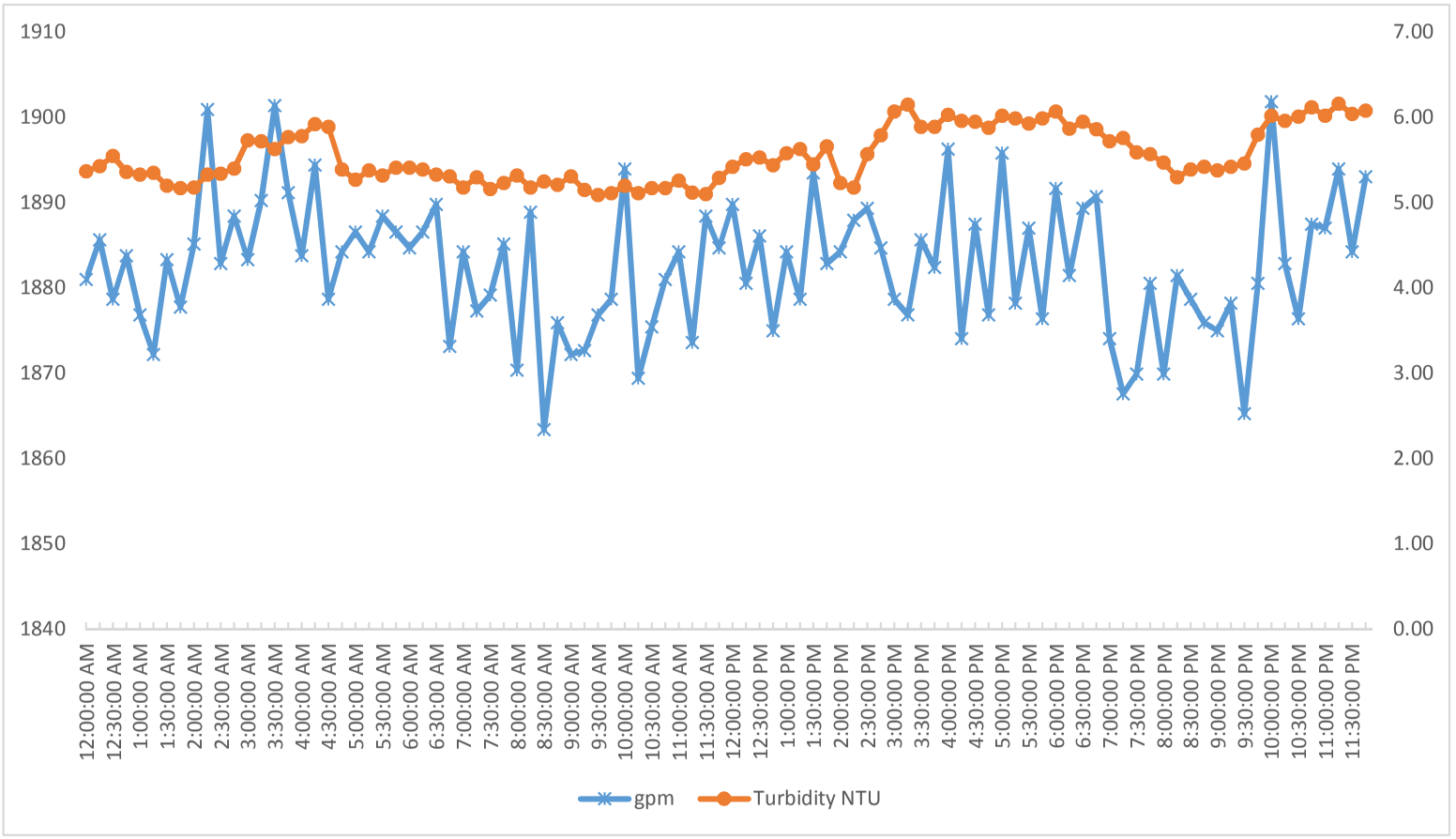
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Monday, February 10, 2014

TCEQ-1J RR WWTP Effluent

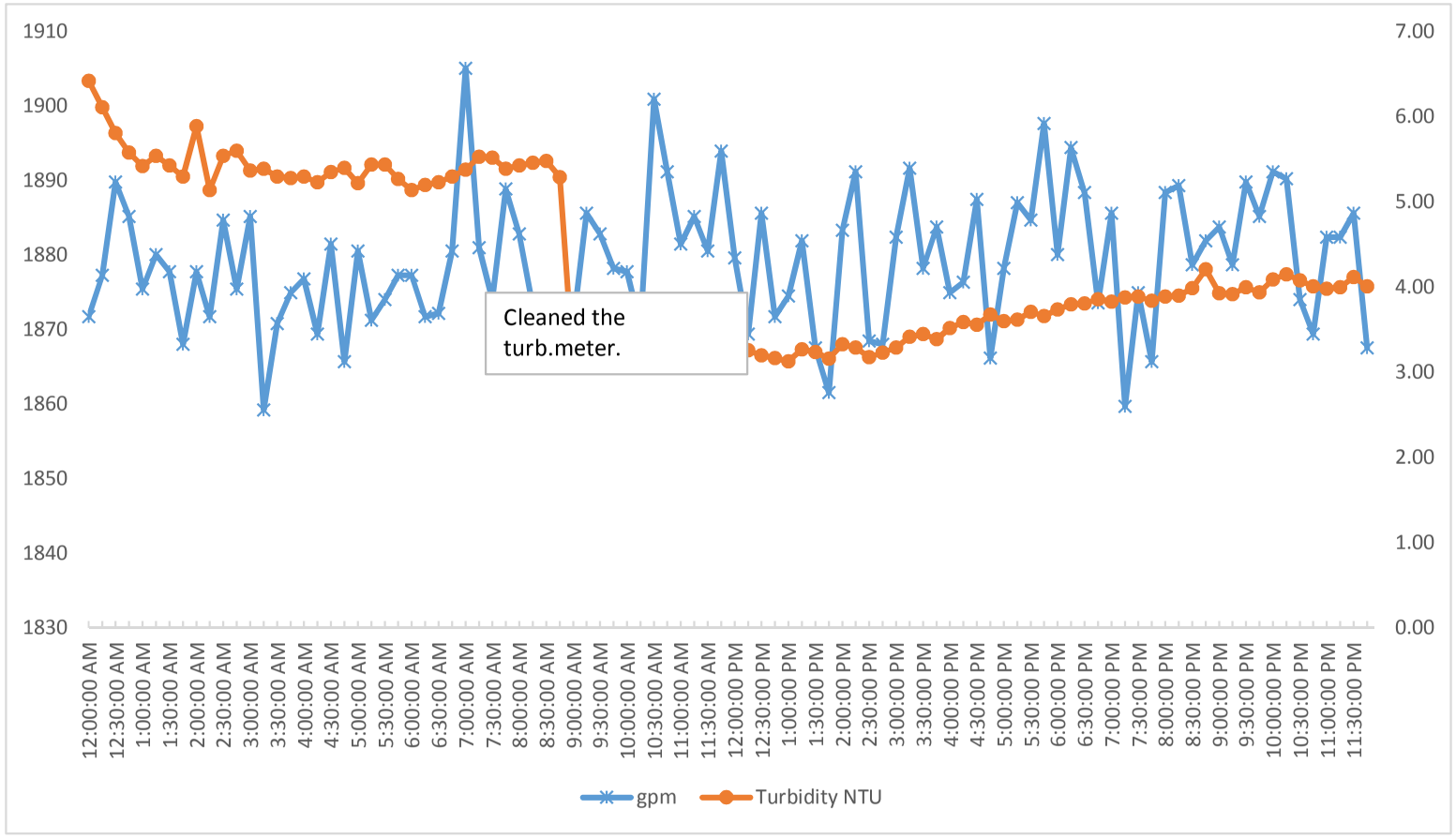
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Tuesday, February 11, 2014

TCEQ-1J RR WWTP Effluent

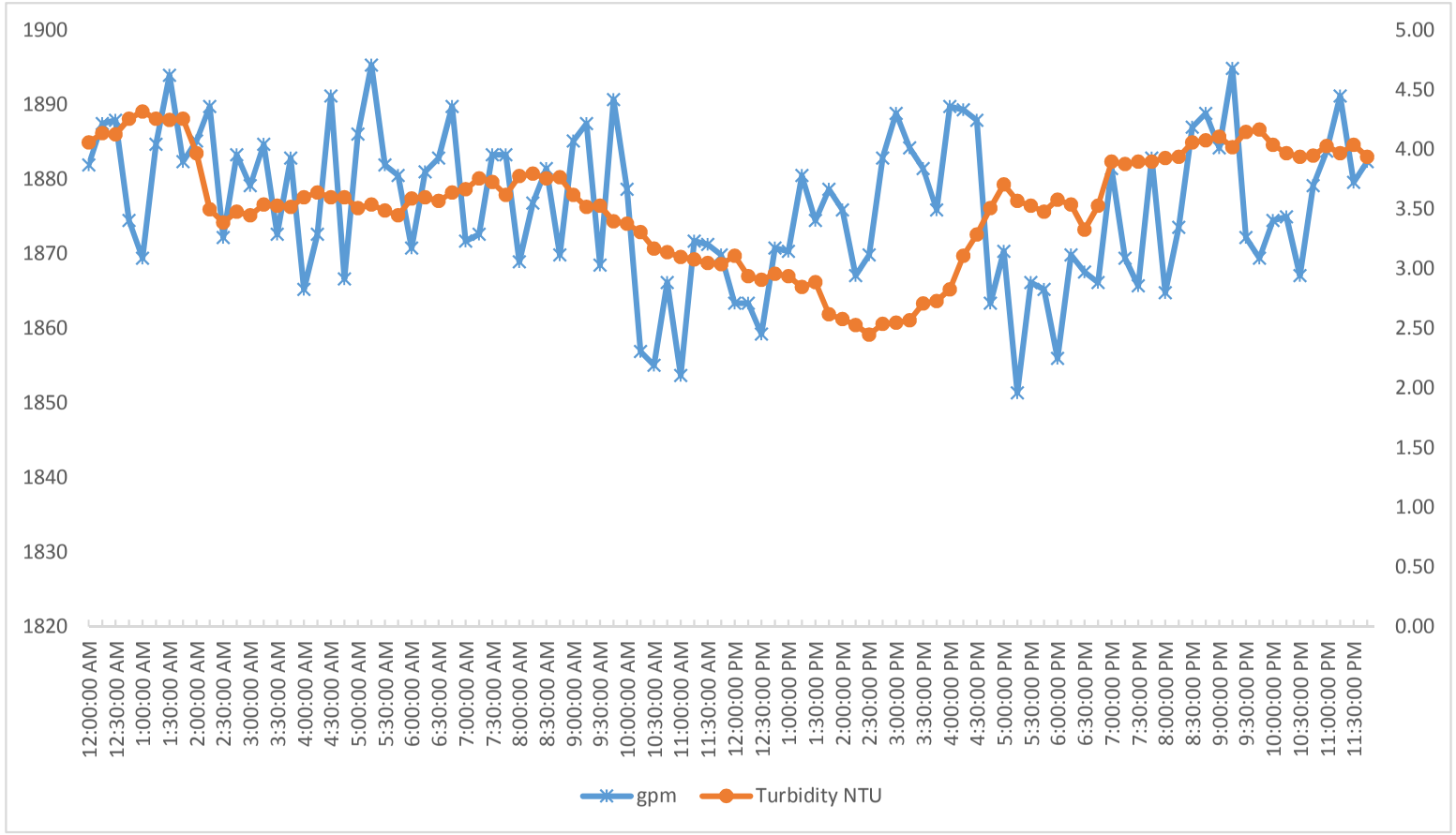
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Wednesday, February 12, 2014

TCEQ-1J RR WWTP Effluent

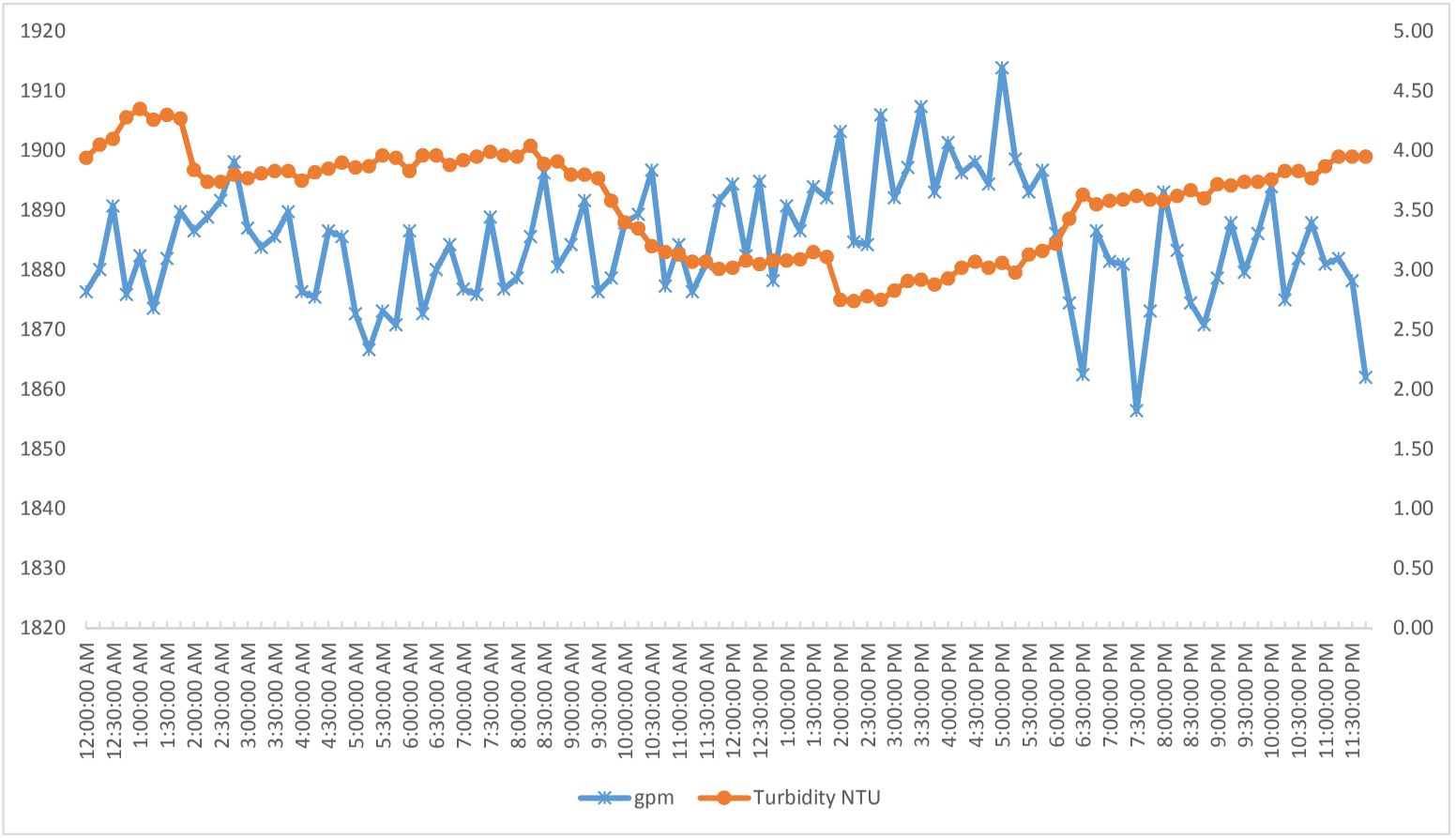
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Thursday, February 13, 2014

TCEQ-1J RR WWTP Effluent

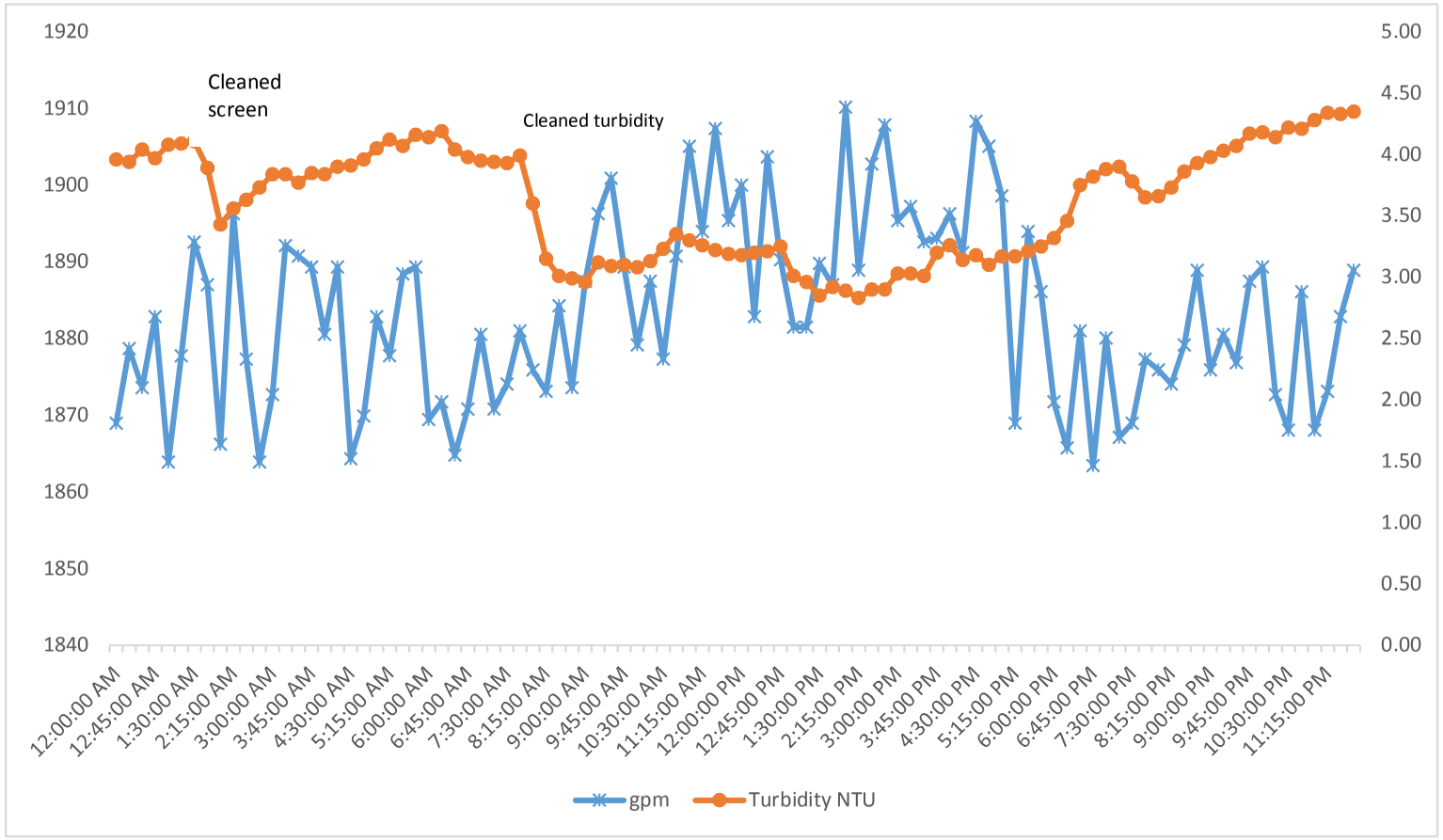
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Friday, February 14, 2014

TCEQ-1J RR WWTP Effluent

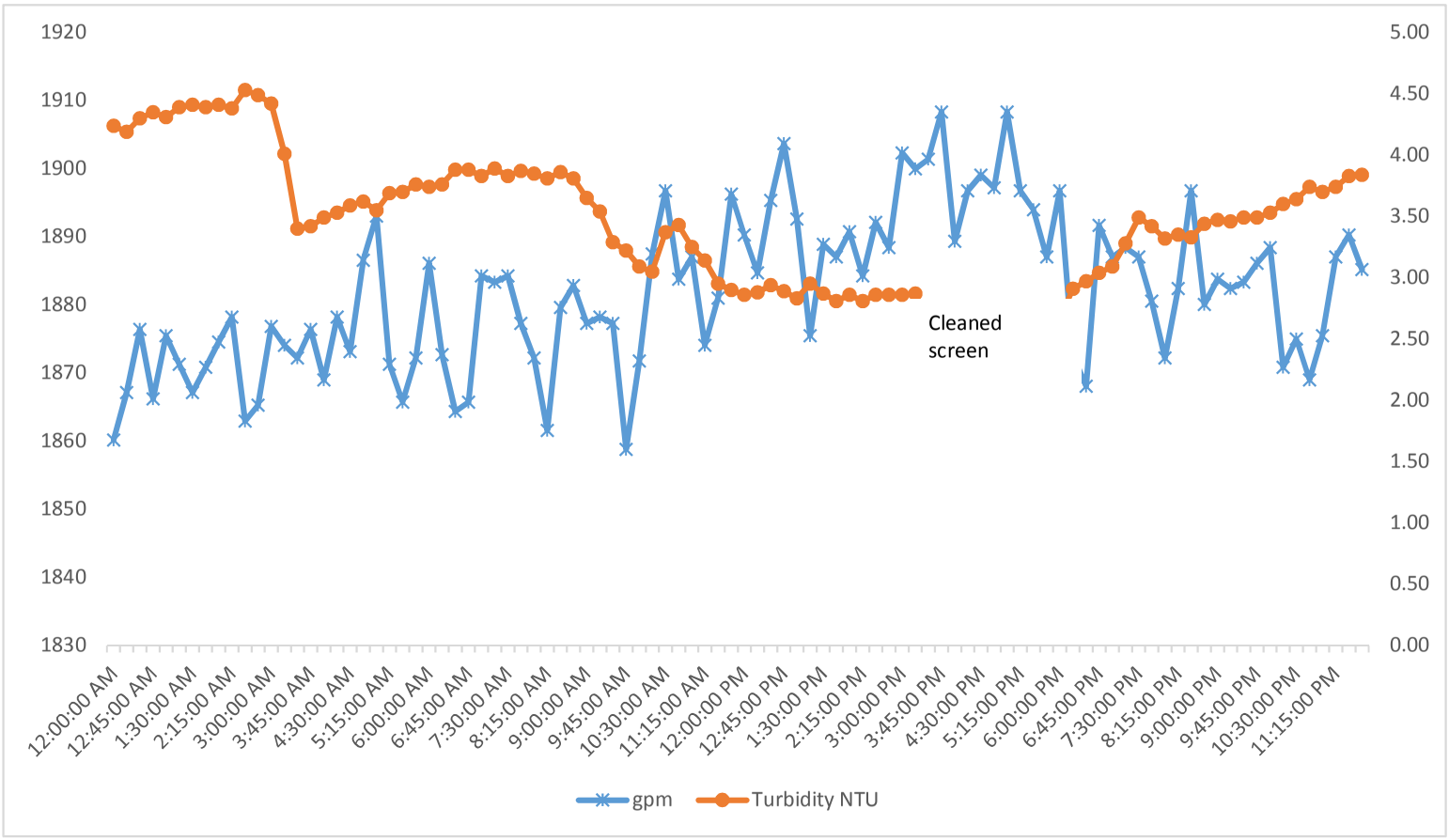
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Saturday, February 15, 2014

TCEQ-1J RR WWTP Effluent

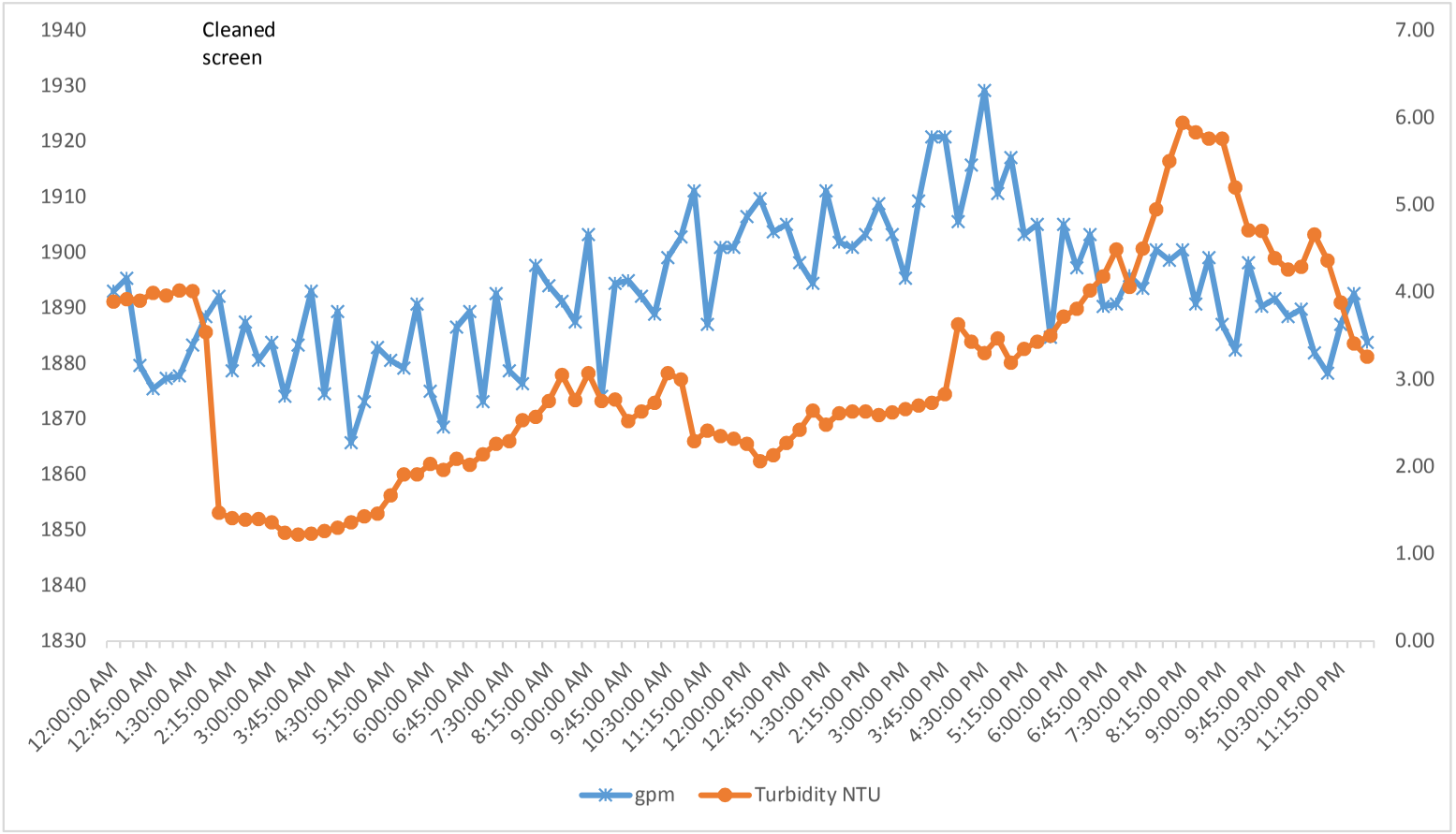
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Sunday, February 16, 2014

TCEQ-1J RR WWTP Effluent

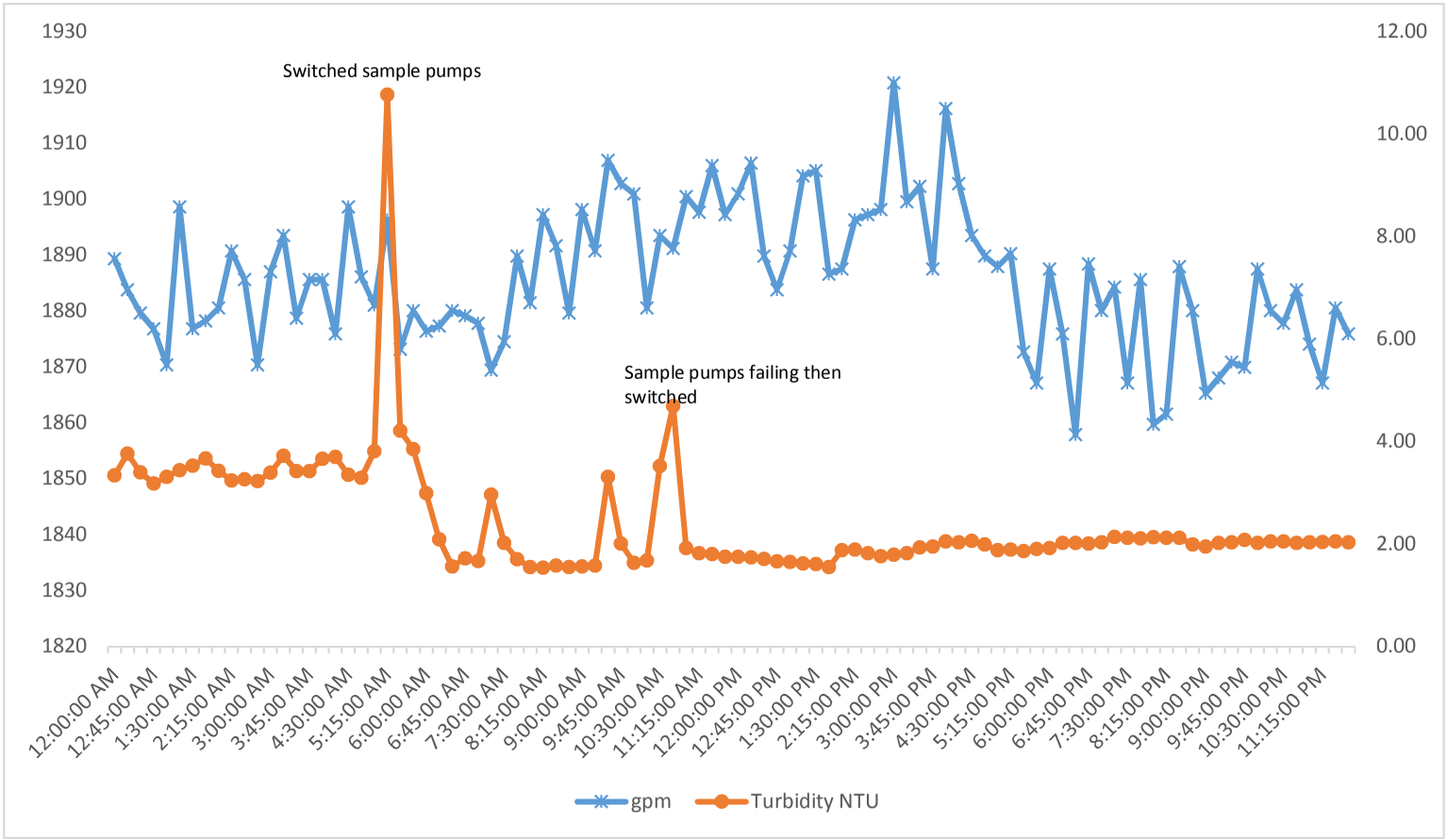
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Monday, February 17, 2014

TCEQ-1J RR WWTP Effluent

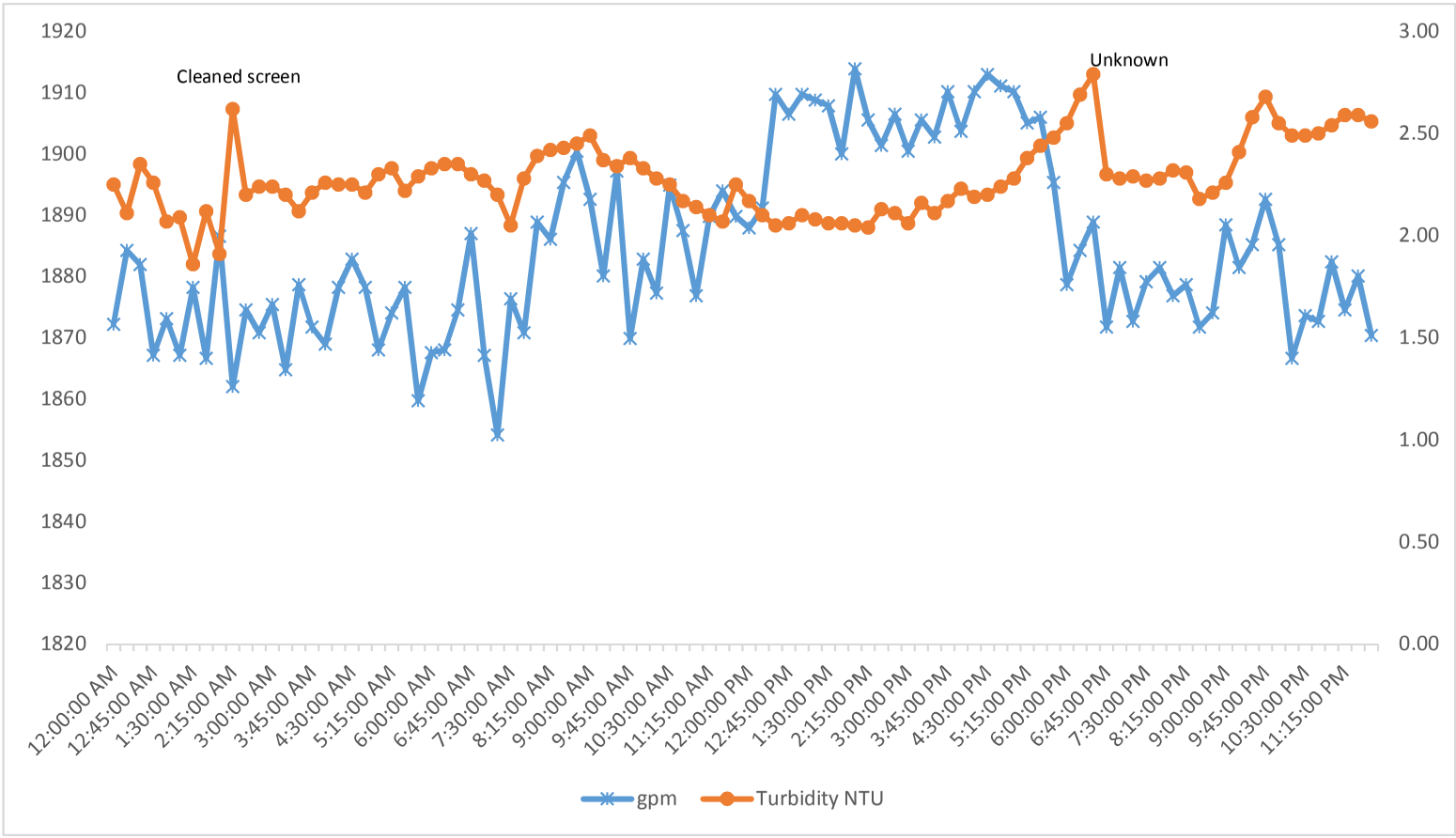
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Tuesday, February 18, 2014

TCEQ-1J RR WWTP Effluent

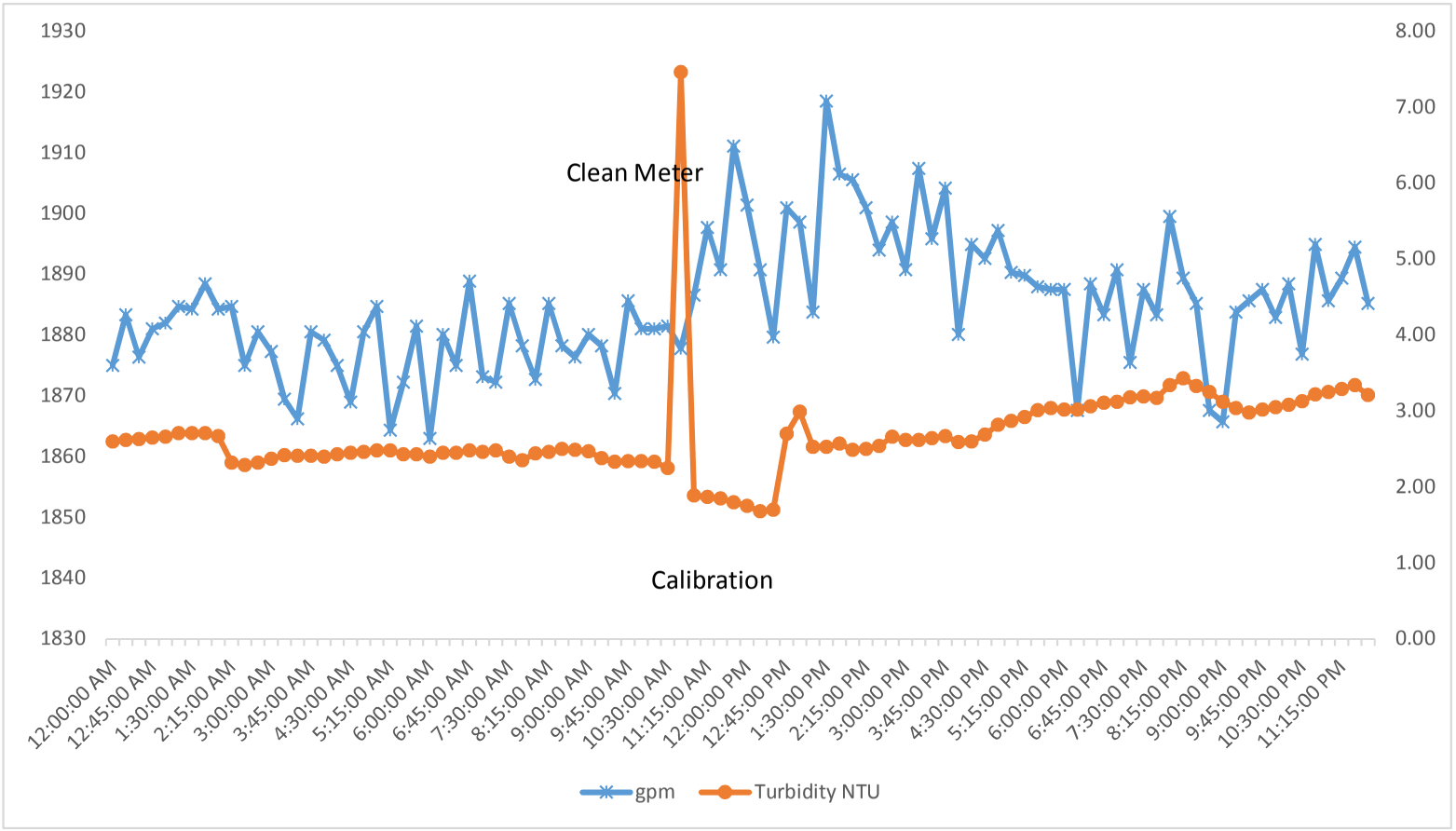
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Wednesday, February 19, 2014

TCEQ-1J RR WWTP Effluent

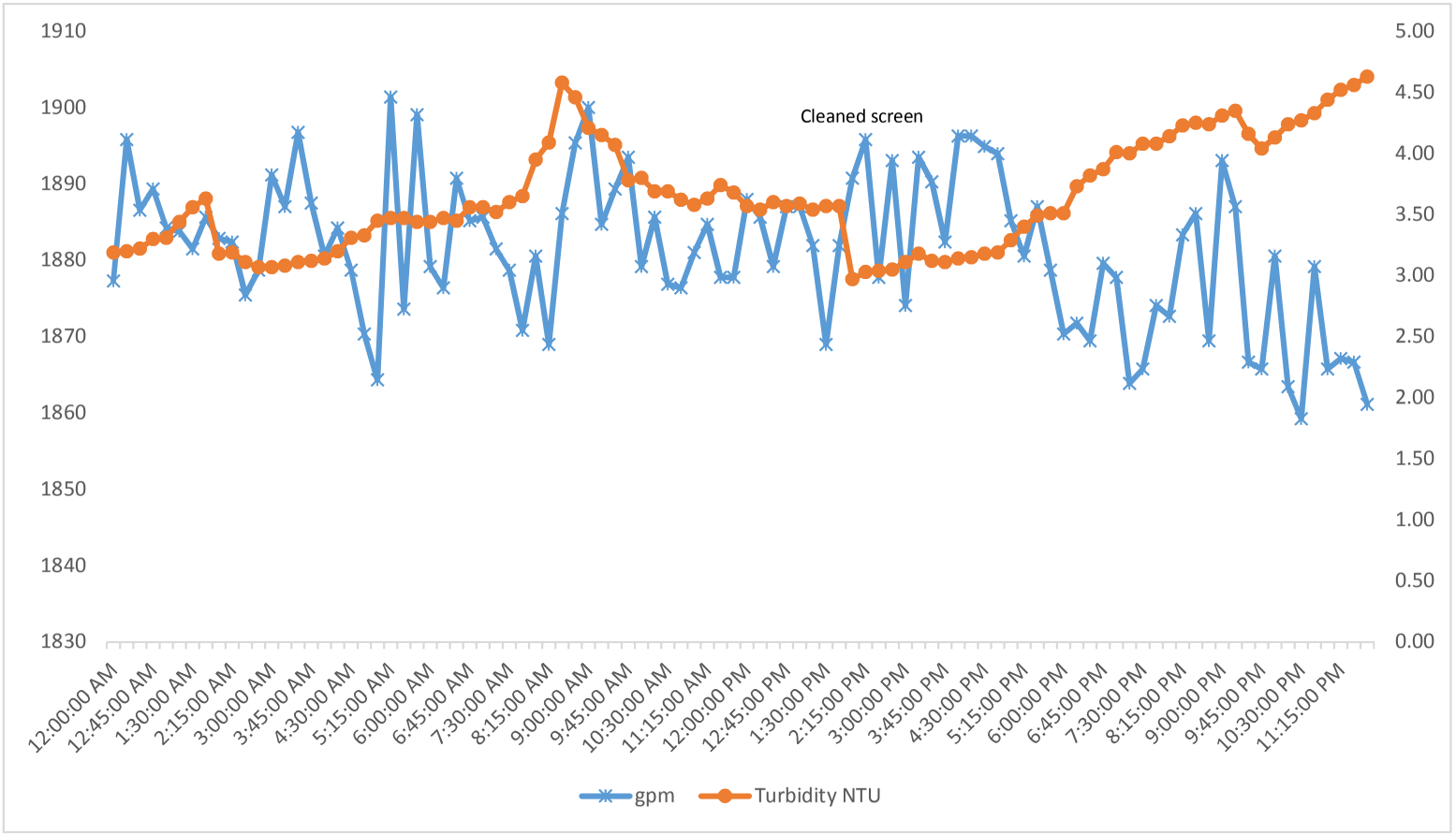
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Thursday, February 20, 2014

TCEQ-1J RR WWTP Effluent

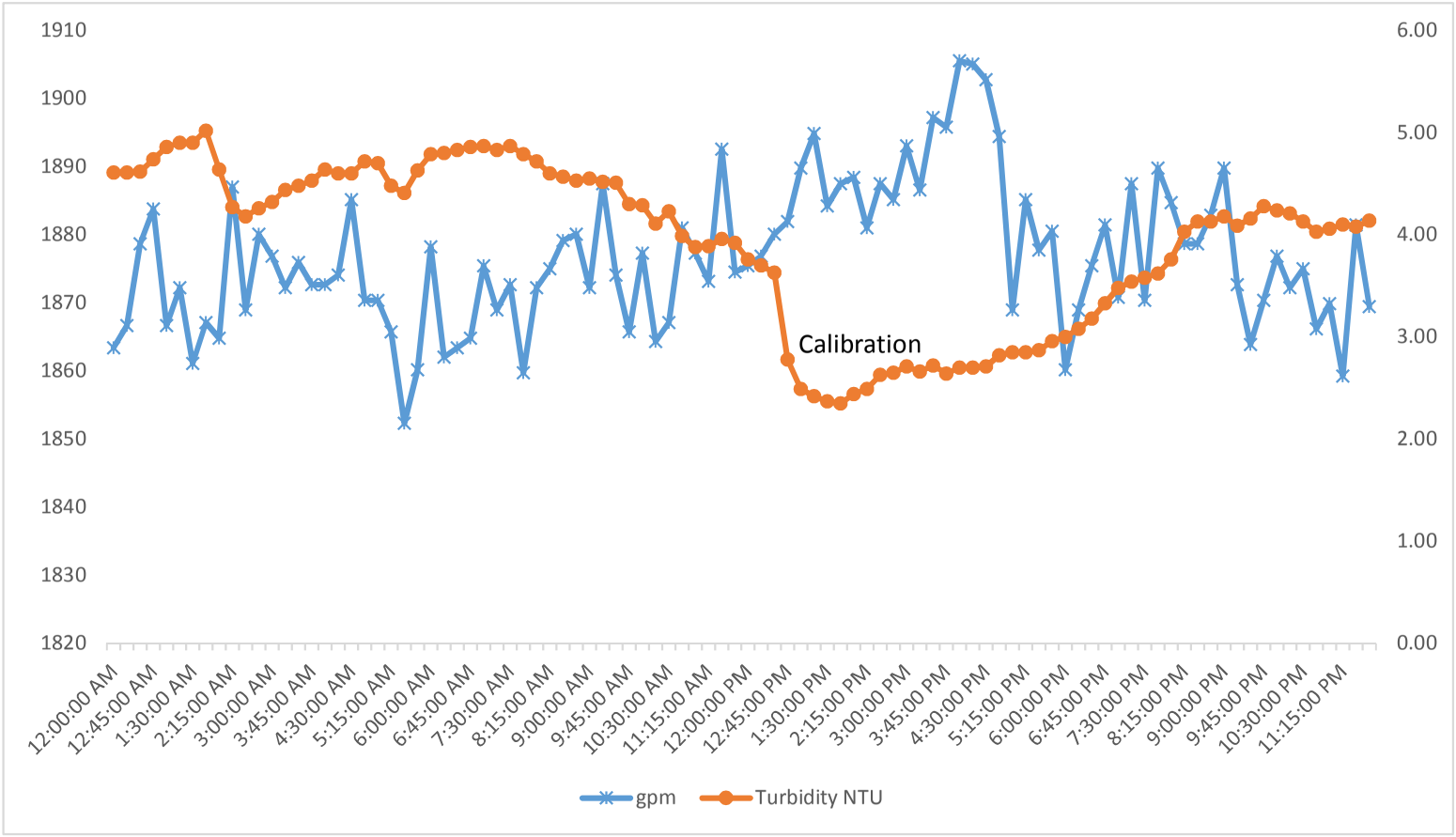
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Friday, February 21, 2014

TCEQ-1J RR WWTP Effluent

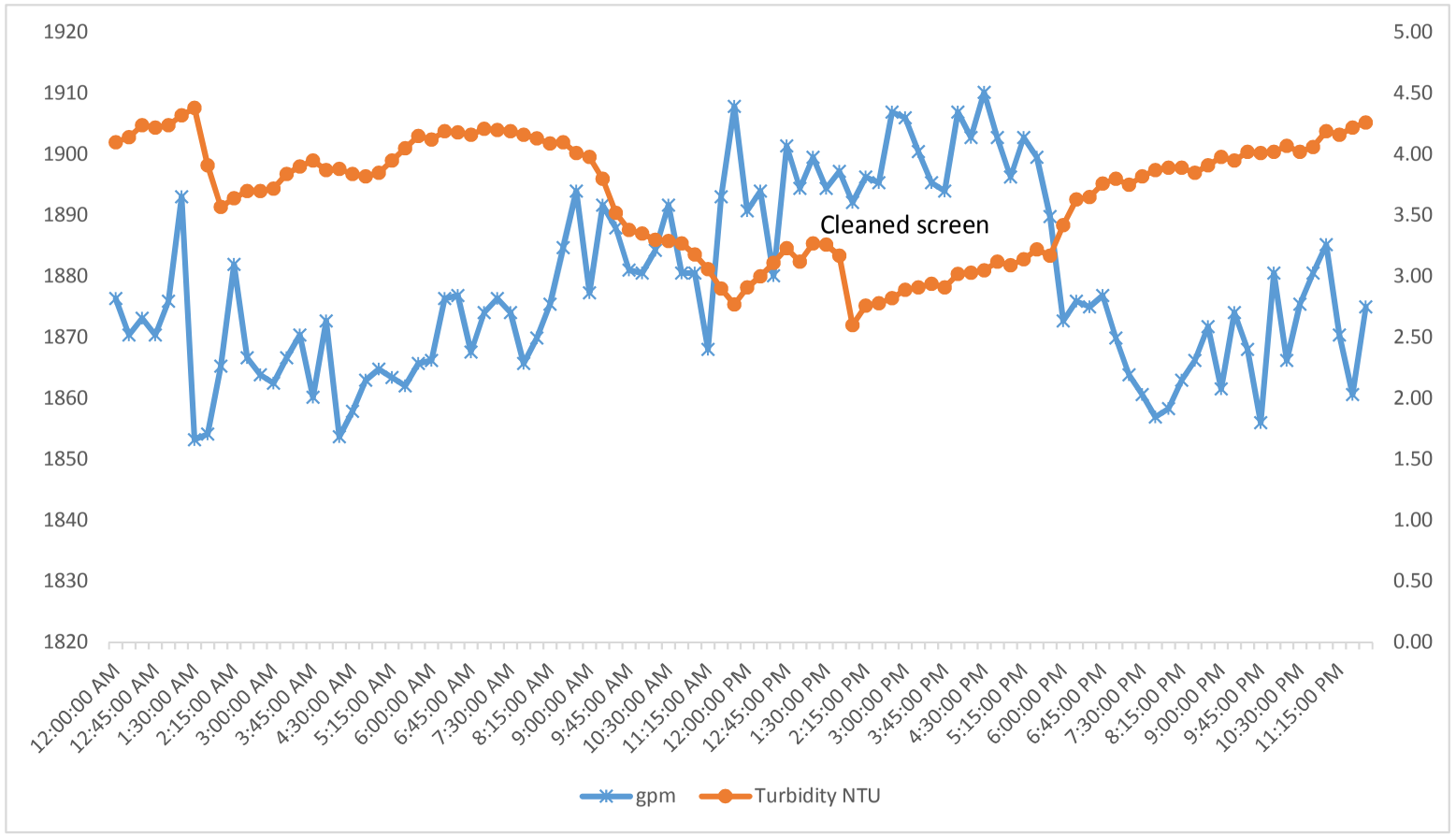
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Saturday, February 22, 2014

TCEQ-1J RR WWTP Effluent

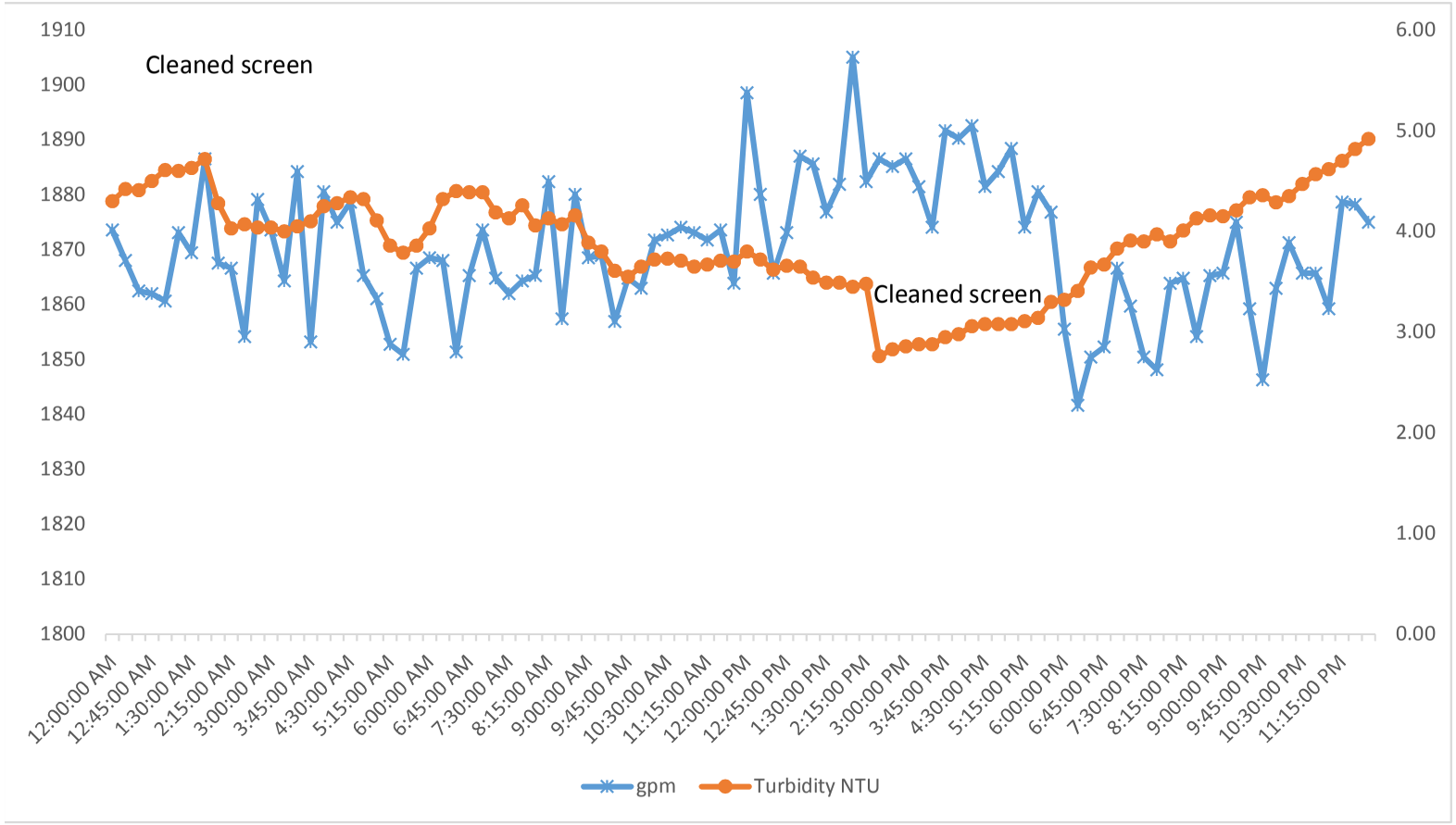
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Sunday, February 23, 2014

TCEQ-1J RR WWTP Effluent

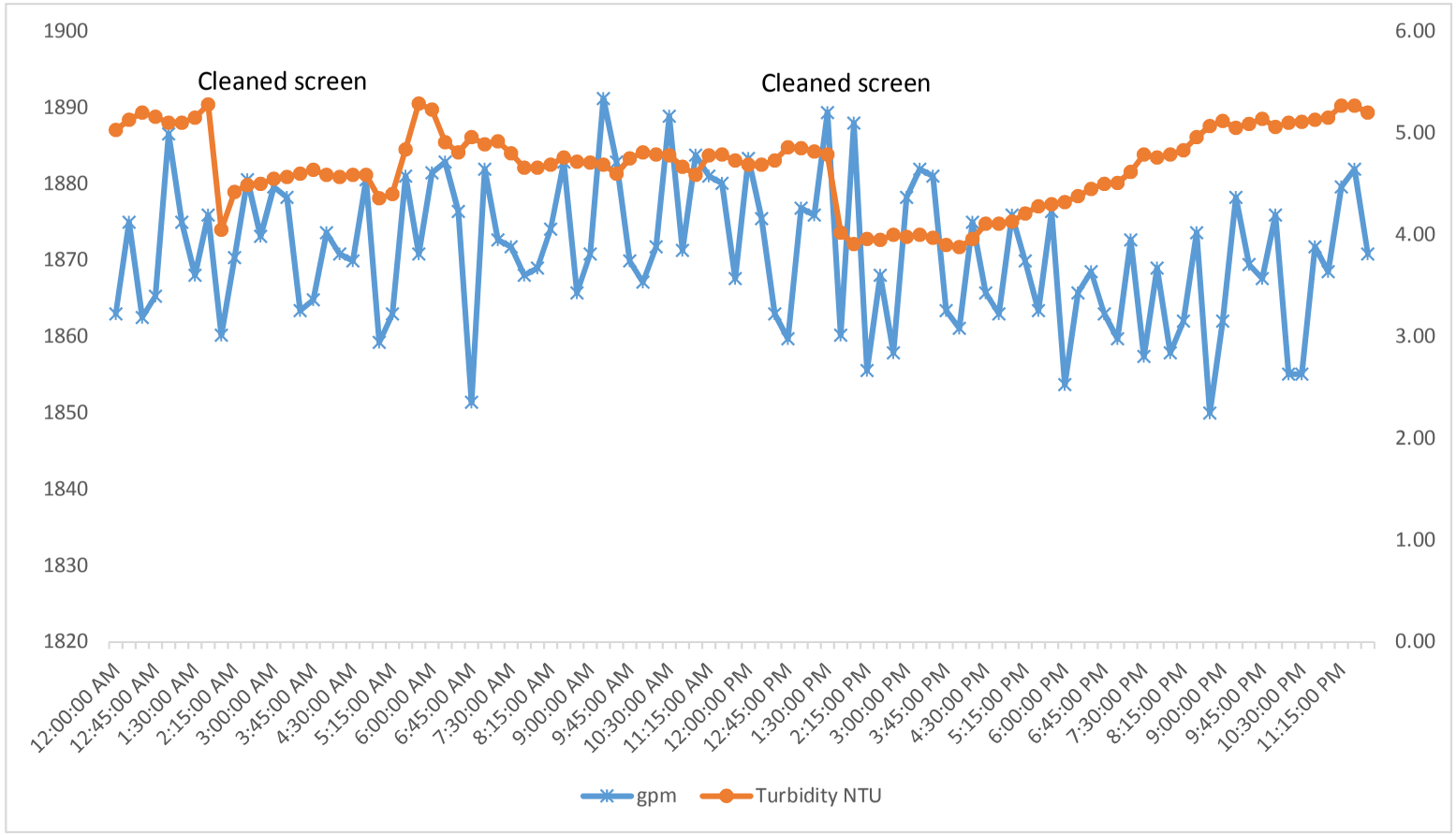
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Monday, February 24, 2014

TCEQ-1J RR WWTP Effluent

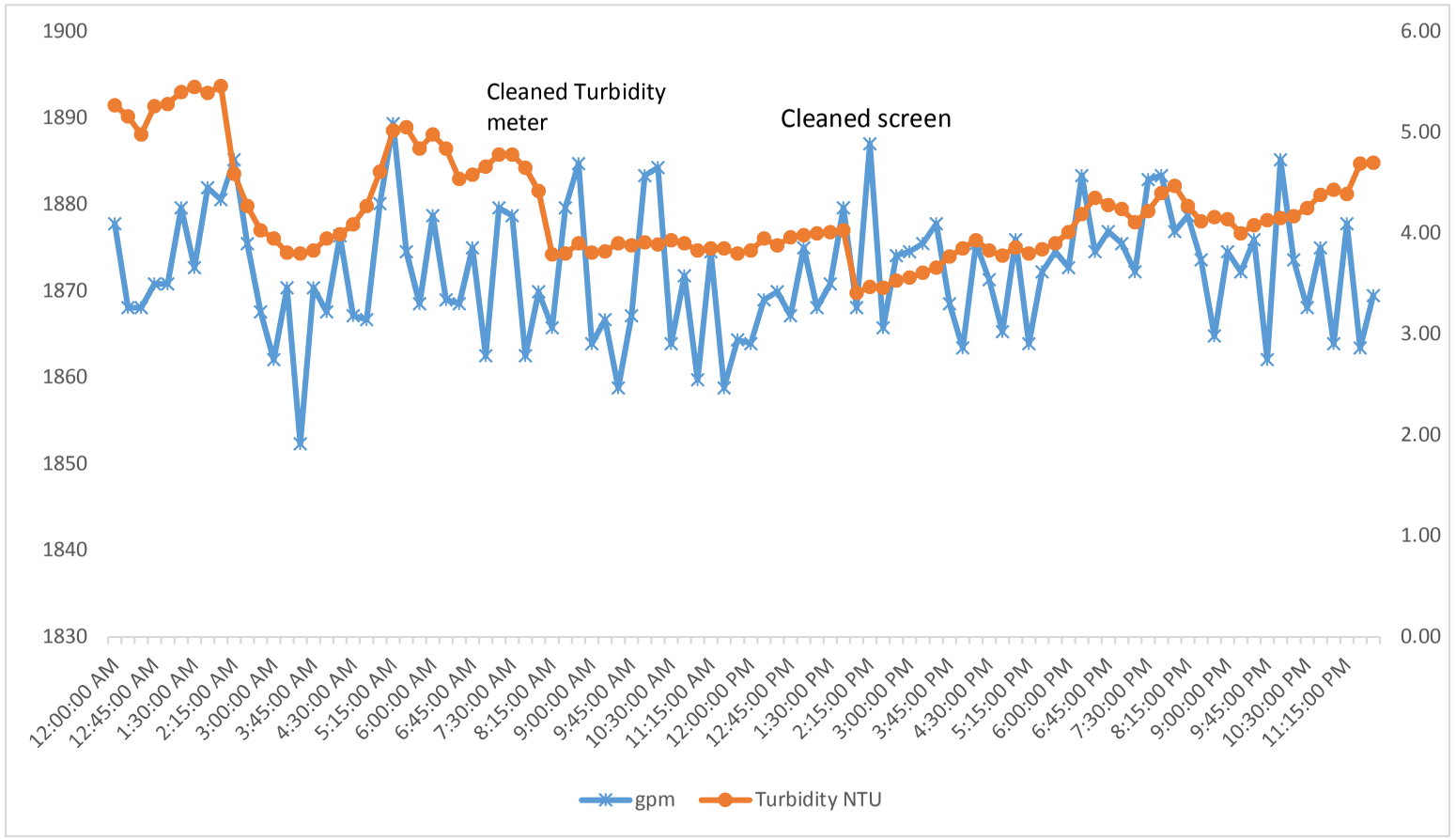
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Tuesday, February 25, 2014

TCEQ-1J RR WWTP Effluent

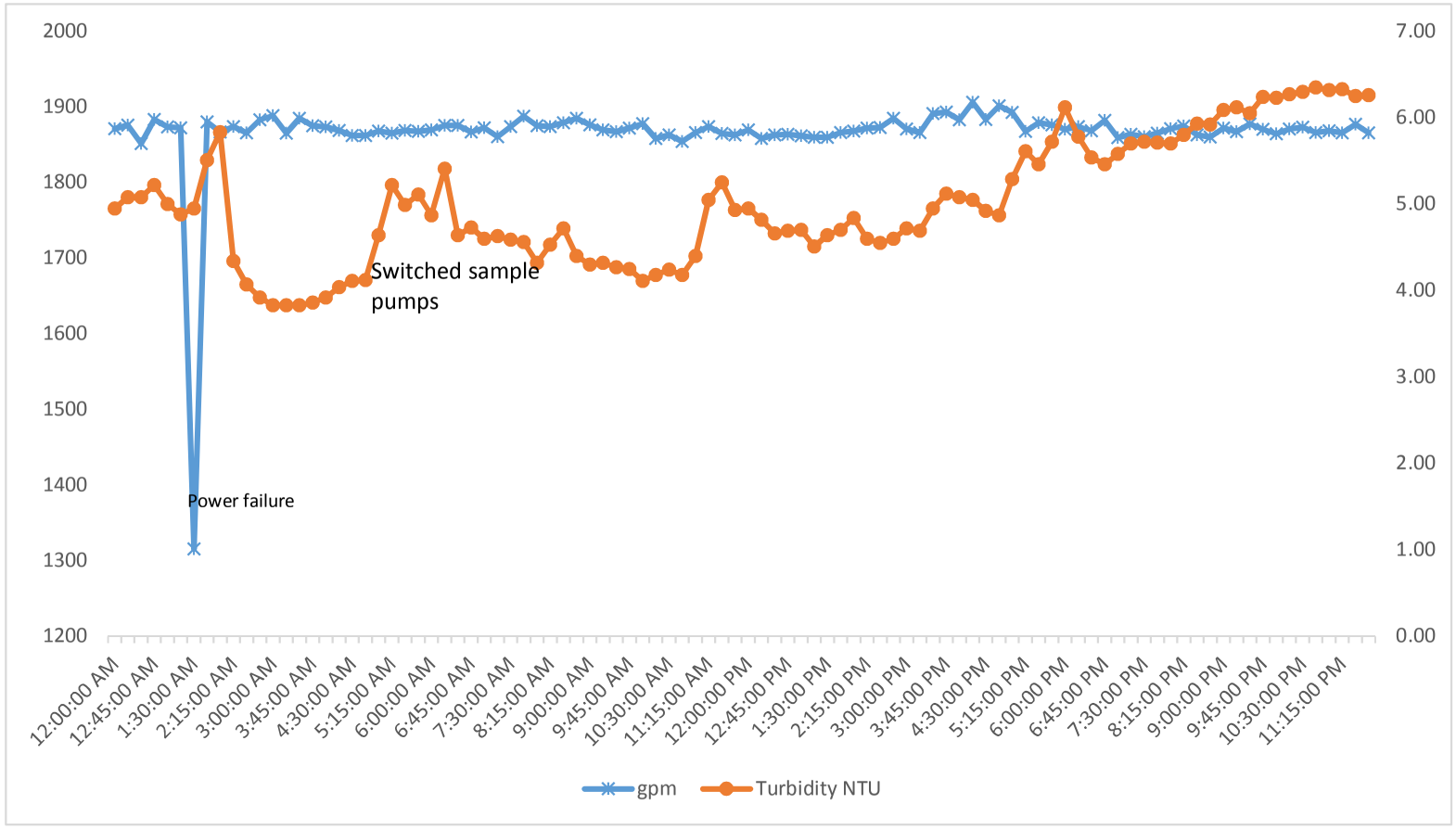
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Wednesday, February 26, 2014

TCEQ-1J RR WWTP Effluent

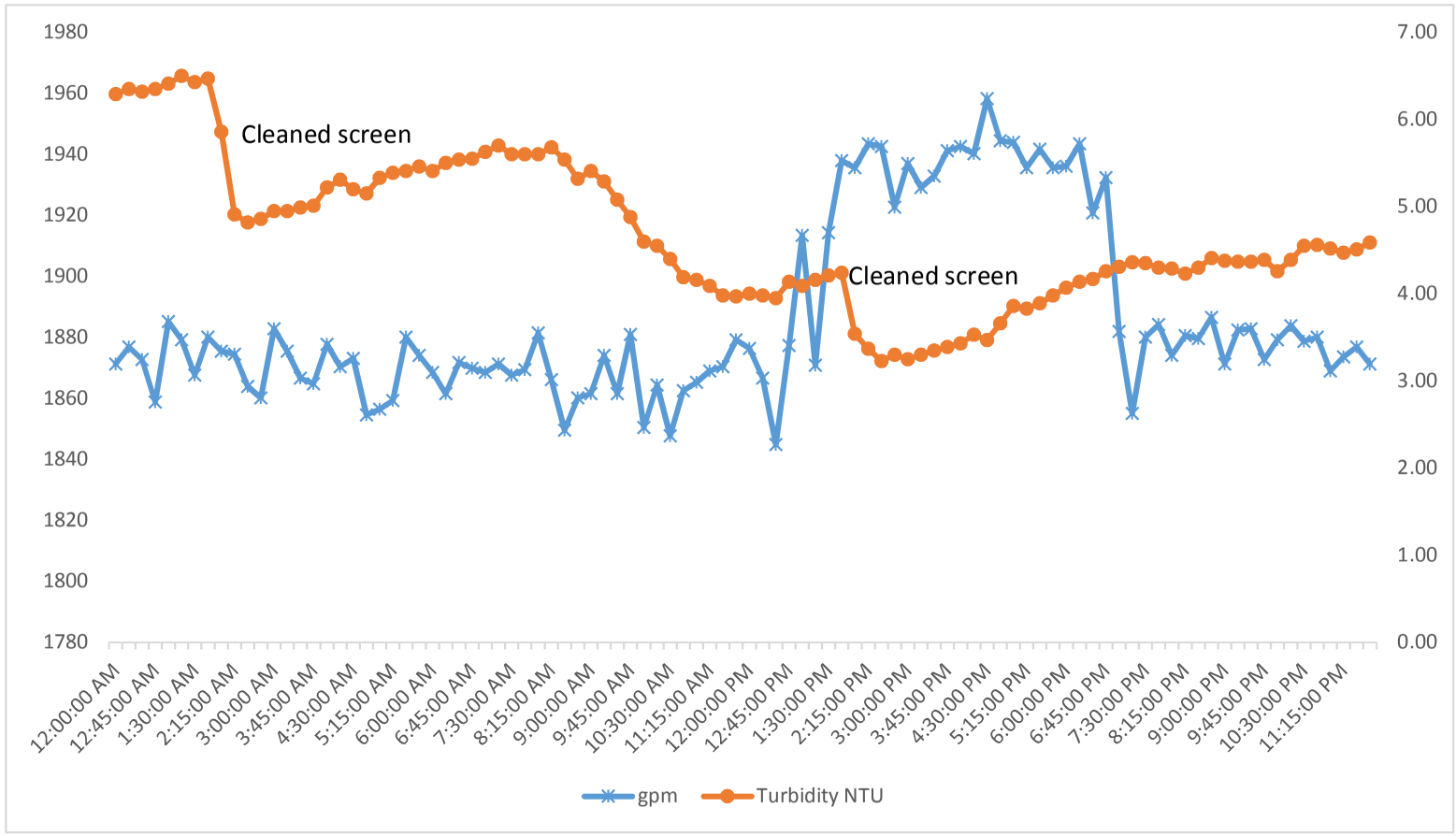
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Thursday, February 27, 2014

TCEQ-1J RR WWTP Effluent

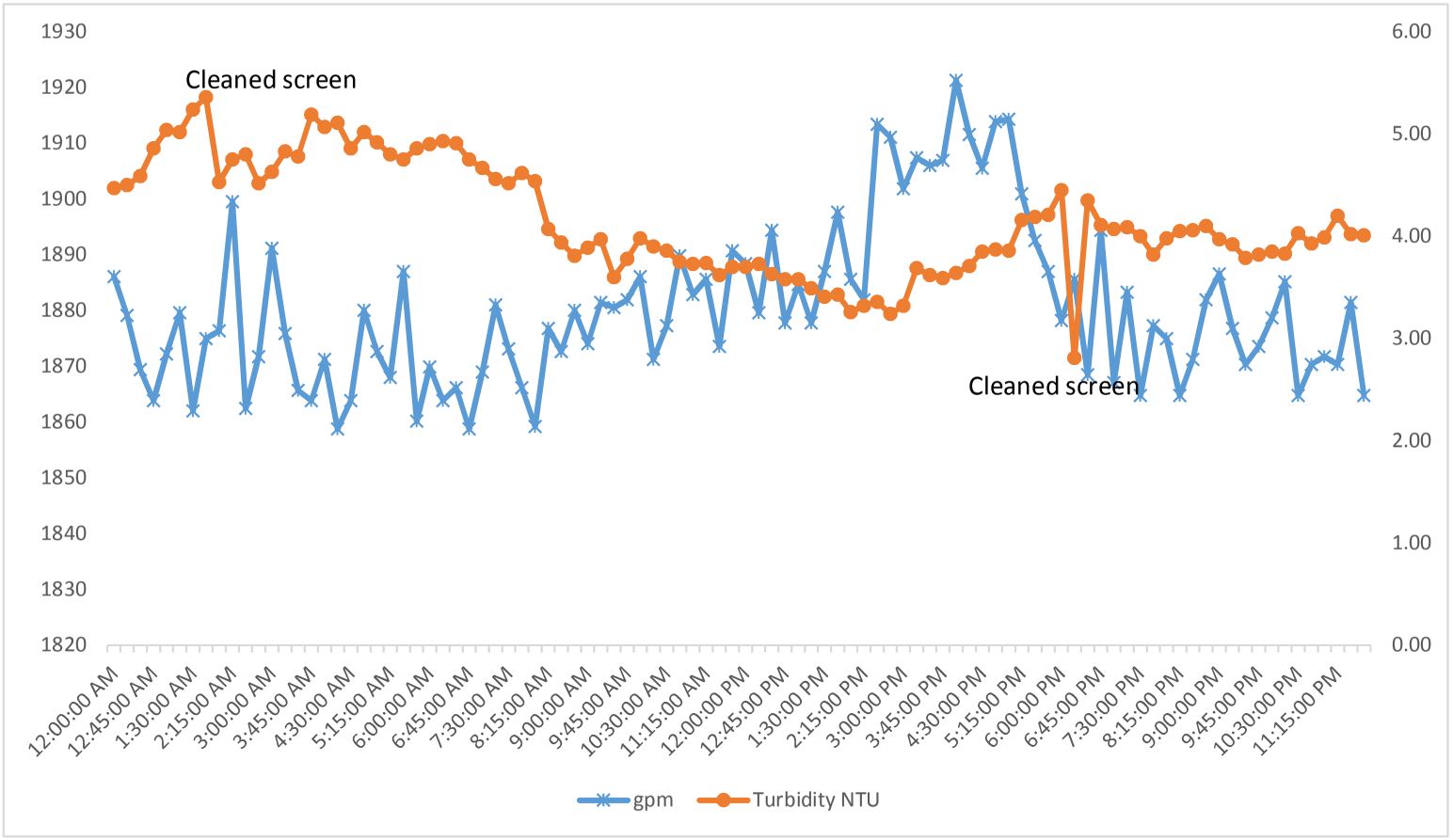
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Friday, February 28, 2014

TCEQ-1J RR WWTP Effluent

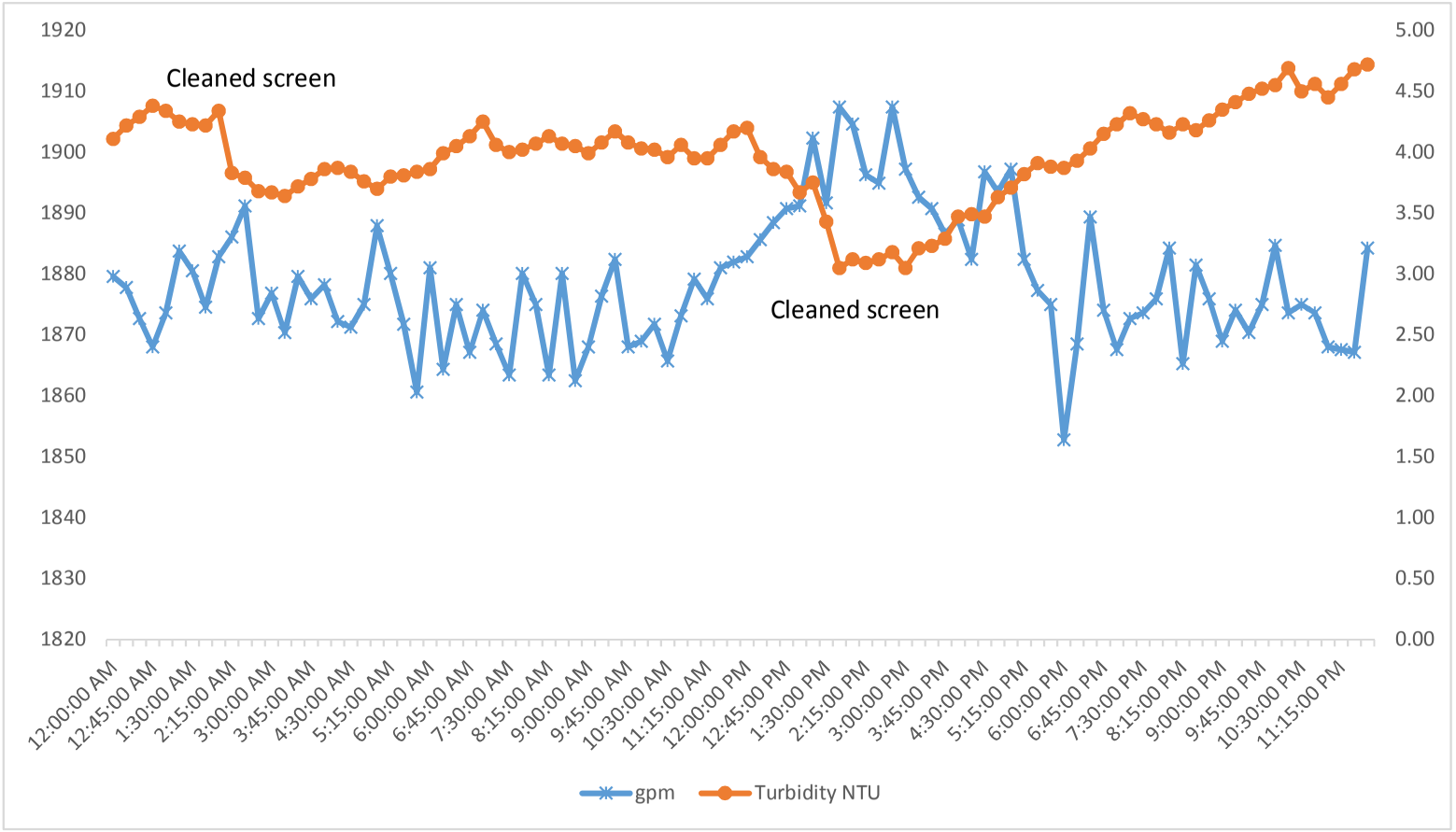
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Saturday, March 01, 2014

TCEQ-1J RR WWTP Effluent

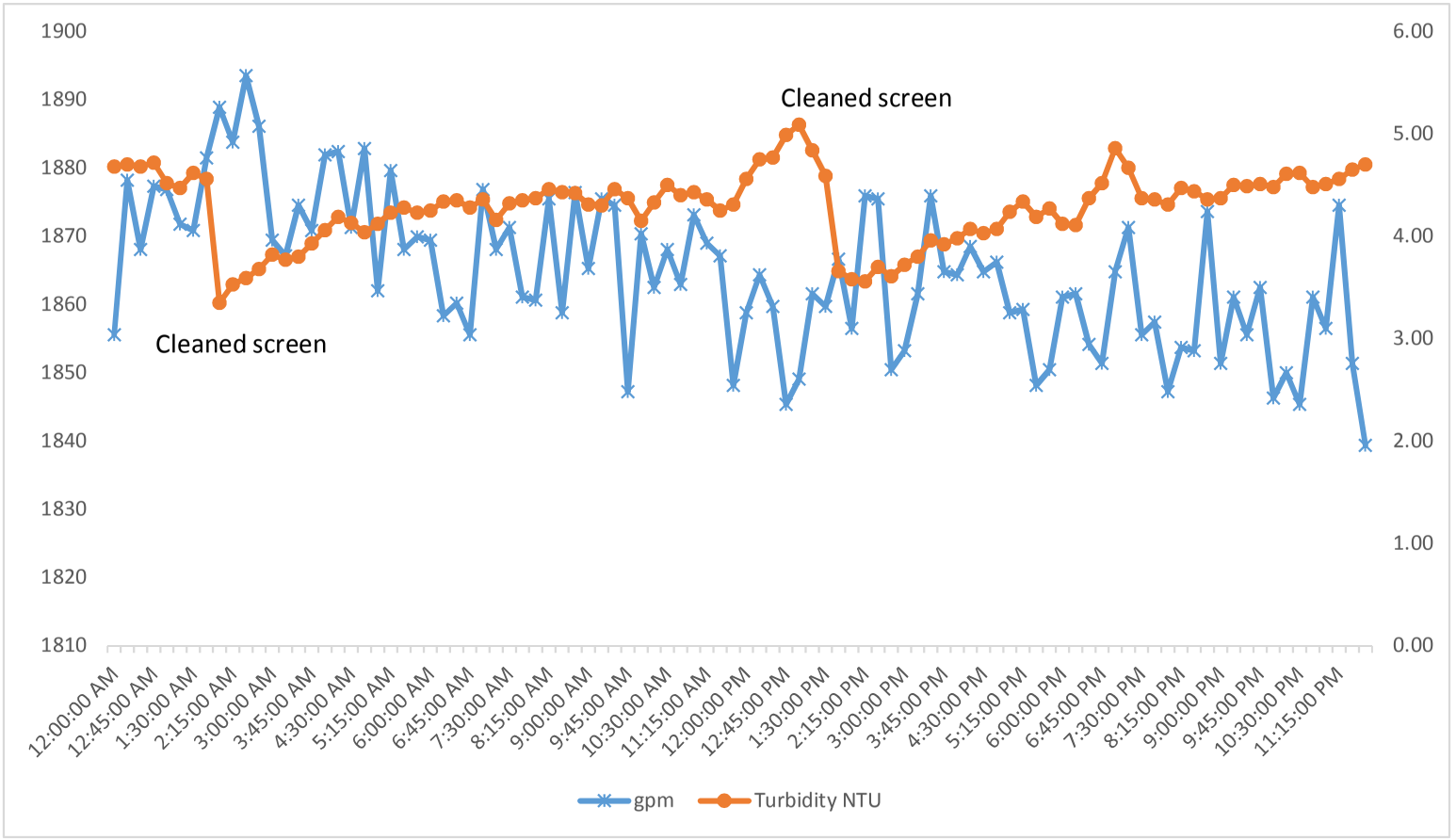
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Sunday, March 02, 2014

TCEQ-1J RR WWTP Effluent

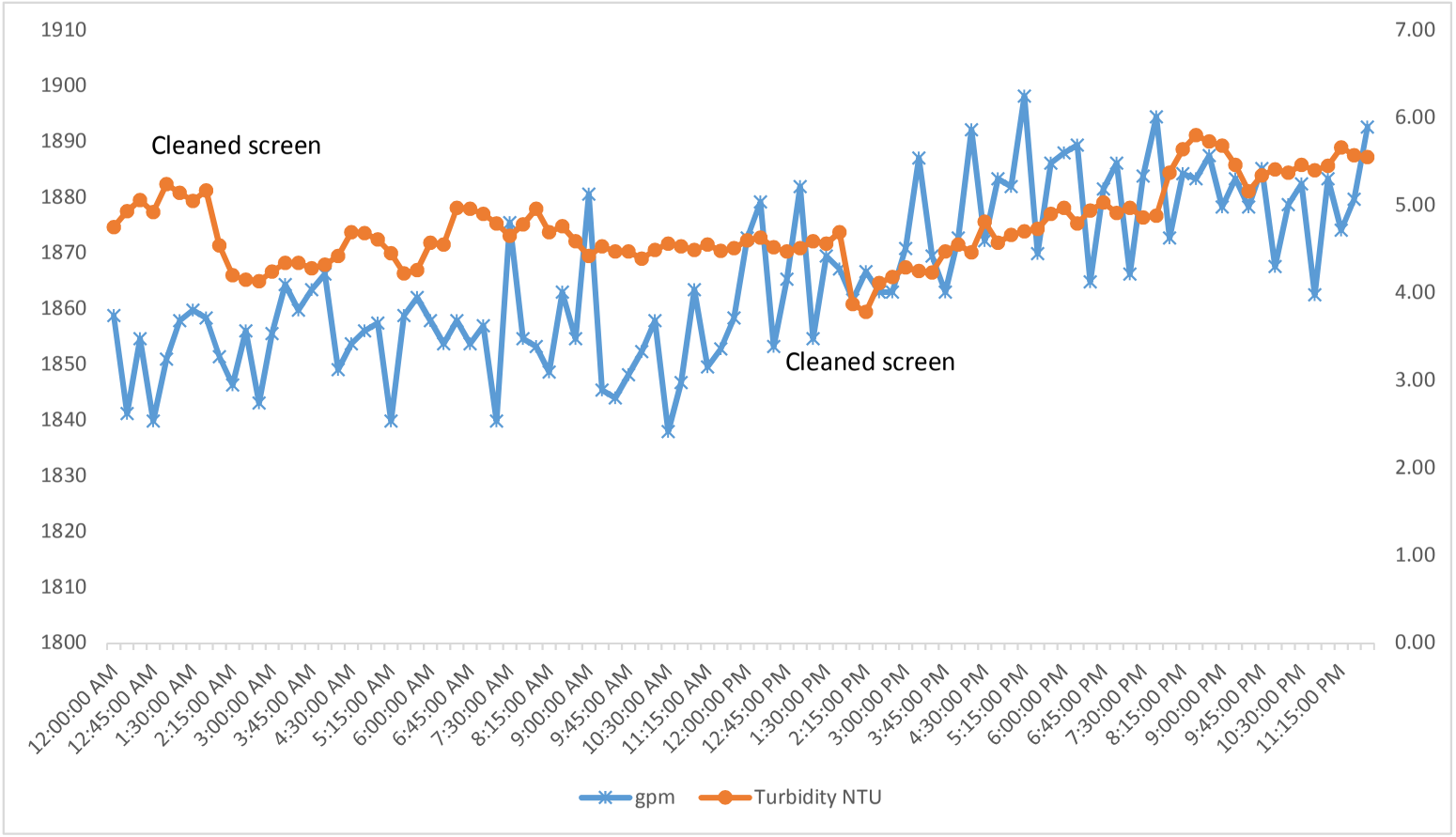
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Monday, March 03, 2014

TCEQ-1J RR WWTP Effluent

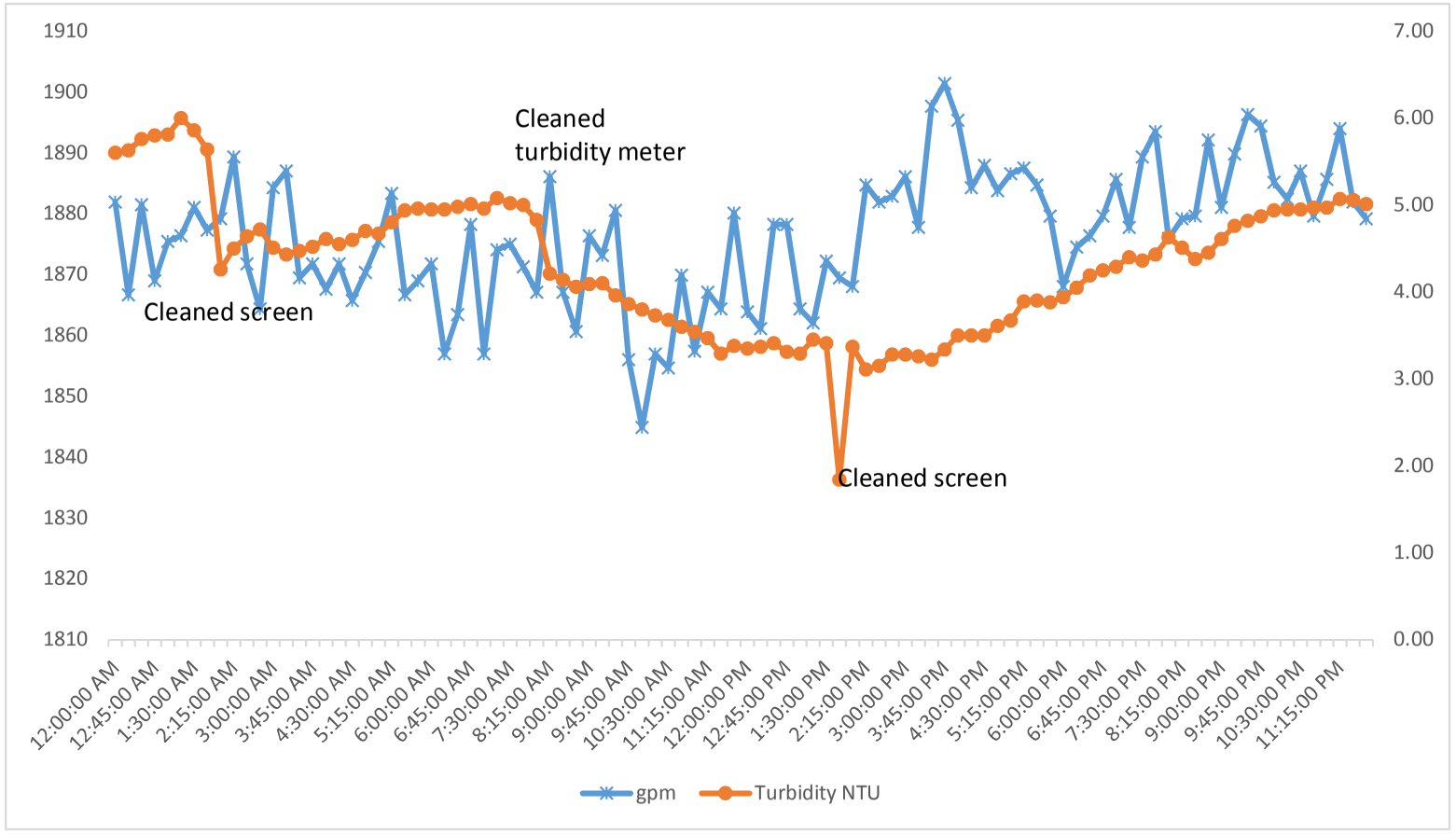
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Tuesday, March 04, 2014

TCEQ-1J RR WWTP Effluent

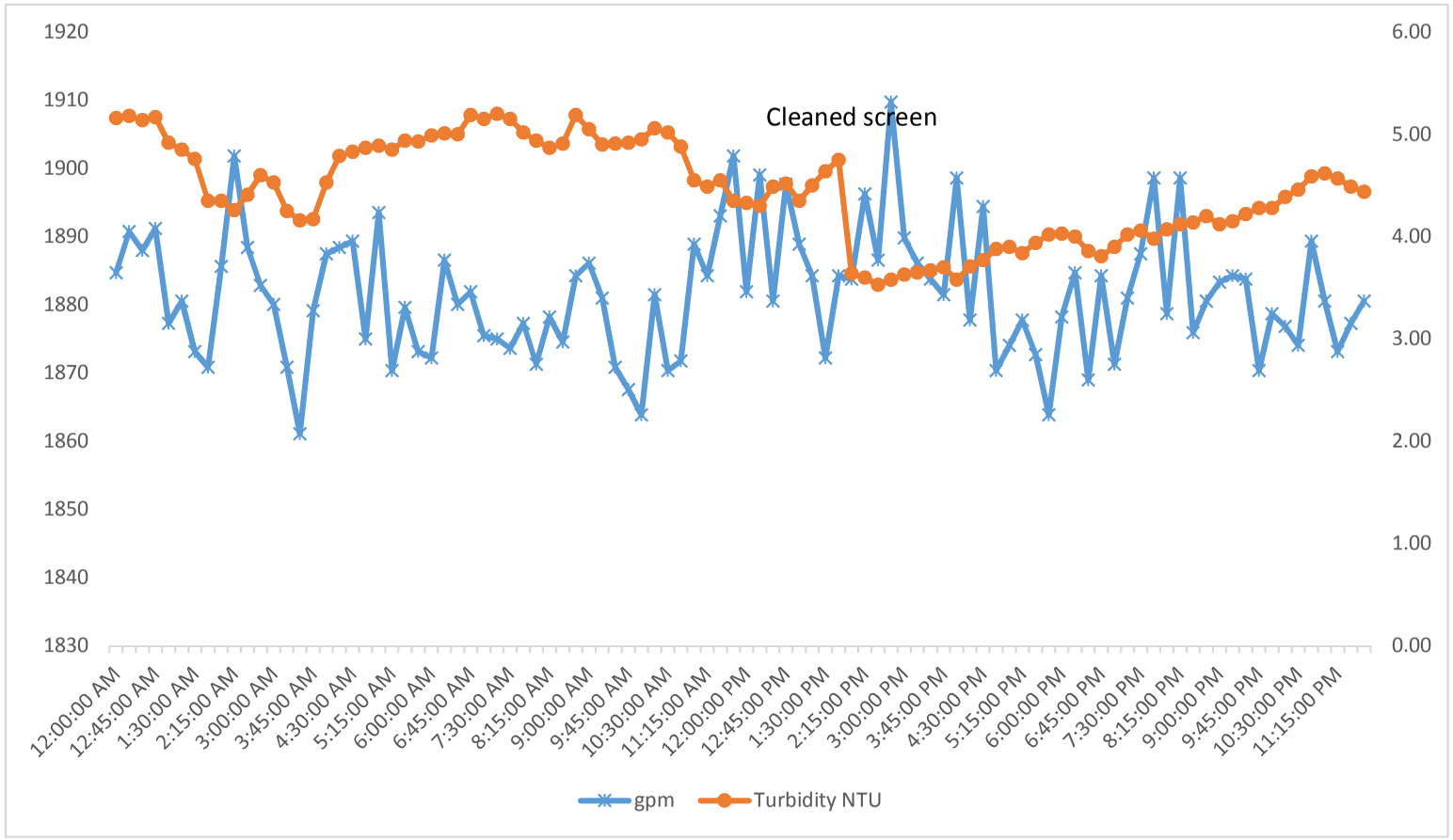
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Wednesday, March 05, 2014

TCEQ-1J RR WWTP Effluent

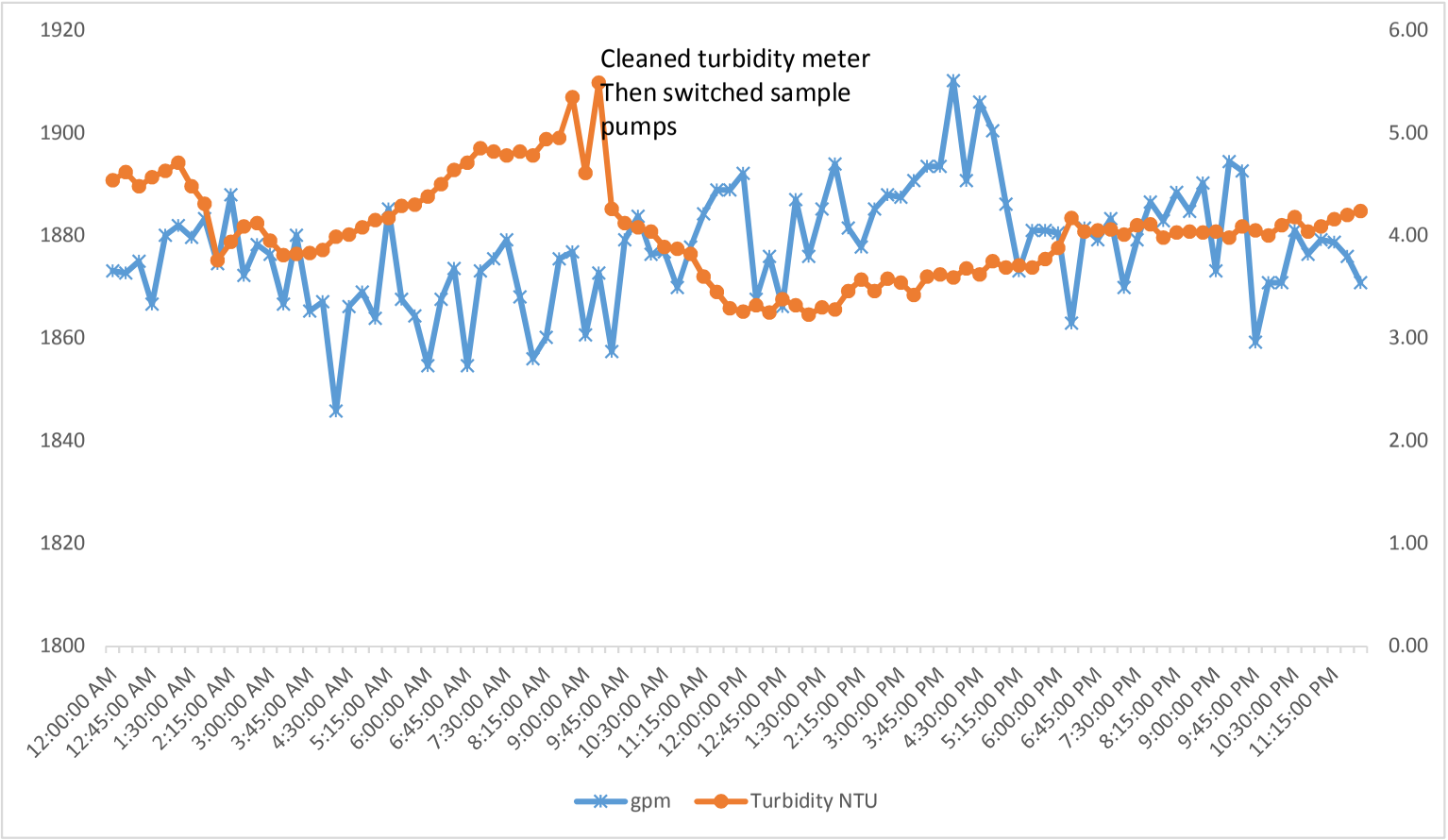
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Thursday, March 06, 2014

TCEQ-1J RR WWTP Effluent

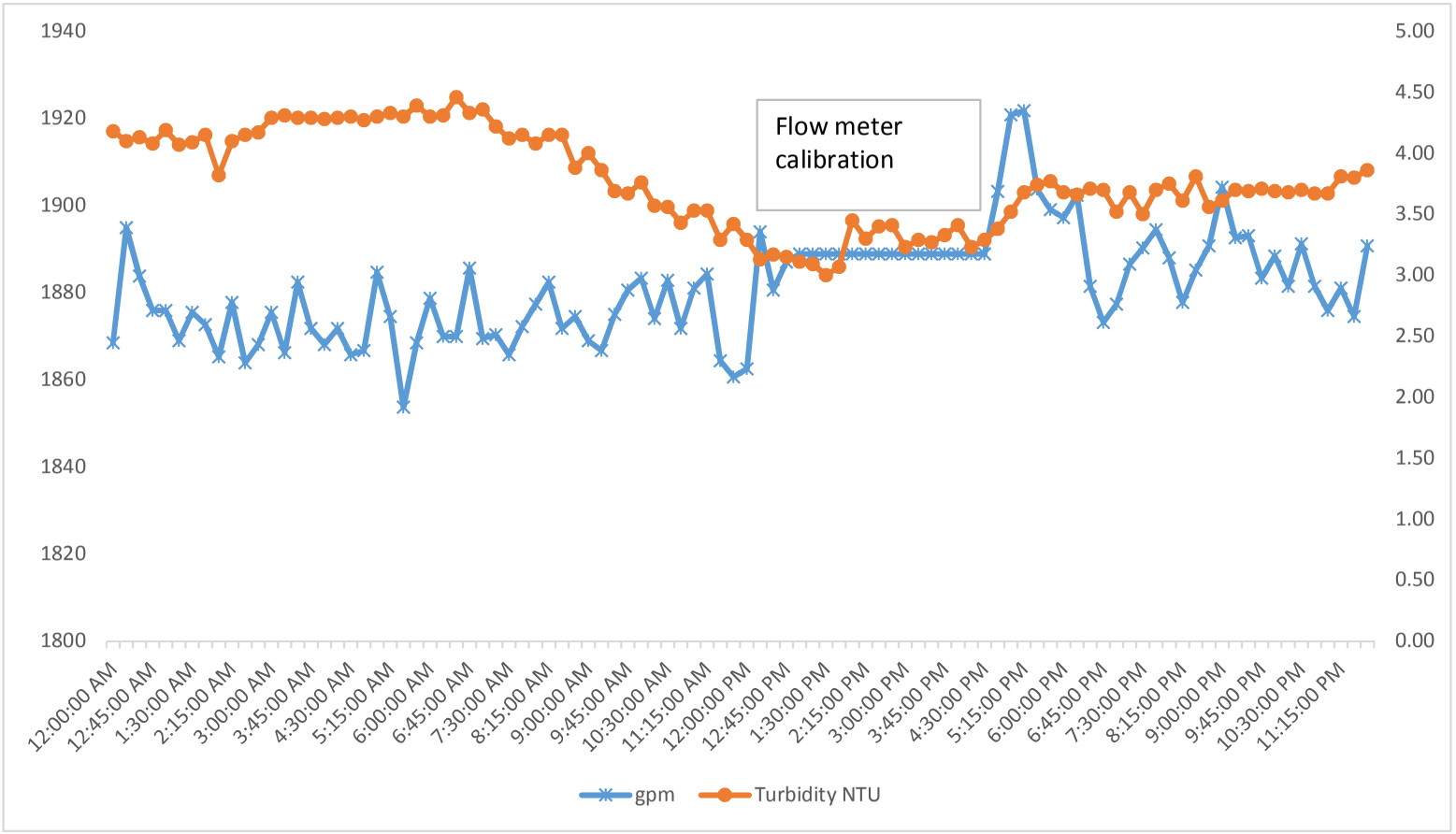
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Friday, March 07, 2014

TCEQ-1J RR WWTP Effluent

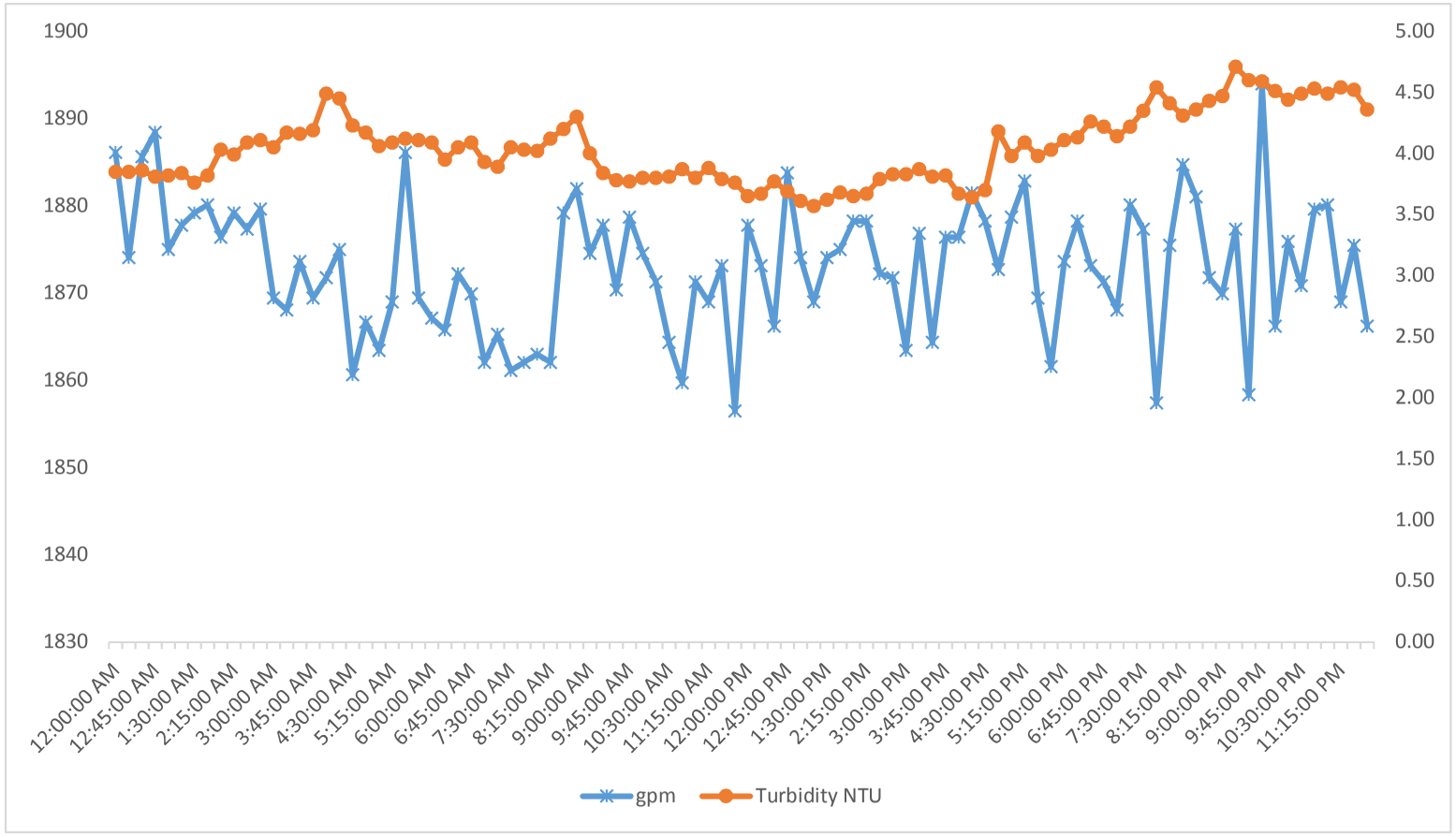
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Saturday, March 08, 2014

TCEQ-1J RR WWTP Effluent

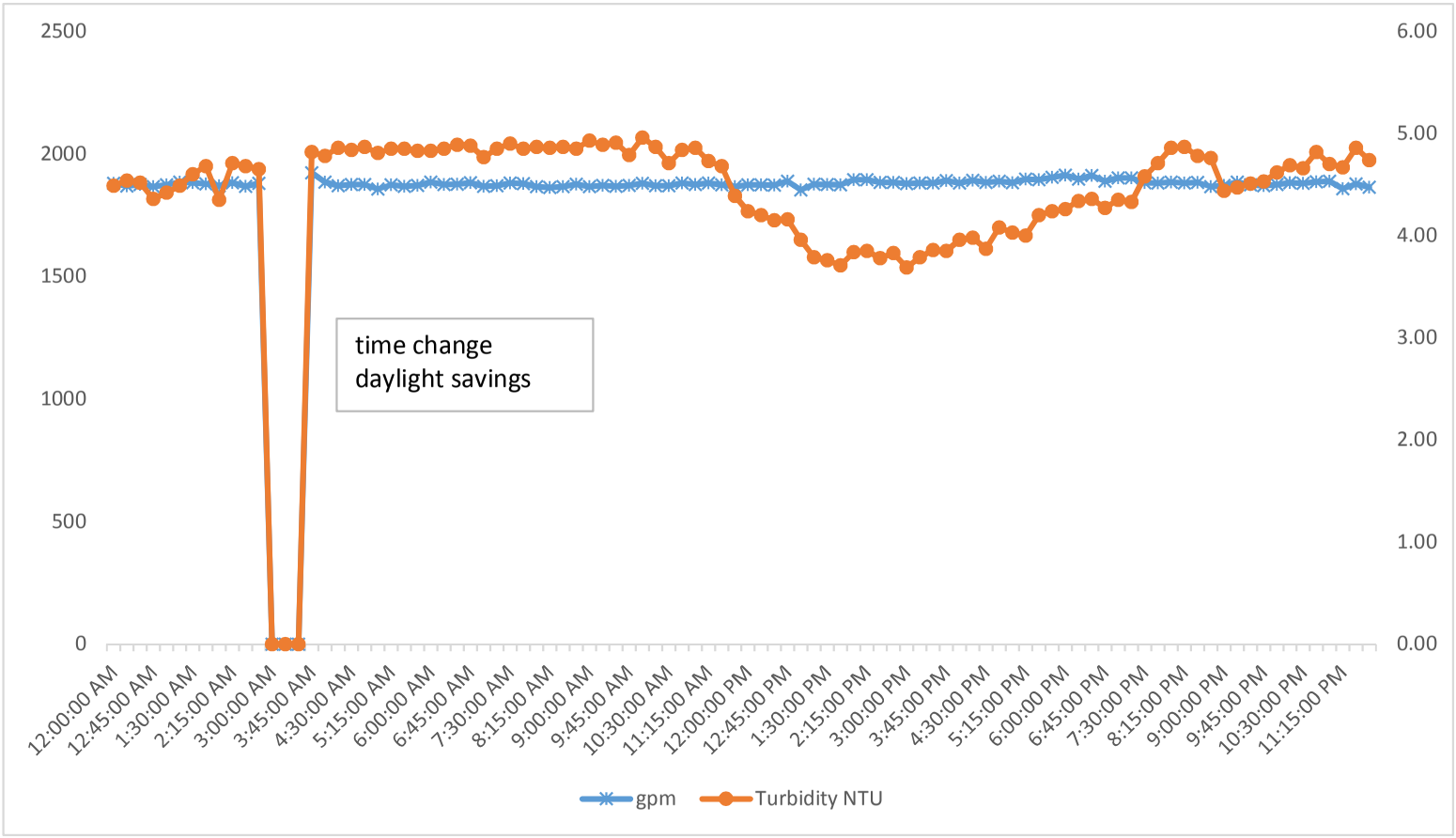
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Sunday, March 09, 2014

TCEQ-1J RR WWTP Effluent

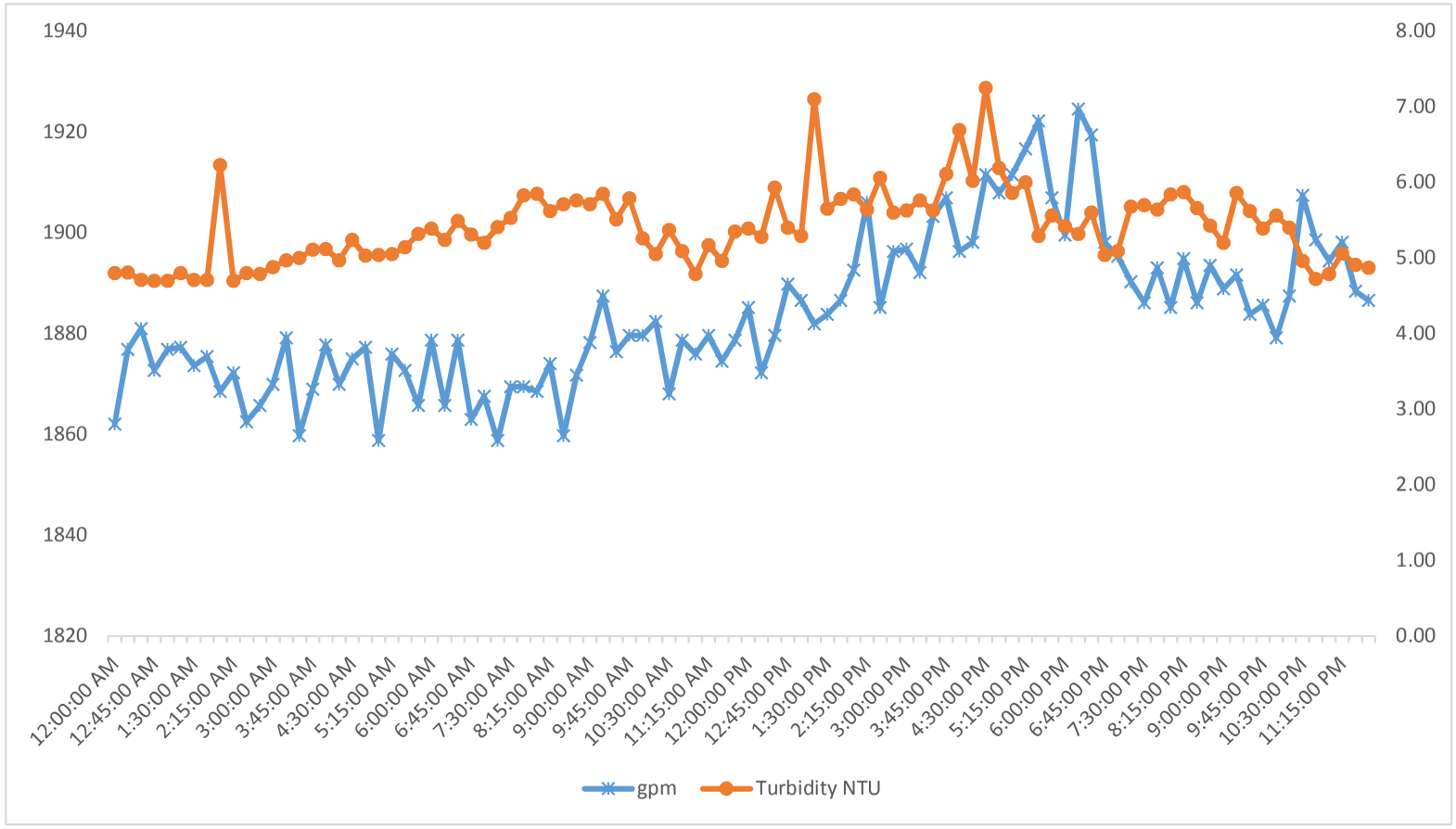
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)



Monday, March 10, 2014

TCEQ-1J RR WWTP Effluent

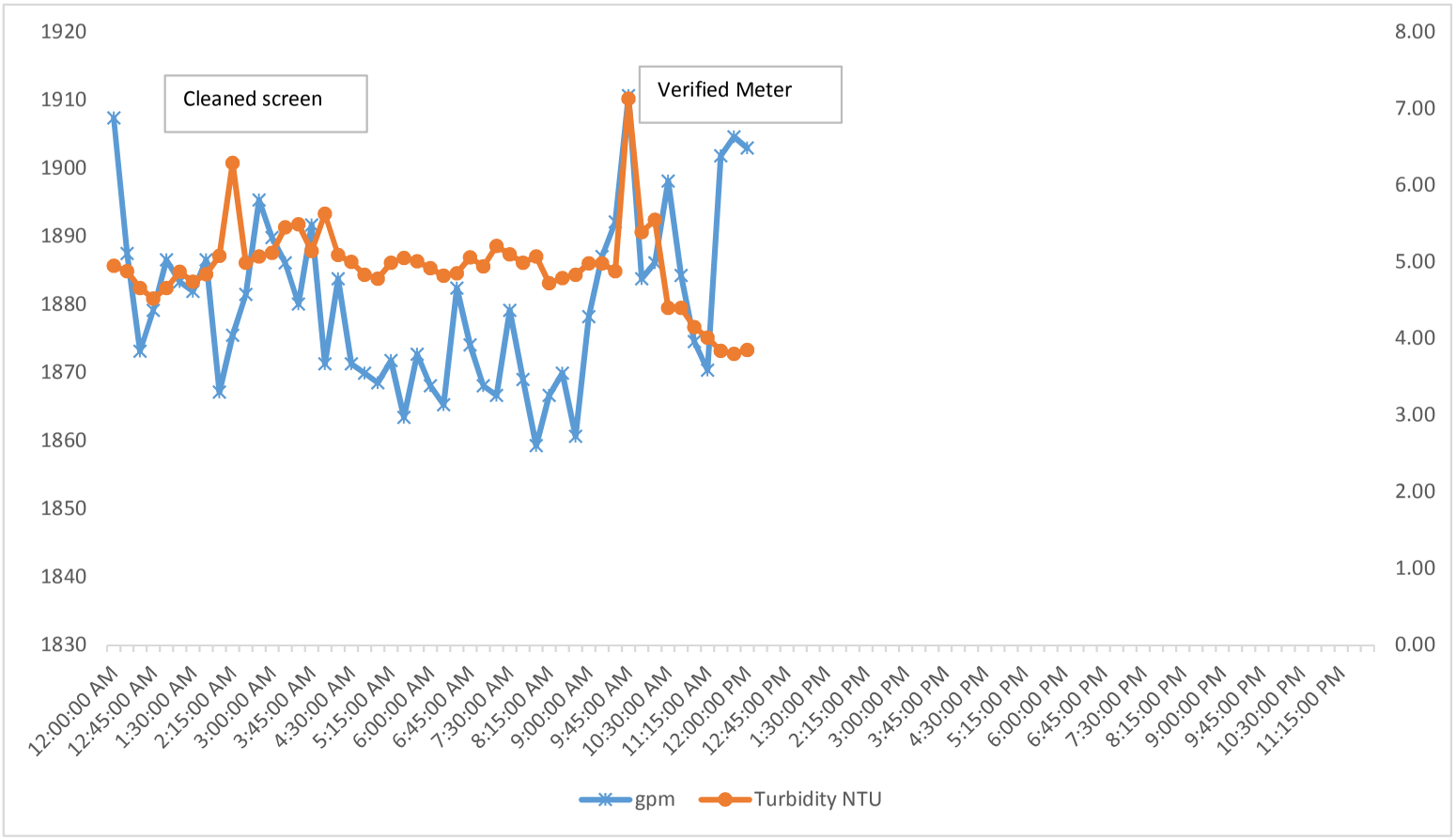
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)

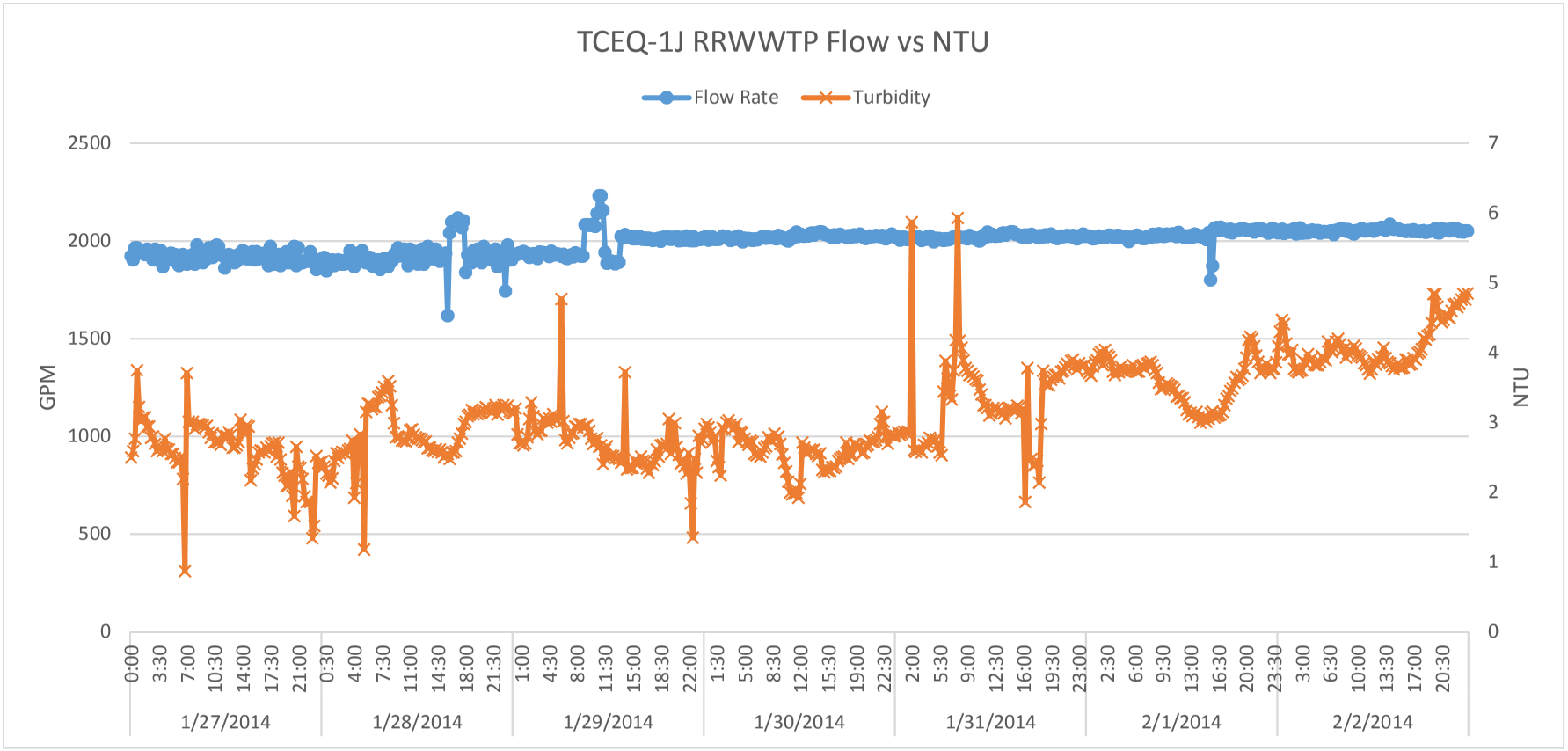


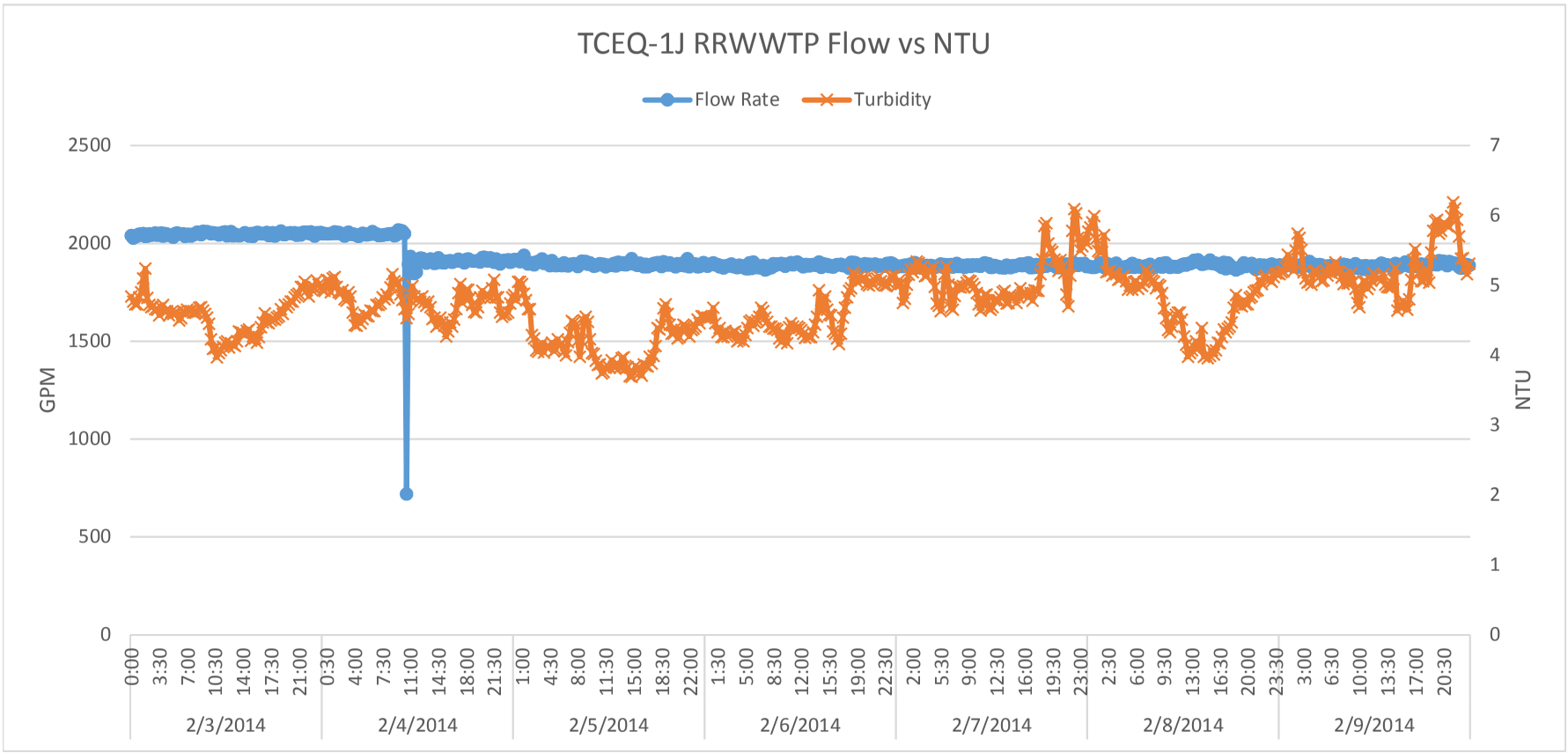
Tuesday, March 11, 2014

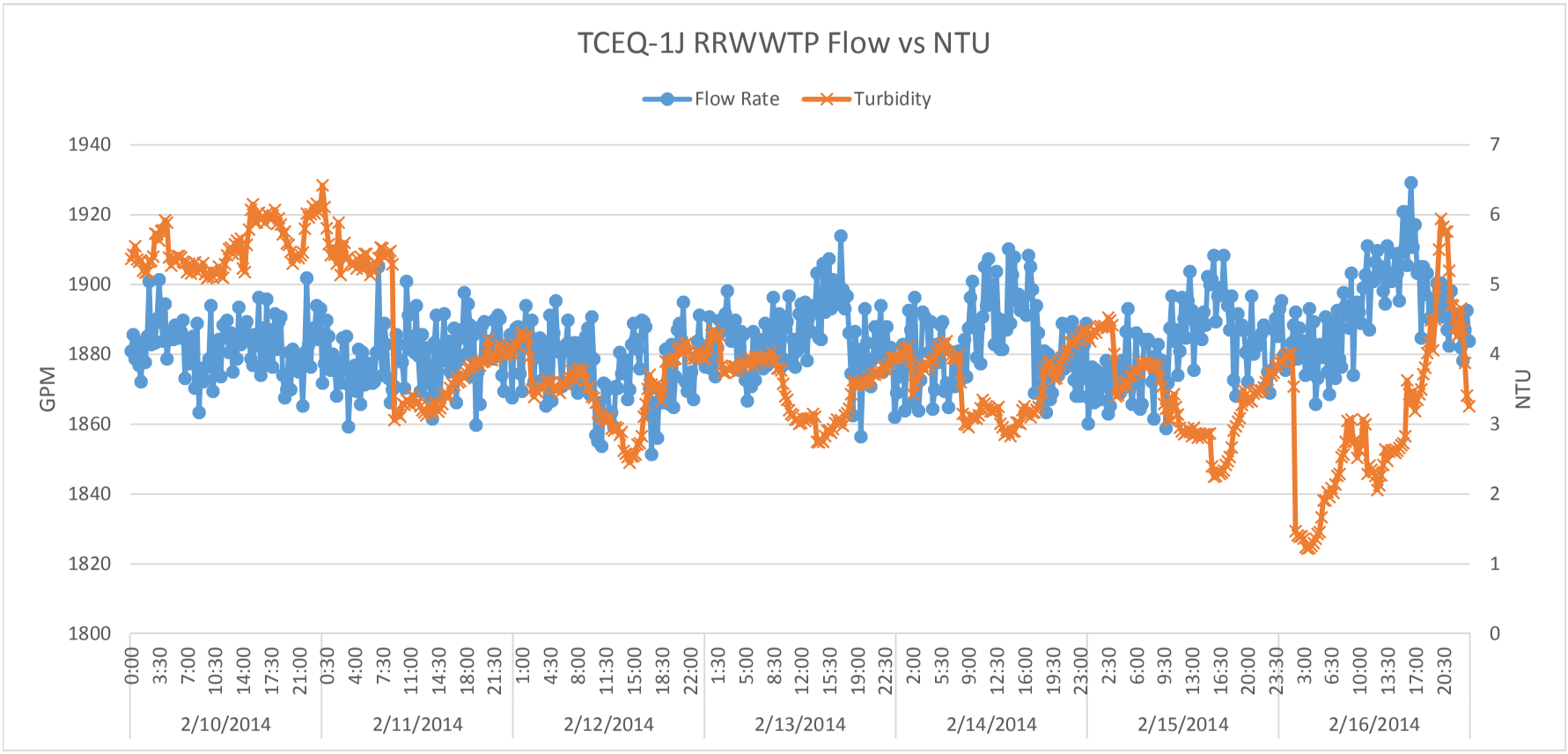
TCEQ-1J RR WWTP Effluent

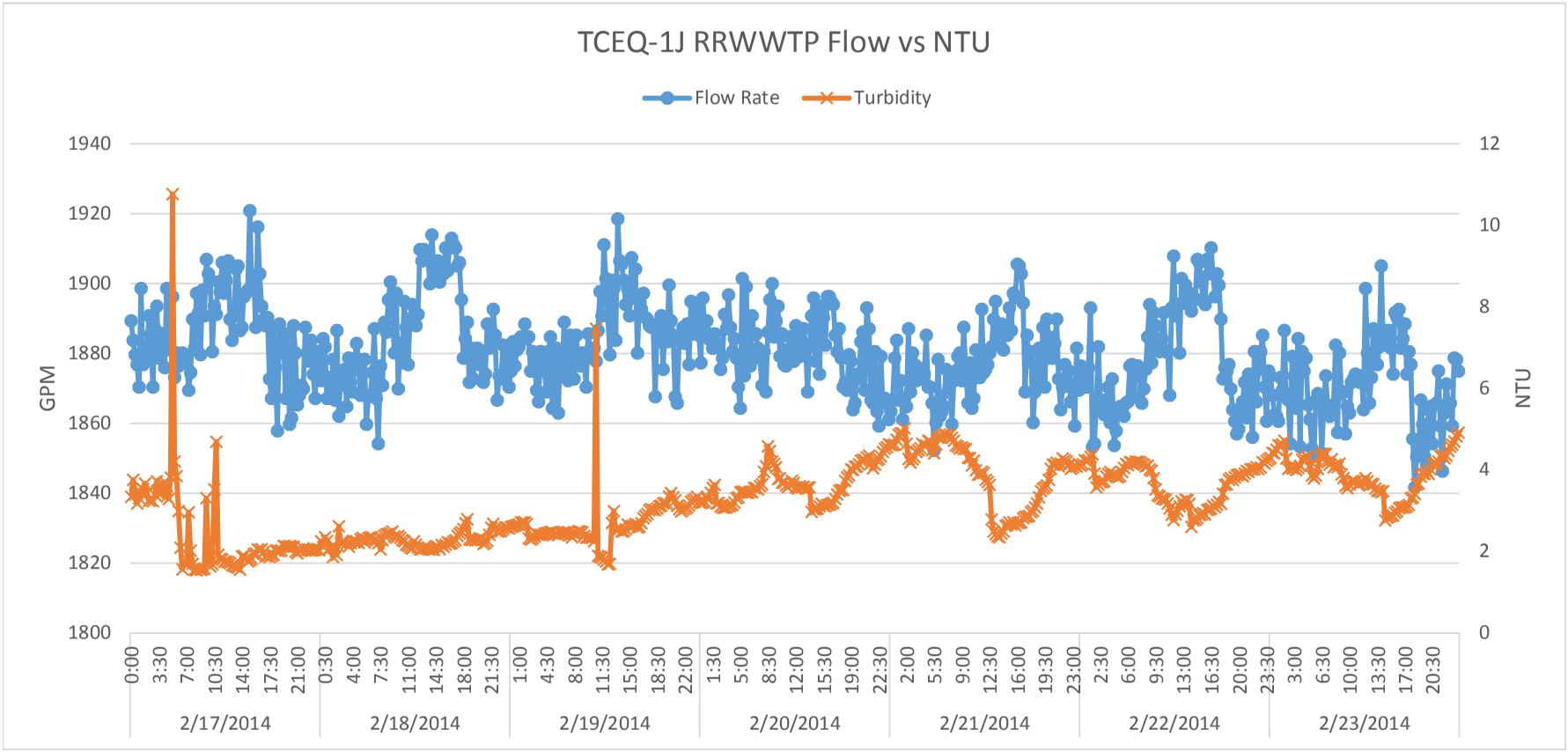
(at RR WWTP chlorine injection box after second clarification & prior to WW DZ 1 chlorine injection point before RR WWTP Chlorine Contact Basin)

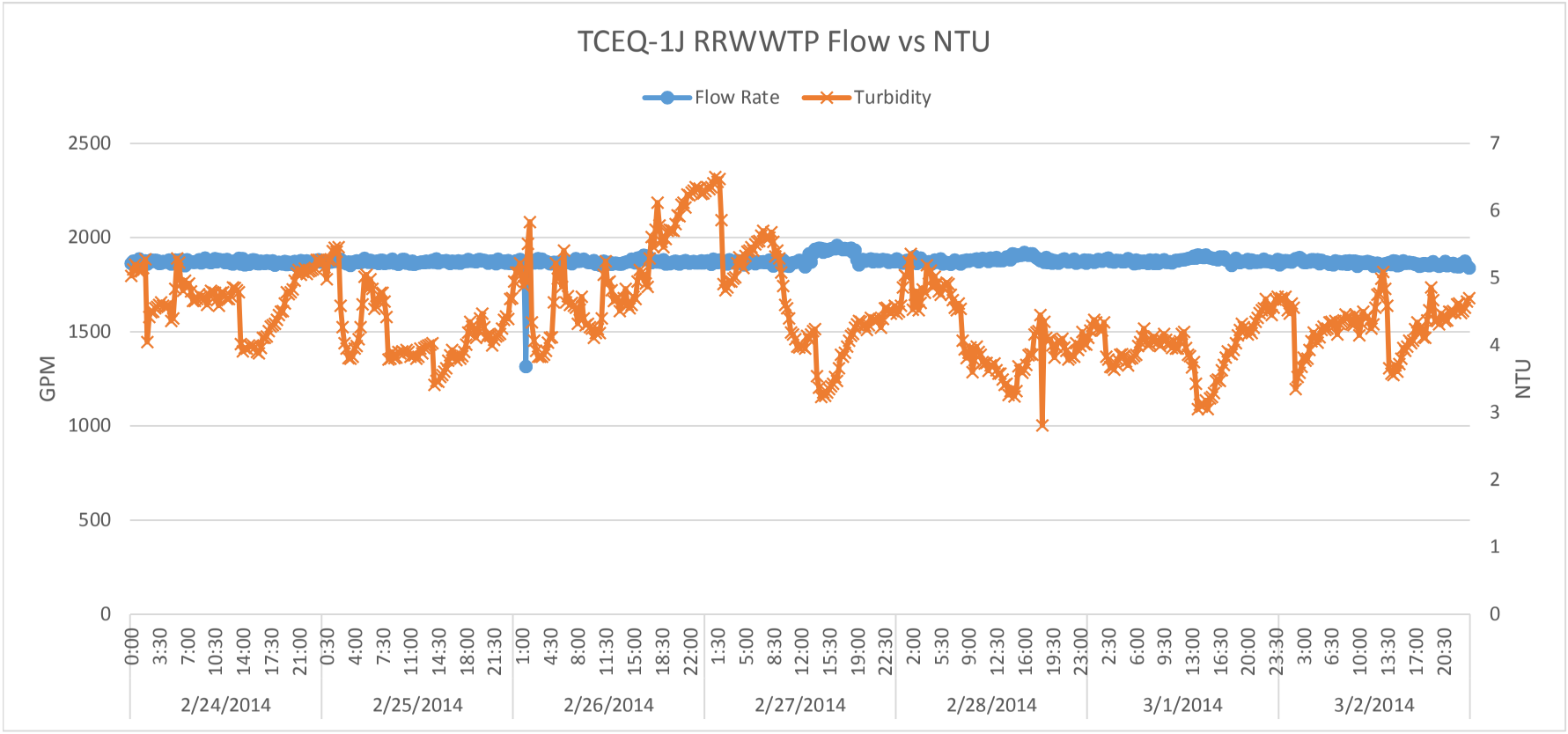


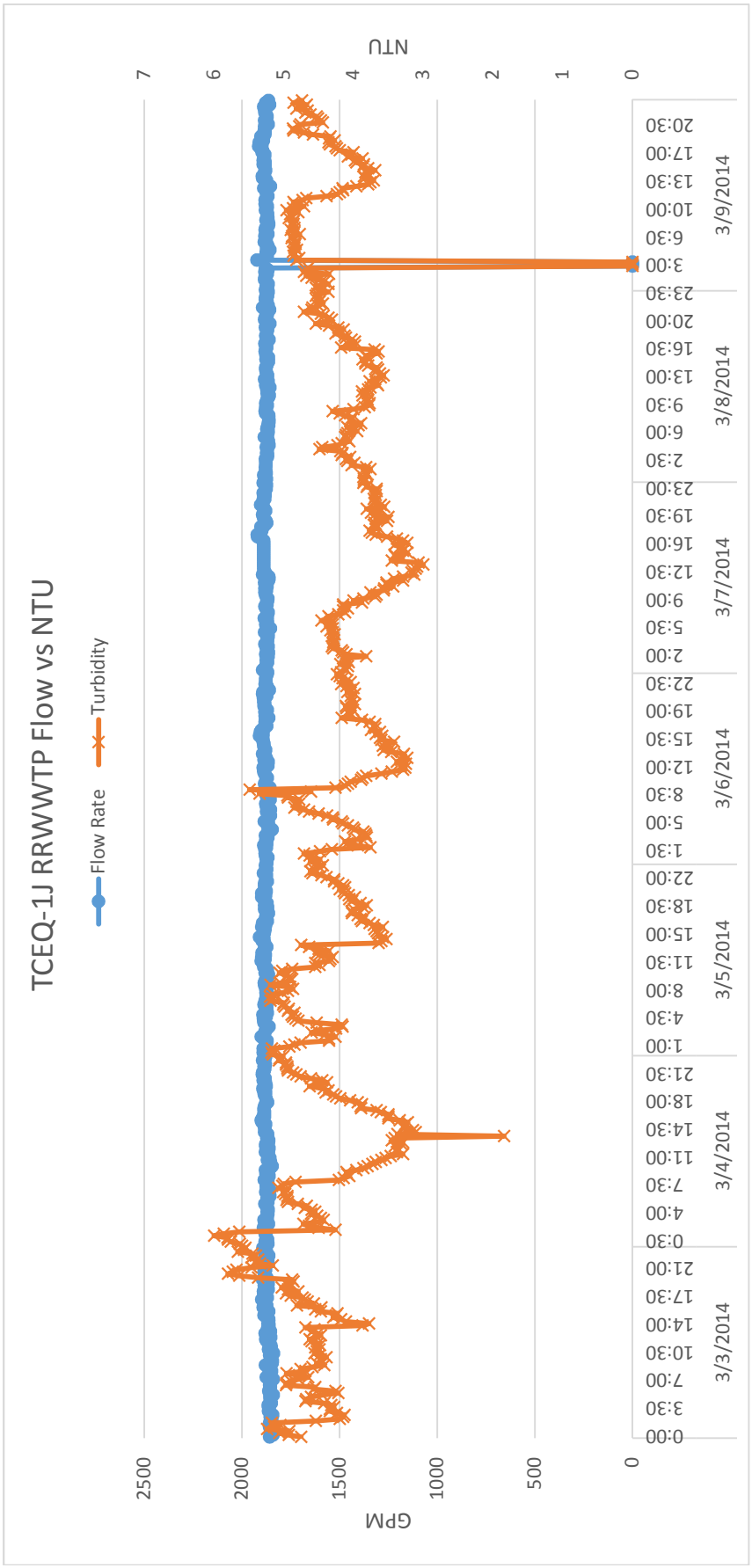

TCEQ-1J RRWWTP Flow vs NTU
Flow Rate
Turbidity
GPM
NTU
2500
2000
1500
1000
500
0
7
6
5
4
3
2
1
0
0:00
3:30
7:00
10:30
14:00
17:30
21:00
0:30
4:00
7:30
11:00
14:30
18:00
21:30
1:00
4:30
8:00
11:30
15:00
18:30
22:00
1:30
5:00
8:30
12:00
15:30
19:00
22:30
2:00
5:30
9:00
12:30
16:00
19:30
23:00
2:30
6:00
9:30
13:00
16:30
20:00
23:30
3:00
6:30
10:00
13:30
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2/1/2014
2/2/2014

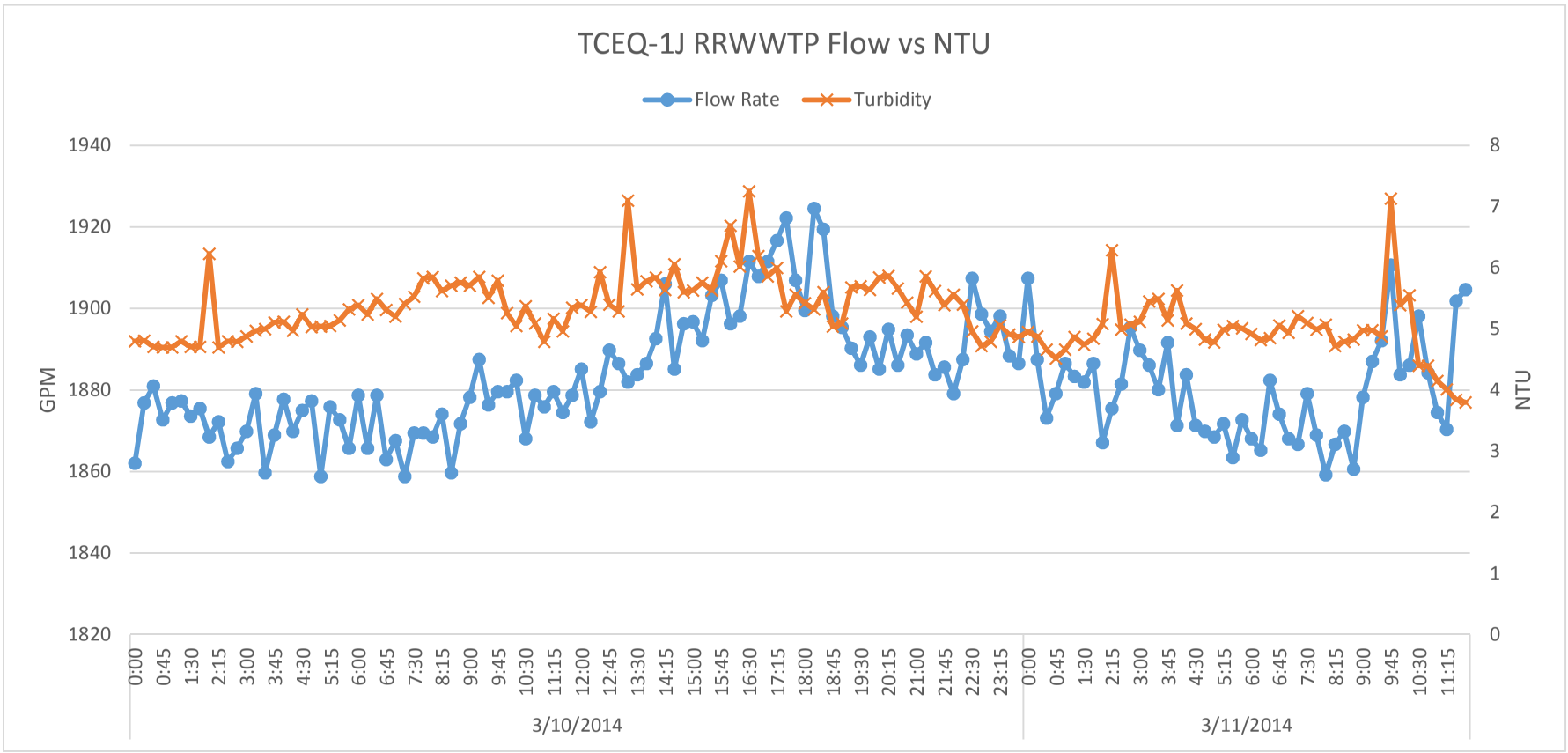

TCEQ-1J RRWWTP Flow vs NTU
Flow Rate
Turbidity
GPM
NTU
2500
2000
1500
1000
500
0
7
6
5
4
3
2
1
0
0:00
3:30
7:00
10:30
14:00
17:30
21:00
0:30
4:00
7:30
11:00
14:30
18:00
21:30
1:00
4:30
8:00
11:30
15:00
18:30
22:00
1:30
5:00
8:30
12:00
15:30
19:00
22:30
2:00
5:30
9:00
12:30
16:00
19:30
23:00
2:30
6:00
9:30
13:00
16:30
20:00
23:30
3:00
6:30
10:00
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2/8/2014
2/9/2014

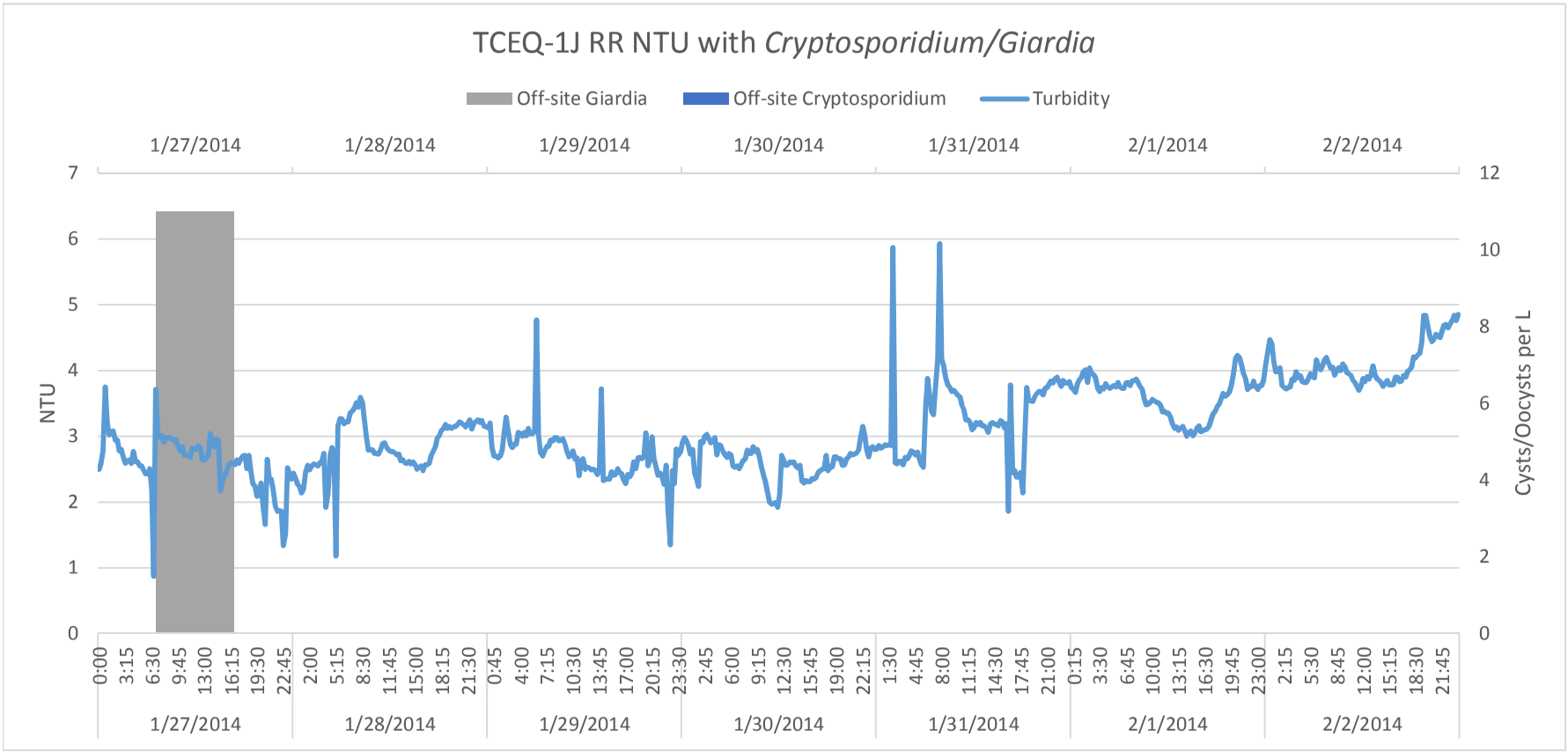

TCEQ-1J RRWWTP Flow vs NTU
Flow Rate
Turbidity
GPM
NTU
1940
1920
1900
1880
1860
1840
1820
1800
7
6
5
4
3
2
1
0
0:00
3:30
7:00
10:30
14:00
17:30
21:00
0:30
4:00
7:30
11:00
14:30
18:00
21:30
1:00
4:30
8:00
11:30
15:00
18:30
22:00
1:30
5:00
8:30
12:00
15:30
19:00
22:30
2:00
5:30
9:00
12:30
16:00
19:30
23:00
2:30
6:00
9:30
13:00
16:30
20:00
23:30
3:00
6:30
10:00
13:30
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2/15/2014
2/16/2014

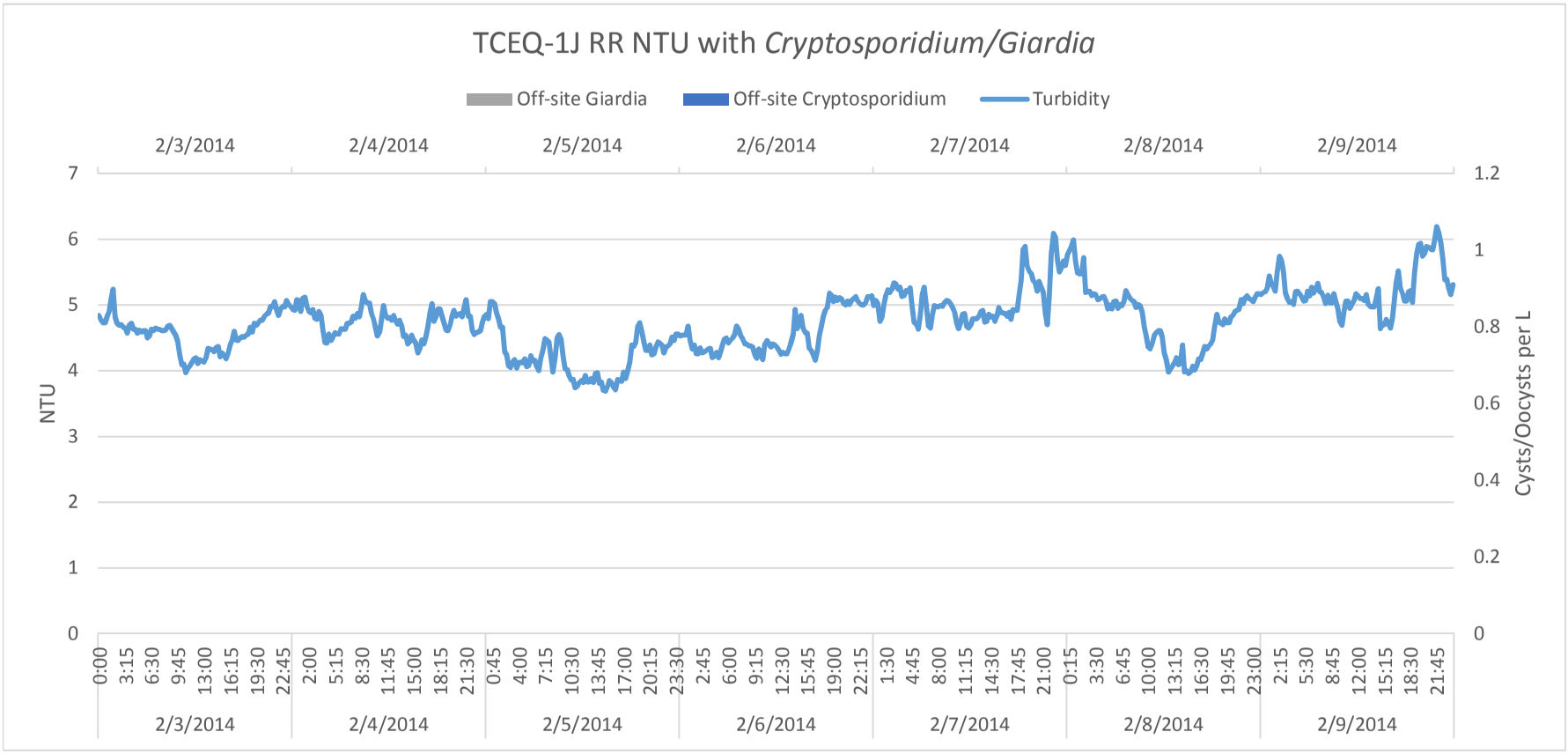

TCEQ-1J RRWWTP Flow vs NTU
Flow Rate
Turbidity
GPM
NTU
1940
1920
1900
1880
1860
1840
1820
1800
12
10
8
6
4
2
0
0:00
3:30
7:00
10:30
14:00
17:30
21:00
0:30
4:00
7:30
11:00
14:30
18:00
21:30
1:00
4:30
8:00
11:30
15:00
18:30
22:00
1:30
5:00
8:30
12:00
15:30
19:00
22:30
2:00
5:30
9:00
12:30
16:00
19:30
23:00
2:30
6:00
9:30
13:00
16:30
20:00
23:30
3:00
6:30
10:00
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2/22/2014
2/23/2014

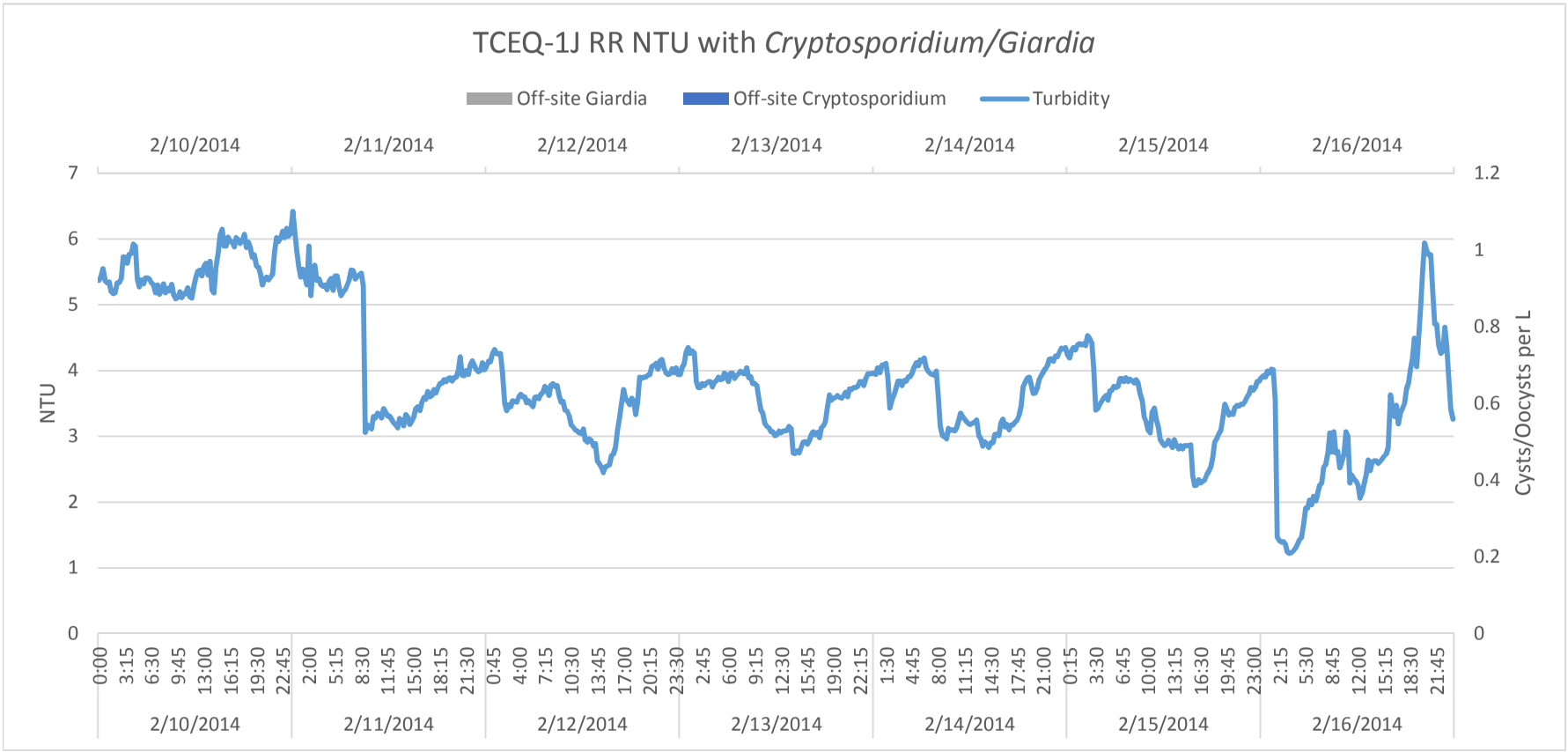

TCEQ-1J RRWWTP Flow vs NTU
Flow Rate
Turbidity
GPM
NTU
2500
2000
1500
1000
500
0
7
6
5
4
3
2
1
0
0:00
3:30
7:00
10:30
14:00
17:30
21:00
0:30
4:00
7:30
11:00
14:30
18:00
21:30
1:00
4:30
8:00
11:30
15:00
18:30
22:00
1:30
5:00
8:30
12:00
15:30
19:00
22:30
2:00
5:30
9:00
12:30
16:00
19:30
23:00
2:30
6:00
9:30
13:00
16:30
20:00
23:30
3:00
6:30
10:00
13:30
17:00
20:30
2/24/2014
2/25/2014
2/26/2014
2/27/2014
2/28/2014
3/1/2014
3/2/2014

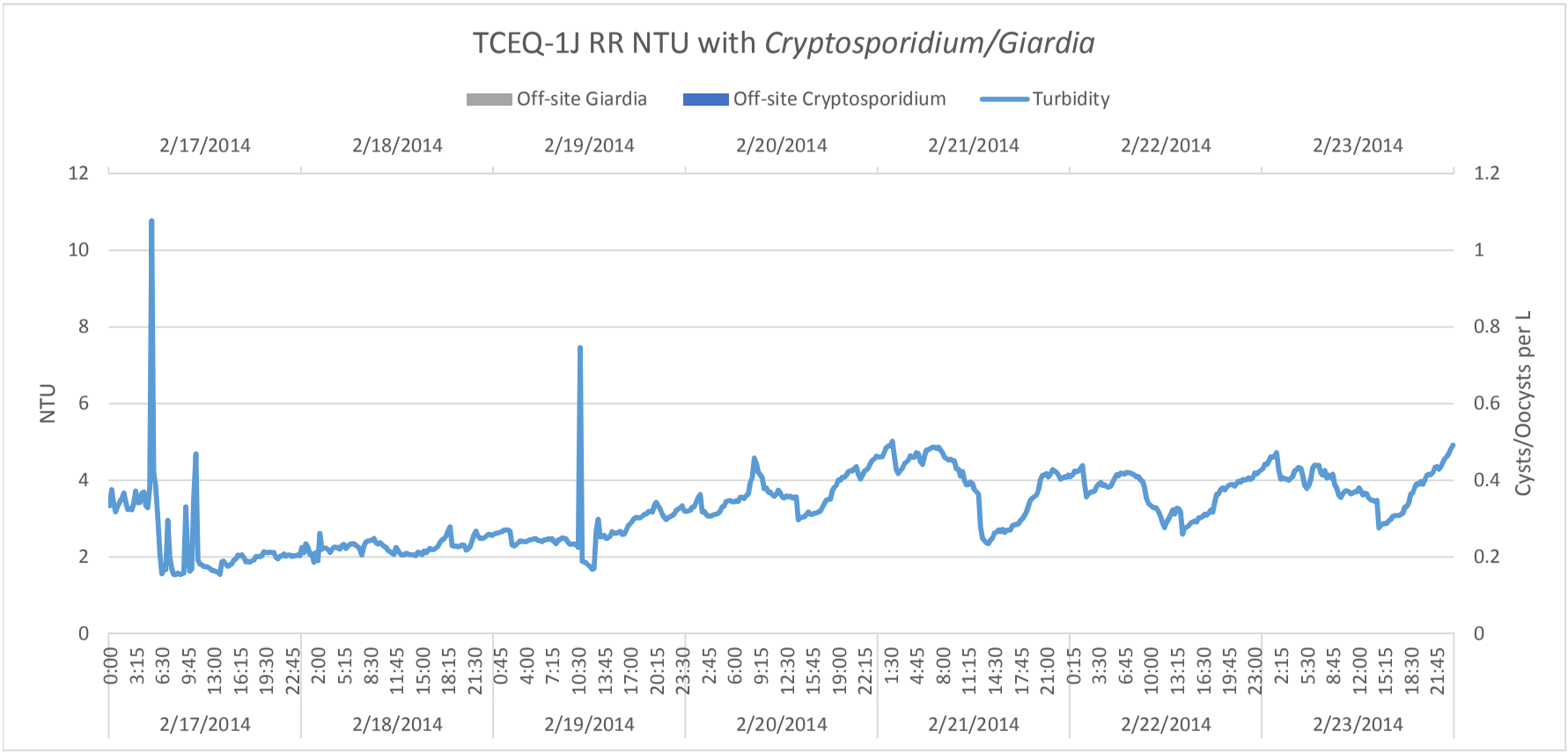

TCEQ-1J RRWWTP Flow vs NTU
Flow Rate
Turbidity
GPM
NTU
2500
2000
1500
1000
500
0
7
6
5
4
3
2
1
0
0:00
3:30
7:00
10:30
14:00
17:30
21:00
3/3/2014
0:30
4:00
7:30
11:00
14:30
18:00
21:30
3/4/2014
1:00
4:30
8:00
11:30
15:00
18:30
22:00
3/5/2014
1:30
5:00
8:30
12:00
15:30
19:00
22:30
3/6/2014
2:00
5:30
9:00
12:30
16:00
19:30
23:00
3/7/2014
2:30
6:00
9:30
13:00
16:30
20:00
23:30
3/8/2014
3:00
6:30
10:00
13:30
17:00
20:30
3/9/2014

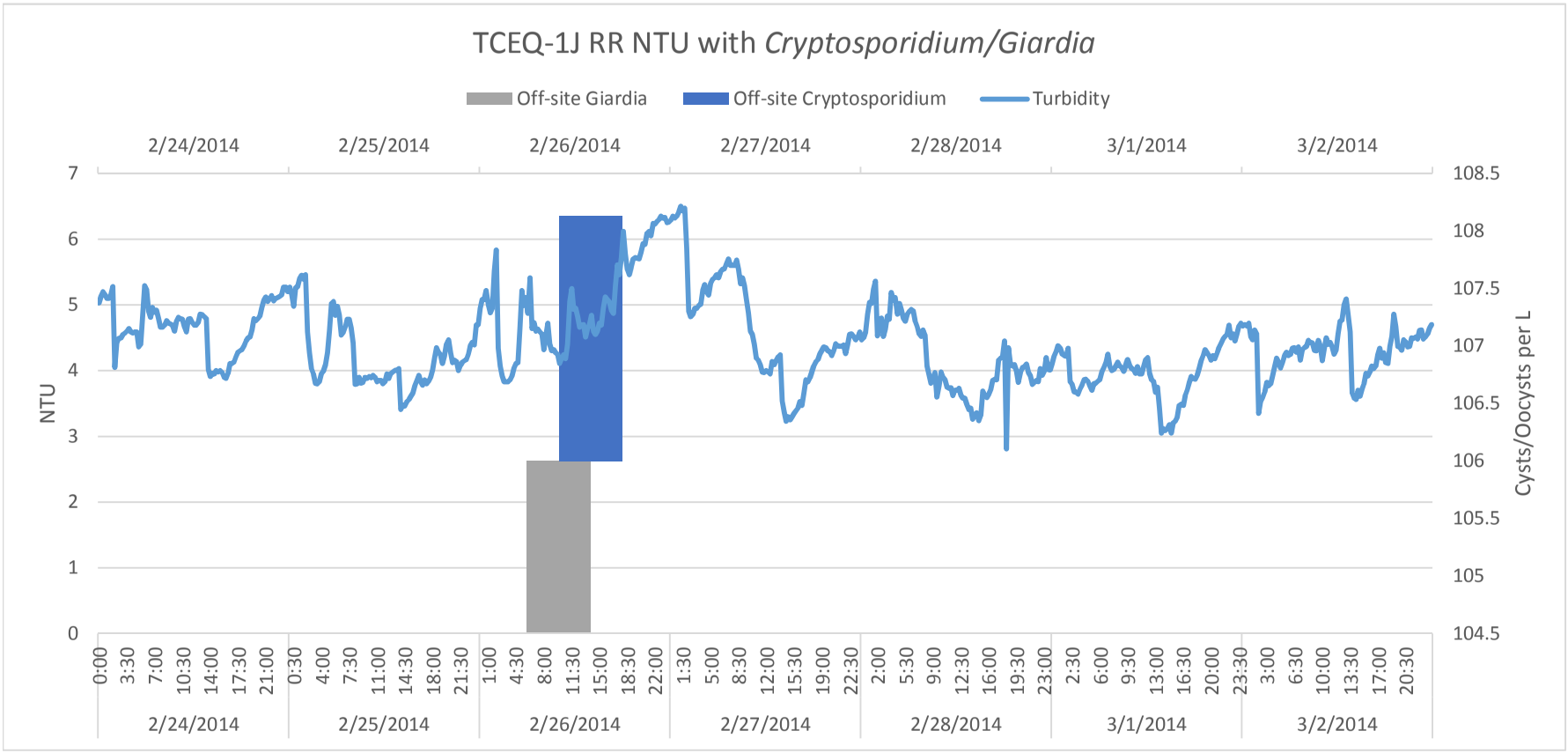

TCEQ-1J RRWWTP Flow vs NTU
Flow Rate
Turbidity
GPM
NTU
1940
1920
1900
1880
1860
1840
1820
8
7
6
5
4
3
2
1
0
0:00
0:45
1:30
2:15
3:00
3:45
4:30
5:15
6:00
6:45
7:30
8:15
9:00
9:45
10:30
11:15
12:00
12:45
13:30
14:15
15:00
15:45
16:30
17:15
18:00
18:45
19:30
20:15
21:00
21:45
22:30
23:15
3/10/2014
3/11/2014

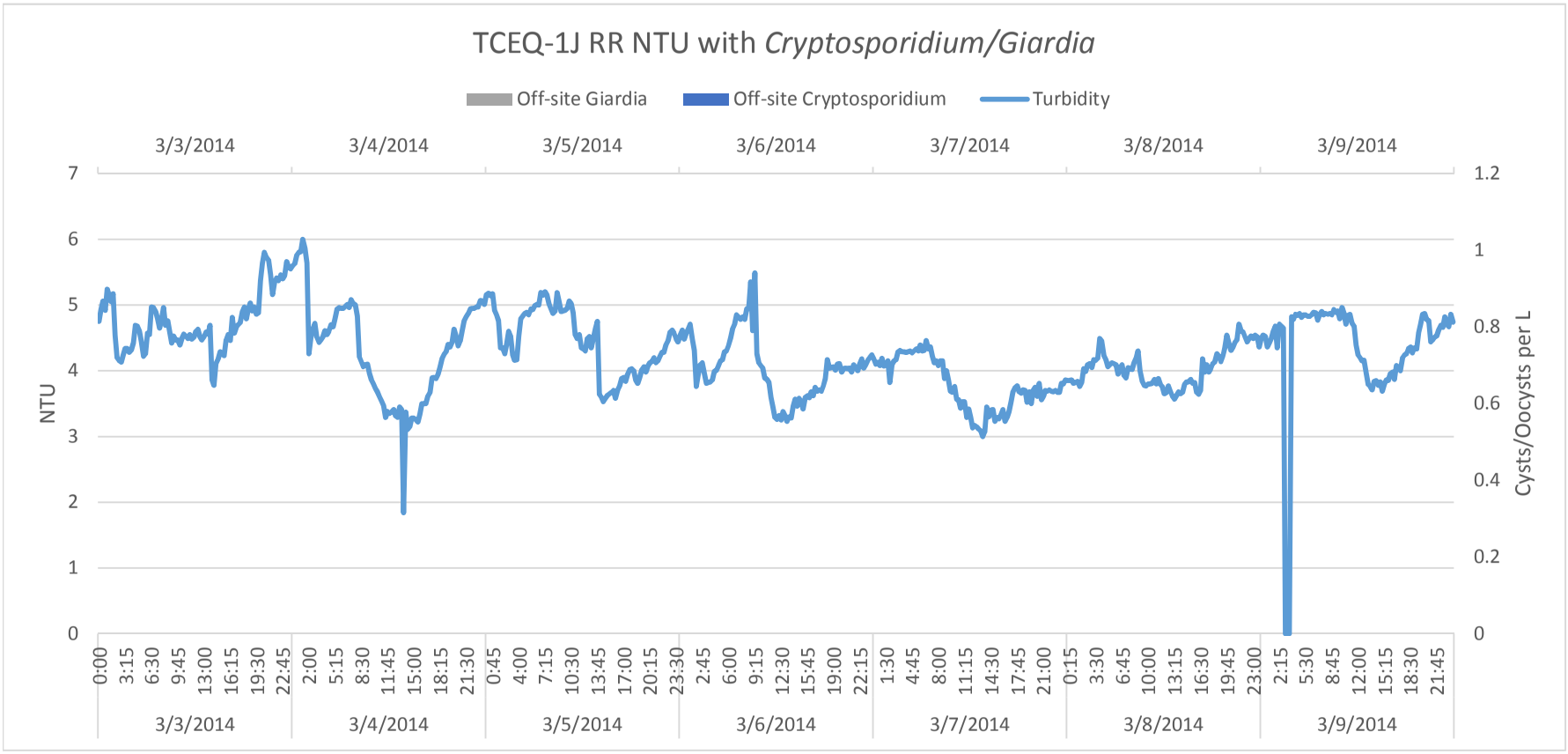

TCEQ-1J RR NTU with *Cryptosporidium/Giardia*
Off-site Giardia
Off-site Cryptosporidium
Turbidity
1/27/2014
1/28/2014
1/29/2014
1/30/2014
1/31/2014
2/1/2014
2/2/2014
NTU
Cysts/Oocysts per L
0
1
2
3
4
5
6
7
0
2
4
6
8
10
12
0:00
3:15
6:30
9:45
13:00
16:15
19:30
22:45
2:00
5:15
8:30
11:45
15:00
18:15
21:30
0:45
4:00
7:15
10:30
13:45
17:00
20:15
23:30
2:45
6:00
9:15
12:30
15:45
19:00
22:15
1:30
4:45
8:00
11:15
14:30
17:45
21:00
0:15
3:30
6:45
10:00
13:15
16:30
19:45
23:00
2:15
5:30
8:45
12:00
15:15
18:30
21:45

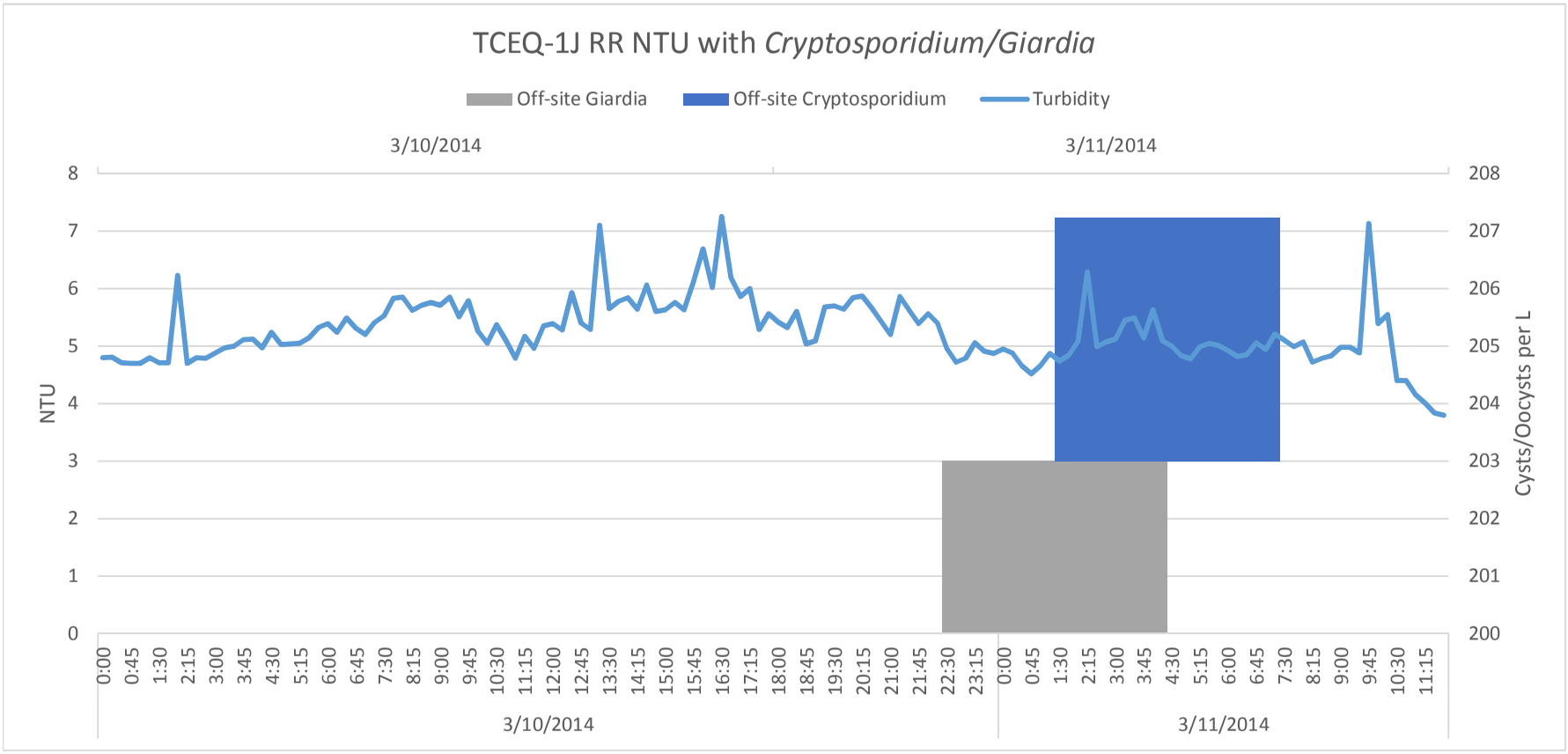

TCEQ-1J RR NTU with *Cryptosporidium/Giardia*
Off-site Giardia
Off-site Cryptosporidium
Turbidity
2/3/2014
2/4/2014
2/5/2014
2/6/2014
2/7/2014
2/8/2014
2/9/2014
NTU
Cysts/Oocysts per L
0
1
2
3
4
5
6
7
0
0.2
0.4
0.6
0.8
1
1.2

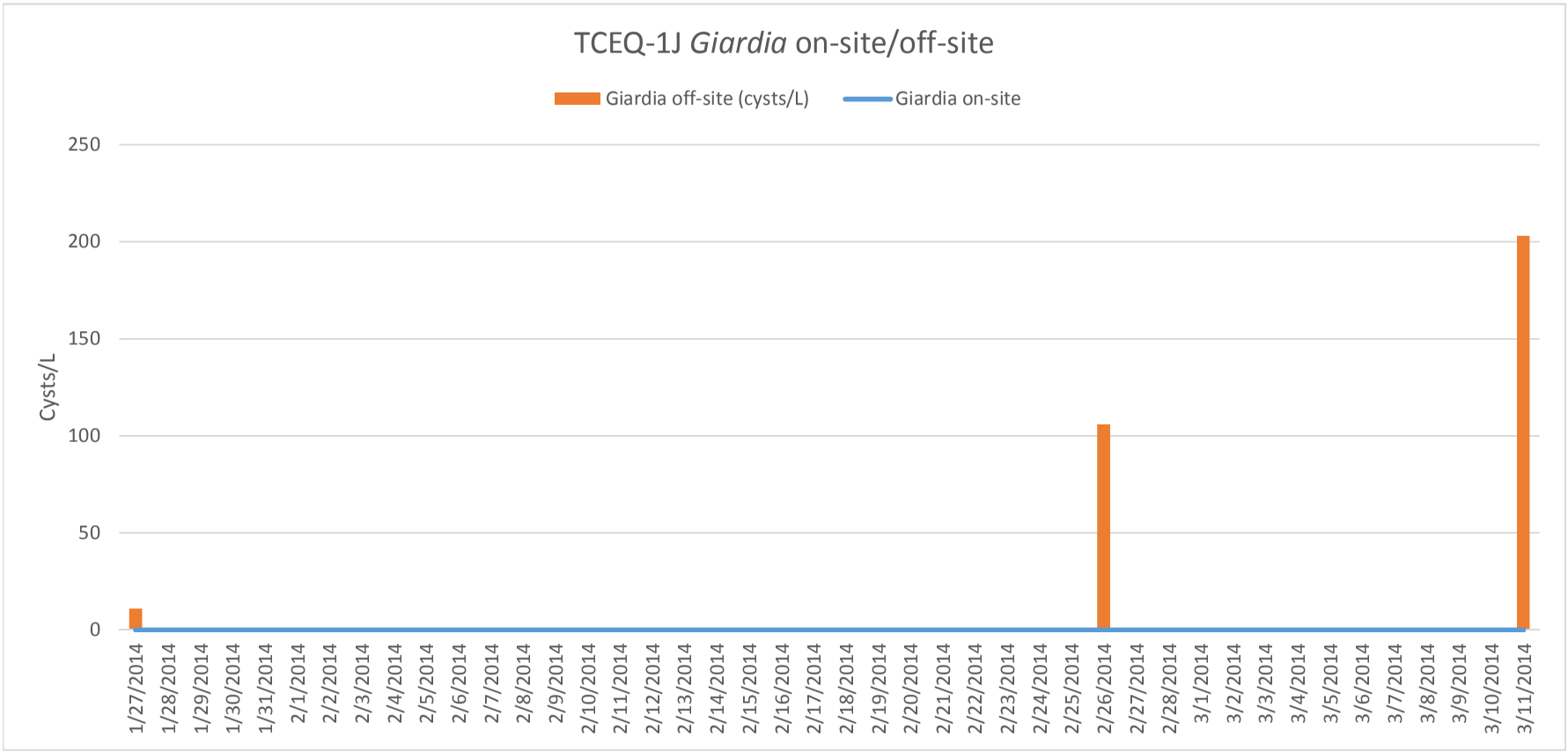

TCEQ-1J RR NTU with *Cryptosporidium/Giardia*
Off-site Giardia
Off-site Cryptosporidium
Turbidity
2/10/2014
2/11/2014
2/12/2014
2/13/2014
2/14/2014
2/15/2014
2/16/2014
NTU
Cysts/Oocysts per L
0
1
2
3
4
5
6
7
0.2
0.4
0.6
0.8
1
1.2
0:00
3:15
6:30
9:45
13:00
16:15
19:30
22:45
2:00
5:15
8:30
11:45
15:00
18:15
21:30
0:45
4:00
7:15
10:30
13:45
17:00
20:15
23:30
2:45
6:00
9:15
12:30
15:45
19:00
22:15
1:30
4:45
8:00
11:15
14:30
17:45
21:00
0:15
3:30
6:45
10:00
13:15
16:30
19:45
23:00
2:15
5:30
8:45
12:00
15:15
18:30
21:45

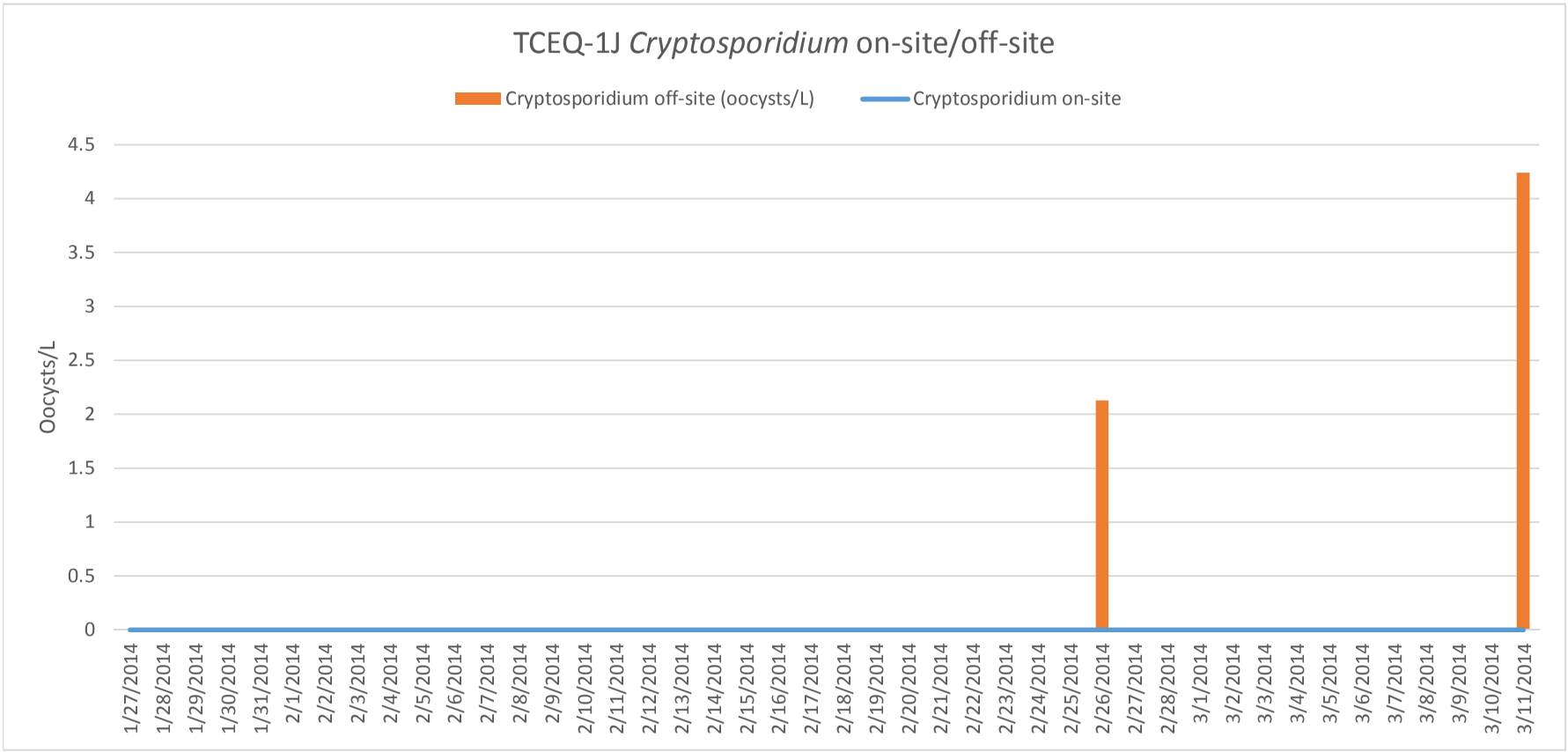

TCEQ-1J RR NTU with *Cryptosporidium/Giardia*
Off-site Giardia
Off-site Cryptosporidium
Turbidity
2/17/2014
2/18/2014
2/19/2014
2/20/2014
2/21/2014
2/22/2014
2/23/2014
NTU
Cysts/Oocysts per L
12
10
8
6
4
2
0
1.2
1
0.8
0.6
0.4
0.2
0


TCEQ-1J RR NTU with *Cryptosporidium/Giardia*
Off-site Giardia
Off-site Cryptosporidium
Turbidity
2/24/2014
2/25/2014
2/26/2014
2/27/2014
2/28/2014
3/1/2014
3/2/2014
NTU
Cysts/Oocysts per L
0
1
2
3
4
5
6
7
104.5
105
105.5
106
106.5
107
107.5
108
108.5
0:00
3:30
7:00
10:30
14:00
17:30
21:00
0:30
4:00
7:30
11:00
14:30
18:00
21:30
1:00
4:30
8:00
11:30
15:00
18:30
22:00
1:30
5:00
8:30
12:00
15:30
19:00
22:30
2:00
5:30
9:00
12:30
16:00
19:30
23:00
2:30
6:00
9:30
13:00
16:30
20:00
23:30
3:00
6:30
10:00
13:30
17:00
20:30


TCEQ-1J RR NTU with *Cryptosporidium/Giardia*
Off-site Giardia
Off-site Cryptosporidium
Turbidity
3/3/2014
3/4/2014
3/5/2014
3/6/2014
3/7/2014
3/8/2014
3/9/2014
NTU
Cysts/Oocysts per L
0
1
2
3
4
5
6
7
0
0.2
0.4
0.6
0.8
1
1.2


TCEQ-1J RR NTU with *Cryptosporidium/Giardia*
Off-site Giardia
Off-site Cryptosporidium
Turbidity
3/10/2014
3/11/2014
NTU
Cysts/Oocysts per L
0
1
2
3
4
5
6
7
8
200
201
202
203
204
205
206
207
208
0:00
0:45
1:30
2:15
3:00
3:45
4:30
5:15
6:00
6:45
7:30
8:15
9:00
9:45
10:30
11:15
12:00
12:45
13:30
14:15
15:00
15:45
16:30
17:15
18:00
18:45
19:30
20:15
21:00
21:45
22:30
23:15
3/10/2014
3/11/2014


TCEQ-1J *Giardia* on-site/off-site
Giardia off-site (cysts/L)
Giardia on-site
Cysts/L
250
200
150
100
50
0
1/27/2014
1/28/2014
1/29/2014
1/30/2014
1/31/2014
2/1/2014
2/2/2014
2/3/2014
2/4/2014
2/5/2014
2/6/2014
2/7/2014
2/8/2014
2/9/2014
2/10/2014
2/11/2014
2/12/2014
2/13/2014
2/14/2014
2/15/2014
2/16/2014
2/17/2014
2/18/2014
2/19/2014
2/20/2014
2/21/2014
2/22/2014
2/23/2014
2/24/2014
2/25/2014
2/26/2014
2/27/2014
2/28/2014
3/1/2014
3/2/2014
3/3/2014
3/4/2014
3/5/2014
3/6/2014
3/7/2014
3/8/2014
3/9/2014
3/10/2014
3/11/2014


TCEQ-1J *Cryptosporidium* on-site/off-site
Cryptosporidium off-site (oocysts/L)
Cryptosporidium on-site
Oocysts/L
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/27/2014
1/28/2014
1/29/2014
1/30/2014
1/31/2014
2/1/2014
2/2/2014
2/3/2014
2/4/2014
2/5/2014
2/6/2014
2/7/2014
2/8/2014
2/9/2014
2/10/2014
2/11/2014
2/12/2014
2/13/2014
2/14/2014
2/15/2014
2/16/2014
2/17/2014
2/18/2014
2/19/2014
2/20/2014
2/21/2014
2/22/2014
2/23/2014
2/24/2014
2/25/2014
2/26/2014
2/27/2014
2/28/2014
3/1/2014
3/2/2014
3/3/2014
3/4/2014
3/5/2014
3/6/2014
3/7/2014
3/8/2014
3/9/2014
3/10/2014
3/11/2014

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
1/27/2014	0:00	2.77	1924	2.5	16.2
	0:15	2.74	1903	2.59	16.2
	0:30	2.83	1965	2.77	16.2
	0:45	2.83	1965	3.75	16.1
	1:00	2.81	1951	3.22	16.1
	1:15	2.79	1938	3.02	16
	1:30	2.8	1944	3.07	15.9
	1:45	2.78	1931	3.08	15.9
	2:00	2.82	1958	2.94	15.9
	2:15	2.79	1938	2.94	15.8
	2:30	2.77	1924	2.78	15.8
	2:45	2.74	1903	2.8	15.8
	3:00	2.82	1958	2.69	15.8
	3:15	2.81	1951	2.59	15.8
	3:30	2.79	1938	2.63	15.7
	3:45	2.81	1951	2.64	15.7
	4:00	2.69	1868	2.59	15.7
	4:15	2.75	1910	2.77	15.6
	4:30	2.74	1903	2.62	15.6
	4:45	2.76	1917	2.61	15.5
	5:00	2.79	1938	2.55	15.5
	5:15	2.78	1931	2.55	15.5
	5:30	2.78	1931	2.49	15.5
	5:45	2.72	1889	2.43	15.4
	6:00	2.7	1875	2.43	15.4
	6:15	2.74	1903	2.51	15.3
	6:30	2.78	1931	2.19	15.3
	6:45	2.73	1896	0.87	15.2
	7:00	2.71	1882	3.71	15.2
	7:15	2.77	1924	3.01	15.2
	7:30	2.73	1896	2.98	15.2
	7:45	2.78	1931	3.01	15.1
	8:00	2.71	1882	2.91	15.1
	8:15	2.85	1979	2.97	15.1
	8:30	2.8	1944	2.98	15.1
	8:45	2.77	1924	2.97	15
	9:00	2.72	1889	2.96	15
	9:15	2.75	1910	2.93	14.9

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	9:30	2.75	1910	2.95	15
	9:45	2.83	1965	2.86	15
	10:00	2.79	1938	2.78	15
	10:15	2.76	1917	2.84	15
	10:30	2.84	1972	2.72	15
	10:45	2.85	1979	2.72	15
	11:00	2.84	1972	2.71	15
	11:15	2.78	1931	2.68	15
	11:30	2.77	1924	2.82	15
	11:45	2.68	1861	2.8	15
	12:00	2.75	1910	2.81	15
	12:15	2.78	1931	2.86	15
	12:30	2.77	1924	2.82	14.9
	12:45	2.77	1924	2.64	14.9
	13:00	2.72	1889	2.64	14.9
	13:15	2.73	1896	2.67	14.9
	13:30	2.78	1931	2.72	14.9
	13:45	2.77	1924	3.04	14.9
	14:00	2.81	1951	2.87	14.9
	14:15	2.8	1944	2.84	14.9
	14:30	2.75	1910	2.96	14.9
	14:45	2.78	1931	2.94	14.9
	15:00	2.75	1910	2.17	14.8
	15:15	2.8	1944	2.34	14.8
	15:30	2.74	1903	2.4	14.8
	15:45	2.8	1944	2.47	14.8
	16:00	2.75	1910	2.57	14.8
	16:15	2.77	1924	2.6	14.8
	16:30	2.77	1924	2.59	14.8
	16:45	2.79	1938	2.57	14.8
	17:00	2.77	1924	2.64	14.7
	17:15	2.7	1875	2.59	14.7
	17:30	2.84	1972	2.66	14.7
	17:45	2.72	1889	2.7	14.7
	18:00	2.71	1882	2.71	14.7
	18:15	2.74	1903	2.51	14.7
	18:30	2.78	1931	2.71	14.6
	18:45	2.7	1875	2.47	14.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	19:00	2.77	1924	2.28	14.6
	19:15	2.73	1896	2.24	14.5
	19:30	2.8	1944	2.09	14.5
	19:45	2.72	1889	2.1	14.5
	20:00	2.78	1931	2.29	14.5
	20:15	2.79	1938	1.95	14.4
	20:30	2.84	1972	1.66	14.4
	20:45	2.7	1875	2.65	14.4
	21:00	2.83	1965	2.37	14.4
	21:15	2.72	1889	2.35	14.4
	21:30	2.72	1889	2.19	14.4
	21:45	2.73	1896	1.94	14.4
	22:00	2.74	1903	1.86	14.4
	22:15	2.73	1896	1.87	14.3
	22:30	2.8	1944	1.86	14.3
	22:45	2.74	1903	1.34	14.3
	23:00	2.74	1903	1.52	14.3
	23:15	2.67	1854	2.52	14.3
	23:30	2.74	1903	2.42	14.3
	23:45	2.68	1861	2.35	14.3
1/28/2014	0:00	2.75	1910	2.44	14.3
	0:15	2.76	1917	2.37	14.3
	0:30	2.66	1847	2.27	14.2
	0:45	2.7	1875	2.24	14.2
	1:00	2.7	1875	2.14	14.2
	1:15	2.74	1903	2.2	14.2
	1:30	2.7	1875	2.45	14.2
	1:45	2.71	1882	2.56	14.2
	2:00	2.74	1903	2.49	14.2
	2:15	2.73	1896	2.55	14.2
	2:30	2.71	1882	2.58	14.2
	2:45	2.71	1882	2.57	14.2
	3:00	2.74	1903	2.55	14.1
	3:15	2.72	1889	2.6	14.1
	3:30	2.81	1951	2.62	14.1
	3:45	2.76	1917	2.74	14.1
	4:00	2.69	1868	1.92	14.1
	4:15	2.75	1910	2.13	14

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	4:30	2.79	1938	2.7	14.1
	4:45	2.75	1910	2.83	14.1
	5:00	2.81	1951	2.72	14.1
	5:15	2.73	1896	1.18	14
	5:30	2.72	1889	3.15	14
	5:45	2.73	1896	3.27	14
	6:00	2.76	1917	3.26	14.1
	6:15	2.7	1875	3.19	14.1
	6:30	2.69	1868	3.22	14.1
	6:45	2.69	1868	3.22	14.1
	7:00	2.74	1903	3.36	14.1
	7:15	2.67	1854	3.38	14.1
	7:30	2.72	1889	3.43	14.1
	7:45	2.75	1910	3.51	14.1
	8:00	2.72	1889	3.44	14.1
	8:15	2.69	1868	3.59	14.1
	8:30	2.75	1910	3.52	14
	8:45	2.73	1896	3.25	14
	9:00	2.78	1931	2.99	13.9
	9:15	2.79	1938	2.79	13.9
	9:30	2.83	1965	2.8	13.9
	9:45	2.77	1924	2.79	14
	10:00	2.8	1944	2.74	14
	10:15	2.82	1958	2.74	14
	10:30	2.77	1924	2.73	14.1
	10:45	2.7	1875	2.79	14.1
	11:00	2.82	1958	2.89	14.1
	11:15	2.74	1903	2.9	14.2
	11:30	2.77	1924	2.83	14.2
	11:45	2.8	1944	2.79	14.2
	12:00	2.71	1882	2.77	14.2
	12:15	2.79	1938	2.77	14.2
	12:30	2.82	1958	2.75	14.3
	12:45	2.71	1882	2.72	14.3
	13:00	2.73	1896	2.73	14.3
	13:15	2.84	1972	2.63	14.4
	13:30	2.79	1938	2.64	14.4
	13:45	2.76	1917	2.6	14.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	14:00	2.75	1910	2.59	14.4
	14:15	2.82	1958	2.62	14.4
	14:30	2.77	1924	2.58	14.4
	14:45	2.73	1896	2.61	14.4
	15:00	2.78	1931	2.57	14.4
	15:15	2.76	1917	2.5	14.4
	15:30	2.79	1938	2.53	14.4
	15:45	2.33	1618	2.55	14.4
	16:00	2.94	2042	2.48	14.4
	16:15	3.02	2097	2.57	14.4
	16:30	3.03	2104	2.57	14.4
	16:45	3.02	2097	2.59	14.4
	17:00	3.05	2118	2.71	14.4
	17:15	3.03	2104	2.77	14.4
	17:30	2.98	2069	2.84	14.4
	17:45	3.03	2104	2.98	14.4
	18:00	2.65	1840	3.01	14.4
	18:15	2.78	1931	3.09	14.4
	18:30	2.77	1924	3.11	14.4
	18:45	2.72	1889	3.18	14.4
	19:00	2.81	1951	3.12	14.4
	19:15	2.74	1903	3.15	14.4
	19:30	2.82	1958	3.12	14.4
	19:45	2.8	1944	3.14	14.5
	20:00	2.72	1889	3.15	14.5
	20:15	2.84	1972	3.18	14.5
	20:30	2.81	1951	3.22	14.5
	20:45	2.79	1938	3.2	14.5
	21:00	2.76	1917	3.17	14.5
	21:15	2.74	1903	3.14	14.4
	21:30	2.74	1903	3.2	14.4
	21:45	2.82	1958	3.25	14.4
	22:00	2.69	1868	3.11	14.4
	22:15	2.8	1944	3.2	14.4
	22:30	2.73	1896	3.22	14.4
	22:45	2.79	1938	3.25	14.4
	23:00	2.51	1743	3.21	14.4
	23:15	2.85	1979	3.24	14.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	23:30	2.74	1903	3.16	14.4
	23:45	2.74	1903	3.14	14.4
1/29/2014	0:00	2.78	1931	3.13	14.4
	0:15	2.78	1931	3.2	14.4
	0:30	2.78	1931	2.83	14.3
	0:45	2.79	1939	2.7	14.4
	1:00	2.79	1939	2.7	14.4
	1:15	2.8	1946	2.67	14.3
	1:30	2.78	1933	2.7	14.3
	1:45	2.79	1936	2.79	14.3
	2:00	2.76	1916	3.05	14.4
	2:15	2.78	1931	3.29	14.4
	2:30	2.79	1936	3.09	14.3
	2:45	2.76	1920	2.88	14.3
	3:00	2.75	1910	2.83	14.3
	3:15	2.8	1944	2.88	14.3
	3:30	2.79	1939	2.88	14.3
	3:45	2.79	1940	3.06	14.3
	4:00	2.79	1934	3.04	14.3
	4:15	2.79	1936	3	14.2
	4:30	2.77	1920	3.06	14.2
	4:45	2.81	1948	3.01	14.2
	5:00	2.78	1929	3.12	14.2
	5:15	2.78	1929	3.04	14.2
	5:30	2.78	1934	3.04	14.2
	5:45	2.78	1932	3.07	14.2
	6:00	2.77	1923	4.77	14.1
	6:15	2.78	1932	3.02	14.2
	6:30	2.76	1914	2.75	14.1
	6:45	2.75	1910	2.7	14.1
	7:00	2.76	1917	2.78	14.1
	7:15	2.78	1930	2.84	14.1
	7:30	2.76	1919	2.85	14.1
	7:45	2.79	1939	2.94	14.1
	8:00	2.78	1931	2.93	14.1
	8:15	2.78	1931	2.98	14.1
	8:30	2.77	1922	2.98	14.1
	8:45	2.77	1924	2.93	14.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	9:00	3	2084	2.94	14.2
	9:15	3	2084	2.96	14.2
	9:30	3	2080	2.88	14.2
	9:45	3	2081	2.77	14.2
	10:00	3	2086	2.69	14.2
	10:15	2.99	2074	2.71	14.6
	10:30	3.09	2143	2.78	14.7
	10:45	3.21	2231	2.65	14.7
	11:00	3.21	2232	2.67	14.7
	11:15	3.11	2157	2.4	14.7
	11:30	2.8	1943	2.61	14.7
	11:45	2.72	1886	2.66	14.8
	12:00	2.73	1897	2.5	14.8
	12:15	2.73	1898	2.53	14.8
	12:30	2.73	1894	2.52	14.9
	12:45	2.71	1883	2.49	14.9
	13:00	2.73	1894	2.5	14.9
	13:15	2.72	1891	2.48	14.9
	13:30	2.92	2025	2.42	15
	13:45	2.9	2016	2.48	15
	14:00	2.93	2032	3.72	15
	14:15	2.91	2023	2.33	15
	14:30	2.92	2025	2.35	15.1
	14:45	2.91	2023	2.35	15.1
	15:00	2.9	2012	2.35	15.1
	15:15	2.92	2025	2.46	15.1
	15:30	2.9	2011	2.41	15.1
	15:45	2.91	2024	2.42	15.1
	16:00	2.9	2013	2.51	15.1
	16:15	2.89	2008	2.45	15.1
	16:30	2.9	2015	2.43	15.1
	16:45	2.89	2007	2.34	15.1
	17:00	2.9	2015	2.28	15.1
	17:15	2.89	2008	2.42	15.1
	17:30	2.88	2003	2.39	15.1
	17:45	2.89	2009	2.44	15.1
	18:00	2.89	2007	2.61	15.1
	18:15	2.9	2014	2.51	15.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	18:30	2.88	1999	2.67	15.1
	18:45	2.91	2018	2.68	15.1
	19:00	2.91	2019	2.66	15.1
	19:15	2.9	2014	2.69	15.1
	19:30	2.91	2020	3.05	15.1
	19:45	2.89	2009	2.55	15.1
	20:00	2.91	2018	2.66	15.1
	20:15	2.9	2015	2.99	15.1
	20:30	2.91	2021	2.65	15.1
	20:45	2.88	2001	2.54	15.1
	21:00	2.9	2017	2.41	15.1
	21:15	2.89	2005	2.44	15.1
	21:30	2.89	2004	2.37	15
	21:45	2.92	2025	2.27	15
	22:00	2.89	2004	2.56	15
	22:15	2.88	2001	1.84	15
	22:30	2.91	2024	1.35	15
	22:45	2.88	2002	2.48	15
	23:00	2.9	2011	2.28	15
	23:15	2.89	2006	2.81	15
	23:30	2.89	2009	2.71	15
	23:45	2.9	2017	2.76	15
1/30/2014	0:00	2.91	2018	2.91	15
	0:15	2.91	2021	2.98	15
	0:30	2.89	2004	2.93	15
	0:45	2.91	2018	2.86	15
	1:00	2.91	2019	2.73	15
	1:15	2.89	2009	2.8	15
	1:30	2.89	2009	2.45	14.9
	1:45	2.89	2009	2.36	14.9
	2:00	2.9	2014	2.24	14.9
	2:15	2.92	2025	2.92	14.9
	2:30	2.91	2023	2.9	14.9
	2:45	2.91	2022	3	14.9
	3:00	2.91	2019	3.03	14.9
	3:15	2.88	2003	2.97	14.9
	3:30	2.9	2013	2.9	14.9
	3:45	2.89	2009	2.93	14.9

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	4:00	2.91	2023	2.98	14.9
	4:15	2.92	2026	2.72	14.9
	4:30	2.89	2010	2.87	14.8
	4:45	2.87	1995	2.86	14.8
	5:00	2.9	2014	2.77	14.8
	5:15	2.89	2006	2.72	14.8
	5:30	2.9	2013	2.68	14.8
	5:45	2.89	2009	2.74	14.8
	6:00	2.88	2003	2.72	14.7
	6:15	2.9	2012	2.55	14.7
	6:30	2.89	2006	2.53	14.8
	6:45	2.89	2008	2.55	14.8
	7:00	2.9	2016	2.51	14.8
	7:15	2.91	2021	2.57	14.7
	7:30	2.91	2022	2.63	14.7
	7:45	2.9	2014	2.66	14.7
	8:00	2.91	2019	2.79	14.7
	8:15	2.9	2017	2.74	14.7
	8:30	2.9	2016	2.74	14.7
	8:45	2.91	2018	2.84	14.7
	9:00	2.9	2011	2.77	14.7
	9:15	2.92	2029	2.8	14.7
	9:30	2.9	2017	2.69	14.7
	9:45	2.9	2014	2.54	14.7
	10:00	2.9	2016	2.42	14.7
	10:15	2.89	2005	2.3	14.7
	10:30	2.88	2000	2.15	14.7
	10:45	2.89	2006	2	14.8
	11:00	2.92	2030	1.97	14.8
	11:15	2.91	2020	1.98	14.8
	11:30	2.95	2046	1.99	14.9
	11:45	2.92	2025	1.92	14.9
	12:00	2.93	2035	2.12	15
	12:15	2.92	2030	2.71	15.1
	12:30	2.91	2024	2.64	15.1
	12:45	2.92	2028	2.56	15.1
	13:00	2.92	2026	2.57	15.1
	13:15	2.94	2039	2.61	15.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	13:30	2.94	2041	2.6	15.2
	13:45	2.92	2031	2.61	15.2
	14:00	2.94	2038	2.55	15.2
	14:15	2.94	2045	2.52	15.3
	14:30	2.95	2048	2.56	15.3
	14:45	2.95	2046	2.32	15.3
	15:00	2.93	2034	2.29	15.3
	15:15	2.93	2033	2.33	15.3
	15:30	2.92	2030	2.31	15.3
	15:45	2.91	2022	2.31	15.4
	16:00	2.91	2019	2.36	15.4
	16:15	2.93	2032	2.35	15.4
	16:30	2.91	2019	2.37	15.4
	16:45	2.91	2022	2.45	15.4
	17:00	2.93	2034	2.48	15.4
	17:15	2.92	2029	2.5	15.4
	17:30	2.92	2026	2.51	15.5
	17:45	2.91	2020	2.71	15.5
	18:00	2.92	2027	2.48	15.5
	18:15	2.91	2018	2.53	15.5
	18:30	2.92	2027	2.54	15.5
	18:45	2.93	2031	2.69	15.5
	19:00	2.91	2023	2.69	15.5
	19:15	2.92	2029	2.66	15.5
	19:30	2.93	2035	2.66	15.5
	19:45	2.91	2024	2.56	15.5
	20:00	2.91	2019	2.57	15.5
	20:15	2.9	2013	2.66	15.6
	20:30	2.91	2018	2.68	15.6
	20:45	2.92	2026	2.74	15.6
	21:00	2.91	2022	2.72	15.6
	21:15	2.91	2024	2.73	15.6
	21:30	2.92	2028	2.75	15.6
	21:45	2.91	2024	2.79	15.6
	22:00	2.92	2025	2.98	15.6
	22:15	2.92	2028	3.15	15.6
	22:30	2.9	2015	3.01	15.6
	22:45	2.9	2011	2.79	15.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	23:00	2.92	2027	2.69	15.6
	23:15	2.92	2025	2.82	15.6
	23:30	2.93	2035	2.84	15.6
	23:45	2.91	2024	2.8	15.6
1/31/2014	0:00	2.91	2018	2.81	15.6
	0:15	2.91	2021	2.86	15.6
	0:30	2.89	2004	2.82	15.6
	0:45	2.91	2018	2.84	15.7
	1:00	2.91	2019	2.87	15.7
	1:15	2.89	2009	2.86	15.7
	1:30	2.89	2009	2.87	15.7
	1:45	2.89	2009	2.86	15.7
	2:00	2.9	2014	5.87	15.6
	2:15	2.92	2025	2.6	15.7
	2:30	2.91	2023	2.58	15.7
	2:45	2.91	2022	2.62	15.7
	3:00	2.91	2019	2.62	15.7
	3:15	2.88	2003	2.57	15.7
	3:30	2.9	2013	2.68	15.7
	3:45	2.89	2009	2.66	15.7
	4:00	2.91	2023	2.71	15.7
	4:15	2.92	2026	2.78	15.7
	4:30	2.89	2010	2.76	15.7
	4:45	2.87	1995	2.72	15.7
	5:00	2.9	2014	2.76	15.7
	5:15	2.89	2006	2.66	15.7
	5:30	2.9	2013	2.57	15.7
	5:45	2.89	2009	2.53	15.7
	6:00	2.88	2003	3.44	15.7
	6:15	2.9	2012	3.88	15.7
	6:30	2.89	2006	3.63	15.7
	6:45	2.89	2008	3.38	15.7
	7:00	2.9	2016	3.33	15.7
	7:15	2.91	2021	3.74	15.7
	7:30	2.91	2022	4.18	15.7
	7:45	2.9	2014	5.93	15.7
	8:00	2.91	2019	4.17	15.8
	8:15	2.9	2017	4.07	15.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	8:30	2.9	2016	3.89	15.8
	8:45	2.91	2018	3.78	15.8
	9:00	2.9	2011	3.74	15.9
	9:15	2.92	2029	3.68	15.9
	9:30	2.9	2017	3.7	15.9
	9:45	2.9	2014	3.66	15.9
	10:00	2.9	2016	3.62	15.9
	10:15	2.89	2005	3.6	15.9
	10:30	2.88	2000	3.47	15.9
	10:45	2.89	2006	3.4	16
	11:00	2.92	2030	3.25	16
	11:15	2.91	2020	3.25	16
	11:30	2.95	2046	3.21	16
	11:45	2.92	2025	3.1	16
	12:00	2.93	2035	3.13	16
	12:15	2.92	2030	3.21	16.1
	12:30	2.91	2024	3.18	16.1
	12:45	2.92	2028	3.21	16.1
	13:00	2.92	2026	3.16	16.1
	13:15	2.94	2039	3.16	16.1
	13:30	2.94	2041	3.13	16.1
	13:45	2.92	2031	3.06	16.2
	14:00	2.94	2038	3.19	16.2
	14:15	2.94	2045	3.21	16.2
	14:30	2.95	2048	3.19	16.2
	14:45	2.95	2046	3.18	16.2
	15:00	2.93	2034	3.16	16.2
	15:15	2.93	2033	3.24	16.2
	15:30	2.92	2030	3.22	16.2
	15:45	2.91	2022	3.13	16.2
	16:00	2.91	2019	3.19	16.2
	16:15	2.93	2032	1.86	16.2
	16:30	2.91	2019	3.78	15.7
	16:45	2.91	2022	2.45	15.9
	17:00	2.93	2034	2.48	16
	17:15	2.92	2029	2.38	16
	17:30	2.92	2026	2.39	16
	17:45	2.91	2020	2.45	16

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	18:00	2.92	2027	2.14	16
	18:15	2.91	2018	2.98	15.9
	18:30	2.92	2027	3.74	16
	18:45	2.93	2031	3.55	16
	19:00	2.91	2023	3.54	16
	19:15	2.92	2029	3.53	16.1
	19:30	2.93	2035	3.61	16.1
	19:45	2.91	2024	3.65	16.1
	20:00	2.91	2019	3.68	16.1
	20:15	2.9	2013	3.68	16.1
	20:30	2.91	2018	3.63	16.1
	20:45	2.92	2026	3.73	16
	21:00	2.91	2022	3.74	16
	21:15	2.91	2024	3.79	16
	21:30	2.92	2028	3.84	16
	21:45	2.91	2024	3.81	16
	22:00	2.92	2025	3.88	16
	22:15	2.92	2028	3.9	16
	22:30	2.9	2015	3.82	16
	22:45	2.9	2011	3.76	16
	23:00	2.92	2027	3.85	16
	23:15	2.92	2025	3.81	15.9
	23:30	2.93	2035	3.81	15.9
	23:45	2.91	2024	3.83	15.9
2/1/2014	0:00	2.92	2025	3.74	15.9
	0:15	2.92	2026	3.71	15.9
	0:30	2.91	2022	3.67	15.9
	0:45	2.9	2011	3.8	15.9
	1:00	2.9	2014	3.86	15.9
	1:15	2.9	2015	3.89	15.9
	1:30	2.92	2026	3.98	15.9
	1:45	2.91	2021	4.01	15.9
	2:00	2.91	2018	3.82	15.9
	2:15	2.9	2017	4.04	15.9
	2:30	2.92	2025	3.97	15.9
	2:45	2.92	2031	3.94	15.9
	3:00	2.92	2029	3.89	15.9
	3:15	2.91	2020	3.73	15.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	3:30	2.91	2018	3.68	15.8
	3:45	2.92	2029	3.74	15.8
	4:00	2.92	2029	3.72	15.8
	4:15	2.91	2018	3.8	15.8
	4:30	2.91	2021	3.75	15.8
	4:45	2.91	2023	3.73	15.8
	5:00	2.91	2022	3.75	15.8
	5:15	2.87	1996	3.77	15.7
	5:30	2.89	2009	3.75	15.7
	5:45	2.91	2022	3.82	15.7
	6:00	2.9	2017	3.75	15.7
	6:15	2.92	2031	3.73	15.7
	6:30	2.91	2022	3.73	15.7
	6:45	2.9	2015	3.81	15.7
	7:00	2.9	2013	3.82	15.7
	7:15	2.9	2013	3.77	15.7
	7:30	2.91	2021	3.84	15.7
	7:45	2.91	2019	3.85	15.7
	8:00	2.91	2019	3.87	15.7
	8:15	2.93	2034	3.82	15.7
	8:30	2.92	2029	3.75	15.7
	8:45	2.91	2022	3.71	15.7
	9:00	2.93	2038	3.57	15.6
	9:15	2.92	2031	3.48	15.6
	9:30	2.92	2025	3.49	15.6
	9:45	2.91	2024	3.52	15.6
	10:00	2.93	2035	3.56	15.6
	10:15	2.92	2028	3.54	15.6
	10:30	2.93	2032	3.52	15.6
	10:45	2.93	2037	3.51	15.7
	11:00	2.92	2028	3.47	15.7
	11:15	2.91	2022	3.37	15.7
	11:30	2.94	2044	3.38	15.7
	11:45	2.92	2027	3.35	15.7
	12:00	2.91	2023	3.35	15.7
	12:15	2.91	2018	3.29	15.7
	12:30	2.92	2026	3.18	15.7
	12:45	2.91	2020	3.12	15.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	13:00	2.92	2029	3.14	15.8
	13:15	2.91	2020	3.09	15.9
	13:30	2.93	2035	3.12	15.9
	13:45	2.93	2032	3.15	15.9
	14:00	2.91	2024	3.08	15.9
	14:15	2.91	2024	3	15.9
	14:30	2.92	2027	3.06	16
	14:45	2.9	2016	3.08	16
	15:00	2.89	2006	3.01	16
	15:15	2.94	2043	3.05	16
	15:30	2.59	1801	3.13	16
	15:45	2.7	1873	3.16	16
	16:00	2.98	2066	3.07	15.9
	16:15	2.98	2069	3.09	15.9
	16:30	2.96	2055	3.1	15.9
	16:45	2.98	2070	3.11	15.9
	17:00	2.97	2062	3.15	15.9
	17:15	2.96	2055	3.25	15.9
	17:30	2.96	2057	3.34	15.9
	17:45	2.95	2045	3.38	15.9
	18:00	2.97	2061	3.45	15.9
	18:15	2.94	2042	3.49	15.9
	18:30	2.95	2052	3.57	15.9
	18:45	2.96	2056	3.65	15.8
	19:00	2.96	2056	3.61	15.8
	19:15	2.97	2061	3.63	15.8
	19:30	2.97	2063	3.67	15.8
	19:45	2.96	2058	3.77	15.8
	20:00	2.96	2058	3.93	15.8
	20:15	2.96	2054	4.18	15.7
	20:30	2.96	2053	4.23	15.7
	20:45	2.96	2058	4.2	15.7
	21:00	2.95	2046	4.09	15.7
	21:15	2.97	2061	3.96	15.7
	21:30	2.97	2063	3.87	15.6
	21:45	2.97	2064	3.71	15.6
	22:00	2.96	2052	3.75	15.6
	22:15	2.96	2056	3.76	15.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	22:30	2.95	2049	3.84	15.6
	22:45	2.94	2040	3.76	15.5
	23:00	2.95	2048	3.71	15.5
	23:15	2.97	2064	3.77	15.5
	23:30	2.97	2060	3.77	15.5
	23:45	2.95	2046	3.86	15.5
2/2/2014	0:00	2.94	2042	4.09	15.5
	0:15	2.96	2053	4.3	15.4
	0:30	2.97	2060	4.47	15.5
	0:45	2.94	2039	4.41	15.4
	1:00	2.96	2052	4.13	15.4
	1:15	2.94	2044	3.98	15.4
	1:30	2.96	2055	3.98	15.3
	1:45	2.95	2047	4.04	15.3
	2:00	2.97	2062	3.77	15.3
	2:15	2.93	2036	3.74	15.3
	2:30	2.96	2054	3.72	15.3
	2:45	2.98	2068	3.74	15.3
	3:00	2.94	2040	3.75	15.3
	3:15	2.94	2042	3.87	15.3
	3:30	2.96	2052	3.85	15.2
	3:45	2.94	2042	3.98	15.2
	4:00	2.95	2048	3.89	15.2
	4:15	2.96	2056	3.92	15.2
	4:30	2.95	2048	3.83	15.2
	4:45	2.96	2052	3.82	15.2
	5:00	2.96	2054	3.82	15.2
	5:15	2.94	2040	3.87	15.1
	5:30	2.94	2044	3.95	15.1
	5:45	2.95	2049	3.91	15.1
	6:00	2.95	2046	3.89	15.1
	6:15	2.95	2045	4.16	15
	6:30	2.95	2051	4.06	15
	6:45	2.95	2052	4.01	14.9
	7:00	2.93	2033	4.07	14.9
	7:15	2.96	2055	4.16	14.9
	7:30	2.96	2052	4.2	14.9
	7:45	2.97	2062	4.12	14.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	8:00	2.97	2063	4.04	14.8
	8:15	2.96	2053	4.05	14.8
	8:30	2.95	2050	3.93	14.8
	8:45	2.97	2059	3.99	14.8
	9:00	2.95	2046	4.04	14.8
	9:15	2.94	2043	4	14.8
	9:30	2.93	2036	4.1	14.8
	9:45	2.96	2053	4.06	14.7
	10:00	2.95	2049	3.97	14.7
	10:15	2.96	2056	3.95	14.7
	10:30	2.97	2064	3.93	14.7
	10:45	2.95	2052	3.85	14.7
	11:00	2.96	2052	3.82	14.7
	11:15	2.96	2057	3.76	14.7
	11:30	2.96	2056	3.7	14.6
	11:45	2.97	2060	3.76	14.7
	12:00	2.95	2050	3.88	14.7
	12:15	2.96	2058	3.83	14.7
	12:30	2.97	2063	3.91	14.6
	12:45	2.97	2062	3.87	14.7
	13:00	2.98	2071	3.94	14.7
	13:15	2.97	2063	4.07	14.7
	13:30	2.96	2056	3.92	14.6
	13:45	2.97	2061	3.87	14.6
	14:00	3	2086	3.85	14.6
	14:15	2.98	2069	3.81	14.6
	14:30	2.97	2060	3.76	14.6
	14:45	2.97	2064	3.81	14.6
	15:00	2.97	2064	3.85	14.6
	15:15	2.96	2056	3.78	14.6
	15:30	2.96	2053	3.78	14.6
	15:45	2.96	2054	3.79	14.6
	16:00	2.95	2048	3.9	14.6
	16:15	2.96	2054	3.9	14.6
	16:30	2.96	2054	3.83	14.6
	16:45	2.95	2049	3.84	14.6
	17:00	2.96	2057	3.92	14.6
	17:15	2.95	2048	3.9	14.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	17:30	2.95	2051	3.99	14.6
	17:45	2.95	2047	4.01	14.6
	18:00	2.95	2050	4.05	14.6
	18:15	2.96	2053	4.21	14.6
	18:30	2.94	2045	4.19	14.6
	18:45	2.95	2048	4.24	14.6
	19:00	2.95	2051	4.26	14.6
	19:15	2.96	2053	4.43	14.7
	19:30	2.96	2053	4.84	14.7
	19:45	2.97	2063	4.84	14.7
	20:00	2.94	2044	4.66	14.7
	20:15	2.94	2042	4.52	14.7
	20:30	2.97	2062	4.44	14.6
	20:45	2.96	2055	4.47	14.7
	21:00	2.97	2059	4.55	14.7
	21:15	2.96	2054	4.52	14.7
	21:30	2.96	2052	4.5	14.7
	21:45	2.97	2062	4.6	14.7
	22:00	2.96	2056	4.69	14.7
	22:15	2.97	2064	4.7	14.7
	22:30	2.97	2060	4.65	14.7
	22:45	2.95	2047	4.71	14.7
	23:00	2.96	2053	4.76	14.7
	23:15	2.95	2045	4.84	14.7
	23:30	2.95	2051	4.76	14.7
	23:45	2.95	2051	4.85	14.7
2/3/2014	0:00	2.94	2040	4.84	14.7
	0:15	2.92	2027	4.77	14.7
	0:30	2.94	2040	4.73	14.7
	0:45	2.93	2038	4.73	14.7
	1:00	2.95	2048	4.83	14.7
	1:15	2.94	2044	4.9	14.7
	1:30	2.95	2050	5.1	14.7
	1:45	2.93	2036	5.24	14.7
	2:00	2.93	2038	4.82	14.7
	2:15	2.95	2049	4.72	14.7
	2:30	2.94	2042	4.69	14.7
	2:45	2.94	2044	4.7	14.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	3:00	2.96	2053	4.66	14.7
	3:15	2.94	2042	4.65	14.7
	3:30	2.94	2044	4.57	14.7
	3:45	2.96	2054	4.69	14.7
	4:00	2.93	2038	4.72	14.7
	4:15	2.95	2050	4.63	14.7
	4:30	2.95	2047	4.63	14.7
	4:45	2.94	2042	4.57	14.7
	5:00	2.94	2039	4.62	14.6
	5:15	2.93	2031	4.59	14.6
	5:30	2.95	2051	4.61	14.6
	5:45	2.96	2053	4.61	14.6
	6:00	2.95	2047	4.5	14.6
	6:15	2.95	2049	4.53	14.6
	6:30	2.95	2049	4.63	14.6
	6:45	2.93	2035	4.61	14.6
	7:00	2.95	2045	4.65	14.6
	7:15	2.95	2046	4.63	14.6
	7:30	2.93	2037	4.63	14.6
	7:45	2.95	2047	4.61	14.6
	8:00	2.95	2045	4.61	14.6
	8:15	2.96	2057	4.62	14.6
	8:30	2.95	2051	4.68	14.6
	8:45	2.94	2044	4.69	14.6
	9:00	2.97	2061	4.64	14.6
	9:15	2.96	2057	4.59	14.6
	9:30	2.97	2060	4.54	14.6
	9:45	2.96	2056	4.45	14.7
	10:00	2.95	2048	4.23	14.7
	10:15	2.96	2054	4.09	14.7
	10:30	2.96	2052	4.1	14.7
	10:45	2.95	2050	3.97	14.7
	11:00	2.94	2044	4.03	14.7
	11:15	2.96	2054	4.07	14.7
	11:30	2.96	2056	4.12	14.7
	11:45	2.96	2058	4.18	14.7
	12:00	2.94	2038	4.2	14.8
	12:15	2.95	2048	4.11	14.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	12:30	2.97	2061	4.17	14.8
	12:45	2.94	2039	4.15	14.8
	13:00	2.95	2047	4.13	14.8
	13:15	2.94	2041	4.2	14.8
	13:30	2.94	2039	4.34	14.8
	13:45	2.94	2041	4.33	14.8
	14:00	2.95	2046	4.32	14.8
	14:15	2.96	2055	4.29	14.8
	14:30	2.95	2047	4.35	14.8
	14:45	2.93	2037	4.37	14.8
	15:00	2.95	2050	4.21	14.8
	15:15	2.93	2036	4.27	14.9
	15:30	2.95	2052	4.24	14.8
	15:45	2.96	2056	4.18	14.8
	16:00	2.96	2055	4.26	14.8
	16:15	2.95	2049	4.4	14.8
	16:30	2.95	2049	4.47	14.8
	16:45	2.95	2048	4.6	14.8
	17:00	2.96	2056	4.47	14.8
	17:15	2.94	2040	4.46	14.8
	17:30	2.94	2041	4.5	14.8
	17:45	2.96	2055	4.52	14.8
	18:00	2.93	2038	4.51	14.8
	18:15	2.95	2046	4.54	14.8
	18:30	2.96	2054	4.56	14.8
	18:45	2.97	2063	4.66	14.8
	19:00	2.95	2046	4.59	14.8
	19:15	2.94	2044	4.72	14.8
	19:30	2.95	2050	4.69	14.8
	19:45	2.96	2053	4.73	14.8
	20:00	2.96	2055	4.77	14.8
	20:15	2.95	2049	4.77	14.8
	20:30	2.96	2055	4.83	14.8
	20:45	2.94	2042	4.86	14.8
	21:00	2.95	2050	4.88	14.8
	21:15	2.94	2043	4.98	14.8
	21:30	2.96	2056	4.98	14.8
	21:45	2.96	2057	5.05	14.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	22:00	2.96	2056	4.93	14.8
	22:15	2.95	2051	4.84	14.8
	22:30	2.96	2059	4.95	14.8
	22:45	2.94	2044	4.98	14.8
	23:00	2.93	2037	4.97	14.8
	23:15	2.96	2055	5.07	14.8
	23:30	2.95	2051	5.01	14.8
	23:45	2.96	2056	4.98	14.8
2/4/2014	0:00	2.95	2049	4.93	14.8
	0:15	2.95	2050	4.92	14.8
	0:30	2.95	2049	5.08	14.8
	0:45	2.95	2049	5.07	14.8
	1:00	2.95	2051	4.9	14.8
	1:15	2.95	2050	5.1	14.8
	1:30	2.96	2059	5.12	14.8
	1:45	2.95	2050	4.98	14.8
	2:00	2.96	2056	4.9	14.8
	2:15	2.95	2051	4.88	14.8
	2:30	2.95	2046	4.93	14.8
	2:45	2.93	2037	4.8	14.8
	3:00	2.96	2052	4.78	14.8
	3:15	2.96	2058	4.9	14.8
	3:30	2.95	2045	4.84	14.8
	3:45	2.95	2047	4.61	14.8
	4:00	2.95	2046	4.43	14.8
	4:15	2.94	2041	4.42	14.8
	4:30	2.93	2036	4.56	14.8
	4:45	2.94	2044	4.46	14.8
	5:00	2.96	2052	4.52	14.8
	5:15	2.95	2048	4.58	14.8
	5:30	2.94	2043	4.56	14.8
	5:45	2.95	2046	4.56	14.8
	6:00	2.95	2047	4.64	14.8
	6:15	2.97	2061	4.63	14.8
	6:30	2.95	2048	4.63	14.7
	6:45	2.95	2049	4.72	14.7
	7:00	2.94	2041	4.72	14.7
	7:15	2.94	2041	4.74	14.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	7:30	2.94	2042	4.83	14.7
	7:45	2.94	2044	4.8	14.8
	8:00	2.94	2044	4.87	14.7
	8:15	2.95	2049	4.82	14.7
	8:30	2.95	2049	4.97	14.8
	8:45	2.95	2050	5.16	14.8
	9:00	2.94	2039	5.06	14.8
	9:15	2.94	2043	5.03	14.8
	9:30	2.98	2069	5.03	14.8
	9:45	2.98	2066	4.87	14.8
	10:00	2.97	2064	4.79	14.8
	10:15	2.95	2050	4.66	14.8
	10:30	1.04	720	4.53	14.9
	10:45	2.73	1893	4.59	14.9
	11:00	2.79	1934	4.79	14.9
	11:15	2.66	1848	4.99	14.9
	11:30	2.66	1845	4.84	14.9
	11:45	2.67	1853	4.8	14.9
	12:00	2.74	1905	4.81	14.9
	12:15	2.77	1925	4.77	14.9
	12:30	2.77	1923	4.84	14.9
	12:45	2.75	1909	4.76	14.9
	13:00	2.73	1899	4.71	14.9
	13:15	2.75	1908	4.77	14.9
	13:30	2.77	1921	4.69	14.9
	13:45	2.74	1906	4.52	14.9
	14:00	2.73	1898	4.54	14.9
	14:15	2.74	1900	4.41	15
	14:30	2.77	1927	4.44	15
	14:45	2.76	1914	4.54	15
	15:00	2.74	1902	4.47	15
	15:15	2.74	1901	4.42	15
	15:30	2.75	1910	4.27	15
	15:45	2.75	1910	4.34	15
	16:00	2.75	1913	4.47	15
	16:15	2.74	1904	4.41	15
	16:30	2.75	1909	4.51	15
	16:45	2.75	1911	4.66	15

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	17:00	2.76	1919	4.89	15
	17:15	2.75	1911	5.02	15
	17:30	2.75	1909	4.75	15
	17:45	2.74	1901	4.82	15
	18:00	2.76	1918	4.94	15
	18:15	2.77	1920	4.94	15
	18:30	2.76	1914	4.82	15
	18:45	2.75	1911	4.72	15
	19:00	2.75	1909	4.62	15
	19:15	2.75	1911	4.61	14.9
	19:30	2.75	1911	4.69	14.9
	19:45	2.74	1904	4.83	14.9
	20:00	2.78	1928	4.92	14.9
	20:15	2.78	1929	4.83	14.9
	20:30	2.75	1912	4.86	14.9
	20:45	2.75	1911	4.87	14.9
	21:00	2.77	1927	4.82	14.9
	21:15	2.76	1917	4.96	14.9
	21:30	2.74	1904	5.08	14.9
	21:45	2.77	1921	4.83	14.9
	22:00	2.76	1914	4.83	14.9
	22:15	2.73	1895	4.61	14.8
	22:30	2.75	1907	4.55	14.8
	22:45	2.76	1913	4.58	14.8
	23:00	2.75	1913	4.59	14.8
	23:15	2.76	1917	4.61	14.8
	23:30	2.74	1904	4.74	14.8
	23:45	2.75	1908	4.83	14.8
2/5/2014	0:00	2.76	1918	4.86	14.8
	0:15	2.76	1916	4.79	14.8
	0:30	2.76	1918	5.05	14.7
	0:45	2.74	1906	5.05	14.7
	1:00	2.77	1923	5.02	14.7
	1:15	2.79	1940	4.88	14.7
	1:30	2.74	1906	4.79	14.6
	1:45	2.73	1895	4.66	14.6
	2:00	2.74	1902	4.66	14.5
	2:15	2.74	1900	4.29	14.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	2:30	2.72	1891	4.24	14.5
	2:45	2.74	1905	4.07	14.5
	3:00	2.75	1908	4.05	14.5
	3:15	2.75	1909	4.13	14.4
	3:30	2.76	1920	4.17	14.4
	3:45	2.73	1898	4.04	14.4
	4:00	2.75	1908	4.12	14.4
	4:15	2.74	1904	4.13	14.4
	4:30	2.72	1886	4.12	14.4
	4:45	2.75	1912	4.18	14.3
	5:00	2.73	1893	4.06	14.3
	5:15	2.72	1886	4.08	14.2
	5:30	2.72	1887	4.23	14.2
	5:45	2.72	1892	4.15	14.2
	6:00	2.72	1886	4.16	14.1
	6:15	2.74	1900	4.06	14.1
	6:30	2.72	1892	4	14.1
	6:45	2.71	1884	4.19	14
	7:00	2.73	1894	4.32	14
	7:15	2.72	1891	4.49	14
	7:30	2.73	1897	4.47	14
	7:45	2.73	1895	4.44	14
	8:00	2.71	1881	4.21	13.9
	8:15	2.73	1895	3.98	13.8
	8:30	2.75	1910	4.2	13.9
	8:45	2.74	1900	4.5	13.9
	9:00	2.75	1907	4.55	13.8
	9:15	2.73	1893	4.48	13.8
	9:30	2.74	1900	4.23	13.8
	9:45	2.72	1890	4.03	13.8
	10:00	2.71	1884	4.02	13.8
	10:15	2.72	1886	3.92	13.8
	10:30	2.72	1892	3.86	13.8
	10:45	2.73	1896	3.87	13.8
	11:00	2.72	1890	3.74	13.8
	11:15	2.73	1894	3.76	13.8
	11:30	2.71	1881	3.82	13.8
	11:45	2.72	1888	3.85	13.9

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	12:00	2.72	1889	3.82	13.9
	12:15	2.72	1888	3.93	13.9
	12:30	2.73	1897	3.83	13.9
	12:45	2.71	1885	3.83	13.9
	13:00	2.74	1903	3.88	13.9
	13:15	2.74	1902	3.82	13.9
	13:30	2.72	1891	3.96	13.9
	13:45	2.74	1901	3.97	13.9
	14:00	2.72	1890	3.81	13.9
	14:15	2.73	1895	3.83	13.9
	14:30	2.73	1897	3.7	13.9
	14:45	2.77	1922	3.69	13.9
	15:00	2.74	1900	3.76	13.9
	15:15	2.72	1891	3.85	13.9
	15:30	2.72	1888	3.82	13.9
	15:45	2.73	1899	3.75	13.9
	16:00	2.72	1890	3.71	13.9
	16:15	2.71	1880	3.87	13.9
	16:30	2.73	1893	3.85	13.9
	16:45	2.71	1880	3.84	13.9
	17:00	2.72	1889	3.98	13.8
	17:15	2.72	1888	3.88	13.8
	17:30	2.73	1898	3.99	13.8
	17:45	2.72	1892	4.13	13.8
	18:00	2.74	1901	4.39	13.8
	18:15	2.72	1891	4.37	13.8
	18:30	2.71	1882	4.43	13.8
	18:45	2.74	1906	4.67	13.8
	19:00	2.73	1894	4.73	13.8
	19:15	2.72	1889	4.59	13.8
	19:30	2.74	1900	4.44	13.8
	19:45	2.72	1892	4.31	13.7
	20:00	2.72	1886	4.31	13.7
	20:15	2.71	1881	4.39	13.7
	20:30	2.73	1897	4.24	13.7
	20:45	2.72	1888	4.26	13.7
	21:00	2.73	1898	4.36	13.7
	21:15	2.73	1893	4.44	13.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	21:30	2.71	1885	4.42	13.6
	21:45	2.77	1922	4.39	13.6
	22:00	2.71	1880	4.27	13.6
	22:15	2.73	1897	4.36	13.6
	22:30	2.72	1892	4.38	13.6
	22:45	2.73	1895	4.41	13.6
	23:00	2.71	1880	4.51	13.6
	23:15	2.71	1881	4.46	13.6
	23:30	2.73	1893	4.56	13.6
	23:45	2.74	1901	4.56	13.6
2/6/2014	0:00	2.73	1893	4.53	13.6
	0:15	2.71	1883	4.54	13.5
	0:30	2.73	1894	4.54	13.6
	0:45	2.73	1894	4.55	13.5
	1:00	2.74	1900	4.68	13.5
	1:15	2.72	1890	4.46	13.5
	1:30	2.72	1892	4.33	13.5
	1:45	2.71	1880	4.39	13.5
	2:00	2.72	1886	4.26	13.4
	2:15	2.7	1875	4.26	13.4
	2:30	2.71	1881	4.35	13.4
	2:45	2.72	1887	4.27	13.4
	3:00	2.71	1885	4.29	13.4
	3:15	2.73	1894	4.31	13.3
	3:30	2.71	1882	4.33	13.3
	3:45	2.71	1880	4.34	13.3
	4:00	2.7	1875	4.2	13.3
	4:15	2.72	1888	4.22	13.3
	4:30	2.71	1879	4.28	13.3
	4:45	2.71	1885	4.2	13.3
	5:00	2.69	1871	4.29	13.3
	5:15	2.69	1870	4.39	13.3
	5:30	2.74	1901	4.48	13.3
	5:45	2.7	1872	4.5	13.3
	6:00	2.74	1905	4.42	13.3
	6:15	2.72	1891	4.47	13.3
	6:30	2.7	1876	4.5	13.3
	6:45	2.71	1882	4.55	13.3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	7:00	2.7	1874	4.68	13.3
	7:15	2.72	1888	4.63	13.3
	7:30	2.68	1864	4.54	13.2
	7:45	2.69	1869	4.48	13.2
	8:00	2.71	1884	4.41	13.2
	8:15	2.7	1876	4.41	13.2
	8:30	2.73	1896	4.38	13.2
	8:45	2.72	1888	4.38	13.2
	9:00	2.73	1895	4.36	13.2
	9:15	2.73	1893	4.24	13.2
	9:30	2.73	1897	4.19	13.2
	9:45	2.73	1893	4.33	13.2
	10:00	2.71	1883	4.29	13.2
	10:15	2.73	1895	4.17	13.2
	10:30	2.73	1895	4.4	13.2
	10:45	2.74	1901	4.46	13.3
	11:00	2.72	1891	4.41	13.3
	11:15	2.74	1900	4.36	13.3
	11:30	2.74	1905	4.41	13.3
	11:45	2.73	1897	4.39	13.3
	12:00	2.72	1888	4.36	13.3
	12:15	2.71	1881	4.31	13.3
	12:30	2.72	1892	4.25	13.3
	12:45	2.72	1892	4.28	13.3
	13:00	2.71	1885	4.26	13.3
	13:15	2.72	1891	4.26	13.4
	13:30	2.72	1892	4.33	13.3
	13:45	2.72	1888	4.44	13.4
	14:00	2.72	1887	4.55	13.4
	14:15	2.74	1905	4.93	13.4
	14:30	2.7	1878	4.64	13.4
	14:45	2.73	1896	4.78	13.4
	15:00	2.72	1890	4.84	13.4
	15:15	2.72	1892	4.65	13.4
	15:30	2.71	1881	4.58	13.4
	15:45	2.72	1886	4.57	13.4
	16:00	2.71	1879	4.34	13.4
	16:15	2.72	1886	4.31	13.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	16:30	2.72	1892	4.24	13.4
	16:45	2.72	1890	4.16	13.4
	17:00	2.73	1893	4.31	13.4
	17:15	2.72	1886	4.54	13.4
	17:30	2.72	1886	4.68	13.4
	17:45	2.72	1886	4.83	13.4
	18:00	2.7	1874	4.92	13.4
	18:15	2.74	1903	4.96	13.4
	18:30	2.74	1901	5.18	13.4
	18:45	2.74	1901	5.15	13.4
	19:00	2.73	1896	5.05	13.4
	19:15	2.72	1886	5.12	13.4
	19:30	2.71	1880	5.07	13.4
	19:45	2.72	1891	5.11	13.5
	20:00	2.73	1896	5.09	13.5
	20:15	2.71	1883	5.02	13.4
	20:30	2.73	1893	5	13.5
	20:45	2.72	1892	5.06	13.5
	21:00	2.72	1890	5.01	13.5
	21:15	2.73	1895	5.07	13.5
	21:30	2.71	1882	5.1	13.5
	21:45	2.72	1888	5.13	13.5
	22:00	2.72	1889	5.06	13.5
	22:15	2.71	1883	5.02	13.5
	22:30	2.71	1885	5	13.5
	22:45	2.73	1898	5	13.5
	23:00	2.73	1893	5.03	13.5
	23:15	2.74	1901	5.13	13.5
	23:30	2.73	1896	5.12	13.5
	23:45	2.72	1888	5.14	13.5
2/7/2014	0:00	2.71	1879	4.99	13.6
	0:15	2.71	1881	5.07	13.5
	0:30	2.71	1885	5.02	13.5
	0:45	2.71	1881	4.75	13.6
	1:00	2.72	1889	4.81	13.6
	1:15	2.72	1887	5.01	13.6
	1:30	2.72	1891	5.15	13.6
	1:45	2.73	1895	5.23	13.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	2:00	2.71	1881	5.19	13.6
	2:15	2.74	1902	5.24	13.6
	2:30	2.7	1875	5.34	13.6
	2:45	2.72	1892	5.32	13.6
	3:00	2.72	1888	5.24	13.6
	3:15	2.7	1875	5.27	13.6
	3:30	2.72	1886	5.13	13.6
	3:45	2.72	1888	5.14	13.6
	4:00	2.71	1881	5.22	13.6
	4:15	2.72	1888	5.2	13.6
	4:30	2.71	1883	5.26	13.7
	4:45	2.7	1878	4.98	13.6
	5:00	2.71	1885	4.74	13.6
	5:15	2.71	1883	4.71	13.6
	5:30	2.73	1895	4.63	13.6
	5:45	2.7	1878	4.84	13.6
	6:00	2.72	1891	5.16	13.7
	6:15	2.72	1888	5.27	13.7
	6:30	2.72	1891	5.01	13.7
	6:45	2.72	1891	4.68	13.7
	7:00	2.7	1878	4.65	13.7
	7:15	2.72	1886	4.85	13.7
	7:30	2.73	1897	4.99	13.7
	7:45	2.71	1881	4.98	13.7
	8:00	2.72	1887	4.97	13.7
	8:15	2.72	1888	4.99	13.7
	8:30	2.7	1877	4.98	13.7
	8:45	2.72	1888	5.04	13.7
	9:00	2.72	1888	5.07	13.7
	9:15	2.71	1881	5.06	13.7
	9:30	2.72	1891	5.02	13.7
	9:45	2.72	1886	4.97	13.7
	10:00	2.72	1891	4.89	13.7
	10:15	2.71	1885	4.73	7.2
	10:30	2.71	1883	4.64	2
	10:45	2.73	1894	4.73	2
	11:00	2.74	1901	4.86	2
	11:15	2.73	1897	4.87	8.3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	11:30	2.73	1896	4.67	13.7
	11:45	2.7	1878	4.65	13.7
	12:00	2.7	1877	4.69	13.7
	12:15	2.72	1887	4.79	13.7
	12:30	2.71	1884	4.79	13.7
	12:45	2.71	1882	4.79	13.7
	13:00	2.7	1876	4.83	13.7
	13:15	2.7	1877	4.9	13.7
	13:30	2.7	1875	4.92	13.7
	13:45	2.72	1889	4.74	13.7
	14:00	2.71	1879	4.75	13.7
	14:15	2.7	1875	4.86	13.7
	14:30	2.72	1886	4.82	13.7
	14:45	2.71	1881	4.83	13.6
	15:00	2.72	1888	4.75	13.7
	15:15	2.72	1888	4.83	13.6
	15:30	2.73	1894	4.96	13.6
	15:45	2.72	1886	4.89	13.6
	16:00	2.73	1894	4.88	13.7
	16:15	2.73	1898	4.87	13.7
	16:30	2.74	1900	4.83	13.7
	16:45	2.7	1876	4.89	13.7
	17:00	2.7	1877	4.78	13.7
	17:15	2.7	1877	4.93	13.7
	17:30	2.72	1891	4.92	13.7
	17:45	2.72	1890	4.92	13.7
	18:00	2.7	1875	5.16	13.7
	18:15	2.73	1894	5.37	13.7
	18:30	2.72	1888	5.85	13.7
	18:45	2.71	1884	5.89	13.7
	19:00	2.72	1889	5.6	13.7
	19:15	2.73	1893	5.51	13.7
	19:30	2.73	1894	5.48	13.7
	19:45	2.71	1885	5.37	13.7
	20:00	2.7	1878	5.34	13.7
	20:15	2.7	1875	5.21	13.7
	20:30	2.72	1886	5.36	13.7
	20:45	2.72	1892	5.27	13.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	21:00	2.71	1882	5.18	13.7
	21:15	2.73	1894	4.87	13.7
	21:30	2.71	1884	4.7	13.7
	21:45	2.72	1891	5.14	13.7
	22:00	2.71	1885	5.78	13.7
	22:15	2.74	1900	6.09	13.7
	22:30	2.73	1893	6.03	13.7
	22:45	2.72	1887	5.68	13.7
	23:00	2.73	1897	5.5	13.7
	23:15	2.73	1895	5.56	13.7
	23:30	2.73	1897	5.67	13.7
	23:45	2.71	1881	5.6	13.7
2/8/2014	0:00	2.71	1881	5.77	13.7
	0:15	2.71	1881	5.83	13.7
	0:30	2.7	1877	5.9	13.7
	0:45	2.7	1877	5.99	13.7
	1:00	2.71	1881	5.67	13.7
	1:15	2.72	1889	5.49	13.7
	1:30	2.74	1901	5.47	13.7
	1:45	2.73	1898	5.48	13.7
	2:00	2.7	1878	5.72	13.7
	2:15	2.72	1889	5.19	13.7
	2:30	2.73	1894	5.2	13.7
	2:45	2.71	1881	5.21	13.7
	3:00	2.71	1881	5.14	13.7
	3:15	2.72	1888	5.17	13.8
	3:30	2.74	1900	5.16	13.7
	3:45	2.71	1884	5.08	13.7
	4:00	2.7	1877	5.09	13.8
	4:15	2.7	1877	5.12	13.8
	4:30	2.7	1877	5.13	13.7
	4:45	2.71	1882	5.06	13.7
	5:00	2.7	1877	4.94	13.8
	5:15	2.72	1889	5	13.8
	5:30	2.73	1897	4.94	13.8
	5:45	2.7	1877	5.05	13.8
	6:00	2.72	1888	5.06	13.8
	6:15	2.72	1887	4.95	13.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	6:30	2.7	1878	5.01	13.8
	6:45	2.71	1879	4.99	13.8
	7:00	2.71	1881	5.05	13.8
	7:15	2.72	1886	5.22	13.8
	7:30	2.71	1881	5.15	13.8
	7:45	2.73	1893	5.1	13.8
	8:00	2.71	1884	5.07	13.8
	8:15	2.7	1875	5.05	13.8
	8:30	2.71	1882	4.96	13.8
	8:45	2.71	1882	5.01	13.8
	9:00	2.73	1896	4.99	13.8
	9:15	2.71	1879	4.89	13.8
	9:30	2.74	1900	4.67	13.8
	9:45	2.74	1900	4.53	13.8
	10:00	2.71	1881	4.36	13.8
	10:15	2.7	1877	4.33	13.9
	10:30	2.71	1884	4.41	13.9
	10:45	2.71	1882	4.54	13.9
	11:00	2.71	1880	4.58	13.9
	11:15	2.7	1878	4.61	14
	11:30	2.71	1884	4.61	14
	11:45	2.72	1891	4.51	14
	12:00	2.73	1895	4.27	14.1
	12:15	2.72	1889	4.15	14.1
	12:30	2.73	1898	3.98	14.2
	12:45	2.73	1896	4.03	14.2
	13:00	2.74	1901	4.07	14.3
	13:15	2.75	1913	4.12	14.3
	13:30	2.74	1904	4.2	14.4
	13:45	2.76	1916	4.09	14.4
	14:00	2.74	1904	4.14	14.4
	14:15	2.73	1894	4.39	14.4
	14:30	2.73	1895	3.98	14.5
	14:45	2.74	1902	4	14.5
	15:00	2.73	1899	3.96	14.5
	15:15	2.76	1915	3.99	14.6
	15:30	2.73	1897	4.07	14.6
	15:45	2.73	1896	4.01	14.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	16:00	2.73	1899	4.07	14.5
	16:15	2.72	1891	4.18	14.5
	16:30	2.72	1886	4.17	14.5
	16:45	2.7	1877	4.26	14.5
	17:00	2.74	1903	4.37	14.5
	17:15	2.69	1870	4.33	14.5
	17:30	2.74	1900	4.38	14.5
	17:45	2.72	1890	4.41	14.5
	18:00	2.7	1875	4.47	14.5
	18:15	2.7	1875	4.68	14.5
	18:30	2.68	1864	4.86	14.5
	18:45	2.7	1874	4.74	14.5
	19:00	2.7	1873	4.72	14.5
	19:15	2.72	1886	4.7	14.5
	19:30	2.74	1900	4.79	14.5
	19:45	2.71	1881	4.73	14.5
	20:00	2.72	1890	4.73	14.5
	20:15	2.72	1889	4.82	14.5
	20:30	2.73	1898	4.84	14.5
	20:45	2.7	1877	4.9	14.5
	21:00	2.69	1868	4.92	14.5
	21:15	2.7	1872	4.93	14.5
	21:30	2.72	1890	5.08	14.5
	21:45	2.71	1885	5.02	14.5
	22:00	2.72	1888	5.11	14.4
	22:15	2.72	1887	5.14	14.4
	22:30	2.7	1877	5.1	14.4
	22:45	2.72	1890	5.08	14.4
	23:00	2.73	1894	5.05	14.4
	23:15	2.72	1889	5.12	14.4
	23:30	2.7	1878	5.17	14.4
	23:45	2.71	1879	5.17	14.4
2/9/2014	0:00	2.72	1890	5.16	14.4
	0:15	2.7	1877	5.19	14.3
	0:30	2.71	1883	5.2	14.3
	0:45	2.71	1884	5.26	14.3
	1:00	2.74	1902	5.44	14.3
	1:15	2.74	1900	5.32	14.3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	1:30	2.73	1895	5.28	14.3
	1:45	2.72	1890	5.21	14.3
	2:00	2.72	1886	5.5	14.3
	2:15	2.7	1878	5.74	14.3
	2:30	2.71	1884	5.68	14.3
	2:45	2.72	1892	5.51	14.3
	3:00	2.71	1883	5.19	14.3
	3:15	2.72	1892	5.1	14.3
	3:30	2.74	1900	5.04	14.3
	3:45	2.75	1907	5.05	14.3
	4:00	2.71	1879	5.01	14.3
	4:15	2.72	1886	5.2	14.3
	4:30	2.72	1892	5.21	14.3
	4:45	2.71	1882	5.17	14.2
	5:00	2.72	1891	5.13	14.2
	5:15	2.72	1889	5.06	14.2
	5:30	2.7	1873	5.07	14.2
	5:45	2.71	1879	5.21	14.2
	6:00	2.71	1884	5.14	14.2
	6:15	2.71	1880	5.27	14.2
	6:30	2.72	1887	5.18	14.2
	6:45	2.71	1885	5.25	14.2
	7:00	2.69	1868	5.33	14.2
	7:15	2.7	1873	5.2	14.2
	7:30	2.7	1875	5.19	14.2
	7:45	2.71	1885	5.11	14.2
	8:00	2.73	1894	5.02	14.2
	8:15	2.72	1890	5.15	14.2
	8:30	2.72	1889	5.03	14.2
	8:45	2.69	1870	5.03	14.2
	9:00	2.71	1882	5.17	14.2
	9:15	2.71	1881	5.05	14.2
	9:30	2.73	1896	4.95	14.2
	9:45	2.7	1873	4.75	14.2
	10:00	2.7	1877	4.69	14.2
	10:15	2.71	1885	4.9	14.2
	10:30	2.69	1867	5.06	14.2
	10:45	2.72	1886	5.06	14.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	11:00	2.71	1883	4.95	14.2
	11:15	2.68	1858	5.01	14.2
	11:30	2.71	1885	5.07	14.2
	11:45	2.71	1882	5.17	14.2
	12:00	2.71	1885	5.14	14.2
	12:15	2.7	1876	5.1	14.2
	12:30	2.71	1884	5.1	14.2
	12:45	2.74	1900	5.07	14.2
	13:00	2.73	1894	5.16	14.2
	13:15	2.72	1886	5.01	14.2
	13:30	2.72	1890	4.98	14.2
	13:45	2.72	1887	4.97	14.2
	14:00	2.72	1887	4.97	14.2
	14:15	2.69	1867	5.09	14.2
	14:30	2.73	1898	5.25	14.1
	14:45	2.73	1894	4.64	14.2
	15:00	2.7	1877	4.7	14.2
	15:15	2.72	1888	4.7	14.2
	15:30	2.72	1888	4.78	14.2
	15:45	2.74	1905	4.72	14.2
	16:00	2.72	1889	4.65	14.2
	16:15	2.71	1884	4.8	14.2
	16:30	2.71	1884	5.08	14.2
	16:45	2.73	1893	5.36	14.2
	17:00	2.72	1887	5.52	14.2
	17:15	2.71	1882	5.26	14.2
	17:30	2.72	1886	5.17	14.2
	17:45	2.73	1894	5.06	14.2
	18:00	2.7	1873	5.06	14.2
	18:15	2.71	1881	5.2	14.2
	18:30	2.72	1891	5.22	14.2
	18:45	2.72	1887	5.04	14.2
	19:00	2.72	1892	5.47	14.2
	19:15	2.72	1891	5.78	14.2
	19:30	2.73	1896	5.92	14.2
	19:45	2.72	1891	5.94	14.2
	20:00	2.75	1912	5.74	14.2
	20:15	2.74	1900	5.78	14.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	20:30	2.75	1909	5.89	14.2
	20:45	2.73	1894	5.88	14.2
	21:00	2.72	1886	5.85	14.2
	21:15	2.75	1908	5.84	14.2
	21:30	2.74	1900	5.99	14.2
	21:45	2.74	1901	6.19	14.2
	22:00	2.73	1894	6.1	14.2
	22:15	2.73	1898	5.94	14.1
	22:30	2.71	1879	5.7	14.1
	22:45	2.7	1873	5.38	14.1
	23:00	2.73	1895	5.39	14.1
	23:15	2.7	1876	5.25	14.1
	23:30	2.72	1892	5.16	14.1
	23:45	2.72	1888	5.31	14.1
2/10/2014	0:00	2.71	1881	5.37	14.1
	0:15	2.72	1886	5.43	14.1
	0:30	2.71	1879	5.55	14.1
	0:45	2.71	1884	5.36	14
	1:00	2.7	1877	5.33	14
	1:15	2.7	1872	5.35	14
	1:30	2.71	1883	5.2	14
	1:45	2.7	1878	5.17	14
	2:00	2.71	1885	5.18	14
	2:15	2.74	1901	5.33	14
	2:30	2.71	1883	5.34	13.9
	2:45	2.72	1888	5.4	14
	3:00	2.71	1883	5.73	14
	3:15	2.72	1890	5.72	13.9
	3:30	2.74	1901	5.63	13.9
	3:45	2.72	1891	5.77	13.9
	4:00	2.71	1884	5.78	13.9
	4:15	2.73	1894	5.92	13.9
	4:30	2.71	1879	5.89	13.9
	4:45	2.71	1884	5.39	13.9
	5:00	2.72	1887	5.27	13.9
	5:15	2.71	1884	5.38	13.9
	5:30	2.72	1888	5.32	13.8
	5:45	2.72	1887	5.41	13.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	6:00	2.71	1885	5.41	13.8
	6:15	2.72	1887	5.39	13.8
	6:30	2.72	1890	5.33	13.8
	6:45	2.7	1873	5.31	13.8
	7:00	2.71	1884	5.18	13.8
	7:15	2.7	1877	5.3	13.8
	7:30	2.71	1879	5.16	13.7
	7:45	2.71	1885	5.23	13.8
	8:00	2.69	1870	5.32	13.7
	8:15	2.72	1889	5.18	13.7
	8:30	2.68	1863	5.25	13.7
	8:45	2.7	1876	5.21	13.7
	9:00	2.7	1872	5.31	13.7
	9:15	2.7	1873	5.15	13.7
	9:30	2.7	1877	5.09	13.7
	9:45	2.71	1879	5.11	13.6
	10:00	2.73	1894	5.2	13.7
	10:15	2.69	1869	5.11	13.6
	10:30	2.7	1875	5.17	13.6
	10:45	2.71	1881	5.17	13.6
	11:00	2.71	1884	5.26	13.6
	11:15	2.7	1874	5.12	13.7
	11:30	2.72	1888	5.1	13.6
	11:45	2.71	1885	5.29	13.6
	12:00	2.72	1890	5.42	13.7
	12:15	2.71	1881	5.51	13.6
	12:30	2.72	1886	5.53	13.7
	12:45	2.7	1875	5.44	13.7
	13:00	2.71	1884	5.58	13.6
	13:15	2.71	1879	5.63	13.6
	13:30	2.73	1894	5.45	13.7
	13:45	2.71	1883	5.66	13.6
	14:00	2.71	1884	5.23	13.6
	14:15	2.72	1888	5.18	13.6
	14:30	2.72	1889	5.57	13.6
	14:45	2.71	1885	5.79	13.6
	15:00	2.71	1879	6.07	13.7
	15:15	2.7	1877	6.15	13.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	15:30	2.72	1886	5.89	13.6
	15:45	2.71	1882	5.89	13.6
	16:00	2.73	1896	6.03	13.6
	16:15	2.7	1874	5.96	13.6
	16:30	2.72	1888	5.95	13.6
	16:45	2.7	1877	5.88	13.6
	17:00	2.73	1896	6.02	13.6
	17:15	2.7	1878	5.99	13.6
	17:30	2.72	1887	5.93	13.6
	17:45	2.7	1876	5.99	13.6
	18:00	2.72	1892	6.07	13.6
	18:15	2.71	1881	5.87	13.6
	18:30	2.72	1889	5.95	13.6
	18:45	2.72	1891	5.86	13.6
	19:00	2.7	1874	5.72	13.6
	19:15	2.69	1868	5.76	13.6
	19:30	2.69	1870	5.59	13.6
	19:45	2.71	1881	5.57	13.6
	20:00	2.69	1870	5.47	13.6
	20:15	2.71	1881	5.3	13.6
	20:30	2.71	1879	5.39	13.6
	20:45	2.7	1876	5.42	13.6
	21:00	2.7	1875	5.38	13.6
	21:15	2.7	1878	5.42	13.6
	21:30	2.69	1865	5.46	13.6
	21:45	2.71	1881	5.8	13.6
	22:00	2.74	1902	6.02	13.6
	22:15	2.71	1883	5.96	13.6
	22:30	2.7	1876	6.01	13.6
	22:45	2.72	1888	6.12	13.6
	23:00	2.72	1887	6.02	13.6
	23:15	2.73	1894	6.16	13.6
	23:30	2.71	1884	6.04	13.6
	23:45	2.73	1893	6.08	13.6
2/11/2014	0:00	2.7	1872	6.42	13.6
	0:15	2.7	1877	6.11	13.6
	0:30	2.72	1890	5.81	13.6
	0:45	2.71	1885	5.58	13.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	1:00	2.7	1875	5.42	13.6
	1:15	2.71	1880	5.54	13.5
	1:30	2.7	1878	5.43	13.5
	1:45	2.69	1868	5.3	13.5
	2:00	2.7	1878	5.89	13.4
	2:15	2.7	1872	5.14	13.5
	2:30	2.71	1885	5.54	13.5
	2:45	2.7	1875	5.6	13.5
	3:00	2.71	1885	5.37	13.5
	3:15	2.68	1859	5.39	13.5
	3:30	2.69	1871	5.3	13.5
	3:45	2.7	1875	5.28	13.5
	4:00	2.7	1877	5.3	13.5
	4:15	2.69	1869	5.23	13.4
	4:30	2.71	1881	5.35	13.5
	4:45	2.69	1866	5.4	13.4
	5:00	2.71	1881	5.22	13.4
	5:15	2.69	1871	5.44	13.4
	5:30	2.7	1874	5.44	13.4
	5:45	2.7	1877	5.27	13.4
	6:00	2.7	1877	5.14	13.4
	6:15	2.7	1872	5.2	13.4
	6:30	2.7	1872	5.23	13.4
	6:45	2.71	1881	5.3	13.4
	7:00	2.74	1905	5.38	13.4
	7:15	2.71	1881	5.53	13.4
	7:30	2.7	1874	5.52	13.4
	7:45	2.72	1889	5.39	13.4
	8:00	2.71	1883	5.43	13.4
	8:15	2.7	1873	5.46	13.4
	8:30	2.69	1866	5.48	13.4
	8:45	2.69	1870	5.29	13.4
	9:00	2.69	1871	3.06	13.4
	9:15	2.72	1886	3.17	13.4
	9:30	2.71	1883	3.14	13.4
	9:45	2.7	1878	3.11	13.4
	10:00	2.7	1878	3.3	13.4
	10:15	2.69	1870	3.28	13.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	10:30	2.74	1901	3.35	13.4
	10:45	2.72	1891	3.33	13.4
	11:00	2.71	1881	3.28	13.4
	11:15	2.71	1885	3.42	13.4
	11:30	2.71	1881	3.37	13.4
	11:45	2.73	1894	3.31	13.4
	12:00	2.71	1880	3.31	13.4
	12:15	2.69	1869	3.26	13.4
	12:30	2.72	1886	3.2	13.4
	12:45	2.7	1872	3.17	13.4
	13:00	2.7	1875	3.13	13.4
	13:15	2.71	1882	3.27	13.4
	13:30	2.69	1868	3.24	13.4
	13:45	2.68	1862	3.16	13.4
	14:00	2.71	1883	3.33	13.4
	14:15	2.72	1891	3.29	13.4
	14:30	2.69	1869	3.18	13.4
	14:45	2.69	1868	3.23	13.4
	15:00	2.71	1882	3.29	13.5
	15:15	2.72	1892	3.42	13.5
	15:30	2.7	1878	3.45	13.5
	15:45	2.71	1884	3.39	13.5
	16:00	2.7	1875	3.52	13.5
	16:15	2.7	1876	3.59	13.5
	16:30	2.72	1888	3.56	13.5
	16:45	2.69	1866	3.68	13.6
	17:00	2.7	1878	3.6	13.5
	17:15	2.72	1887	3.62	13.5
	17:30	2.71	1885	3.71	13.5
	17:45	2.73	1898	3.66	13.6
	18:00	2.71	1880	3.74	13.6
	18:15	2.73	1894	3.8	13.6
	18:30	2.72	1888	3.81	13.6
	18:45	2.7	1874	3.86	13.6
	19:00	2.72	1886	3.83	13.6
	19:15	2.68	1860	3.88	13.6
	19:30	2.7	1875	3.89	13.6
	19:45	2.69	1866	3.84	13.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	20:00	2.72	1888	3.89	13.6
	20:15	2.72	1889	3.9	13.6
	20:30	2.71	1879	3.99	13.6
	20:45	2.71	1882	4.21	13.6
	21:00	2.71	1884	3.93	13.6
	21:15	2.71	1879	3.92	13.6
	21:30	2.72	1890	4	13.6
	21:45	2.71	1885	3.94	13.6
	22:00	2.72	1891	4.09	13.6
	22:15	2.72	1890	4.15	13.6
	22:30	2.7	1874	4.08	13.6
	22:45	2.69	1869	4.01	13.6
	23:00	2.71	1882	3.98	13.6
	23:15	2.71	1882	4	13.6
	23:30	2.72	1886	4.12	13.6
	23:45	2.69	1868	4.01	13.6
2/12/2014	0:00	2.71	1882	4.06	13.6
	0:15	2.72	1888	4.14	13.7
	0:30	2.72	1888	4.13	13.7
	0:45	2.7	1875	4.26	13.7
	1:00	2.69	1869	4.32	13.7
	1:15	2.71	1885	4.26	13.7
	1:30	2.73	1894	4.25	13.7
	1:45	2.71	1882	4.26	13.7
	2:00	2.71	1885	3.97	13.6
	2:15	2.72	1890	3.5	13.6
	2:30	2.7	1872	3.39	13.7
	2:45	2.71	1883	3.48	13.7
	3:00	2.71	1879	3.45	13.7
	3:15	2.71	1885	3.54	13.7
	3:30	2.7	1873	3.53	13.7
	3:45	2.71	1883	3.52	13.7
	4:00	2.69	1865	3.6	13.7
	4:15	2.7	1873	3.64	13.7
	4:30	2.72	1891	3.6	13.7
	4:45	2.69	1867	3.6	13.7
	5:00	2.72	1886	3.51	13.7
	5:15	2.73	1895	3.54	13.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	5:30	2.71	1882	3.49	13.7
	5:45	2.71	1881	3.45	13.7
	6:00	2.69	1871	3.59	13.7
	6:15	2.71	1881	3.6	13.7
	6:30	2.71	1883	3.57	13.7
	6:45	2.72	1890	3.64	13.7
	7:00	2.7	1872	3.67	13.6
	7:15	2.7	1873	3.76	13.6
	7:30	2.71	1883	3.73	13.6
	7:45	2.71	1883	3.62	13.6
	8:00	2.69	1869	3.78	13.6
	8:15	2.7	1877	3.8	13.7
	8:30	2.71	1881	3.76	13.7
	8:45	2.69	1870	3.77	13.7
	9:00	2.71	1885	3.62	13.7
	9:15	2.72	1888	3.52	13.7
	9:30	2.69	1869	3.53	13.8
	9:45	2.72	1891	3.4	13.8
	10:00	2.71	1879	3.38	13.8
	10:15	2.67	1857	3.31	13.8
	10:30	2.67	1855	3.17	13.8
	10:45	2.69	1866	3.14	13.9
	11:00	2.67	1854	3.1	13.9
	11:15	2.7	1872	3.08	13.9
	11:30	2.69	1871	3.05	14
	11:45	2.69	1870	3.04	14
	12:00	2.68	1863	3.11	14
	12:15	2.68	1863	2.94	14.1
	12:30	2.68	1859	2.91	14.1
	12:45	2.69	1871	2.96	14.2
	13:00	2.69	1870	2.94	14.2
	13:15	2.71	1881	2.85	14.2
	13:30	2.7	1875	2.89	14.2
	13:45	2.71	1879	2.62	14.2
	14:00	2.7	1876	2.58	14.3
	14:15	2.69	1867	2.53	14.3
	14:30	2.69	1870	2.45	14.4
	14:45	2.71	1883	2.54	14.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	15:00	2.72	1889	2.55	14.4
	15:15	2.71	1884	2.57	14.4
	15:30	2.71	1881	2.71	14.4
	15:45	2.7	1876	2.73	14.5
	16:00	2.72	1890	2.83	14.5
	16:15	2.72	1889	3.11	14.5
	16:30	2.72	1888	3.29	14.5
	16:45	2.68	1863	3.51	14.5
	17:00	2.69	1870	3.71	14.5
	17:15	2.67	1851	3.57	14.5
	17:30	2.69	1866	3.53	14.5
	17:45	2.69	1865	3.48	14.5
	18:00	2.67	1856	3.58	14.6
	18:15	2.69	1870	3.54	14.6
	18:30	2.69	1868	3.33	14.5
	18:45	2.69	1866	3.53	14.6
	19:00	2.71	1881	3.9	14.6
	19:15	2.69	1869	3.88	14.6
	19:30	2.69	1866	3.9	14.6
	19:45	2.71	1883	3.9	14.6
	20:00	2.69	1865	3.93	14.6
	20:15	2.7	1874	3.94	14.6
	20:30	2.72	1887	4.06	14.6
	20:45	2.72	1889	4.08	14.6
	21:00	2.71	1884	4.11	14.6
	21:15	2.73	1895	4.02	14.6
	21:30	2.7	1872	4.15	14.6
	21:45	2.69	1869	4.17	14.6
	22:00	2.7	1875	4.04	14.6
	22:15	2.7	1875	3.97	14.6
	22:30	2.69	1867	3.94	14.6
	22:45	2.71	1879	3.95	14.6
	23:00	2.71	1884	4.03	14.5
	23:15	2.72	1891	3.97	14.6
	23:30	2.71	1880	4.04	14.5
	23:45	2.71	1882	3.94	14.5
2/13/2014	0:00	2.7	1876	3.94	14.5
	0:15	2.71	1880	4.05	14.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	0:30	2.72	1891	4.1	14.5
	0:45	2.7	1876	4.28	14.5
	1:00	2.71	1882	4.35	14.5
	1:15	2.7	1874	4.26	14.5
	1:30	2.71	1882	4.3	14.5
	1:45	2.72	1890	4.27	14.5
	2:00	2.72	1887	3.84	14.4
	2:15	2.72	1889	3.74	14.5
	2:30	2.72	1892	3.74	14.5
	2:45	2.73	1898	3.8	14.4
	3:00	2.72	1887	3.77	14.4
	3:15	2.71	1884	3.81	14.4
	3:30	2.72	1886	3.83	14.4
	3:45	2.72	1890	3.83	14.4
	4:00	2.7	1876	3.75	14.4
	4:15	2.7	1875	3.82	14.4
	4:30	2.72	1887	3.85	14.4
	4:45	2.72	1886	3.9	14.4
	5:00	2.7	1873	3.86	14.4
	5:15	2.69	1867	3.87	14.4
	5:30	2.7	1873	3.96	14.4
	5:45	2.69	1871	3.94	14.4
	6:00	2.72	1887	3.83	14.4
	6:15	2.7	1873	3.96	14.4
	6:30	2.71	1880	3.96	14.4
	6:45	2.71	1884	3.88	14.4
	7:00	2.7	1877	3.92	14.3
	7:15	2.7	1876	3.95	14.3
	7:30	2.72	1889	3.99	14.3
	7:45	2.7	1877	3.96	14.3
	8:00	2.71	1879	3.95	14.3
	8:15	2.72	1886	4.04	14.3
	8:30	2.73	1896	3.89	14.4
	8:45	2.71	1881	3.91	14.4
	9:00	2.71	1884	3.8	14.4
	9:15	2.72	1892	3.8	14.4
	9:30	2.7	1876	3.77	14.4
	9:45	2.71	1879	3.58	14.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	10:00	2.72	1888	3.4	14.4
	10:15	2.72	1889	3.35	14.5
	10:30	2.73	1897	3.2	14.5
	10:45	2.7	1877	3.15	14.6
	11:00	2.71	1884	3.13	14.6
	11:15	2.7	1876	3.07	14.6
	11:30	2.71	1881	3.07	14.6
	11:45	2.72	1892	3.01	14.6
	12:00	2.73	1894	3.02	14.6
	12:15	2.71	1882	3.08	14.6
	12:30	2.73	1895	3.05	14.6
	12:45	2.7	1878	3.08	14.6
	13:00	2.72	1891	3.08	14.6
	13:15	2.72	1887	3.09	14.6
	13:30	2.73	1894	3.15	14.6
	13:45	2.72	1892	3.11	14.6
	14:00	2.74	1903	2.75	14.4
	14:15	2.71	1885	2.74	15
	14:30	2.71	1884	2.78	15.1
	14:45	2.74	1906	2.75	15.1
	15:00	2.72	1892	2.83	15.1
	15:15	2.73	1897	2.91	15.2
	15:30	2.75	1907	2.92	15.2
	15:45	2.73	1893	2.88	15.2
	16:00	2.74	1901	2.93	15.2
	16:15	2.73	1896	3.02	15.2
	16:30	2.73	1898	3.07	15.2
	16:45	2.73	1894	3.02	15.2
	17:00	2.76	1914	3.06	15.2
	17:15	2.73	1899	2.98	15.2
	17:30	2.73	1893	3.13	15.2
	17:45	2.73	1897	3.16	15.2
	18:00	2.72	1886	3.22	15.2
	18:15	2.7	1875	3.43	15.2
	18:30	2.68	1863	3.63	15.2
	18:45	2.72	1887	3.55	15.2
	19:00	2.71	1881	3.58	15.2
	19:15	2.71	1881	3.59	15.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	19:30	2.67	1856	3.62	15.2
	19:45	2.7	1873	3.59	15.2
	20:00	2.73	1893	3.58	15.2
	20:15	2.71	1883	3.62	15.2
	20:30	2.7	1875	3.67	15.2
	20:45	2.69	1871	3.6	15.2
	21:00	2.71	1879	3.72	15.2
	21:15	2.72	1888	3.71	15.2
	21:30	2.71	1880	3.74	15.2
	21:45	2.72	1886	3.74	15.2
	22:00	2.73	1894	3.76	15.2
	22:15	2.7	1875	3.83	15.2
	22:30	2.71	1882	3.83	15.2
	22:45	2.72	1888	3.77	15.2
	23:00	2.71	1881	3.87	15.2
	23:15	2.71	1882	3.95	15.2
	23:30	2.7	1878	3.95	15.2
	23:45	2.68	1862	3.95	15.2
2/14/2014	0:00	2.69	1869	3.96	15.2
	0:15	2.71	1879	3.94	15.2
	0:30	2.7	1874	4.04	15.2
	0:45	2.71	1883	3.97	15.2
	1:00	2.68	1864	4.08	15.2
	1:15	2.7	1878	4.09	15.2
	1:30	2.73	1893	4.11	15.2
	1:45	2.72	1887	3.89	15.2
	2:00	2.69	1866	3.43	15.2
	2:15	2.73	1896	3.56	15.2
	2:30	2.7	1877	3.63	15.2
	2:45	2.68	1864	3.73	15.2
	3:00	2.7	1873	3.84	15.2
	3:15	2.72	1892	3.84	15.2
	3:30	2.72	1891	3.77	15.2
	3:45	2.72	1889	3.85	15.2
	4:00	2.71	1881	3.84	15.1
	4:15	2.72	1889	3.9	15.1
	4:30	2.68	1864	3.91	15.1
	4:45	2.69	1870	3.96	15.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	5:00	2.71	1883	4.05	15.1
	5:15	2.7	1878	4.12	15.1
	5:30	2.72	1888	4.07	15.1
	5:45	2.72	1889	4.16	15.1
	6:00	2.69	1869	4.14	15.1
	6:15	2.7	1872	4.19	15.1
	6:30	2.69	1865	4.04	15.1
	6:45	2.69	1871	3.98	15.1
	7:00	2.71	1881	3.95	15.1
	7:15	2.69	1871	3.94	15
	7:30	2.7	1874	3.93	15
	7:45	2.71	1881	3.99	15
	8:00	2.7	1876	3.6	15
	8:15	2.7	1873	3.15	15
	8:30	2.71	1884	3.01	15
	8:45	2.7	1874	2.99	15
	9:00	2.72	1888	2.96	15
	9:15	2.73	1896	3.12	15
	9:30	2.74	1901	3.09	15.1
	9:45	2.72	1889	3.1	15.1
	10:00	2.71	1879	3.08	15.1
	10:15	2.72	1888	3.13	15.1
	10:30	2.7	1877	3.23	15.1
	10:45	2.72	1891	3.35	15.2
	11:00	2.74	1905	3.3	15.2
	11:15	2.73	1894	3.26	15.2
	11:30	2.75	1907	3.22	15.2
	11:45	2.73	1895	3.19	15.3
	12:00	2.74	1900	3.18	15.3
	12:15	2.71	1883	3.2	15.3
	12:30	2.74	1904	3.21	15.3
	12:45	2.72	1890	3.25	15.4
	13:00	2.71	1881	3.01	15.4
	13:15	2.71	1881	2.96	15.4
	13:30	2.72	1890	2.85	15.4
	13:45	2.72	1887	2.92	15.5
	14:00	2.75	1910	2.89	15.5
	14:15	2.72	1889	2.83	15.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	14:30	2.74	1903	2.9	15.5
	14:45	2.75	1908	2.9	15.5
	15:00	2.73	1895	3.03	15.5
	15:15	2.73	1897	3.03	15.6
	15:30	2.73	1893	3.01	15.6
	15:45	2.73	1893	3.2	15.6
	16:00	2.73	1896	3.26	15.6
	16:15	2.72	1891	3.14	15.6
	16:30	2.75	1908	3.18	15.6
	16:45	2.74	1905	3.1	15.6
	17:00	2.73	1899	3.17	15.6
	17:15	2.69	1869	3.17	15.6
	17:30	2.73	1894	3.21	15.6
	17:45	2.72	1886	3.25	15.6
	18:00	2.7	1872	3.32	15.6
	18:15	2.69	1866	3.46	15.6
	18:30	2.71	1881	3.75	15.6
	18:45	2.68	1863	3.82	15.6
	19:00	2.71	1880	3.88	15.6
	19:15	2.69	1867	3.9	15.6
	19:30	2.69	1869	3.78	15.6
	19:45	2.7	1877	3.65	15.6
	20:00	2.7	1876	3.66	15.6
	20:15	2.7	1874	3.73	15.6
	20:30	2.71	1879	3.86	15.6
	20:45	2.72	1889	3.93	15.6
	21:00	2.7	1876	3.98	15.6
	21:15	2.71	1881	4.03	15.5
	21:30	2.7	1877	4.07	15.5
	21:45	2.72	1888	4.17	15.5
	22:00	2.72	1889	4.18	15.5
	22:15	2.7	1873	4.14	15.5
	22:30	2.69	1868	4.22	15.5
	22:45	2.72	1886	4.21	15.5
	23:00	2.69	1868	4.28	15.5
	23:15	2.7	1873	4.34	15.5
	23:30	2.71	1883	4.33	15.5
	23:45	2.72	1889	4.35	15.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
2/15/2014	0:00	2.68	1860	4.24	15.5
	0:15	2.69	1867	4.19	15.5
	0:30	2.7	1876	4.3	15.4
	0:45	2.69	1866	4.35	15.4
	1:00	2.7	1875	4.31	15.4
	1:15	2.69	1871	4.39	15.4
	1:30	2.69	1867	4.41	15.4
	1:45	2.69	1871	4.39	15.4
	2:00	2.7	1875	4.41	15.4
	2:15	2.7	1878	4.38	15.4
	2:30	2.68	1863	4.53	15.4
	2:45	2.69	1865	4.49	15.4
	3:00	2.7	1877	4.42	15.3
	3:15	2.7	1874	4.01	15.3
	3:30	2.7	1872	3.4	15.3
	3:45	2.7	1876	3.42	15.3
	4:00	2.69	1869	3.49	15.3
	4:15	2.7	1878	3.53	15.3
	4:30	2.7	1873	3.59	15.3
	4:45	2.72	1887	3.62	15.3
	5:00	2.73	1893	3.55	15.3
	5:15	2.69	1871	3.69	15.3
	5:30	2.69	1866	3.7	15.3
	5:45	2.7	1872	3.76	15.2
	6:00	2.72	1886	3.74	15.2
	6:15	2.7	1873	3.76	15.2
	6:30	2.68	1864	3.88	15.2
	6:45	2.69	1866	3.88	15.2
	7:00	2.71	1884	3.83	15.2
	7:15	2.71	1883	3.89	15.2
	7:30	2.71	1884	3.83	15.2
	7:45	2.7	1877	3.87	15.2
	8:00	2.7	1872	3.85	15.2
	8:15	2.68	1862	3.81	15.2
	8:30	2.71	1880	3.86	15.2
	8:45	2.71	1883	3.81	15.2
	9:00	2.7	1877	3.65	15.2
	9:15	2.7	1878	3.54	15.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	9:30	2.7	1877	3.29	15.2
	9:45	2.68	1859	3.22	15.2
	10:00	2.7	1872	3.09	15.2
	10:15	2.72	1888	3.05	15.2
	10:30	2.73	1897	3.37	15.3
	10:45	2.71	1884	3.43	15.3
	11:00	2.72	1887	3.25	15.4
	11:15	2.7	1874	3.14	15.4
	11:30	2.71	1881	2.95	15.4
	11:45	2.73	1896	2.9	15.4
	12:00	2.72	1890	2.86	15.4
	12:15	2.71	1885	2.88	15.4
	12:30	2.73	1895	2.94	15.5
	12:45	2.74	1904	2.89	15.5
	13:00	2.73	1893	2.83	15.5
	13:15	2.7	1875	2.95	15.5
	13:30	2.72	1889	2.87	15.5
	13:45	2.72	1887	2.81	15.6
	14:00	2.72	1891	2.86	15.6
	14:15	2.71	1884	2.81	15.6
	14:30	2.72	1892	2.86	15.6
	14:45	2.72	1888	2.86	15.7
	15:00	2.74	1902	2.86	15.7
	15:15	2.74	1900	2.87	15.7
	15:30	2.74	1901	2.4	15.7
	15:45	2.75	1908	2.25	15.8
	16:00	2.72	1889	2.26	15.8
	16:15	2.73	1897	2.34	15.7
	16:30	2.73	1899	2.29	15.8
	16:45	2.73	1897	2.31	15.8
	17:00	2.75	1908	2.34	15.8
	17:15	2.73	1897	2.42	15.8
	17:30	2.73	1894	2.47	15.7
	17:45	2.72	1887	2.53	15.7
	18:00	2.73	1897	2.67	15.7
	18:15	2.7	1873	2.91	15.7
	18:30	2.69	1868	2.97	15.7
	18:45	2.72	1892	3.04	15.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	19:00	2.72	1887	3.09	15.7
	19:15	2.72	1888	3.28	15.8
	19:30	2.72	1887	3.49	15.8
	19:45	2.71	1881	3.42	15.7
	20:00	2.7	1872	3.32	15.7
	20:15	2.71	1882	3.35	15.7
	20:30	2.73	1897	3.33	15.7
	20:45	2.71	1880	3.44	15.7
	21:00	2.71	1884	3.47	15.7
	21:15	2.71	1882	3.46	15.7
	21:30	2.71	1883	3.49	15.6
	21:45	2.72	1886	3.49	15.6
	22:00	2.72	1888	3.53	15.6
	22:15	2.69	1871	3.6	15.6
	22:30	2.7	1875	3.64	15.6
	22:45	2.69	1869	3.74	15.6
	23:00	2.7	1875	3.7	15.6
	23:15	2.72	1887	3.74	15.6
	23:30	2.72	1890	3.83	15.6
	23:45	2.71	1885	3.84	15.6
2/16/2014	0:00	2.73	1893	3.89	15.6
	0:15	2.73	1895	3.92	15.6
	0:30	2.71	1880	3.9	15.6
	0:45	2.7	1875	3.99	15.6
	1:00	2.7	1877	3.96	15.5
	1:15	2.7	1878	4.02	15.5
	1:30	2.71	1883	4.01	15.5
	1:45	2.72	1888	3.54	15.5
	2:00	2.72	1892	1.47	15.5
	2:15	2.71	1879	1.41	15.5
	2:30	2.72	1888	1.39	15.5
	2:45	2.71	1881	1.4	15.5
	3:00	2.71	1884	1.36	15.5
	3:15	2.7	1874	1.24	15.5
	3:30	2.71	1883	1.22	15.5
	3:45	2.73	1893	1.23	15.4
	4:00	2.7	1875	1.26	15.4
	4:15	2.72	1889	1.3	15.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	4:30	2.69	1866	1.36	15.4
	4:45	2.7	1873	1.43	15.4
	5:00	2.71	1883	1.46	15.4
	5:15	2.71	1881	1.67	15.4
	5:30	2.71	1879	1.91	15.4
	5:45	2.72	1891	1.91	15.4
	6:00	2.7	1875	2.03	15.4
	6:15	2.69	1869	1.96	15.4
	6:30	2.72	1887	2.09	15.4
	6:45	2.72	1889	2.02	15.3
	7:00	2.7	1873	2.14	15.3
	7:15	2.73	1893	2.26	15.3
	7:30	2.71	1879	2.29	15.3
	7:45	2.7	1876	2.53	15.3
	8:00	2.73	1898	2.57	15.3
	8:15	2.73	1894	2.75	15.3
	8:30	2.72	1891	3.05	15.3
	8:45	2.72	1888	2.76	15.3
	9:00	2.74	1903	3.07	15.4
	9:15	2.7	1874	2.75	15.4
	9:30	2.73	1894	2.77	15.4
	9:45	2.73	1895	2.52	15.4
	10:00	2.72	1892	2.63	15.4
	10:15	2.72	1889	2.73	15.5
	10:30	2.73	1899	3.07	15.5
	10:45	2.74	1903	3	15.5
	11:00	2.75	1911	2.29	15.6
	11:15	2.72	1887	2.41	15.6
	11:30	2.74	1901	2.35	15.7
	11:45	2.74	1901	2.32	15.7
	12:00	2.75	1906	2.26	15.8
	12:15	2.75	1910	2.06	15.8
	12:30	2.74	1904	2.13	15.8
	12:45	2.74	1905	2.27	15.9
	13:00	2.73	1898	2.42	16
	13:15	2.73	1894	2.64	16
	13:30	2.75	1911	2.48	16
	13:45	2.74	1902	2.61	16.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	14:00	2.74	1901	2.63	16.1
	14:15	2.74	1903	2.63	16.1
	14:30	2.75	1909	2.59	16.2
	14:45	2.74	1903	2.62	16.2
	15:00	2.73	1895	2.66	16.2
	15:15	2.75	1909	2.7	16.2
	15:30	2.77	1921	2.73	16.3
	15:45	2.77	1921	2.83	16.3
	16:00	2.74	1906	3.63	16.3
	16:15	2.76	1916	3.43	16.3
	16:30	2.78	1929	3.3	16.3
	16:45	2.75	1911	3.47	16.3
	17:00	2.76	1917	3.19	16.2
	17:15	2.74	1903	3.35	16.2
	17:30	2.74	1905	3.43	16.2
	17:45	2.71	1885	3.5	16.2
	18:00	2.74	1905	3.72	16.2
	18:15	2.73	1897	3.81	16.2
	18:30	2.74	1903	4.02	16.2
	18:45	2.72	1890	4.18	16.2
	19:00	2.72	1891	4.49	16.2
	19:15	2.73	1896	4.06	16.2
	19:30	2.73	1894	4.5	16.2
	19:45	2.74	1900	4.95	16.2
	20:00	2.73	1899	5.5	16.2
	20:15	2.74	1900	5.94	16.2
	20:30	2.72	1891	5.83	16.2
	20:45	2.73	1899	5.76	16.2
	21:00	2.72	1887	5.76	16.2
	21:15	2.71	1882	5.2	16.2
	21:30	2.73	1898	4.71	16.2
	21:45	2.72	1890	4.7	16.2
	22:00	2.72	1892	4.39	16.2
	22:15	2.72	1888	4.26	16.2
	22:30	2.72	1890	4.29	16.2
	22:45	2.71	1882	4.66	16.2
	23:00	2.7	1878	4.36	16.2
	23:15	2.72	1887	3.88	16.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	23:30	2.73	1893	3.41	16.2
	23:45	2.71	1884	3.26	16.2
2/17/2014	0:00	2.72	1889	3.34	16.2
	0:15	2.71	1884	3.76	16.2
	0:30	2.71	1880	3.4	16.1
	0:45	2.7	1877	3.18	16.1
	1:00	2.69	1870	3.31	16.1
	1:15	2.73	1899	3.44	16.1
	1:30	2.7	1877	3.53	16.1
	1:45	2.7	1878	3.67	16.1
	2:00	2.71	1881	3.43	16.1
	2:15	2.72	1891	3.24	16.1
	2:30	2.72	1886	3.26	16.1
	2:45	2.69	1870	3.23	16.1
	3:00	2.72	1887	3.39	16.1
	3:15	2.73	1894	3.72	16.1
	3:30	2.71	1879	3.42	16.1
	3:45	2.72	1886	3.42	16.1
	4:00	2.72	1886	3.66	16.1
	4:15	2.7	1876	3.7	16
	4:30	2.73	1899	3.35	16
	4:45	2.72	1886	3.29	16
	5:00	2.71	1881	3.81	16
	5:15	2.73	1896	10.8	16
	5:30	2.7	1873	4.21	16
	5:45	2.71	1880	3.85	16
	6:00	2.7	1876	2.99	16
	6:15	2.7	1877	2.09	15.9
	6:30	2.71	1880	1.56	15.9
	6:45	2.71	1879	1.72	15.9
	7:00	2.7	1878	1.67	15.9
	7:15	2.69	1869	2.96	15.9
	7:30	2.7	1875	2.02	15.9
	7:45	2.72	1890	1.7	15.9
	8:00	2.71	1881	1.55	15.8
	8:15	2.73	1897	1.54	15.8
	8:30	2.72	1892	1.58	15.8
	8:45	2.71	1880	1.55	15.9

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	9:00	2.73	1898	1.56	15.8
	9:15	2.72	1891	1.58	15.9
	9:30	2.75	1907	3.31	15.9
	9:45	2.74	1903	2.01	15.9
	10:00	2.74	1901	1.63	15.9
	10:15	2.71	1881	1.68	15.9
	10:30	2.73	1894	3.52	15.9
	10:45	2.72	1891	4.69	15.9
	11:00	2.74	1900	1.92	15.9
	11:15	2.73	1898	1.82	16
	11:30	2.74	1906	1.8	16
	11:45	2.73	1897	1.75	16
	12:00	2.74	1901	1.75	16
	12:15	2.75	1906	1.74	16.1
	12:30	2.72	1890	1.71	16.1
	12:45	2.71	1884	1.66	16.1
	13:00	2.72	1891	1.65	16.1
	13:15	2.74	1904	1.62	16.2
	13:30	2.74	1905	1.61	16.2
	13:45	2.72	1887	1.55	16.2
	14:00	2.72	1888	1.88	16.2
	14:15	2.73	1896	1.89	16.2
	14:30	2.73	1897	1.82	16.2
	14:45	2.73	1898	1.76	16.3
	15:00	2.77	1921	1.79	16.3
	15:15	2.74	1900	1.82	16.3
	15:30	2.74	1902	1.93	16.3
	15:45	2.72	1888	1.95	16.3
	16:00	2.76	1916	2.05	16.3
	16:15	2.74	1903	2.03	16.3
	16:30	2.73	1894	2.06	16.3
	16:45	2.72	1890	1.99	16.3
	17:00	2.72	1888	1.88	16.3
	17:15	2.72	1890	1.89	16.3
	17:30	2.7	1873	1.86	16.3
	17:45	2.69	1867	1.9	16.3
	18:00	2.72	1888	1.92	16.3
	18:15	2.7	1876	2.02	16.3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	18:30	2.68	1858	2.02	16.3
	18:45	2.72	1888	2.01	16.3
	19:00	2.71	1880	2.03	16.3
	19:15	2.71	1884	2.14	16.3
	19:30	2.69	1867	2.12	16.3
	19:45	2.72	1886	2.11	16.2
	20:00	2.68	1860	2.13	16.2
	20:15	2.68	1862	2.12	16.2
	20:30	2.72	1888	2.12	16.2
	20:45	2.71	1880	1.99	16.2
	21:00	2.69	1865	1.95	16.2
	21:15	2.69	1868	2.02	16.2
	21:30	2.69	1871	2.03	16.2
	21:45	2.69	1870	2.08	16.2
	22:00	2.72	1888	2.02	16.2
	22:15	2.71	1880	2.05	16.1
	22:30	2.7	1878	2.05	16.1
	22:45	2.71	1884	2.02	16.1
	23:00	2.7	1874	2.03	16.1
	23:15	2.69	1867	2.04	16.1
	23:30	2.71	1881	2.05	16.1
	23:45	2.7	1876	2.03	16.1
2/18/2014	0:00	2.7	1872	2.25	16.1
	0:15	2.71	1884	2.11	16.1
	0:30	2.71	1882	2.35	16
	0:45	2.69	1867	2.26	16
	1:00	2.7	1873	2.07	16
	1:15	2.69	1867	2.09	16
	1:30	2.7	1878	1.86	16
	1:45	2.69	1867	2.12	16
	2:00	2.72	1887	1.91	16
	2:15	2.68	1862	2.62	15.9
	2:30	2.7	1875	2.2	15.9
	2:45	2.69	1871	2.24	15.9
	3:00	2.7	1875	2.24	15.9
	3:15	2.69	1865	2.2	15.9
	3:30	2.71	1879	2.12	15.9
	3:45	2.7	1872	2.21	15.9

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	4:00	2.69	1869	2.26	15.9
	4:15	2.7	1878	2.25	15.9
	4:30	2.71	1883	2.25	15.8
	4:45	2.7	1878	2.21	15.8
	5:00	2.69	1868	2.3	15.8
	5:15	2.7	1874	2.33	15.8
	5:30	2.7	1878	2.22	15.8
	5:45	2.68	1860	2.29	15.8
	6:00	2.69	1868	2.33	15.8
	6:15	2.69	1868	2.35	15.8
	6:30	2.7	1875	2.35	15.8
	6:45	2.72	1887	2.3	15.7
	7:00	2.69	1867	2.27	15.7
	7:15	2.67	1854	2.2	15.7
	7:30	2.7	1876	2.05	15.7
	7:45	2.69	1871	2.28	15.7
	8:00	2.72	1889	2.39	15.7
	8:15	2.72	1886	2.42	15.7
	8:30	2.73	1895	2.43	15.7
	8:45	2.74	1900	2.45	15.7
	9:00	2.73	1893	2.49	15.8
	9:15	2.71	1880	2.37	15.8
	9:30	2.73	1897	2.34	15.8
	9:45	2.69	1870	2.38	15.8
	10:00	2.71	1883	2.33	15.8
	10:15	2.7	1877	2.28	15.8
	10:30	2.73	1895	2.25	15.8
	10:45	2.72	1888	2.17	15.9
	11:00	2.7	1877	2.14	15.9
	11:15	2.72	1890	2.1	15.9
	11:30	2.73	1894	2.07	16
	11:45	2.72	1890	2.25	16
	12:00	2.72	1888	2.17	16
	12:15	2.72	1891	2.1	16
	12:30	2.75	1910	2.05	16.1
	12:45	2.75	1906	2.06	16.1
	13:00	2.75	1910	2.1	16.2
	13:15	2.75	1909	2.08	16.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	13:30	2.75	1908	2.06	16.3
	13:45	2.74	1900	2.06	16.3
	14:00	2.76	1914	2.05	16.4
	14:15	2.74	1906	2.04	16.4
	14:30	2.74	1901	2.13	16.4
	14:45	2.75	1906	2.11	16.5
	15:00	2.74	1900	2.06	16.5
	15:15	2.74	1906	2.16	16.5
	15:30	2.74	1903	2.11	16.5
	15:45	2.75	1910	2.17	16.5
	16:00	2.74	1904	2.23	16.6
	16:15	2.75	1910	2.19	16.5
	16:30	2.75	1913	2.2	16.5
	16:45	2.75	1911	2.24	16.5
	17:00	2.75	1910	2.28	16.5
	17:15	2.74	1905	2.38	16.5
	17:30	2.74	1906	2.44	16.5
	17:45	2.73	1895	2.48	16.5
	18:00	2.71	1879	2.55	16.5
	18:15	2.71	1884	2.69	16.5
	18:30	2.72	1889	2.79	16.5
	18:45	2.7	1872	2.3	16.5
	19:00	2.71	1881	2.28	16.5
	19:15	2.7	1873	2.29	16.5
	19:30	2.71	1879	2.27	16.5
	19:45	2.71	1881	2.28	16.5
	20:00	2.7	1877	2.32	16.5
	20:15	2.71	1879	2.31	16.5
	20:30	2.7	1872	2.18	16.5
	20:45	2.7	1874	2.21	16.5
	21:00	2.72	1888	2.26	16.5
	21:15	2.71	1881	2.41	16.5
	21:30	2.71	1885	2.58	16.5
	21:45	2.73	1893	2.68	16.5
	22:00	2.71	1885	2.55	16.5
	22:15	2.69	1867	2.49	16.5
	22:30	2.7	1874	2.49	16.5
	22:45	2.7	1873	2.5	16.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	23:00	2.71	1882	2.54	16.5
	23:15	2.7	1875	2.59	16.5
	23:30	2.71	1880	2.59	16.5
	23:45	2.69	1870	2.56	16.5
2/19/2014	0:00	2.7	1875	2.6	16.5
	0:15	2.71	1883	2.62	16.5
	0:30	2.7	1876	2.63	16.5
	0:45	2.71	1881	2.65	16.5
	1:00	2.71	1882	2.66	16.5
	1:15	2.71	1885	2.71	16.5
	1:30	2.71	1884	2.71	16.5
	1:45	2.72	1888	2.71	16.5
	2:00	2.71	1884	2.67	16.5
	2:15	2.71	1885	2.32	16.5
	2:30	2.7	1875	2.29	16.5
	2:45	2.71	1881	2.32	16.5
	3:00	2.7	1877	2.37	16.4
	3:15	2.69	1869	2.42	16.5
	3:30	2.69	1866	2.41	16.5
	3:45	2.71	1881	2.41	16.4
	4:00	2.71	1879	2.4	16.4
	4:15	2.7	1875	2.43	16.4
	4:30	2.69	1869	2.45	16.4
	4:45	2.71	1881	2.46	16.4
	5:00	2.71	1885	2.48	16.4
	5:15	2.68	1864	2.48	16.4
	5:30	2.7	1872	2.43	16.4
	5:45	2.71	1881	2.43	16.4
	6:00	2.68	1863	2.4	16.4
	6:15	2.71	1880	2.45	16.4
	6:30	2.7	1875	2.45	16.4
	6:45	2.72	1889	2.48	16.4
	7:00	2.7	1873	2.46	16.4
	7:15	2.7	1872	2.48	16.4
	7:30	2.71	1885	2.4	16.3
	7:45	2.7	1878	2.35	16.3
	8:00	2.7	1873	2.44	16.3
	8:15	2.71	1885	2.46	16.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	8:30	2.7	1878	2.5	16.4
	8:45	2.7	1876	2.49	16.4
	9:00	2.71	1880	2.47	16.4
	9:15	2.7	1878	2.38	16.4
	9:30	2.69	1870	2.33	16.4
	9:45	2.72	1886	2.34	16.4
	10:00	2.71	1881	2.34	16.4
	10:15	2.71	1881	2.33	16.4
	10:30	2.71	1881	2.25	16.5
	10:45	2.7	1878	7.46	16.4
	11:00	2.72	1887	1.89	16.5
	11:15	2.73	1898	1.87	16.5
	11:30	2.72	1891	1.85	16.6
	11:45	2.75	1911	1.8	16.6
	12:00	2.74	1901	1.75	16.7
	12:15	2.72	1891	1.68	16.7
	12:30	2.71	1880	1.7	16.7
	12:45	2.74	1901	2.7	16.7
	13:00	2.73	1899	2.99	16.7
	13:15	2.71	1884	2.53	16.8
	13:30	2.76	1919	2.53	16.8
	13:45	2.75	1906	2.57	16.9
	14:00	2.74	1906	2.49	16.9
	14:15	2.74	1901	2.5	17
	14:30	2.73	1894	2.54	17
	14:45	2.73	1899	2.66	17
	15:00	2.72	1891	2.62	17
	15:15	2.75	1907	2.62	17
	15:30	2.73	1896	2.64	17
	15:45	2.74	1904	2.67	17.1
	16:00	2.71	1880	2.59	17.1
	16:15	2.73	1895	2.6	17.1
	16:30	2.73	1893	2.69	17
	16:45	2.73	1897	2.82	17
	17:00	2.72	1890	2.87	17
	17:15	2.72	1890	2.92	17
	17:30	2.72	1888	3.01	17
	17:45	2.72	1888	3.04	17

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	18:00	2.72	1888	3.02	17
	18:15	2.69	1868	3.02	17
	18:30	2.72	1888	3.06	17
	18:45	2.71	1883	3.11	17
	19:00	2.72	1891	3.12	17
	19:15	2.7	1875	3.18	17
	19:30	2.72	1888	3.19	17
	19:45	2.71	1883	3.17	17
	20:00	2.74	1900	3.34	17
	20:15	2.72	1889	3.43	17
	20:30	2.71	1885	3.33	17
	20:45	2.69	1868	3.25	17
	21:00	2.69	1866	3.12	17
	21:15	2.71	1884	3.04	17
	21:30	2.72	1886	2.98	17
	21:45	2.72	1888	3.02	17
	22:00	2.71	1883	3.05	17
	22:15	2.72	1888	3.08	17.1
	22:30	2.7	1877	3.13	17.1
	22:45	2.73	1895	3.22	17.1
	23:00	2.72	1886	3.25	17.1
	23:15	2.72	1889	3.29	17.1
	23:30	2.73	1894	3.34	17.1
	23:45	2.71	1885	3.21	17.1
2/20/2014	0:00	2.7	1877	3.19	17.1
	0:15	2.73	1896	3.2	17.1
	0:30	2.72	1887	3.22	17.1
	0:45	2.72	1889	3.3	17.1
	1:00	2.71	1884	3.31	17.1
	1:15	2.71	1884	3.44	17.1
	1:30	2.71	1881	3.56	17.1
	1:45	2.72	1886	3.63	17.1
	2:00	2.71	1883	3.18	17.1
	2:15	2.71	1882	3.19	17.1
	2:30	2.7	1875	3.11	17.1
	2:45	2.71	1879	3.07	17.1
	3:00	2.72	1891	3.07	17.1
	3:15	2.72	1887	3.08	17.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	3:30	2.73	1897	3.11	17.1
	3:45	2.72	1888	3.12	17.1
	4:00	2.71	1881	3.14	17.1
	4:15	2.71	1884	3.2	17.1
	4:30	2.71	1879	3.31	17.1
	4:45	2.69	1870	3.33	17.1
	5:00	2.68	1864	3.45	17.1
	5:15	2.74	1901	3.47	17.1
	5:30	2.7	1874	3.47	17.1
	5:45	2.73	1899	3.44	17.1
	6:00	2.71	1879	3.44	17.1
	6:15	2.7	1876	3.47	17.1
	6:30	2.72	1891	3.45	17.1
	6:45	2.71	1885	3.56	17.1
	7:00	2.72	1886	3.56	17.1
	7:15	2.71	1881	3.52	17
	7:30	2.71	1879	3.6	17
	7:45	2.69	1871	3.65	17
	8:00	2.71	1881	3.95	17
	8:15	2.69	1869	4.09	16.9
	8:30	2.72	1886	4.58	16.9
	8:45	2.73	1895	4.46	16.9
	9:00	2.74	1900	4.21	16.9
	9:15	2.71	1885	4.15	16.9
	9:30	2.72	1889	4.07	16.9
	9:45	2.73	1894	3.78	16.9
	10:00	2.71	1879	3.8	16.9
	10:15	2.72	1886	3.69	16.9
	10:30	2.7	1877	3.69	16.9
	10:45	2.7	1876	3.62	16.9
	11:00	2.71	1881	3.58	16.9
	11:15	2.71	1885	3.63	17
	11:30	2.7	1878	3.74	17
	11:45	2.7	1878	3.68	17
	12:00	2.72	1888	3.57	17
	12:15	2.72	1886	3.54	17
	12:30	2.71	1879	3.6	17
	12:45	2.72	1887	3.57	17.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	13:00	2.72	1887	3.59	17.1
	13:15	2.71	1882	3.54	17.1
	13:30	2.69	1869	3.57	17.1
	13:45	2.71	1882	3.57	17.1
	14:00	2.72	1891	2.97	17.1
	14:15	2.73	1896	3.03	17.2
	14:30	2.7	1878	3.04	17.2
	14:45	2.73	1893	3.05	17.2
	15:00	2.7	1874	3.11	17.2
	15:15	2.73	1894	3.18	17.2
	15:30	2.72	1890	3.12	17.2
	15:45	2.71	1882	3.11	17.2
	16:00	2.73	1896	3.14	17.2
	16:15	2.73	1896	3.15	17.2
	16:30	2.73	1895	3.18	17.1
	16:45	2.73	1894	3.19	17.1
	17:00	2.71	1885	3.29	17.1
	17:15	2.71	1881	3.4	17.1
	17:30	2.72	1887	3.49	17.1
	17:45	2.71	1879	3.51	17.1
	18:00	2.69	1870	3.51	17.1
	18:15	2.7	1872	3.73	17.1
	18:30	2.69	1869	3.82	17.1
	18:45	2.71	1880	3.87	17.1
	19:00	2.7	1878	4.01	17.1
	19:15	2.68	1864	4	17.1
	19:30	2.69	1866	4.08	17
	19:45	2.7	1874	4.08	17
	20:00	2.7	1873	4.14	17
	20:15	2.71	1883	4.23	17
	20:30	2.72	1886	4.25	17
	20:45	2.69	1869	4.24	17
	21:00	2.73	1893	4.31	17
	21:15	2.72	1887	4.35	17
	21:30	2.69	1867	4.16	16.9
	21:45	2.69	1866	4.04	16.9
	22:00	2.71	1881	4.13	16.9
	22:15	2.68	1863	4.24	16.9

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	22:30	2.68	1859	4.27	16.9
	22:45	2.71	1879	4.33	16.8
	23:00	2.69	1866	4.44	16.8
	23:15	2.69	1867	4.52	16.8
	23:30	2.69	1867	4.56	16.8
	23:45	2.68	1861	4.63	16.8
2/21/2014	0:00	2.68	1863	4.61	16.8
	0:15	2.69	1867	4.61	16.8
	0:30	2.71	1879	4.62	16.8
	0:45	2.71	1884	4.74	16.8
	1:00	2.69	1867	4.86	16.7
	1:15	2.7	1872	4.9	16.7
	1:30	2.68	1861	4.9	16.7
	1:45	2.69	1867	5.02	16.7
	2:00	2.69	1865	4.64	16.7
	2:15	2.72	1887	4.27	16.6
	2:30	2.69	1869	4.18	16.6
	2:45	2.71	1880	4.26	16.6
	3:00	2.7	1877	4.32	16.6
	3:15	2.7	1872	4.44	16.6
	3:30	2.7	1876	4.48	16.6
	3:45	2.7	1873	4.53	16.6
	4:00	2.7	1873	4.64	16.6
	4:15	2.7	1874	4.6	16.6
	4:30	2.71	1885	4.6	16.5
	4:45	2.69	1870	4.72	16.5
	5:00	2.69	1870	4.7	16.5
	5:15	2.69	1866	4.48	16.5
	5:30	2.67	1852	4.41	16.5
	5:45	2.68	1860	4.63	16.4
	6:00	2.7	1878	4.79	16.4
	6:15	2.68	1862	4.8	16.4
	6:30	2.68	1863	4.83	16.4
	6:45	2.69	1865	4.86	16.4
	7:00	2.7	1875	4.87	16.4
	7:15	2.69	1869	4.83	16.4
	7:30	2.7	1873	4.87	16.4
	7:45	2.68	1860	4.79	16.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	8:00	2.7	1872	4.72	16.3
	8:15	2.7	1875	4.6	16.3
	8:30	2.71	1879	4.57	16.3
	8:45	2.71	1880	4.53	16.3
	9:00	2.7	1872	4.55	16.4
	9:15	2.72	1888	4.52	16.4
	9:30	2.7	1874	4.51	16.4
	9:45	2.69	1866	4.3	16.4
	10:00	2.7	1877	4.29	16.4
	10:15	2.68	1864	4.11	16.4
	10:30	2.69	1867	4.23	16.4
	10:45	2.71	1881	3.99	16.4
	11:00	2.7	1877	3.88	16.5
	11:15	2.7	1873	3.89	16.5
	11:30	2.73	1893	3.96	16.5
	11:45	2.7	1875	3.92	16.5
	12:00	2.7	1875	3.76	16.5
	12:15	2.7	1877	3.7	16.6
	12:30	2.71	1880	3.63	16.6
	12:45	2.71	1882	2.78	16.6
	13:00	2.72	1890	2.49	16.7
	13:15	2.73	1895	2.42	16.7
	13:30	2.71	1884	2.37	16.7
	13:45	2.72	1888	2.35	16.7
	14:00	2.72	1888	2.44	16.7
	14:15	2.71	1881	2.49	16.7
	14:30	2.72	1888	2.63	16.6
	14:45	2.71	1885	2.65	16.7
	15:00	2.73	1893	2.71	16.7
	15:15	2.72	1887	2.66	16.8
	15:30	2.73	1897	2.72	16.8
	15:45	2.73	1896	2.64	16.8
	16:00	2.74	1906	2.7	16.8
	16:15	2.74	1905	2.7	16.8
	16:30	2.74	1903	2.71	16.8
	16:45	2.73	1894	2.82	16.8
	17:00	2.69	1869	2.85	16.7
	17:15	2.71	1885	2.85	16.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	17:30	2.7	1878	2.87	16.8
	17:45	2.71	1881	2.96	16.7
	18:00	2.68	1860	3	16.7
	18:15	2.69	1869	3.08	16.7
	18:30	2.7	1875	3.18	16.7
	18:45	2.71	1881	3.33	16.7
	19:00	2.69	1871	3.48	16.7
	19:15	2.72	1888	3.54	16.7
	19:30	2.69	1870	3.58	16.7
	19:45	2.72	1890	3.62	16.7
	20:00	2.71	1885	3.76	16.7
	20:15	2.71	1879	4.03	16.7
	20:30	2.71	1879	4.13	16.7
	20:45	2.71	1883	4.13	16.7
	21:00	2.72	1890	4.18	16.7
	21:15	2.7	1873	4.09	16.7
	21:30	2.68	1864	4.16	16.7
	21:45	2.69	1870	4.28	16.7
	22:00	2.7	1877	4.24	16.7
	22:15	2.7	1872	4.21	16.6
	22:30	2.7	1875	4.13	16.6
	22:45	2.69	1866	4.03	16.6
	23:00	2.69	1870	4.06	16.6
	23:15	2.68	1859	4.1	16.6
	23:30	2.71	1881	4.08	16.6
	23:45	2.69	1869	4.14	16.6
2/22/2014	0:00	2.7	1876	4.1	16.6
	0:15	2.69	1870	4.14	16.6
	0:30	2.7	1873	4.24	16.6
	0:45	2.69	1870	4.22	16.6
	1:00	2.7	1876	4.24	16.6
	1:15	2.73	1893	4.32	16.6
	1:30	2.67	1853	4.38	16.5
	1:45	2.67	1854	3.91	16.5
	2:00	2.69	1865	3.57	16.5
	2:15	2.71	1882	3.64	16.5
	2:30	2.69	1867	3.7	16.5
	2:45	2.68	1864	3.7	16.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	3:00	2.68	1863	3.72	16.5
	3:15	2.69	1867	3.84	16.5
	3:30	2.69	1870	3.9	16.5
	3:45	2.68	1860	3.95	16.4
	4:00	2.7	1873	3.87	16.4
	4:15	2.67	1854	3.88	16.4
	4:30	2.68	1858	3.84	16.4
	4:45	2.68	1863	3.82	16.4
	5:00	2.69	1865	3.85	16.4
	5:15	2.68	1863	3.95	16.4
	5:30	2.68	1862	4.05	16.4
	5:45	2.69	1866	4.15	16.4
	6:00	2.69	1866	4.12	16.4
	6:15	2.7	1876	4.19	16.4
	6:30	2.7	1877	4.18	16.4
	6:45	2.69	1868	4.16	16.4
	7:00	2.7	1874	4.21	16.4
	7:15	2.7	1876	4.2	16.3
	7:30	2.7	1874	4.19	16.3
	7:45	2.69	1866	4.16	16.3
	8:00	2.69	1870	4.13	16.3
	8:15	2.7	1875	4.09	16.3
	8:30	2.71	1885	4.1	16.3
	8:45	2.73	1894	4.01	16.3
	9:00	2.7	1877	3.98	16.3
	9:15	2.72	1892	3.8	16.3
	9:30	2.72	1888	3.52	16.3
	9:45	2.71	1881	3.38	16.4
	10:00	2.71	1881	3.35	16.4
	10:15	2.71	1884	3.3	16.4
	10:30	2.72	1892	3.29	16.5
	10:45	2.71	1881	3.27	16.5
	11:00	2.71	1881	3.18	16.5
	11:15	2.69	1868	3.06	16.6
	11:30	2.73	1893	2.9	16.6
	11:45	2.75	1908	2.77	16.7
	12:00	2.72	1891	2.91	16.7
	12:15	2.73	1894	3	16.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	12:30	2.71	1880	3.11	16.8
	12:45	2.74	1901	3.23	16.8
	13:00	2.73	1894	3.12	16.9
	13:15	2.74	1900	3.27	16.9
	13:30	2.73	1894	3.26	17
	13:45	2.73	1897	3.17	17
	14:00	2.72	1892	2.6	17
	14:15	2.73	1896	2.76	17
	14:30	2.73	1895	2.78	17.1
	14:45	2.75	1907	2.82	17.1
	15:00	2.74	1906	2.89	17.1
	15:15	2.74	1900	2.91	17.1
	15:30	2.73	1895	2.94	17.1
	15:45	2.73	1894	2.91	17.2
	16:00	2.75	1907	3.02	17.1
	16:15	2.74	1903	3.03	17.2
	16:30	2.75	1910	3.05	17.2
	16:45	2.74	1903	3.12	17.2
	17:00	2.73	1896	3.09	17.2
	17:15	2.74	1903	3.14	17.2
	17:30	2.74	1900	3.22	17.1
	17:45	2.72	1890	3.17	17.1
	18:00	2.7	1873	3.42	17.1
	18:15	2.7	1876	3.63	17.1
	18:30	2.7	1875	3.65	17.1
	18:45	2.7	1877	3.76	17.1
	19:00	2.69	1870	3.8	17.1
	19:15	2.68	1864	3.75	17.1
	19:30	2.68	1861	3.82	17.1
	19:45	2.67	1857	3.87	17.1
	20:00	2.68	1858	3.89	17.1
	20:15	2.68	1863	3.89	17.1
	20:30	2.69	1866	3.85	17.1
	20:45	2.7	1872	3.91	17
	21:00	2.68	1862	3.98	17
	21:15	2.7	1874	3.95	17
	21:30	2.69	1868	4.02	17
	21:45	2.67	1856	4.01	17

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	22:00	2.71	1881	4.02	17
	22:15	2.69	1866	4.07	17
	22:30	2.7	1875	4.02	17
	22:45	2.71	1881	4.06	17
	23:00	2.71	1885	4.19	17
	23:15	2.69	1870	4.16	17
	23:30	2.68	1861	4.22	17
	23:45	2.7	1875	4.26	17
2/23/2014	0:00	2.7	1874	4.3	17
	0:15	2.69	1868	4.42	17
	0:30	2.68	1863	4.41	17
	0:45	2.68	1862	4.5	17
	1:00	2.68	1861	4.61	17
	1:15	2.7	1873	4.6	16.9
	1:30	2.69	1869	4.63	16.9
	1:45	2.72	1887	4.72	16.9
	2:00	2.69	1868	4.28	16.9
	2:15	2.69	1867	4.03	16.9
	2:30	2.67	1854	4.07	16.9
	2:45	2.71	1879	4.04	16.9
	3:00	2.7	1874	4.04	16.9
	3:15	2.68	1864	4	16.9
	3:30	2.71	1884	4.05	16.9
	3:45	2.67	1853	4.1	16.9
	4:00	2.71	1881	4.25	16.9
	4:15	2.7	1875	4.28	16.8
	4:30	2.71	1879	4.34	16.8
	4:45	2.69	1865	4.32	16.8
	5:00	2.68	1861	4.11	16.8
	5:15	2.67	1853	3.86	16.8
	5:30	2.67	1851	3.79	16.7
	5:45	2.69	1867	3.86	16.7
	6:00	2.69	1869	4.03	16.7
	6:15	2.69	1868	4.32	16.7
	6:30	2.67	1851	4.4	16.7
	6:45	2.69	1865	4.39	16.7
	7:00	2.7	1874	4.39	16.7
	7:15	2.69	1865	4.19	16.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	7:30	2.68	1862	4.13	16.6
	7:45	2.68	1864	4.26	16.6
	8:00	2.69	1865	4.06	16.6
	8:15	2.71	1882	4.13	16.6
	8:30	2.67	1857	4.07	16.6
	8:45	2.71	1880	4.16	16.5
	9:00	2.69	1869	3.89	16.5
	9:15	2.69	1869	3.8	16.5
	9:30	2.67	1857	3.61	16.5
	9:45	2.69	1865	3.55	16.5
	10:00	2.68	1863	3.65	16.5
	10:15	2.7	1872	3.72	16.6
	10:30	2.7	1873	3.73	16.6
	10:45	2.7	1874	3.71	16.6
	11:00	2.7	1873	3.65	16.6
	11:15	2.7	1872	3.67	16.7
	11:30	2.7	1874	3.71	16.7
	11:45	2.68	1864	3.7	16.7
	12:00	2.73	1899	3.8	16.7
	12:15	2.71	1880	3.72	16.8
	12:30	2.69	1866	3.62	16.8
	12:45	2.7	1873	3.66	16.8
	13:00	2.72	1887	3.65	16.8
	13:15	2.72	1886	3.54	16.9
	13:30	2.7	1877	3.49	16.9
	13:45	2.71	1882	3.49	16.9
	14:00	2.74	1905	3.45	16.9
	14:15	2.71	1882	3.48	16.9
	14:30	2.72	1887	2.76	16.9
	14:45	2.71	1885	2.83	17
	15:00	2.72	1887	2.86	17
	15:15	2.71	1881	2.88	17
	15:30	2.7	1874	2.88	17
	15:45	2.72	1892	2.95	17
	16:00	2.72	1890	2.98	17
	16:15	2.73	1893	3.06	17
	16:30	2.71	1881	3.08	17
	16:45	2.71	1884	3.08	17

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	17:00	2.72	1888	3.08	17
	17:15	2.7	1874	3.11	17
	17:30	2.71	1881	3.14	17
	17:45	2.7	1877	3.3	17
	18:00	2.67	1856	3.32	17
	18:15	2.65	1842	3.41	17
	18:30	2.66	1850	3.64	17
	18:45	2.67	1852	3.67	17
	19:00	2.69	1867	3.83	17
	19:15	2.68	1860	3.91	17
	19:30	2.66	1850	3.9	16.9
	19:45	2.66	1848	3.97	16.9
	20:00	2.68	1864	3.9	16.9
	20:15	2.69	1865	4.01	16.9
	20:30	2.67	1854	4.13	16.9
	20:45	2.69	1865	4.16	16.9
	21:00	2.69	1866	4.15	16.9
	21:15	2.7	1875	4.21	16.9
	21:30	2.68	1859	4.34	16.8
	21:45	2.66	1846	4.36	16.8
	22:00	2.68	1863	4.29	16.8
	22:15	2.69	1871	4.35	16.8
	22:30	2.69	1866	4.47	16.8
	22:45	2.69	1866	4.57	16.8
	23:00	2.68	1859	4.62	16.8
	23:15	2.71	1879	4.7	16.8
	23:30	2.7	1878	4.82	16.8
	23:45	2.7	1875	4.92	16.8
2/24/2014	0:00	2.68	1863	5.03	16.8
	0:15	2.7	1875	5.13	16.7
	0:30	2.68	1863	5.2	16.7
	0:45	2.69	1865	5.16	16.7
	1:00	2.72	1887	5.1	16.7
	1:15	2.7	1875	5.1	16.7
	1:30	2.69	1868	5.15	16.7
	1:45	2.7	1876	5.28	16.6
	2:00	2.68	1860	4.05	16.6
	2:15	2.69	1870	4.42	16.6

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	2:30	2.71	1881	4.49	16.6
	2:45	2.7	1873	4.5	16.6
	3:00	2.71	1880	4.55	16.6
	3:15	2.7	1878	4.57	16.6
	3:30	2.68	1863	4.6	16.6
	3:45	2.69	1865	4.64	16.6
	4:00	2.7	1874	4.59	16.6
	4:15	2.69	1871	4.57	16.5
	4:30	2.69	1870	4.59	16.5
	4:45	2.71	1881	4.59	16.5
	5:00	2.68	1859	4.36	16.5
	5:15	2.68	1863	4.4	16.5
	5:30	2.71	1881	4.84	16.5
	5:45	2.69	1871	5.29	16.5
	6:00	2.71	1881	5.23	16.5
	6:15	2.71	1883	4.91	16.4
	6:30	2.7	1876	4.81	16.4
	6:45	2.67	1851	4.96	16.4
	7:00	2.71	1882	4.89	16.4
	7:15	2.7	1873	4.92	16.4
	7:30	2.7	1872	4.8	16.4
	7:45	2.69	1868	4.66	16.4
	8:00	2.69	1869	4.66	16.4
	8:15	2.7	1874	4.69	16.4
	8:30	2.71	1883	4.76	16.4
	8:45	2.69	1866	4.72	16.4
	9:00	2.69	1871	4.71	16.4
	9:15	2.72	1891	4.69	16.4
	9:30	2.71	1883	4.6	16.3
	9:45	2.69	1870	4.75	16.4
	10:00	2.69	1867	4.81	16.4
	10:15	2.7	1872	4.79	16.4
	10:30	2.72	1889	4.78	16.4
	10:45	2.69	1871	4.67	16.4
	11:00	2.71	1884	4.59	16.4
	11:15	2.71	1881	4.78	16.4
	11:30	2.71	1880	4.79	16.4
	11:45	2.69	1868	4.73	16.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	12:00	2.71	1883	4.69	16.4
	12:15	2.7	1875	4.69	16.4
	12:30	2.68	1863	4.73	16.4
	12:45	2.68	1860	4.86	16.4
	13:00	2.7	1877	4.85	16.4
	13:15	2.7	1876	4.82	16.4
	13:30	2.72	1889	4.79	16.4
	13:45	2.68	1860	4.02	16.4
	14:00	2.72	1888	3.91	16.4
	14:15	2.67	1856	3.96	16.4
	14:30	2.69	1868	3.95	16.4
	14:45	2.68	1858	4	16.4
	15:00	2.7	1878	3.98	16.4
	15:15	2.71	1882	4	16.4
	15:30	2.71	1881	3.97	16.4
	15:45	2.68	1863	3.9	16.4
	16:00	2.68	1861	3.88	16.4
	16:15	2.7	1875	3.96	16.4
	16:30	2.69	1866	4.11	16.4
	16:45	2.68	1863	4.11	16.5
	17:00	2.7	1876	4.13	16.5
	17:15	2.69	1870	4.21	16.5
	17:30	2.68	1863	4.28	16.5
	17:45	2.7	1876	4.3	16.5
	18:00	2.67	1854	4.32	16.5
	18:15	2.69	1866	4.38	16.5
	18:30	2.69	1869	4.45	16.5
	18:45	2.68	1863	4.5	16.5
	19:00	2.68	1860	4.51	16.5
	19:15	2.7	1873	4.62	16.5
	19:30	2.67	1857	4.79	16.5
	19:45	2.69	1869	4.76	16.5
	20:00	2.68	1858	4.79	16.5
	20:15	2.68	1862	4.83	16.5
	20:30	2.7	1874	4.96	16.5
	20:45	2.66	1850	5.07	16.5
	21:00	2.68	1862	5.12	16.5
	21:15	2.7	1878	5.05	16.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	21:30	2.69	1869	5.09	16.5
	21:45	2.69	1868	5.14	16.5
	22:00	2.7	1876	5.06	16.4
	22:15	2.67	1855	5.1	16.4
	22:30	2.67	1855	5.11	16.4
	22:45	2.7	1872	5.13	16.4
	23:00	2.69	1869	5.15	16.4
	23:15	2.71	1880	5.27	16.4
	23:30	2.71	1882	5.27	16.4
	23:45	2.69	1871	5.2	16.4
2/25/2014	0:00	2.7	1878	5.27	16.4
	0:15	2.69	1868	5.16	16.4
	0:30	2.69	1868	4.98	16.4
	0:45	2.69	1871	5.26	16.4
	1:00	2.69	1871	5.28	16.4
	1:15	2.71	1880	5.4	16.4
	1:30	2.7	1873	5.45	16.4
	1:45	2.71	1882	5.39	16.4
	2:00	2.71	1881	5.46	16.4
	2:15	2.71	1885	4.59	16.4
	2:30	2.7	1875	4.27	16.4
	2:45	2.69	1868	4.03	16.4
	3:00	2.68	1862	3.95	16.4
	3:15	2.69	1870	3.81	16.3
	3:30	2.67	1852	3.8	16.4
	3:45	2.69	1870	3.83	16.4
	4:00	2.69	1868	3.95	16.4
	4:15	2.7	1876	3.99	16.3
	4:30	2.69	1867	4.09	16.3
	4:45	2.69	1867	4.27	16.3
	5:00	2.71	1880	4.61	16.3
	5:15	2.72	1889	5.02	16.3
	5:30	2.7	1875	5.05	16.3
	5:45	2.69	1869	4.84	16.3
	6:00	2.71	1879	4.98	16.3
	6:15	2.69	1869	4.84	16.3
	6:30	2.69	1869	4.54	16.3
	6:45	2.7	1875	4.58	16.3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	7:00	2.68	1863	4.66	16.3
	7:15	2.71	1880	4.78	16.3
	7:30	2.71	1879	4.78	16.3
	7:45	2.68	1863	4.65	16.3
	8:00	2.69	1870	4.42	16.3
	8:15	2.69	1866	3.79	16.3
	8:30	2.71	1880	3.8	16.3
	8:45	2.71	1885	3.9	16.3
	9:00	2.68	1864	3.81	16.3
	9:15	2.69	1867	3.82	16.3
	9:30	2.68	1859	3.9	16.3
	9:45	2.69	1867	3.88	16.3
	10:00	2.71	1883	3.91	16.3
	10:15	2.71	1884	3.89	16.3
	10:30	2.68	1864	3.93	16.3
	10:45	2.7	1872	3.9	16.3
	11:00	2.68	1860	3.83	16.3
	11:15	2.7	1875	3.85	16.3
	11:30	2.68	1859	3.85	16.3
	11:45	2.68	1864	3.8	16.3
	12:00	2.68	1864	3.83	16.3
	12:15	2.69	1869	3.95	16.3
	12:30	2.69	1870	3.88	16.3
	12:45	2.69	1867	3.96	16.3
	13:00	2.7	1875	3.98	16.3
	13:15	2.69	1868	4	16.3
	13:30	2.69	1871	4.01	16.3
	13:45	2.71	1880	4.03	16.3
	14:00	2.69	1868	3.41	16.3
	14:15	2.72	1887	3.47	16.3
	14:30	2.69	1866	3.46	16.3
	14:45	2.7	1874	3.53	16.3
	15:00	2.7	1875	3.56	16.2
	15:15	2.7	1875	3.61	16.2
	15:30	2.7	1878	3.66	16.2
	15:45	2.69	1869	3.77	16.2
	16:00	2.68	1863	3.85	16.2
	16:15	2.7	1875	3.93	16.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	16:30	2.69	1871	3.83	16.2
	16:45	2.69	1865	3.78	16.2
	17:00	2.7	1876	3.86	16.2
	17:15	2.68	1864	3.8	16.2
	17:30	2.7	1872	3.84	16.2
	17:45	2.7	1875	3.9	16.2
	18:00	2.7	1873	4.01	16.1
	18:15	2.71	1883	4.19	16.1
	18:30	2.7	1875	4.35	16.1
	18:45	2.7	1877	4.28	16.1
	19:00	2.7	1875	4.24	16.1
	19:15	2.7	1872	4.11	16.1
	19:30	2.71	1883	4.22	16.1
	19:45	2.71	1883	4.4	16.1
	20:00	2.7	1877	4.47	16.1
	20:15	2.71	1879	4.27	16.1
	20:30	2.7	1874	4.12	16.1
	20:45	2.69	1865	4.16	16.1
	21:00	2.7	1875	4.14	16.1
	21:15	2.7	1872	4	16
	21:30	2.7	1876	4.08	16
	21:45	2.68	1862	4.13	16
	22:00	2.71	1885	4.15	16
	22:15	2.7	1874	4.17	16
	22:30	2.69	1868	4.25	16
	22:45	2.7	1875	4.38	16
	23:00	2.68	1864	4.43	16
	23:15	2.7	1878	4.39	16
	23:30	2.68	1863	4.69	15.9
	23:45	2.69	1869	4.7	15.9
2/26/2014	0:00	2.69	1871	4.95	15.8
	0:15	2.7	1876	5.08	15.8
	0:30	2.67	1851	5.08	15.8
	0:45	2.71	1883	5.22	15.8
	1:00	2.7	1874	5	15.8
	1:15	2.7	1872	4.88	15.7
	1:30	1.89	1315	4.95	15.7
	1:45	2.71	1880	5.51	15.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	2:00	2.69	1867	5.83	15.7
	2:15	2.7	1874	4.34	15.7
	2:30	2.69	1866	4.07	15.6
	2:45	2.71	1883	3.92	15.6
	3:00	2.72	1888	3.83	15.6
	3:15	2.69	1865	3.83	15.6
	3:30	2.71	1885	3.83	15.6
	3:45	2.7	1875	3.86	15.6
	4:00	2.7	1874	3.92	15.5
	4:15	2.69	1869	4.04	15.5
	4:30	2.68	1862	4.11	15.5
	4:45	2.68	1862	4.12	15.5
	5:00	2.69	1868	4.64	15.5
	5:15	2.69	1865	5.22	15.4
	5:30	2.69	1869	4.99	15.4
	5:45	2.69	1868	5.11	15.4
	6:00	2.69	1869	4.87	15.4
	6:15	2.7	1875	5.41	15.3
	6:30	2.7	1875	4.64	15.2
	6:45	2.69	1867	4.73	15.2
	7:00	2.7	1872	4.6	15.2
	7:15	2.68	1861	4.63	15.1
	7:30	2.7	1874	4.59	15.1
	7:45	2.72	1888	4.56	15.1
	8:00	2.7	1875	4.32	15.1
	8:15	2.7	1874	4.53	15.1
	8:30	2.71	1879	4.72	15.1
	8:45	2.71	1885	4.4	15.1
	9:00	2.7	1876	4.3	15.1
	9:15	2.69	1869	4.32	15.2
	9:30	2.69	1867	4.27	15.2
	9:45	2.7	1872	4.25	15.2
	10:00	2.7	1878	4.11	15.2
	10:15	2.68	1858	4.18	15.2
	10:30	2.68	1863	4.24	15.3
	10:45	2.67	1854	4.18	15.3
	11:00	2.69	1866	4.4	15.3
	11:15	2.7	1874	5.05	15.3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	11:30	2.69	1865	5.25	15.4
	11:45	2.68	1863	4.93	15.4
	12:00	2.69	1869	4.95	15.4
	12:15	2.68	1858	4.82	15.4
	12:30	2.68	1863	4.66	15.5
	12:45	2.68	1864	4.69	15.5
	13:00	2.68	1862	4.7	15.6
	13:15	2.68	1860	4.51	15.6
	13:30	2.68	1860	4.64	15.6
	13:45	2.69	1866	4.7	15.6
	14:00	2.69	1868	4.84	15.7
	14:15	2.7	1872	4.6	15.7
	14:30	2.7	1873	4.55	15.7
	14:45	2.71	1885	4.6	15.7
	15:00	2.69	1871	4.72	15.7
	15:15	2.69	1866	4.69	15.8
	15:30	2.72	1891	4.95	15.8
	15:45	2.73	1893	5.12	15.8
	16:00	2.71	1883	5.08	15.8
	16:15	2.74	1906	5.05	15.8
	16:30	2.71	1883	4.92	15.8
	16:45	2.74	1901	4.87	15.8
	17:00	2.73	1893	5.29	15.8
	17:15	2.69	1868	5.61	15.9
	17:30	2.71	1879	5.46	15.8
	17:45	2.7	1876	5.72	15.9
	18:00	2.69	1870	6.12	15.9
	18:15	2.7	1874	5.78	15.8
	18:30	2.69	1869	5.54	15.8
	18:45	2.71	1882	5.46	15.8
	19:00	2.68	1859	5.58	15.8
	19:15	2.68	1864	5.7	15.8
	19:30	2.68	1861	5.72	15.8
	19:45	2.69	1865	5.71	15.8
	20:00	2.69	1871	5.7	15.8
	20:15	2.7	1875	5.8	15.8
	20:30	2.68	1863	5.93	15.8
	20:45	2.68	1860	5.92	15.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	21:00	2.7	1872	6.09	15.8
	21:15	2.69	1867	6.12	15.8
	21:30	2.7	1877	6.05	15.8
	21:45	2.69	1870	6.24	15.8
	22:00	2.68	1864	6.23	15.8
	22:15	2.69	1871	6.27	15.8
	22:30	2.7	1873	6.3	15.8
	22:45	2.69	1866	6.35	15.7
	23:00	2.69	1869	6.32	15.7
	23:15	2.69	1866	6.33	15.7
	23:30	2.7	1877	6.25	15.7
	23:45	2.69	1866	6.26	15.7
2/27/2014	0:00	2.69	1871	6.29	15.7
	0:15	2.7	1877	6.35	15.7
	0:30	2.7	1873	6.32	15.6
	0:45	2.68	1859	6.35	15.6
	1:00	2.71	1885	6.41	15.6
	1:15	2.71	1879	6.5	15.6
	1:30	2.69	1868	6.43	15.6
	1:45	2.71	1880	6.47	15.6
	2:00	2.7	1875	5.86	15.6
	2:15	2.7	1875	4.91	15.6
	2:30	2.68	1864	4.82	15.6
	2:45	2.68	1860	4.86	15.6
	3:00	2.71	1883	4.95	15.6
	3:15	2.7	1875	4.95	15.5
	3:30	2.69	1867	4.99	15.5
	3:45	2.69	1865	5.01	15.5
	4:00	2.7	1878	5.22	15.5
	4:15	2.69	1870	5.31	15.5
	4:30	2.7	1873	5.2	15.5
	4:45	2.67	1855	5.15	15.5
	5:00	2.67	1856	5.33	15.5
	5:15	2.68	1859	5.39	15.5
	5:30	2.71	1880	5.41	15.5
	5:45	2.7	1874	5.46	15.4
	6:00	2.69	1869	5.41	15.4
	6:15	2.68	1862	5.5	15.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	6:30	2.7	1872	5.54	15.4
	6:45	2.69	1870	5.55	15.4
	7:00	2.69	1869	5.63	15.4
	7:15	2.69	1871	5.7	15.4
	7:30	2.69	1868	5.6	15.4
	7:45	2.69	1869	5.6	15.4
	8:00	2.71	1881	5.6	15.4
	8:15	2.69	1866	5.68	15.4
	8:30	2.66	1850	5.54	15.4
	8:45	2.68	1860	5.32	15.4
	9:00	2.68	1862	5.41	15.5
	9:15	2.7	1874	5.29	15.5
	9:30	2.68	1862	5.08	15.5
	9:45	2.71	1881	4.88	15.5
	10:00	2.66	1850	4.6	15.5
	10:15	2.68	1864	4.55	15.6
	10:30	2.66	1848	4.4	15.6
	10:45	2.68	1863	4.19	15.6
	11:00	2.69	1865	4.16	15.7
	11:15	2.69	1869	4.09	15.7
	11:30	2.69	1870	3.98	15.7
	11:45	2.71	1879	3.97	15.8
	12:00	2.7	1876	4	15.8
	12:15	2.69	1867	3.98	15.9
	12:30	2.66	1845	3.95	15.9
	12:45	2.7	1877	4.14	16
	13:00	2.76	1913	4.09	16
	13:15	2.69	1871	4.16	16
	13:30	2.76	1914	4.21	16
	13:45	2.79	1938	4.24	16.1
	14:00	2.79	1936	3.54	16.1
	14:15	2.8	1944	3.37	16.1
	14:30	2.8	1943	3.23	16.1
	14:45	2.77	1923	3.3	16.1
	15:00	2.79	1937	3.25	16.1
	15:15	2.78	1929	3.3	16.2
	15:30	2.78	1933	3.35	16.2
	15:45	2.8	1941	3.39	16.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	16:00	2.8	1943	3.43	16.2
	16:15	2.79	1940	3.53	16.2
	16:30	2.82	1958	3.47	16.2
	16:45	2.8	1944	3.66	16.2
	17:00	2.8	1944	3.86	16.2
	17:15	2.79	1936	3.83	16.2
	17:30	2.8	1942	3.89	16.2
	17:45	2.79	1936	3.98	16.2
	18:00	2.79	1936	4.07	16.2
	18:15	2.8	1944	4.14	16.2
	18:30	2.77	1921	4.17	16.2
	18:45	2.78	1932	4.26	16.2
	19:00	2.71	1882	4.31	16.1
	19:15	2.67	1855	4.36	16.1
	19:30	2.71	1880	4.35	16.1
	19:45	2.71	1884	4.3	16.1
	20:00	2.7	1874	4.29	16.1
	20:15	2.71	1881	4.23	16.1
	20:30	2.71	1880	4.3	16.1
	20:45	2.72	1887	4.41	16.1
	21:00	2.69	1871	4.38	16
	21:15	2.71	1882	4.37	16
	21:30	2.71	1883	4.37	16
	21:45	2.7	1873	4.39	16
	22:00	2.71	1879	4.26	16
	22:15	2.71	1884	4.39	16
	22:30	2.71	1879	4.55	16
	22:45	2.71	1880	4.56	16
	23:00	2.69	1869	4.52	16
	23:15	2.7	1874	4.47	16
	23:30	2.7	1877	4.51	16
	23:45	2.69	1871	4.59	16
2/28/2014	0:00	2.72	1886	4.47	16
	0:15	2.71	1879	4.5	16
	0:30	2.69	1869	4.59	16
	0:45	2.68	1864	4.86	16
	1:00	2.7	1872	5.04	16
	1:15	2.71	1880	5.02	16

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	1:30	2.68	1862	5.24	16
	1:45	2.7	1875	5.36	15.9
	2:00	2.7	1876	4.53	16
	2:15	2.74	1900	4.75	15.9
	2:30	2.68	1863	4.8	15.9
	2:45	2.7	1872	4.52	15.9
	3:00	2.72	1891	4.63	15.9
	3:15	2.7	1876	4.83	16
	3:30	2.69	1866	4.78	16
	3:45	2.68	1864	5.19	16
	4:00	2.69	1871	5.07	16
	4:15	2.68	1859	5.11	16
	4:30	2.68	1864	4.86	16
	4:45	2.71	1880	5.02	16
	5:00	2.7	1873	4.92	15.9
	5:15	2.69	1868	4.8	15.9
	5:30	2.72	1887	4.75	15.9
	5:45	2.68	1860	4.86	15.9
	6:00	2.69	1870	4.9	15.9
	6:15	2.68	1864	4.93	15.9
	6:30	2.69	1866	4.91	15.9
	6:45	2.68	1859	4.75	15.9
	7:00	2.69	1869	4.67	15.9
	7:15	2.71	1881	4.56	15.9
	7:30	2.7	1873	4.52	15.9
	7:45	2.69	1866	4.62	15.9
	8:00	2.68	1859	4.54	15.9
	8:15	2.7	1877	4.07	15.9
	8:30	2.7	1873	3.94	15.9
	8:45	2.71	1880	3.81	16
	9:00	2.7	1874	3.89	16
	9:15	2.71	1881	3.97	16
	9:30	2.71	1881	3.6	16
	9:45	2.71	1882	3.78	16.1
	10:00	2.72	1886	3.98	16.1
	10:15	2.69	1871	3.9	16.1
	10:30	2.7	1877	3.86	16.2
	10:45	2.72	1890	3.75	16.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	11:00	2.71	1883	3.73	16.2
	11:15	2.72	1886	3.74	16.3
	11:30	2.7	1874	3.62	16.3
	11:45	2.72	1891	3.7	16.4
	12:00	2.72	1888	3.7	16.4
	12:15	2.71	1880	3.73	16.4
	12:30	2.73	1894	3.63	16.5
	12:45	2.7	1878	3.58	16.5
	13:00	2.71	1885	3.58	16.6
	13:15	2.7	1878	3.49	16.6
	13:30	2.72	1887	3.41	16.7
	13:45	2.73	1898	3.43	16.7
	14:00	2.72	1886	3.26	16.8
	14:15	2.71	1882	3.32	16.8
	14:30	2.76	1913	3.36	16.8
	14:45	2.75	1911	3.24	16.9
	15:00	2.74	1902	3.32	16.9
	15:15	2.75	1907	3.69	16.9
	15:30	2.74	1906	3.62	17
	15:45	2.75	1907	3.59	17
	16:00	2.77	1921	3.64	17
	16:15	2.75	1912	3.71	17
	16:30	2.74	1906	3.85	17
	16:45	2.76	1914	3.87	17
	17:00	2.76	1914	3.86	17
	17:15	2.74	1901	4.16	17
	17:30	2.73	1893	4.19	17
	17:45	2.72	1887	4.21	17
	18:00	2.7	1878	4.45	17
	18:15	2.72	1886	2.81	17
	18:30	2.69	1869	4.35	17
	18:45	2.73	1894	4.11	17
	19:00	2.69	1867	4.07	17
	19:15	2.71	1883	4.09	17
	19:30	2.69	1865	4	17
	19:45	2.7	1877	3.82	17
	20:00	2.7	1875	3.98	17
	20:15	2.69	1865	4.05	17

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	20:30	2.69	1871	4.06	17
	20:45	2.71	1882	4.1	17
	21:00	2.72	1887	3.97	17
	21:15	2.7	1877	3.92	17
	21:30	2.69	1870	3.79	17
	21:45	2.7	1874	3.82	17
	22:00	2.71	1879	3.85	17
	22:15	2.71	1885	3.83	17
	22:30	2.69	1865	4.03	17
	22:45	2.69	1870	3.93	17
	23:00	2.7	1872	3.99	16.9
	23:15	2.69	1870	4.2	16.9
	23:30	2.71	1881	4.02	16.9
	23:45	2.69	1865	4.01	16.9
3/1/2014	0:00	2.71	1880	4.11	16.9
	0:15	2.7	1878	4.22	16.9
	0:30	2.7	1873	4.29	16.9
	0:45	2.69	1868	4.38	16.9
	1:00	2.7	1874	4.34	16.9
	1:15	2.71	1884	4.25	16.8
	1:30	2.71	1881	4.23	16.8
	1:45	2.7	1875	4.22	16.8
	2:00	2.71	1883	4.34	16.8
	2:15	2.72	1886	3.83	16.8
	2:30	2.72	1891	3.79	16.8
	2:45	2.7	1873	3.68	16.8
	3:00	2.7	1877	3.67	16.8
	3:15	2.69	1870	3.64	16.8
	3:30	2.71	1880	3.72	16.8
	3:45	2.7	1876	3.78	16.8
	4:00	2.7	1878	3.86	16.8
	4:15	2.7	1872	3.87	16.8
	4:30	2.69	1871	3.84	16.8
	4:45	2.7	1875	3.76	16.8
	5:00	2.72	1888	3.7	16.8
	5:15	2.71	1880	3.8	16.8
	5:30	2.7	1872	3.81	16.8
	5:45	2.68	1861	3.84	16.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	6:00	2.71	1881	3.86	16.8
	6:15	2.68	1864	3.99	16.8
	6:30	2.7	1875	4.05	16.8
	6:45	2.69	1867	4.13	16.8
	7:00	2.7	1874	4.25	16.8
	7:15	2.69	1869	4.06	16.7
	7:30	2.68	1863	4	16.7
	7:45	2.71	1880	4.02	16.7
	8:00	2.7	1875	4.07	16.7
	8:15	2.68	1863	4.13	16.7
	8:30	2.71	1880	4.07	16.7
	8:45	2.68	1863	4.05	16.7
	9:00	2.69	1868	3.99	16.7
	9:15	2.7	1876	4.08	16.7
	9:30	2.71	1882	4.17	16.7
	9:45	2.69	1868	4.08	16.7
	10:00	2.69	1869	4.03	16.7
	10:15	2.7	1872	4.02	16.8
	10:30	2.69	1866	3.96	16.8
	10:45	2.7	1873	4.06	16.8
	11:00	2.71	1879	3.95	16.8
	11:15	2.7	1876	3.95	16.8
	11:30	2.71	1881	4.06	16.8
	11:45	2.71	1882	4.17	16.8
	12:00	2.71	1883	4.2	16.8
	12:15	2.72	1886	3.96	16.9
	12:30	2.72	1888	3.86	16.9
	12:45	2.72	1891	3.84	16.9
	13:00	2.72	1891	3.67	16.9
	13:15	2.74	1902	3.75	17
	13:30	2.72	1892	3.43	17
	13:45	2.75	1907	3.05	17.1
	14:00	2.74	1905	3.12	17.1
	14:15	2.73	1896	3.09	17.1
	14:30	2.73	1895	3.12	17.2
	14:45	2.75	1907	3.18	17.2
	15:00	2.73	1897	3.05	17.2
	15:15	2.73	1893	3.21	17.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	15:30	2.72	1891	3.23	17.2
	15:45	2.72	1887	3.29	17.2
	16:00	2.72	1889	3.47	17.2
	16:15	2.71	1882	3.49	17.2
	16:30	2.73	1897	3.47	17.2
	16:45	2.73	1894	3.63	17.2
	17:00	2.73	1897	3.71	17.2
	17:15	2.71	1882	3.82	17.1
	17:30	2.7	1877	3.91	17.1
	17:45	2.7	1875	3.88	17.1
	18:00	2.67	1853	3.87	17
	18:15	2.69	1869	3.93	17
	18:30	2.72	1889	4.03	17
	18:45	2.7	1874	4.15	17
	19:00	2.69	1868	4.23	17
	19:15	2.7	1873	4.32	17
	19:30	2.7	1874	4.27	17
	19:45	2.7	1876	4.23	17
	20:00	2.71	1884	4.16	16.9
	20:15	2.69	1865	4.23	16.9
	20:30	2.71	1881	4.18	16.9
	20:45	2.7	1876	4.26	16.9
	21:00	2.69	1869	4.35	16.8
	21:15	2.7	1874	4.41	16.8
	21:30	2.69	1870	4.48	16.8
	21:45	2.7	1875	4.52	16.8
	22:00	2.71	1885	4.55	16.7
	22:15	2.7	1874	4.69	16.7
	22:30	2.7	1875	4.5	16.7
	22:45	2.7	1874	4.56	16.7
	23:00	2.69	1868	4.45	16.6
	23:15	2.69	1868	4.56	16.6
	23:30	2.69	1867	4.68	16.6
	23:45	2.71	1884	4.72	16.6
3/2/2014	0:00	2.67	1856	4.68	16.5
	0:15	2.7	1878	4.7	16.5
	0:30	2.69	1868	4.68	16.5
	0:45	2.7	1877	4.72	16.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	1:00	2.7	1877	4.52	16.3
	1:15	2.7	1872	4.47	16.3
	1:30	2.69	1871	4.62	16.2
	1:45	2.71	1881	4.56	16.2
	2:00	2.72	1889	3.35	16.2
	2:15	2.71	1884	3.53	16.2
	2:30	2.73	1894	3.59	16.2
	2:45	2.72	1886	3.68	16.2
	3:00	2.69	1869	3.82	16.1
	3:15	2.69	1867	3.77	16.1
	3:30	2.7	1875	3.8	16.1
	3:45	2.69	1871	3.93	16
	4:00	2.71	1882	4.06	16
	4:15	2.71	1882	4.19	16
	4:30	2.69	1871	4.13	16
	4:45	2.71	1883	4.04	15.9
	5:00	2.68	1862	4.12	15.9
	5:15	2.71	1880	4.23	15.9
	5:30	2.69	1868	4.28	15.8
	5:45	2.69	1870	4.23	15.8
	6:00	2.69	1869	4.25	15.7
	6:15	2.68	1858	4.34	15.7
	6:30	2.68	1860	4.35	15.7
	6:45	2.67	1856	4.28	15.6
	7:00	2.7	1877	4.36	15.6
	7:15	2.69	1868	4.16	15.6
	7:30	2.69	1871	4.32	15.6
	7:45	2.68	1861	4.35	15.5
	8:00	2.68	1861	4.37	15.5
	8:15	2.7	1875	4.46	15.4
	8:30	2.68	1859	4.43	15.4
	8:45	2.7	1876	4.42	15.4
	9:00	2.69	1865	4.31	15.4
	9:15	2.7	1875	4.3	15.3
	9:30	2.7	1875	4.46	15.3
	9:45	2.66	1847	4.37	15.3
	10:00	2.69	1870	4.15	15.3
	10:15	2.68	1863	4.33	15.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	10:30	2.69	1868	4.5	15.2
	10:45	2.68	1863	4.4	15.2
	11:00	2.7	1873	4.43	15.1
	11:15	2.69	1869	4.36	15.1
	11:30	2.69	1867	4.25	15.1
	11:45	2.66	1848	4.31	15.1
	12:00	2.68	1859	4.56	15
	12:15	2.68	1864	4.75	15
	12:30	2.68	1860	4.77	15
	12:45	2.66	1845	4.99	15
	13:00	2.66	1849	5.09	15
	13:15	2.68	1862	4.84	14.9
	13:30	2.68	1860	4.59	14.9
	13:45	2.69	1867	3.66	14.9
	14:00	2.67	1856	3.58	14.9
	14:15	2.7	1876	3.56	14.9
	14:30	2.7	1875	3.7	14.8
	14:45	2.66	1850	3.61	14.9
	15:00	2.67	1853	3.72	14.8
	15:15	2.68	1862	3.8	14.8
	15:30	2.7	1876	3.96	14.8
	15:45	2.69	1865	3.92	14.8
	16:00	2.68	1864	3.98	14.8
	16:15	2.69	1869	4.07	14.7
	16:30	2.69	1865	4.03	14.7
	16:45	2.69	1866	4.07	14.7
	17:00	2.68	1859	4.24	14.6
	17:15	2.68	1859	4.34	14.6
	17:30	2.66	1848	4.19	14.6
	17:45	2.66	1850	4.27	14.6
	18:00	2.68	1861	4.12	14.5
	18:15	2.68	1862	4.11	14.5
	18:30	2.67	1854	4.37	14.5
	18:45	2.67	1851	4.52	14.5
	19:00	2.69	1865	4.86	14.5
	19:15	2.69	1871	4.67	14.5
	19:30	2.67	1856	4.37	14.5
	19:45	2.67	1857	4.36	14.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	20:00	2.66	1847	4.31	14.4
	20:15	2.67	1854	4.47	14.4
	20:30	2.67	1853	4.44	14.4
	20:45	2.7	1874	4.36	14.3
	21:00	2.67	1851	4.37	14.3
	21:15	2.68	1861	4.5	14.3
	21:30	2.67	1856	4.49	14.3
	21:45	2.68	1863	4.51	14.3
	22:00	2.66	1846	4.48	14.2
	22:15	2.66	1850	4.61	14.2
	22:30	2.66	1845	4.62	14.2
	22:45	2.68	1861	4.48	14.2
	23:00	2.67	1856	4.51	14.2
	23:15	2.7	1875	4.56	14.1
	23:30	2.67	1851	4.65	14.2
	23:45	2.65	1839	4.7	14.1
3/3/2014	0:00	2.68	1859	4.75	14.1
	0:15	2.65	1841	4.93	14.1
	0:30	2.67	1855	5.06	14.1
	0:45	2.65	1840	4.92	14.1
	1:00	2.67	1851	5.24	14.1
	1:15	2.68	1858	5.14	14.1
	1:30	2.68	1860	5.05	14
	1:45	2.68	1858	5.17	14
	2:00	2.67	1851	4.54	14
	2:15	2.66	1846	4.2	14
	2:30	2.67	1856	4.15	14
	2:45	2.65	1843	4.13	14
	3:00	2.67	1856	4.24	14
	3:15	2.68	1864	4.34	13.9
	3:30	2.68	1860	4.34	13.9
	3:45	2.68	1863	4.28	13.9
	4:00	2.69	1866	4.32	13.9
	4:15	2.66	1849	4.42	13.9
	4:30	2.67	1854	4.69	13.9
	4:45	2.67	1856	4.68	13.9
	5:00	2.67	1857	4.61	13.8
	5:15	2.65	1840	4.45	13.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	5:30	2.68	1859	4.22	13.8
	5:45	2.68	1862	4.26	13.8
	6:00	2.68	1858	4.57	13.8
	6:15	2.67	1854	4.55	13.8
	6:30	2.68	1858	4.97	13.8
	6:45	2.67	1854	4.96	13.8
	7:00	2.67	1857	4.9	13.7
	7:15	2.65	1840	4.79	13.7
	7:30	2.7	1875	4.65	13.7
	7:45	2.67	1855	4.78	13.7
	8:00	2.67	1853	4.96	13.6
	8:15	2.66	1849	4.69	13.6
	8:30	2.68	1863	4.76	13.6
	8:45	2.67	1855	4.59	13.6
	9:00	2.71	1881	4.42	13.7
	9:15	2.66	1845	4.53	13.7
	9:30	2.66	1844	4.47	13.7
	9:45	2.66	1848	4.47	13.7
	10:00	2.67	1852	4.39	13.7
	10:15	2.68	1858	4.49	13.7
	10:30	2.65	1838	4.56	13.7
	10:45	2.66	1847	4.53	13.7
	11:00	2.68	1863	4.49	13.8
	11:15	2.66	1850	4.55	13.8
	11:30	2.67	1853	4.48	13.8
	11:45	2.68	1858	4.51	13.9
	12:00	2.7	1873	4.6	13.9
	12:15	2.71	1879	4.63	13.9
	12:30	2.67	1853	4.52	14
	12:45	2.69	1865	4.47	14
	13:00	2.71	1882	4.51	14.1
	13:15	2.67	1855	4.59	14.1
	13:30	2.69	1869	4.56	14.1
	13:45	2.69	1867	4.69	14.2
	14:00	2.68	1862	3.87	14.2
	14:15	2.69	1867	3.78	14.2
	14:30	2.68	1863	4.11	14.2
	14:45	2.68	1863	4.18	14.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	15:00	2.69	1871	4.29	14.2
	15:15	2.72	1887	4.25	14.3
	15:30	2.69	1869	4.23	14.3
	15:45	2.68	1863	4.47	14.3
	16:00	2.7	1873	4.55	14.3
	16:15	2.72	1892	4.46	14.3
	16:30	2.7	1872	4.81	14.3
	16:45	2.71	1883	4.57	14.3
	17:00	2.71	1882	4.66	14.4
	17:15	2.73	1898	4.7	14.4
	17:30	2.69	1870	4.73	14.4
	17:45	2.72	1886	4.9	14.4
	18:00	2.72	1888	4.97	14.4
	18:15	2.72	1889	4.79	14.4
	18:30	2.69	1865	4.94	14.4
	18:45	2.71	1881	5.03	14.4
	19:00	2.72	1886	4.91	14.4
	19:15	2.69	1866	4.97	14.4
	19:30	2.71	1884	4.86	14.4
	19:45	2.73	1894	4.88	14.4
	20:00	2.7	1873	5.37	14.4
	20:15	2.71	1884	5.64	14.4
	20:30	2.71	1883	5.8	14.4
	20:45	2.72	1888	5.73	14.4
	21:00	2.7	1878	5.68	14.4
	21:15	2.71	1883	5.46	14.4
	21:30	2.7	1878	5.16	14.4
	21:45	2.71	1885	5.34	14.4
	22:00	2.69	1868	5.41	14.4
	22:15	2.71	1879	5.37	14.4
	22:30	2.71	1882	5.46	14.4
	22:45	2.68	1863	5.4	14.4
	23:00	2.71	1883	5.45	14.5
	23:15	2.7	1874	5.66	14.5
	23:30	2.71	1880	5.57	14.5
	23:45	2.73	1893	5.55	14.5
3/4/2014	0:00	2.71	1882	5.6	14.5
	0:15	2.69	1867	5.63	14.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	0:30	2.71	1881	5.76	14.5
	0:45	2.69	1869	5.8	14.5
	1:00	2.7	1875	5.81	14.5
	1:15	2.7	1876	6	14.5
	1:30	2.71	1881	5.86	14.5
	1:45	2.7	1877	5.64	14.5
	2:00	2.71	1879	4.26	14.5
	2:15	2.72	1889	4.5	14.5
	2:30	2.7	1872	4.64	14.5
	2:45	2.68	1864	4.72	14.5
	3:00	2.71	1884	4.51	14.5
	3:15	2.72	1887	4.43	14.5
	3:30	2.69	1869	4.47	14.5
	3:45	2.7	1872	4.52	14.5
	4:00	2.69	1868	4.61	14.4
	4:15	2.7	1872	4.55	14.4
	4:30	2.69	1866	4.6	14.4
	4:45	2.69	1870	4.7	14.4
	5:00	2.7	1875	4.67	14.4
	5:15	2.71	1883	4.8	14.4
	5:30	2.69	1867	4.94	14.4
	5:45	2.69	1869	4.96	14.4
	6:00	2.7	1872	4.95	14.4
	6:15	2.67	1857	4.95	14.4
	6:30	2.68	1863	4.98	14.4
	6:45	2.7	1878	5.01	14.4
	7:00	2.67	1857	4.96	14.4
	7:15	2.7	1874	5.08	14.4
	7:30	2.7	1875	5.02	14.4
	7:45	2.69	1871	5	14.4
	8:00	2.69	1867	4.83	14.4
	8:15	2.72	1886	4.21	14.4
	8:30	2.69	1867	4.14	14.5
	8:45	2.68	1861	4.06	14.5
	9:00	2.7	1876	4.09	14.5
	9:15	2.7	1873	4.1	14.5
	9:30	2.71	1881	3.96	14.5
	9:45	2.67	1856	3.86	14.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	10:00	2.66	1845	3.8	14.6
	10:15	2.67	1857	3.73	14.6
	10:30	2.67	1855	3.68	14.6
	10:45	2.69	1870	3.6	14.7
	11:00	2.67	1857	3.54	14.7
	11:15	2.69	1867	3.47	14.8
	11:30	2.68	1864	3.29	14.8
	11:45	2.71	1880	3.38	14.9
	12:00	2.68	1864	3.35	14.9
	12:15	2.68	1861	3.37	14.9
	12:30	2.7	1878	3.41	15
	12:45	2.7	1878	3.31	15
	13:00	2.68	1864	3.29	15.1
	13:15	2.68	1862	3.45	15.1
	13:30	2.7	1872	3.41	15.2
	13:45	2.69	1869	1.84	15.3
	14:00	2.69	1868	3.37	15.2
	14:15	2.71	1885	3.11	15.3
	14:30	2.71	1882	3.15	15.3
	14:45	2.71	1883	3.28	15.4
	15:00	2.72	1886	3.28	15.4
	15:15	2.7	1878	3.26	15.4
	15:30	2.73	1898	3.22	15.4
	15:45	2.74	1901	3.34	15.4
	16:00	2.73	1895	3.5	15.4
	16:15	2.71	1884	3.5	15.4
	16:30	2.72	1888	3.5	15.4
	16:45	2.71	1884	3.61	15.4
	17:00	2.72	1887	3.67	15.4
	17:15	2.72	1888	3.89	15.4
	17:30	2.71	1885	3.9	15.4
	17:45	2.71	1880	3.88	15.4
	18:00	2.69	1868	3.94	15.4
	18:15	2.7	1875	4.05	15.4
	18:30	2.7	1876	4.19	15.4
	18:45	2.71	1880	4.25	15.4
	19:00	2.72	1886	4.29	15.4
	19:15	2.7	1878	4.4	15.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	19:30	2.72	1889	4.36	15.4
	19:45	2.73	1894	4.43	15.4
	20:00	2.7	1876	4.63	15.4
	20:15	2.71	1879	4.51	15.4
	20:30	2.71	1880	4.38	15.4
	20:45	2.72	1892	4.45	15.4
	21:00	2.71	1881	4.61	15.4
	21:15	2.72	1890	4.76	15.4
	21:30	2.73	1896	4.82	15.4
	21:45	2.73	1894	4.87	15.4
	22:00	2.71	1885	4.94	15.4
	22:15	2.71	1882	4.95	15.4
	22:30	2.72	1887	4.95	15.4
	22:45	2.71	1880	4.97	15.4
	23:00	2.72	1886	4.97	15.4
	23:15	2.73	1894	5.07	15.4
	23:30	2.71	1882	5.06	15.4
	23:45	2.71	1879	5.01	15.4
3/5/2014	0:00	2.71	1885	5.16	15.4
	0:15	2.72	1891	5.18	15.4
	0:30	2.72	1888	5.14	15.4
	0:45	2.72	1891	5.17	15.4
	1:00	2.7	1877	4.92	15.4
	1:15	2.71	1881	4.85	15.4
	1:30	2.7	1873	4.76	15.4
	1:45	2.69	1871	4.35	15.4
	2:00	2.72	1886	4.35	15.3
	2:15	2.74	1902	4.26	15.4
	2:30	2.72	1888	4.41	15.4
	2:45	2.71	1883	4.6	15.4
	3:00	2.71	1880	4.53	15.4
	3:15	2.69	1871	4.25	15.4
	3:30	2.68	1861	4.16	15.4
	3:45	2.71	1879	4.17	15.4
	4:00	2.72	1888	4.53	15.4
	4:15	2.72	1888	4.79	15.4
	4:30	2.72	1889	4.83	15.4
	4:45	2.7	1875	4.87	15.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	5:00	2.73	1894	4.89	15.4
	5:15	2.69	1870	4.85	15.4
	5:30	2.71	1880	4.94	15.3
	5:45	2.7	1873	4.93	15.3
	6:00	2.7	1872	4.99	15.3
	6:15	2.72	1887	5.01	15.3
	6:30	2.71	1880	5	15.3
	6:45	2.71	1882	5.19	15.3
	7:00	2.7	1875	5.15	15.3
	7:15	2.7	1875	5.2	15.3
	7:30	2.7	1874	5.15	15.3
	7:45	2.7	1877	5.02	15.3
	8:00	2.69	1871	4.94	15.3
	8:15	2.7	1878	4.87	15.3
	8:30	2.7	1875	4.91	15.3
	8:45	2.71	1884	5.19	15.3
	9:00	2.72	1886	5.05	15.3
	9:15	2.71	1881	4.9	15.3
	9:30	2.69	1871	4.91	15.3
	9:45	2.69	1868	4.92	15.4
	10:00	2.68	1864	4.95	15.4
	10:15	2.71	1881	5.06	15.4
	10:30	2.69	1870	5.02	15.4
	10:45	2.7	1872	4.88	15.4
	11:00	2.72	1889	4.55	15.5
	11:15	2.71	1884	4.49	15.5
	11:30	2.73	1893	4.55	15.6
	11:45	2.74	1902	4.35	15.6
	12:00	2.71	1882	4.33	15.7
	12:15	2.73	1899	4.3	15.7
	12:30	2.71	1881	4.49	15.7
	12:45	2.73	1898	4.52	15.7
	13:00	2.72	1889	4.35	15.7
	13:15	2.71	1884	4.5	15.7
	13:30	2.7	1872	4.64	15.7
	13:45	2.71	1884	4.75	15.7
	14:00	2.71	1884	3.64	15.7
	14:15	2.73	1896	3.6	15.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	14:30	2.72	1887	3.53	15.8
	14:45	2.75	1910	3.58	15.8
	15:00	2.72	1890	3.63	15.8
	15:15	2.72	1886	3.65	15.8
	15:30	2.71	1884	3.67	15.9
	15:45	2.71	1881	3.7	15.9
	16:00	2.73	1899	3.58	15.8
	16:15	2.7	1878	3.71	15.9
	16:30	2.73	1894	3.77	15.9
	16:45	2.69	1870	3.88	15.9
	17:00	2.7	1874	3.9	15.9
	17:15	2.7	1878	3.84	15.9
	17:30	2.7	1873	3.94	15.8
	17:45	2.68	1864	4.02	15.8
	18:00	2.7	1878	4.03	15.8
	18:15	2.71	1885	4	15.8
	18:30	2.69	1869	3.86	15.8
	18:45	2.71	1884	3.81	15.8
	19:00	2.69	1871	3.9	15.8
	19:15	2.71	1881	4.02	15.8
	19:30	2.72	1888	4.06	15.8
	19:45	2.73	1899	3.98	15.8
	20:00	2.71	1879	4.07	15.8
	20:15	2.73	1899	4.12	15.8
	20:30	2.7	1876	4.14	15.8
	20:45	2.71	1881	4.2	15.8
	21:00	2.71	1883	4.12	15.8
	21:15	2.71	1884	4.15	15.8
	21:30	2.71	1884	4.22	15.8
	21:45	2.69	1870	4.28	15.8
	22:00	2.71	1879	4.28	15.8
	22:15	2.7	1877	4.39	15.8
	22:30	2.7	1874	4.46	15.8
	22:45	2.72	1889	4.59	15.7
	23:00	2.71	1881	4.62	15.7
	23:15	2.7	1873	4.57	15.7
	23:30	2.7	1877	4.49	15.7
	23:45	2.71	1881	4.44	15.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
3/6/2014	0:00	2.7	1873	4.54	15.7
	0:15	2.7	1873	4.62	15.7
	0:30	2.7	1875	4.48	15.7
	0:45	2.69	1867	4.57	15.7
	1:00	2.71	1880	4.63	15.7
	1:15	2.71	1882	4.71	15.7
	1:30	2.71	1880	4.48	15.7
	1:45	2.71	1883	4.31	15.7
	2:00	2.7	1875	3.76	15.7
	2:15	2.72	1888	3.94	15.7
	2:30	2.7	1872	4.09	15.7
	2:45	2.7	1878	4.12	15.7
	3:00	2.7	1876	3.95	15.7
	3:15	2.69	1867	3.81	15.7
	3:30	2.71	1880	3.82	15.7
	3:45	2.69	1865	3.83	15.6
	4:00	2.69	1867	3.86	15.6
	4:15	2.66	1846	3.99	15.6
	4:30	2.69	1866	4.01	15.6
	4:45	2.69	1869	4.08	15.6
	5:00	2.68	1864	4.15	15.6
	5:15	2.71	1885	4.17	15.6
	5:30	2.69	1868	4.29	15.6
	5:45	2.68	1864	4.3	15.6
	6:00	2.67	1855	4.38	15.6
	6:15	2.69	1868	4.5	15.6
	6:30	2.7	1874	4.64	15.6
	6:45	2.67	1855	4.71	15.6
	7:00	2.7	1873	4.85	15.6
	7:15	2.7	1875	4.82	15.6
	7:30	2.71	1879	4.78	15.6
	7:45	2.69	1868	4.82	15.6
	8:00	2.67	1856	4.78	15.6
	8:15	2.68	1860	4.94	15.6
	8:30	2.7	1875	4.95	15.6
	8:45	2.7	1877	5.35	15.6
	9:00	2.68	1861	4.61	15.6
	9:15	2.7	1873	5.49	15.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	9:30	2.67	1857	4.26	15.6
	9:45	2.71	1879	4.12	15.6
	10:00	2.71	1884	4.08	15.7
	10:15	2.7	1876	4.04	15.7
	10:30	2.7	1877	3.89	15.7
	10:45	2.69	1870	3.87	15.7
	11:00	2.7	1878	3.82	15.7
	11:15	2.71	1884	3.6	15.8
	11:30	2.72	1889	3.45	15.8
	11:45	2.72	1889	3.29	15.9
	12:00	2.72	1892	3.26	16
	12:15	2.69	1868	3.32	16
	12:30	2.7	1876	3.25	16
	12:45	2.69	1866	3.38	16.1
	13:00	2.72	1887	3.32	16.1
	13:15	2.7	1876	3.23	16.2
	13:30	2.71	1885	3.3	16.2
	13:45	2.73	1894	3.28	16.2
	14:00	2.71	1881	3.46	16.2
	14:15	2.7	1878	3.57	16.3
	14:30	2.71	1885	3.46	16.3
	14:45	2.72	1888	3.58	16.3
	15:00	2.72	1888	3.54	16.3
	15:15	2.72	1891	3.42	16.4
	15:30	2.73	1894	3.6	16.4
	15:45	2.73	1894	3.62	16.4
	16:00	2.75	1910	3.59	16.4
	16:15	2.72	1891	3.68	16.4
	16:30	2.74	1906	3.62	16.5
	16:45	2.74	1900	3.75	16.5
	17:00	2.72	1886	3.69	16.5
	17:15	2.7	1873	3.71	16.5
	17:30	2.71	1881	3.69	16.5
	17:45	2.71	1881	3.77	16.4
	18:00	2.71	1881	3.88	16.4
	18:15	2.68	1863	4.17	16.4
	18:30	2.71	1881	4.04	16.4
	18:45	2.71	1879	4.05	16.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	19:00	2.71	1883	4.06	16.4
	19:15	2.69	1870	4.01	16.4
	19:30	2.71	1879	4.1	16.4
	19:45	2.72	1887	4.11	16.4
	20:00	2.71	1883	3.98	16.4
	20:15	2.72	1888	4.03	16.4
	20:30	2.71	1885	4.04	16.4
	20:45	2.72	1890	4.03	16.4
	21:00	2.7	1873	4.04	16.4
	21:15	2.73	1894	3.98	16.4
	21:30	2.73	1893	4.09	16.3
	21:45	2.68	1859	4.05	16.3
	22:00	2.69	1871	4	16.3
	22:15	2.69	1871	4.1	16.3
	22:30	2.71	1881	4.18	16.3
	22:45	2.7	1876	4.04	16.3
	23:00	2.71	1879	4.09	16.3
	23:15	2.71	1879	4.16	16.3
	23:30	2.7	1876	4.2	16.3
	23:45	2.69	1871	4.24	16.2
3/7/2014	0:00	2.69	1869	4.18	16.2
	0:15	2.73	1895	4.1	16.2
	0:30	2.71	1884	4.13	16.2
	0:45	2.7	1876	4.08	16.2
	1:00	2.7	1876	4.19	16.2
	1:15	2.69	1869	4.07	16.2
	1:30	2.7	1875	4.09	16.2
	1:45	2.7	1873	4.15	16.2
	2:00	2.69	1865	3.82	16.2
	2:15	2.7	1878	4.1	16.2
	2:30	2.68	1864	4.15	16.2
	2:45	2.69	1868	4.17	16.2
	3:00	2.7	1875	4.29	16.2
	3:15	2.69	1866	4.31	16.2
	3:30	2.71	1882	4.29	16.2
	3:45	2.7	1872	4.29	16.2
	4:00	2.69	1868	4.28	16.2
	4:15	2.7	1872	4.29	16.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	4:30	2.69	1866	4.3	16.1
	4:45	2.69	1867	4.27	16.1
	5:00	2.71	1885	4.3	16.1
	5:15	2.7	1875	4.33	16.1
	5:30	2.67	1854	4.3	16.1
	5:45	2.69	1869	4.39	16.1
	6:00	2.71	1879	4.3	16.1
	6:15	2.69	1870	4.31	16.1
	6:30	2.69	1870	4.46	16.1
	6:45	2.72	1886	4.33	16.1
	7:00	2.69	1869	4.36	16.1
	7:15	2.69	1870	4.22	16.1
	7:30	2.69	1866	4.12	16
	7:45	2.7	1872	4.15	16
	8:00	2.7	1877	4.08	16
	8:15	2.71	1882	4.15	16
	8:30	2.7	1872	4.15	16
	8:45	2.7	1875	3.88	16
	9:00	2.69	1869	4	16
	9:15	2.69	1867	3.86	16
	9:30	2.7	1875	3.69	16.1
	9:45	2.71	1881	3.67	16.1
	10:00	2.71	1883	3.76	16.1
	10:15	2.7	1874	3.57	16.2
	10:30	2.71	1883	3.56	16.2
	10:45	2.7	1872	3.43	16.2
	11:00	2.71	1881	3.53	16.3
	11:15	2.71	1884	3.53	16.3
	11:30	2.68	1864	3.29	16.4
	11:45	2.68	1861	3.42	16.4
	12:00	2.68	1863	3.29	16.4
	12:15	2.73	1894	3.13	16.5
	12:30	2.71	1881	3.17	16.5
	12:45	2.72	1887	3.15	16.6
	13:00	2.72	1889	3.11	16.6
	13:15	2.72	1889	3.09	16.7
	13:30	2.72	1889	3	16.7
	13:45	2.72	1889	3.07	16.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	14:00	2.72	1889	3.45	16.8
	14:15	2.72	1889	3.3	16.8
	14:30	2.72	1889	3.4	16.9
	14:45	2.72	1889	3.41	16.9
	15:00	2.72	1889	3.23	16.9
	15:15	2.72	1889	3.29	16.9
	15:30	2.72	1889	3.27	17
	15:45	2.72	1889	3.33	17
	16:00	2.72	1889	3.41	17
	16:15	2.72	1889	3.23	17
	16:30	2.72	1889	3.29	17
	16:45	2.74	1903	3.38	17
	17:00	2.77	1921	3.52	17
	17:15	2.77	1922	3.68	17
	17:30	2.74	1904	3.74	17
	17:45	2.73	1899	3.77	17
	18:00	2.73	1897	3.68	17
	18:15	2.74	1902	3.66	16.9
	18:30	2.71	1881	3.71	16.9
	18:45	2.7	1873	3.7	16.9
	19:00	2.7	1877	3.52	16.9
	19:15	2.72	1887	3.68	16.9
	19:30	2.72	1890	3.5	16.9
	19:45	2.73	1894	3.7	16.9
	20:00	2.72	1888	3.75	16.9
	20:15	2.7	1878	3.61	16.9
	20:30	2.71	1885	3.81	16.9
	20:45	2.72	1891	3.56	16.9
	21:00	2.74	1904	3.61	16.9
	21:15	2.73	1893	3.7	16.9
	21:30	2.73	1893	3.69	16.9
	21:45	2.71	1883	3.71	16.9
	22:00	2.72	1888	3.69	16.9
	22:15	2.71	1881	3.68	16.9
	22:30	2.72	1891	3.7	16.9
	22:45	2.71	1881	3.67	16.9
	23:00	2.7	1876	3.67	16.9
	23:15	2.71	1881	3.81	16.9

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	23:30	2.7	1875	3.8	16.9
	23:45	2.72	1891	3.86	16.9
3/8/2014	0:00	2.72	1886	3.85	16.9
	0:15	2.7	1874	3.85	16.8
	0:30	2.72	1886	3.86	16.8
	0:45	2.72	1888	3.81	16.8
	1:00	2.7	1875	3.82	16.8
	1:15	2.7	1878	3.84	16.8
	1:30	2.71	1879	3.76	16.8
	1:45	2.71	1880	3.82	16.8
	2:00	2.7	1876	4.03	16.9
	2:15	2.71	1879	3.99	16.9
	2:30	2.7	1877	4.09	16.9
	2:45	2.71	1880	4.11	16.8
	3:00	2.69	1869	4.05	16.8
	3:15	2.69	1868	4.17	16.8
	3:30	2.7	1874	4.16	16.8
	3:45	2.69	1869	4.19	16.8
	4:00	2.7	1872	4.49	16.7
	4:15	2.7	1875	4.45	16.7
	4:30	2.68	1861	4.23	16.6
	4:45	2.69	1867	4.17	16.6
	5:00	2.68	1863	4.06	16.6
	5:15	2.69	1869	4.09	16.6
	5:30	2.72	1886	4.12	16.6
	5:45	2.69	1869	4.11	16.6
	6:00	2.69	1867	4.09	16.5
	6:15	2.69	1866	3.95	16.5
	6:30	2.7	1872	4.05	16.5
	6:45	2.69	1870	4.09	16.5
	7:00	2.68	1862	3.93	16.5
	7:15	2.69	1865	3.89	16.4
	7:30	2.68	1861	4.05	16.4
	7:45	2.68	1862	4.03	16.4
	8:00	2.68	1863	4.02	16.4
	8:15	2.68	1862	4.12	16.4
	8:30	2.71	1879	4.2	16.3
	8:45	2.71	1882	4.3	16.3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	9:00	2.7	1875	4	16.3
	9:15	2.7	1878	3.84	16.3
	9:30	2.69	1870	3.78	16.3
	9:45	2.71	1879	3.77	16.3
	10:00	2.7	1875	3.8	16.3
	10:15	2.69	1871	3.8	16.2
	10:30	2.68	1864	3.81	16.2
	10:45	2.68	1860	3.87	16.2
	11:00	2.69	1871	3.8	16.2
	11:15	2.69	1869	3.88	16.2
	11:30	2.7	1873	3.79	16.2
	11:45	2.67	1856	3.76	16.2
	12:00	2.7	1878	3.65	16.2
	12:15	2.7	1873	3.67	16.2
	12:30	2.69	1866	3.77	16.2
	12:45	2.71	1884	3.69	16.2
	13:00	2.7	1874	3.61	16.2
	13:15	2.69	1869	3.57	16.2
	13:30	2.7	1874	3.62	16.2
	13:45	2.7	1875	3.68	16.2
	14:00	2.7	1878	3.65	16.2
	14:15	2.7	1878	3.67	16.2
	14:30	2.7	1872	3.79	16.1
	14:45	2.7	1872	3.83	16.1
	15:00	2.68	1863	3.83	16.1
	15:15	2.7	1877	3.87	16.1
	15:30	2.68	1864	3.81	16.1
	15:45	2.7	1876	3.82	16.1
	16:00	2.7	1876	3.67	16.1
	16:15	2.71	1881	3.64	16.1
	16:30	2.7	1878	3.7	16.1
	16:45	2.7	1873	4.18	16
	17:00	2.71	1879	3.98	16
	17:15	2.71	1883	4.09	16
	17:30	2.69	1869	3.98	16
	17:45	2.68	1862	4.03	16
	18:00	2.7	1874	4.11	16
	18:15	2.7	1878	4.13	16

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	18:30	2.7	1873	4.26	16
	18:45	2.69	1871	4.22	15.9
	19:00	2.69	1868	4.14	15.9
	19:15	2.71	1880	4.22	15.9
	19:30	2.7	1877	4.35	15.9
	19:45	2.67	1857	4.54	15.9
	20:00	2.7	1875	4.41	15.9
	20:15	2.71	1885	4.31	15.9
	20:30	2.71	1881	4.36	15.9
	20:45	2.7	1872	4.43	15.9
	21:00	2.69	1870	4.47	15.8
	21:15	2.7	1877	4.71	15.8
	21:30	2.68	1858	4.6	15.8
	21:45	2.73	1894	4.59	15.8
	22:00	2.69	1866	4.51	15.8
	22:15	2.7	1876	4.44	15.8
	22:30	2.69	1871	4.49	15.8
	22:45	2.71	1880	4.53	15.8
	23:00	2.71	1880	4.49	15.8
	23:15	2.69	1869	4.54	15.8
	23:30	2.7	1875	4.52	15.8
	23:45	2.69	1866	4.36	15.8
3/9/2014	0:00	2.71	1880	4.49	15.8
	0:15	2.69	1869	4.54	15.8
	0:30	2.7	1875	4.52	15.8
	0:45	2.69	1866	4.36	15.8
	1:00	2.7	1874	4.42	15.8
	1:15	2.71	1885	4.49	15.8
	1:30	2.71	1882	4.6	15.7
	1:45	2.7	1877	4.68	15.7
	2:00	2.69	1870	4.35	15.7
	2:15	2.71	1882	4.71	15.7
	2:30	2.69	1868	4.68	15.7
	2:45	2.71	1880	4.65	15.7
	3:00	####	time (	-	-
	3:15	####	time (	-	-
	3:30	####	time (	-	-
	3:45	2.77	1924	4.82	15.7

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	4:00	2.71	1885	4.78	15.7
	4:15	2.69	1870	4.86	15.7
	4:30	2.7	1875	4.84	15.7
	4:45	2.7	1876	4.87	15.7
	5:00	2.67	1857	4.81	15.7
	5:15	2.7	1874	4.85	15.7
	5:30	2.69	1868	4.85	15.7
	5:45	2.7	1872	4.83	15.7
	6:00	2.71	1885	4.83	15.7
	6:15	2.7	1875	4.85	15.7
	6:30	2.7	1877	4.89	15.7
	6:45	2.71	1883	4.88	15.7
	7:00	2.69	1868	4.77	15.7
	7:15	2.69	1871	4.85	15.7
	7:30	2.71	1881	4.9	15.7
	7:45	2.71	1879	4.85	15.7
	8:00	2.69	1866	4.87	15.7
	8:15	2.68	1863	4.86	15.7
	8:30	2.69	1866	4.87	15.7
	8:45	2.7	1876	4.85	15.7
	9:00	2.69	1867	4.93	15.7
	9:15	2.69	1871	4.89	15.7
	9:30	2.69	1869	4.91	15.7
	9:45	2.69	1871	4.79	15.7
	10:00	2.71	1881	4.96	15.7
	10:15	2.69	1871	4.87	15.7
	10:30	2.69	1870	4.71	15.7
	10:45	2.71	1881	4.84	15.7
	11:00	2.7	1875	4.86	15.7
	11:15	2.71	1882	4.73	15.7
	11:30	2.7	1875	4.68	15.7
	11:45	2.69	1867	4.39	15.7
	12:00	2.7	1874	4.24	15.7
	12:15	2.7	1874	4.2	15.7
	12:30	2.7	1873	4.15	15.8
	12:45	2.72	1889	4.16	15.8
	13:00	2.67	1854	3.96	15.8
	13:15	2.7	1876	3.79	15.9

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	13:30	2.7	1875	3.76	16
	13:45	2.7	1874	3.71	16
	14:00	2.73	1895	3.84	16.1
	14:15	2.73	1895	3.85	16.1
	14:30	2.71	1884	3.78	16.2
	14:45	2.71	1884	3.83	16.2
	15:00	2.71	1879	3.69	16.2
	15:15	2.71	1882	3.79	16.3
	15:30	2.71	1882	3.86	16.3
	15:45	2.72	1891	3.85	16.4
	16:00	2.71	1881	3.96	16.4
	16:15	2.72	1892	3.98	16.4
	16:30	2.71	1884	3.87	16.4
	16:45	2.72	1888	4.08	16.5
	17:00	2.71	1882	4.03	16.5
	17:15	2.73	1898	4	16.5
	17:30	2.73	1894	4.2	16.5
	17:45	2.74	1905	4.24	16.5
	18:00	2.76	1914	4.26	16.5
	18:15	2.73	1898	4.34	16.6
	18:30	2.75	1912	4.36	16.6
	18:45	2.72	1889	4.27	16.6
	19:00	2.74	1902	4.35	16.6
	19:15	2.74	1903	4.33	16.6
	19:30	2.71	1882	4.58	16.6
	19:45	2.71	1881	4.71	16.6
	20:00	2.72	1886	4.86	16.6
	20:15	2.71	1881	4.87	16.6
	20:30	2.71	1884	4.78	16.6
	20:45	2.69	1866	4.76	16.6
	21:00	2.69	1871	4.44	16.6
	21:15	2.71	1885	4.47	16.6
	21:30	2.7	1875	4.51	16.6
	21:45	2.69	1871	4.53	16.6
	22:00	2.7	1876	4.62	16.6
	22:15	2.71	1882	4.69	16.6
	22:30	2.71	1881	4.66	16.5
	22:45	2.72	1886	4.82	16.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	23:00	2.72	1889	4.7	16.5
	23:15	2.68	1858	4.67	16.5
	23:30	2.7	1878	4.86	16.5
	23:45	2.68	1864	4.74	16.5
3/10/2014	0:00	2.68	1862	4.8	16.5
	0:15	2.7	1877	4.81	16.5
	0:30	2.71	1881	4.71	16.4
	0:45	2.7	1873	4.7	16.4
	1:00	2.7	1877	4.7	16.4
	1:15	2.7	1877	4.8	16.4
	1:30	2.7	1874	4.71	16.4
	1:45	2.7	1875	4.71	16.4
	2:00	2.69	1869	6.23	16.4
	2:15	2.7	1872	4.7	16.4
	2:30	2.68	1863	4.8	16.4
	2:45	2.69	1866	4.79	16.4
	3:00	2.69	1870	4.88	16.4
	3:15	2.71	1879	4.97	16.4
	3:30	2.68	1860	5	16.4
	3:45	2.69	1869	5.11	16.4
	4:00	2.7	1878	5.12	16.3
	4:15	2.69	1870	4.97	16.3
	4:30	2.7	1875	5.24	16.3
	4:45	2.7	1877	5.03	16.3
	5:00	2.68	1859	5.04	16.3
	5:15	2.7	1876	5.05	16.3
	5:30	2.7	1873	5.14	16.3
	5:45	2.69	1866	5.32	16.3
	6:00	2.71	1879	5.39	16.3
	6:15	2.69	1866	5.24	16.2
	6:30	2.71	1879	5.49	16.2
	6:45	2.68	1863	5.31	16.2
	7:00	2.69	1868	5.2	16.2
	7:15	2.68	1859	5.41	16.2
	7:30	2.69	1869	5.53	16.2
	7:45	2.69	1869	5.83	16.2
	8:00	2.69	1869	5.85	16.2
	8:15	2.7	1874	5.62	16.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	8:30	2.68	1860	5.71	16.2
	8:45	2.7	1872	5.76	16.2
	9:00	2.7	1878	5.71	16.2
	9:15	2.72	1888	5.85	16.2
	9:30	2.7	1876	5.51	16.2
	9:45	2.71	1880	5.79	16.2
	10:00	2.71	1880	5.26	16.2
	10:15	2.71	1882	5.05	16.3
	10:30	2.69	1868	5.37	16.3
	10:45	2.71	1879	5.09	16.3
	11:00	2.7	1876	4.79	16.4
	11:15	2.71	1880	5.17	16.4
	11:30	2.7	1875	4.96	16.5
	11:45	2.71	1879	5.35	16.5
	12:00	2.71	1885	5.39	16.6
	12:15	2.7	1872	5.28	16.6
	12:30	2.71	1880	5.93	16.7
	12:45	2.72	1890	5.4	16.7
	13:00	2.72	1887	5.29	16.8
	13:15	2.71	1882	7.1	16.8
	13:30	2.71	1884	5.65	16.9
	13:45	2.72	1887	5.78	16.9
	14:00	2.73	1893	5.84	17
	14:15	2.74	1906	5.64	17
	14:30	2.71	1885	6.06	17.1
	14:45	2.73	1896	5.6	17.1
	15:00	2.73	1897	5.63	17.2
	15:15	2.72	1892	5.76	17.2
	15:30	2.74	1903	5.63	17.2
	15:45	2.75	1907	6.11	17.3
	16:00	2.73	1896	6.69	17.3
	16:15	2.73	1898	6.02	17.3
	16:30	2.75	1912	7.25	17.3
	16:45	2.75	1908	6.19	17.3
	17:00	2.75	1912	5.86	17.4
	17:15	2.76	1917	6	17.4
	17:30	2.77	1922	5.29	17.4
	17:45	2.75	1907	5.56	17.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	18:00	2.74	1900	5.42	17.3
	18:15	2.77	1925	5.32	17.3
	18:30	2.76	1919	5.6	17.3
	18:45	2.73	1898	5.04	17.3
	19:00	2.73	1895	5.09	17.3
	19:15	2.72	1890	5.68	17.2
	19:30	2.72	1886	5.7	17.2
	19:45	2.73	1893	5.64	17.2
	20:00	2.71	1885	5.84	17.3
	20:15	2.73	1895	5.87	17.3
	20:30	2.72	1886	5.66	17.3
	20:45	2.73	1894	5.43	17.3
	21:00	2.72	1889	5.2	17.3
	21:15	2.72	1892	5.86	17.3
	21:30	2.71	1884	5.62	17.3
	21:45	2.72	1886	5.39	17.3
	22:00	2.71	1879	5.56	17.3
	22:15	2.72	1888	5.4	17.3
	22:30	2.75	1907	4.96	17.2
	22:45	2.73	1899	4.72	17.2
	23:00	2.73	1894	4.79	17.2
	23:15	2.73	1898	5.06	17.2
	23:30	2.72	1888	4.91	17.2
	23:45	2.72	1887	4.87	17.2
3/11/2014	0:00	2.75	1907	4.95	17.2
	0:15	2.72	1888	4.88	17.2
	0:30	2.7	1873	4.66	17.2
	0:45	2.71	1879	4.52	17.2
	1:00	2.72	1887	4.66	17.2
	1:15	2.71	1883	4.87	17.2
	1:30	2.71	1882	4.74	17.2
	1:45	2.72	1887	4.84	17.2
	2:00	2.69	1867	5.08	17.2
	2:15	2.7	1875	6.29	17.2
	2:30	2.71	1881	4.99	17.2
	2:45	2.73	1895	5.07	17.2
	3:00	2.72	1890	5.12	17.2
	3:15	2.72	1886	5.45	17.2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

15 minute data

		TCEQ-1J			
Date	Time	Flow (MGD)	Flow (gpm)	Turbidity	Temp
	3:30	2.71	1880	5.49	17.2
	3:45	2.72	1892	5.14	17.2
	4:00	2.69	1871	5.63	17.2
	4:15	2.71	1884	5.09	17.2
	4:30	2.69	1871	5	17.2
	4:45	2.69	1870	4.83	17.2
	5:00	2.69	1869	4.78	17.2
	5:15	2.7	1872	4.99	17.2
	5:30	2.68	1863	5.05	17.2
	5:45	2.7	1873	5.01	17.2
	6:00	2.69	1868	4.92	17.2
	6:15	2.69	1865	4.82	17.1
	6:30	2.71	1882	4.85	17.1
	6:45	2.7	1874	5.06	17.1
	7:00	2.69	1868	4.94	17.1
	7:15	2.69	1867	5.21	17.1
	7:30	2.71	1879	5.1	17.1
	7:45	2.69	1869	4.99	17.1
	8:00	2.68	1859	5.07	17.1
	8:15	2.69	1867	4.72	17.1
	8:30	2.69	1870	4.79	17.1
	8:45	2.68	1861	4.83	17.1
	9:00	2.7	1878	4.98	17.1
	9:15	2.72	1887	4.98	17.1
	9:30	2.72	1892	4.88	17.1
	9:45	2.75	1911	7.13	17.1
	10:00	2.71	1884	5.39	17.1
	10:15	2.72	1886	5.55	17.2
	10:30	2.73	1898	4.4	17.2
	10:45	2.71	1884	4.4	17.2
	11:00	2.7	1875	4.15	17.2
	11:15	2.69	1870	4.01	17.3
	11:30	2.74	1902	3.84	17.3
	11:45	2.74	1905	3.8	17.4

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Daily data

	TCEQ-23J									
Date	*E. coli* (CFU)	*Giardia* on-site	*Cryptosporidium* on-site	*Giardia* off-site (cysts/L)	*Cryptosporidium* off-site (oocysts/L)	CBOD	TSS	Flow	Max NTU	Nitrate
1/27/2014	900	0	0	11	0	4.11	13.8	2.76	3.75	15.7
1/28/2014	3300	0	0			5.43	10.2	2.77	3.59	11.3
1/29/2014	1660	0	0			4.54	12	2.86	4.77	15.3
1/30/2014	1300	0	0			4.68	10	2.9	3.15	12
1/31/2014	2600	0	0			4.06	3.89	2.92	5.93	15.8
2/1/2014	2100	0	0			3.56	8	2.96	4.23	12.5
2/2/2014	2800	0	0			3.85	8.2	2.94	4.85	18.2
2/3/2014	3800	0	0			3.98	9	2.95	5.24	14.9
2/4/2014	5100	0	0			4.33	10.6	2.73	5.16	12.1
2/5/2014	3000	0	0			3.75	9.4	2.82	5.05	14.1
2/6/2014	3300	0	0			4.24	10	2.72	5.18	13.2
2/7/2014	5000	0	0			4.6	9.2	2.72	6.09	17.5
2/8/2014	4600	0	0			3.74	8.2	2.72	5.99	13.5
2/9/2014	3900	0	0			4.69	9.4	2.72	6.19	12
2/10/2014	2600	0	0			4.31	9.8	2.71	6.16	15.1
2/11/2014	2700	0	0			5.32	10	2.71	6.42	12.5
2/12/2014	3500	0	0			4.59	9.4	2.7	4.32	11.6
2/13/2014	3500	0	0			4.79	10	2.71	4.35	13.4
2/14/2014	350	0	0			4.87	9.6	2.71	4.35	12.4
2/15/2014	2540	0	0			4.44	8.8	2.71	4.53	14.5
2/16/2014	4200	0	0			4.41	7.6	2.71	5.94	15.1
2/17/2014	1870	0	0			4.98	7.4	2.71	10.8	16.2
2/18/2014	2400	0	0			4.99	8.2	2.72	2.79	15.8
2/19/2014	3800	0	0			4.08	6.2	2.71	7.46	12.7
2/20/2014	2000	0	0			3.97	7.2	2.71	4.63	13.7
2/21/2014	2200	0	0			4.69	9.2	2.71	5.02	15.2
2/22/2014	2100	0	0			4.89	9.6	2.71	4.38	14.2
2/23/2014	3500	0	0			4.4	9.4	2.69	4.92	16.8
2/24/2014	2800	0	0			5.03	12.6	2.69	5.29	17.5
2/25/2014	2800	0	0			5.09	10.4	2.7	5.46	14.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Daily data

	TCEQ-23J									
Date	*E. coli* (CFU)	*Giardia* on-site	*Cryptosporidium* on-site	*Giardia* off-site (cysts/L)	*Cryptosporidium* off-site (oocysts/L)	CBOD	TSS	Flow	Max NTU	Nitrate
2/26/2014	2300	0	0	106	2.13	4.84	11.6	2.69	6.35	17.2
2/27/2014	2300	0	0			4.76	10.2	2.72	6.5	14.1
2/28/2014	2400	0	0			4.46	9.4	2.71	5.36	16.6
3/1/2014	2700	0	0			4.29	8.8	2.71	4.72	14.1
3/2/2014	2030	0	0			3.93	10.6	2.69	5.09	19.7
3/3/2014	3400	0	0			4.15	11.2	2.7	5.8	18.3
3/4/2014	3100	0	0			4.36	11.2	2.7	6	16.4
3/5/2014	4400	0	0			4.61	10	2.71	5.2	19.9
3/6/2014	2100	0	0			4.12	9	2.7	5.49	14.9
3/7/2014	2020	0	0			3.71	9.4	2.71	4.46	13.8
3/8/2014	3200	0	0			4.53	10	2.7	4.71	13.5
3/9/2014	5100	0	0			5.21	11.2	2.7	4.96	16.7
3/10/2014	3800	0	0			4.91	14	2.71	7.25	15.6
3/11/2014	4400	0	0	203	4.24	4.42	11	2.71	7.13	14.5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Weekly data

		TCEQ-1J														
	Date	TDS	Alkalinity	TOC	DOC on-site	DOC off-site	Arsenic (ug/L)	Barium (ug/L)	Cadmium (ug/L)	Chromium (ug/L)	Copper (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Nickel (ug/L)	Selenium (ug/L)
	1/27/2014		107													
	1/28/2014															
	1/29/2014	660		12.4		12	2.2	17	0	0	6.8	0	39	0	3.5	2.5
Week 1	1/30/2014															
	1/31/2014															
	2/1/2014															
	2/2/2014															
	2/3/2014		94	14.4												
	2/4/2014															
	2/5/2014	650				11.2	2.1	18	0	0	2.4	0	45	0	3.4	2.3
Week 2	2/6/2014															
	2/7/2014															
	2/8/2014															
	2/9/2014															
	2/10/2014		101	14.6	12.9											
	2/11/2014															
	2/12/2014	730				12.7	1.5	15	0	0	2.2	0	45	0	3.3	0
Week 3	2/13/2014															
	2/14/2014															
	2/15/2014															
	2/16/2014															
	2/17/2014		126	15.1	13.7											
	2/18/2014															
	2/19/2014	720				13.1	1.9	15	0	0	2.3	0	48	0	4.9	2.2
Week 4	2/20/2014															
	2/21/2014															
	2/22/2014															
	2/23/2014															
	2/24/2014		98	15.8	13.9											
	2/25/2014															
	2/26/2014	750	107	16.6	13.6	14	1.2	13	0	0	4.1	0	43	0	4.2	3
Week 5	2/27/2014															
	2/28/2014															
	3/1/2014															
	3/2/2014															
	3/3/2014		97													
	3/4/2014															

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Weekly data

		TCEQ-1J														
	Date	TDS	Alkalinity	TOC	DOC on-site	DOC off-site	Arsenic (ug/L)	Barium (ug/L)	Cadmium (ug/L)	Chromium (ug/L)	Copper (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Nickel (ug/L)	Selenium (ug/L)
Week 6	3/5/2014					14.4	1.9	15	0	0	6.8	0	41	0	5.1	0
	3/6/2014															
	3/7/2014		113	18.2	13.9											
	3/8/2014															
	3/9/2014															
Week 7	3/10/2014		101	17.1	14.6											
	3/11/2014	900	98	18	14.8	13.4	0	10	0	0	0	0	42	0	0	0

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Weekly data

	Date	Silver (ug/L)	Zinc (ug/L)	TTHM (ug/L)	HAA5 (ug/L)	Bromide
	1/27/2014					
	1/28/2014					
	1/29/2014	0	25	0.9	1.7	1.5
Week 1	1/30/2014					
	1/31/2014					
	2/1/2014					
	2/2/2014					
	2/3/2014			0	1.2	
	2/4/2014					
	2/5/2014	0	23	1.4	2.3	1.1
Week 2	2/6/2014					
	2/7/2014					
	2/8/2014					
	2/9/2014					
	2/10/2014					
	2/11/2014					
	2/12/2014	0	18	0.6	1.2	1.2
Week 3	2/13/2014					
	2/14/2014					
	2/15/2014					
	2/16/2014					
	2/17/2014					
	2/18/2014					
	2/19/2014	0	26	0.9	1.6	1.1
Week 4	2/20/2014					
	2/21/2014					
	2/22/2014					
	2/23/2014					
	2/24/2014					
	2/25/2014					
	2/26/2014	0	27	1	2.1	1.2
Week 5	2/27/2014					
	2/28/2014					
	3/1/2014					
	3/2/2014					
	3/3/2014					
	3/4/2014					

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Weekly data

	Date	Silver (ug/L)	Zinc (ug/L)	TTHM (ug/L)	HAA5 (ug/L)	Bromide
Week 6	3/5/2014	0	33	1.1	1.9	1.3
	3/6/2014					
	3/7/2014					
	3/8/2014					
	3/9/2014					
Week 7	3/10/2014					
	3/11/2014	0	32	0	2.2	1.3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	*E. coli* off-site	*Giardia* off-site (Cysts/L)	*Cryptosporidium* off-site (Oocysts/L)	TCV off-site MPN/L	Algae Count	Perchlorate (ug/L)	Antimony (ug/L)	Arsenic (ug/L)
1/27/2014		11	0	0.02	1975	<2	<1	<2
2/26/2014	1028	105.544	2.132		2002	0.13	<1	1.4
3/11/2014	<2419.6	203.39	4.237		379	0.14	<1	<5

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Asbestos	Barium (ug/L)	Beryllium (ug/L)	Cadmium (ug/L)	Chromium (ug/L0	Cyanide (mg/L)	Fluoride (mg/L)	Lead (ug/L)
1/27/2014	<0.09	19	<1	<0.5	<1	0.005	0.81	<1
2/26/2014	<1.3	12	<0.3	<1	<0.9	<0.01	0.9	<2
3/11/2014	<0.7	10	<1.5	<5	<4.5	<0.01	2.1	<3

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Mercury (ug/)	Nitrate as Nitrogen (mg/L)	Nitrite as Nitrogen (mg/L)	Nitrate & Nitrite (Total) (mg/L)	Selenium (ug/L)	Thallium (ug/L)	Alachlor (ug/L)	Atrazine (ug/L)
1/27/2014	<0.2	14	<0.1	14	<5	<1	<0.05	<0.06
2/26/2014	<0.1	16	0.35	16.35	3.2	<0.3	<0.1	<0.1
3/11/2014	<0.2	14	0.23	14.23	<10	<0.4	<0.1	<0.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Benzopyrene (ug/L)	Carbofuran (ug/L)	Chlordane (ug/L)	Dalapon (ug/L)	Dibromochloropropane (ug/L)	Di(2-ethylhexyl)adipate (ug/L)	Di(2-ethylhexyl)phtalate (ug/L)	Dinoseb (ug/L)
1/27/2014	<0.02	<0.5	<0.1	<1	<0.01	<0.6	<0.6	<0.2
2/26/2014	<0.02	<0.9	<0.1	<1	<0.2	<0.6	<0.6	<0.1
3/11/2014	<0.02	<0.9	<0.1	<1	<0.8	<0.6	<0.6	<0.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Diquat (ug/L)	Endothall (ug/L)	Endrin (ug/L)	Ethylene Dibromide (ug/L)	Glyphosate (ug/L)	Heptachlor (ug/L)	Heptachlor epoxide (ug/L)	Hexachlorobenzene (ug/L)
1/27/2014	<0.4	<5	<0.01	<0.01	<6	<0.01	<0.01	<0.05
2/26/2014	<0.4	<9	<0.01	<0.2	<6	<0.04	<0.2	<0.1
3/11/2014	<0.6	<9	<0.01	<0.2	<6	<0.04	0.02	<0.1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Hexachlorocyclopentadiene (ug/L)	Lindane (ug/L)	Methoxychlor (ug/L)	Oxamyl (Vydate) (ug/L)	Pentachlorophenol (ug/L)	Picloram (ug/L)	Polychlorinated biphenyls (PCB) (ug/L)	Simazine (ug/L)
								TCEQ-1J
1/27/2014	<0.05	<0.01	<0.05	<0.5	<0.04	<0.1	<0.1	<0.05
2/26/2014	<0.1	<0.02	<0.1	<1	<0.04	<0.1	<0.1	0.62
3/11/2014	<0.1	<0.02	<0.1	<1	<0.04	<0.1	<0.1	1

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Toxaphene (ug/L)	2,3,7,8-TCDD (Dioxin) (ug/L)	2,4,5-TP (ug/L)	2,4-D (ug/L)	1,1-Dichloroethylene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1,2-Trichloroethane (ug/L)	1,2-Dichloroethane (ug/L)
1/27/2014	<0.5	<2	<0.2	<0.1	<0.5	<0.5	<0.5	<0.5
2/26/2014	<1	<5	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5
3/11/2014	<1	<10	<0.1	1.6	<2	<2	<2	<2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	1,2-Dichloropropane (ug/L)	1,2,4-Trichlorobenzene (ug/L)	Benzene (ug/L)	Carbon tetrachloride (ug/L)	cis-1,2-Dichloroethylene (ug/L)	Dichloromethane	Ethylbenzene (ug/L)	Monochlorobenzene (ug/L)
1/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2/26/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/11/2014	<2	<2	<2	<2	<2	<2	<2	<2

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	o-Dichlorobenzene (ug/L)	para-Dichlorobenzene (ug/L)	Styrene (ug/L)	Tetrachloroethylene (ug/L)	Toluene (ug/L)	trans-1,2-Dichloroethylene (ug/L)	Trichloroethylene (ug/L)	Vinyl chloride (ug/L)
1/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.3
2/26/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.2
3/11/2014	<2	<2	<2	<2	<2	<2	<2	<0.8

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Xylenes (total) (ug/L)	Aluminum (ug/L)	Chloride (mg/L)	Color	Copper (ug/L)	Corrosivity (Aggressive Index)	Foaming agents	Hydrogen sulfide (mg/L)
1/27/2014	<0.5	<20	230	35	<2	12	<0.2	<2
2/26/2014	<0.6	18	270	30	3.7	10.3	<0.2	<3
3/11/2014	<2	33	260	35	<5	10.4	<0.2	

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Iron (mg/L)	Manganese (ug/L)	Odor	pH	Silver (ug/L)	Sulfate (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)
1/27/2014	<0.02	42	8	7.4	<0.5	62	0.31	<0.62
2/26/2014	0.2	42	8	6.9	<2	62	0.079	<0.54
3/11/2014	0.26	42	8	7.1	<10	68		

TCEQ-1J: River Road WWTP Effluent

(at RR WWTP chlorine injection box after second clarification and prior to WW DZ 1 chlorine injection point)

Start, Day 3, End data

Date	Uranium (UG/L)	Gross Alpha Activity (pCi/L)	Gross Beta Particle Activity (pCi/L)	Tritium (pCi/L)	Strontium 90 (pCi/L)	TDS (mg/L)	Zinc (ug/L)
1/27/2014	0.15	<2	23.4	<370	<0.58	690	20
2/26/2014	0.13	<2.1	26.4	<370	<0.68	740	26
3/11/2014						900	32

TCEQ 1J Offsite Laboratory Data Summary

BioVir Laboratories, Inc

NELAC #05234CA
EPA ID# 01401, CA-ELAP #179

685 Stone Road, Unit 6 • Benicia, CA 94510 • (707) 747-5906 • 1-800-GIARDIA • FAX (707) 747-1751 • WEB: www.biovir.com

LAB Sample ID: 140046-007

Client / Address: WICHITA FALLS, PO Box 1431, WICHITA FALLS TX 76307
Client No: WIC002 **Purchase Order No:** N/A
PWS ID: N/A **Facility ID:** WW Treatment 1005 River Road, Wichita
Client Contact: Mark Sutherland, **Client Phone:** 940-691-1153

SAMPLE INFORMATION:

Name of Sampler: Bill Thornton **Customer Sample No.:** HVF Wastewater River Rd Eff
Matrix: Waste Water, treated **Date/Time Received:** 1/28/2014 10:00:00 AM
Sample Point ID: Wastewater River Rd Eff **Check-in Temp. (0-20C)** 1.8
Sample Collection Date: 1/27/2014 **Container Type:** HV Envirochek
Sample Time: 9:47:00 AM
Comments: Turbidity = 3.0 NTU Calculated Results: <0.01 Oocysts / Liter (Crypto), 11.0 Cysts / Liter (Giardia). 10 slides examined

ASSAY RESULTS: 1623 EPA 821-R-01-025

Sample Preparation

Analysis Date / Time	1/31/14-1647	Filter Type	Envirochek HV
Filter Serial #	519844	Sample Vol Filtered	116.2 L
Sample Vol Examined	116.2 L	Number of Filters	1
Resuspended Conc. Vol.	100 mL	Pellet Volume	10.0 mL
Elution date	1/28/14	Elution Time	1225
Resample	No	Original Sample Date	
Analyst	kw		

Sample Results

Analyte	Crypto
No. of Crypto	0
Analyte 2	Giardia
No. of Giardia	1281

Sample Q. C

OPR Crypto Results	58 %
OPR Giardia Results	69 %
Method Blank Results	0

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. B ioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.
COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or disposed.
MAINTENANCE OF RECORDS: BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records m ay be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF BIOVIR LABORATORIES, INC.

2/14/2014
Report Date

Richard E Daniel
Signature

Quality Checked LBarriga

REPORT NO.: 140046
PAGE NO.: 2 of 2
CLIENT: WICHITA FALLS
ADDRESS PO Box 1431
WICHITA FALLS, TX 76307
CLIENT NO WIC002 **CLIENT PO:** N/A

ASSAY RESULTS:

Test: EPA 1615 **Method: EPA 1615**

BioVir #	Sample ID	Site	Analyte	Result	Units
140046-005	**Surface Water**	**Secondary Reservoir**	**Total Culturable Virus**	**<0.044**	**MPN/L**

Collector Kalim Qadeer CollectDate 1/27/2014 CollectTime: 7:45:00 AM
ReceiveDate 1/28/2014 10:00:00 AM Matrix: Raw Water Temp 1.8 C
Volume: 75.7 L Analysis Start Date: 1/28/2014 Analysis Start Time: 1324
Analyst: ValentinaL Analysis End: 3/4/2014

Comment Rec'd. without label on sample housing. ID'd thru elimination of 5 other labeled housings

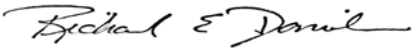
BioVir #	Sample ID	Site	Analyte	Result	Units
140046-006	**Wastewater Effluent**	**Wastewater Effluent**	**Total Culturable Virus**	**0.02**	**MPN/L**

Collector Diana Graham CollectDate 1/27/2014 CollectTime: 6:51:00 AM
ReceiveDate 1/28/2014 10:00:00 AM Matrix: Waste Water, treated Temp 3.3 C
Volume: 465.2 L Analysis Start Date: 1/28/2014 Analysis Start Time: 1400
Analyst: ValentinaL Analysis End: 3/4/2014

Comment

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. B ioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.
COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or disposed.
MAINTENANCE OF RECORDS: BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records m ay be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF BIOVIR LABORATORIES, INC.

3/10/2014
Date:


Signature

Quality Checked LBarriga

Client Name: City of Wichita Falls Report #: 312658

Sampling Point: TCEQ 1J-Wastewater Effluent PWS ID: TX2430001

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Giardia $	1623	---	1.066	**105.544**	cysts/L	---	02/28/14 09:00	2981716
---	Cryptosporidium $	1623	---	1.066	**2.132**	oocysts/L	---	02/28/14 09:00	2981716

For method 1623: The calculated MRL value is dependant on the volume filtered and the volume analyzed for each sample.

$ The state of origin does not offer certification for this parameter.

Sampling Point: TCEQ 4J-RO flow Control Vault PWS ID: TX2430001

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Giardia $	1623	---	0.158	**33.017**	cysts/L	---	02/28/14 09:00	2981717
---	Cryptosporidium $	1623	---	0.158	**0.316**	oocysts/L	---	02/28/14 09:00	2981717

For method 1623: The calculated MRL value is dependant on the volume filtered and the volume analyzed for each sample.

$ The state of origin does not offer certification for this parameter.

Sampling Point: TCEQ 10J-MF Filtrate PWS ID: TX2430001

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Giardia $	1623	---	0.067	< 0.067	cysts/L	---	02/28/14 09:00	2981718
---	Cryptosporidium $	1623	---	0.067	< 0.067	oocysts/L	---	02/28/14 09:00	2981718

For method 1623: The calculated MRL value is dependant on the volume filtered and the volume analyzed for each sample.

$ The state of origin does not offer certification for this parameter.

Sampling Point: TCEQ 20J-RO Permeate PWS ID: TX2430001

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Giardia $	1623	---	0.010	< 0.010	cysts/L	---	02/28/14 09:00	2981719
---	Cryptosporidium $	1623	---	0.010	< 0.010	oocysts/L	---	02/28/14 09:00	2981719

For method 1623: The calculated MRL value is dependant on the volume filtered and the volume analyzed for each sample.

$ The state of origin does not offer certification for this parameter.

E.Coli

~~FECAL COLIFORM~~ BACTERIOLOGY

Form FC (Revised Dec 10)

Wichita Falls Public Health District
Laboratory Services Division

Sample Number: 083832 '14 FEB 26

PLEASE Print Below with BALLPOINT Pen

2430001 — Water System ID Nbr.

CITY OF WICHITA FALLS — Name of Water System

1J RRWWTP Effluent — Point of Collection

WICHITA — County

Submitter Phone Nbr: 397-2540 Submitter Fax Nbr: _____

SEND RESULTS TO

Name: Bill Thornton & Blair Ramon

Street Address: 1005 River Road

City, State, Zip: W.F. Tx 76305

TYPE OF SYSTEM X Public ___ Individual/Private

SAMPLE IS X Raw Effluent ___ Raw

WATER SOURCE ___ River ___ Lake ___ Both River and Lake ___ Well: _____ Depth

Chlorine Residual: Free: Ø Total: Ø

Other Special Information: Arrival Temperature: 12.9 °C

	Month - Day - Year	Time	AM - PM	
Date & Time of Collection	2/26/14	9:13	X/	A. Graham — Collected by:
Received for Delivery by	___/___/___	___:___	___/___	_____ — Received by:
Received by Laboratory	02/26/___	09:32	✓/___	[signature] — Received by:

Chlorine Free Ø Total Ø

LABORATORY REPORT (Do Not Write in this Space)

~~FECAL COLIFORM ORGANISMS:~~ Test Method: Colilert

Performed by: [signature] on 02/26/14 (Month - Day - Year) at 10:30 (Time) AM PM

Reported by: Jessica A on 02/27/14 (Month - Day - Year) at 1:50 (Time) AM PM

RESULTS: 755.6 MPN per 100 ml as ~~Fecal Coliforms~~ (E. Coli)

____ **Unsuitable** for Analysis - **PLEASE** Resubmit. **Reason:**

DUPLICATE 1299.7 MPN/100ml as E.Coli

Lot #: 130835S
EXP: 07-2015

Wichita Falls/Wichita County Public Health District Laboratory, CLIA #45D0672374
1700 Third Street, Wichita Falls, Texas 76301-2113
Phone: 940-761-7835 - Fax: 940-761-7878

BLANK <1.0 MPN/100ml as E.Coli

E.Coli

~~FECAL COLIFORM~~ BACTERIOLOGY

Form ~~FC (Revised Apr 09)~~ -QA-007

Wichita Falls Public Health District
Laboratory Services Division

Sample Number: 063926 '14 MAR 11

PLEASE Print Below with BALLPOINT Pen or TYPEWRITER

2430001 — Water System ID Nbr.

CITY OF WICHITA FALLS — Name of Water System

RRWWTP Effluent — Point of Collection

WICHITA — County

Submitter ID Nbr: 940-691-1153 Submitter Phone Nbr: 940 691-4121

SEND RESULTS TO

Name: Blair Ramen

Street Address: 4801 Big Ed Neal Drive

City, State, Zip: Wichita Falls, Tx 76310

TYPE OF SYSTEM X Public ___ Dairy ___ Private ___ Bottled ___ School ___ Pool

SAMPLE IS X Distribution ___ Raw ___ River ___ Lake ___ Construction

WATER SOURCE ___ Repeat ___ Special ___ Well ___ Depth

Other Special Information: ARRIVAL TEMP. 10.6°C ON ICE

Date & Time of Collection	3 / 11 / 14 (Month - Day - Year)	8:40 (Time)	AM - PM	DG (Collected by:)
Received for Delivery by	___/___/___	___:___	___/___	
Received by Laboratory	3 / 11 / 2014	9:40	AM - PM	JME (Received by:)

FREE Cl- 0 TOTAL Cl- 0

LABORATORY REPORT (Do Not Write in this Space)

~~FECAL COLIFORM ORGANISMS:~~ Test Method: ✓ Colilert ___ ~~MPT~~

Performed by: JA on 3 / 11 / 14 (Month - Day - Year) at 10:45 (Time) AM PM

Reported by: JHaye on 3 / 12 / 14 (Month - Day - Year) at 11:15 (Time) AM PM

RESULTS: >2419.6 MPN per 100 ml as ~~Fecal Coliforms~~ (E. Coli)

DUPLICATE >2419.6 MPN/100ml as E.Coli

~~Unsuitable~~ for Analysis. ~~PLEASE~~ Resubmit. **Reason:**

BLANK ~~>2419.6~~ Blank <1.0 MPN/100ml as E.Coli

Lot #: 1808356
Exp: 09-2015

Wichita Falls/Wichita County Public Health District Laboratory, CLIA #45D0672374
1700 Third Street, Wichita Falls, Texas 76301-2113
Phone: 940-761-7835 - Fax: 940-761-7878

Client: City of Wichita Falls
Project: DPR Verification
Sample ID: Wastewater Effluent
Legal Location:
Collection Date: 1/27/2014 06:00

Date: *07-Feb-14*
Work Order: 1401337
Lab ID: 1401337-5
Matrix: WATER
Percent Moisture: 100.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GAMMA SPECTROSCOPY RESULTS			**PAI 713**		Prep Date: **1/29/2014**	PrepBy: **SAM**
Ac-228	ND (+/- 29)	U	49	pCi/l	NA	1/30/2014 08:32
Ag-110m	ND (+/- 4.8)	U	8.9	pCi/l	NA	1/30/2014 08:32
Al-26	ND (+/- 6.4)	U	11.2	pCi/l	NA	1/30/2014 08:32
Am-241	ND (+/- 27)	U	49	pCi/l	NA	1/30/2014 08:32
Be-7	ND (+/- 34)	U	59	pCi/l	NA	1/30/2014 08:32
Bi-212	ND (+/- 91)	U	156	pCi/l	NA	1/30/2014 08:32
Bi-214	ND (+/- 16)	U,J	27	pCi/l	NA	1/30/2014 08:32
Ce-139	ND (+/- 2.9)	U	5.1	pCi/l	NA	1/30/2014 08:32
Ce-144	ND (+/- 20)	U	36	pCi/l	NA	1/30/2014 08:32
Co-56	ND (+/- 9.1)	U	15.1	pCi/l	NA	1/30/2014 08:32
Co-57	ND (+/- 2.8)	U	4.9	pCi/l	NA	1/30/2014 08:32
Co-58	ND (+/- 4.9)	U	8.1	pCi/l	NA	1/30/2014 08:32
Co-60	ND (+/- 5.4)	U	10.5	pCi/l	NA	1/30/2014 08:32
Cr-51	ND (+/- 38)	U	67	pCi/l	NA	1/30/2014 08:32
Cs-134	ND (+/- 5.4)	U	9.2	pCi/l	NA	1/30/2014 08:32
Cs-137	ND (+/- 5.5)	U	9.8	pCi/l	NA	1/30/2014 08:32
Eu-152	ND (+/- 30)	U	51	pCi/l	NA	1/30/2014 08:32
Eu-154	ND (+/- 30)	U	48	pCi/l	NA	1/30/2014 08:32
Eu-155	ND (+/- 12)	U	20	pCi/l	NA	1/30/2014 08:32
Fe-59	ND (+/- 10)	U	17	pCi/l	NA	1/30/2014 08:32
I-131	ND (+/- 7.7)	U	12.5	pCi/l	NA	1/30/2014 08:32
K-40	ND (+/- 80)	U	143	pCi/l	NA	1/30/2014 08:32
Mn-54	ND (+/- 5.1)	U	8.7	pCi/l	NA	1/30/2014 08:32
Na-22	ND (+/- 5.1)	U	10	pCi/l	NA	1/30/2014 08:32
Nb-94	ND (+/- 5.2)	U	8.8	pCi/l	NA	1/30/2014 08:32
Nb-95	ND (+/- 4.7)	U	8.9	pCi/l	NA	1/30/2014 08:32
Pa-234m	ND (+/- 960)	U	1710	pCi/l	NA	1/30/2014 08:32
Pb-212	ND (+/- 9.6)	U	16.5	pCi/l	NA	1/30/2014 08:32
Pb-214	ND (+/- 14)	U,J	25	pCi/l	NA	1/30/2014 08:32
Ru-106	ND (+/- 50)	U	94	pCi/l	NA	1/30/2014 08:32
Sb-124	ND (+/- 5.6)	U	9.6	pCi/l	NA	1/30/2014 08:32
Sb-125	ND (+/- 12)	U	20	pCi/l	NA	1/30/2014 08:32
Sc-46	ND (+/- 4.9)	U	8.9	pCi/l	NA	1/30/2014 08:32
Th-227	ND (+/- 23)	U	41	pCi/l	NA	1/30/2014 08:32
Th-234	ND (+/- 93)	U	158	pCi/l	NA	1/30/2014 08:32
Tl-208	ND (+/- 7.8)	U	13.1	pCi/l	NA	1/30/2014 08:32
U-235	ND (+/- 26)	U	44	pCi/l	NA	1/30/2014 08:32
Zn-65	ND (+/- 10)	U	17	pCi/l	NA	1/30/2014 08:32
GROSS ALPHA/BETA ANALYSIS BY GFPC			**PAI 724**		Prep Date: **1/30/2014**	PrepBy: **JKB**
GROSS ALPHA	ND (+/- 1.2)	U	2	pCi/l	NA	2/3/2014 15:46
GROSS BETA	**23.4 (+/- 4.1)**		**2.1**	**pCi/l**	NA	2/3/2014 15:46
ICPMS METALS			**SW6020**		Prep Date: **2/4/2014**	PrepBy: **NAQ**

Client: City of Wichita Falls **Date:** *12-Mar-14*
Project: DPR Verification **Work Order:** 1402418
Sample ID: TCEQ 1J-Wastewater Eff. **Lab ID:** 1402418-2
Legal Location: **Matrix:** WATER
Collection Date: 2/26/2014 06:20 **Percent Moisture:** 100.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GAMMA SPECTROSCOPY RESULTS			**PAI 713**		Prep Date: **2/28/2014**	PrepBy: **SAM**
Ac-228	ND (+/- 14)	U	22	pCi/l	NA	3/3/2014 13:26
Ag-110m	ND (+/- 3.8)	U	6.7	pCi/l	NA	3/3/2014 13:26
Al-26	ND (+/- 4.5)	U	7.7	pCi/l	NA	3/3/2014 13:26
Am-241	ND (+/- 97)	U	168	pCi/l	NA	3/3/2014 13:26
Be-7	ND (+/- 30)	U	49	pCi/l	NA	3/3/2014 13:26
Bi-212	ND (+/- 53)	U	90	pCi/l	NA	3/3/2014 13:26
Bi-214	ND (+/- 15)	U,J	24	pCi/l	NA	3/3/2014 13:26
Ce-139	ND (+/- 3.1)	U	5.4	pCi/l	NA	3/3/2014 13:26
Ce-144	ND (+/- 22)	U	37	pCi/l	NA	3/3/2014 13:26
Co-56	ND (+/- 6.5)	U	11.2	pCi/l	NA	3/3/2014 13:26
Co-57	ND (+/- 3.1)	U	5.2	pCi/l	NA	3/3/2014 13:26
Co-58	ND (+/- 4)	U	6.7	pCi/l	NA	3/3/2014 13:26
Co-60	ND (+/- 4.1)	U	7.4	pCi/l	NA	3/3/2014 13:26
Cr-51	ND (+/- 45)	U	77	pCi/l	NA	3/3/2014 13:26
Cs-134	ND (+/- 4.4)	U	7.6	pCi/l	NA	3/3/2014 13:26
Cs-137	ND (+/- 4)	U	6.8	pCi/l	NA	3/3/2014 13:26
Eu-152	ND (+/- 19)	U	34	pCi/l	NA	3/3/2014 13:26
Eu-154	ND (+/- 22)	U	37	pCi/l	NA	3/3/2014 13:26
Eu-155	ND (+/- 14)	U	24	pCi/l	NA	3/3/2014 13:26
Fe-59	ND (+/- 7.7)	U	13.2	pCi/l	NA	3/3/2014 13:26
I-131	**18.4 (+/- 7.3)**		**10.6**	**pCi/l**	NA	3/3/2014 13:26
K-40	ND (+/- 82)	U	141	pCi/l	NA	3/3/2014 13:26
Mn-54	ND (+/- 4)	U	6.8	pCi/l	NA	3/3/2014 13:26
Na-22	ND (+/- 3.9)	U	6.9	pCi/l	NA	3/3/2014 13:26
Nb-94	ND (+/- 4)	U	7	pCi/l	NA	3/3/2014 13:26
Nb-95	ND (+/- 3.5)	U	6.3	pCi/l	NA	3/3/2014 13:26
Pa-234m	ND (+/- 810)	U	1370	pCi/l	NA	3/3/2014 13:26
Pb-212	ND (+/- 8.6)	U	14.5	pCi/l	NA	3/3/2014 13:26
Pb-214	ND (+/- 13)	U,J	21	pCi/l	NA	3/3/2014 13:26
Ru-106	ND (+/- 37)	U	65	pCi/l	NA	3/3/2014 13:26
Sb-124	ND (+/- 4.5)	U	7.7	pCi/l	NA	3/3/2014 13:26
Sb-125	ND (+/- 9.9)	U	16.7	pCi/l	NA	3/3/2014 13:26
Sc-46	ND (+/- 3.7)	U	6.3	pCi/l	NA	3/3/2014 13:26
Th-227	ND (+/- 20)	U	34	pCi/l	NA	3/3/2014 13:26
Th-234	ND (+/- 130)	U	220	pCi/l	NA	3/3/2014 13:26
Tl-208	ND (+/- 4)	U	6.4	pCi/l	NA	3/3/2014 13:26
U-235	ND (+/- 42)	U	70	pCi/l	NA	3/3/2014 13:26
Zn-65	ND (+/- 8)	U	14.1	pCi/l	NA	3/3/2014 13:26
GROSS ALPHA/BETA ANALYSIS BY GFPC			**PAI 724**		Prep Date: **3/4/2014**	PrepBy: **CAS**
GROSS ALPHA	ND (+/- 1.1)	U	2.1	pCi/l	NA	3/7/2014 15:57
GROSS BETA	**26.4 (+/- 4.7)**		**2.6**	**pCi/l**	NA	3/7/2014 15:57
ICPMS METALS			**SW6020**		Prep Date: **2/28/2014**	PrepBy: **BAS**

Client: City of Wichita Falls
Project: DPR Verification
Sample ID: Wastewater Effluent
Legal Location:
Collection Date: 1/27/2014 06:00

Date: *07-Feb-14*
Work Order: 1401337
Lab ID: 1401337-5
Matrix: WATER
Percent Moisture: 100.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
URANIUM	**0.15**		**0.1**	**UG/L**	10	2/5/2014 14:45
RA-226 BY RADON EMANATION - METHOD 903.1			**PAI 783**		Prep Date: **1/29/2014**	PrepBy: **PJW**
Ra-226	0.31 (+/- 0.2)	LT	0.21	pCi/l	NA	2/6/2014 15:35
Carr: BARIUM	*70.5*		*40-110*	*%REC*	NA	2/6/2014 15:35
RADIUM-228 ANALYSIS BY GFPC			**PAI 724**		Prep Date: **1/29/2014**	PrepBy: **ANH**
Ra-228	ND (+/- 0.27)	U	0.62	pCi/l	NA	2/3/2014 13:18
Carr: BARIUM	*94.2*		*40-110*	*%REC*	NA	2/3/2014 13:18
STRONTIUM-90 ANALYSIS BY GFPC			**PAI 724**		Prep Date: **1/29/2014**	PrepBy: **KAM**
Sr-90	ND (+/- 0.26)	U	0.58	pCi/l	NA	2/3/2014 13:35
Carr: STRONTIUM	*79.6*		*40-110*	*%REC*	NA	2/3/2014 13:35
SULFIDE			**EPA376.1**		Prep Date: **1/31/2014**	PrepBy: **KMP**
SULFIDE	ND		2	MG/L	1	1/31/2014
TRITIUM ANALYSIS BY LIQUID SCINTILLATION			**PAI 704**		Prep Date: **1/30/2014**	PrepBy: **KAM**
H-3	ND (+/- 220)	U	370	pCi/l	NA	1/31/2014 20:36

Client: City of Wichita Falls **Date:** *12-Mar-14*
Project: DPR Verification **Work Order:** 1402418
Sample ID: TCEQ 1J-Wastewater Eff. **Lab ID:** 1402418-2
Legal Location: **Matrix:** WATER
Collection Date: 2/26/2014 06:20 **Percent Moisture:** 100.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
URANIUM	**0.13**		**0.1**	**UG/L**	10	2/28/2014 15:07
RA-226 BY RADON EMANATION - METHOD 903.1			**PAI 783**		Prep Date: **3/3/2014**	PrepBy: **PJW**
Ra-226	0.079 (+/- 0.08)	LT	0.043	pCi/l	NA	3/11/2014 13:33
Carr: BARIUM	*83.3*		*40-110*	*%REC*	NA	3/11/2014 13:33
RADIUM-228 ANALYSIS BY GFPC			**PAI 724**		Prep Date: **3/4/2014**	PrepBy: **JTL**
Ra-228	ND (+/- 0.24)	U	0.54	pCi/l	NA	3/7/2014 11:41
Carr: BARIUM	*85.5*		*40-110*	*%REC*	NA	3/7/2014 11:41
STRONTIUM-90 ANALYSIS BY GFPC			**PAI 724**		Prep Date: **3/4/2014**	PrepBy: **KAM**
Sr-90	ND (+/- 0.31)	U	0.68	pCi/l	NA	3/10/2014 09:45
Carr: STRONTIUM	*71.1*		*40-110*	*%REC*	NA	3/10/2014 09:45
SULFIDE			**EPA376.1**		Prep Date: **3/4/2014**	PrepBy: **KMP**
SULFIDE	ND		2	MG/L	1	3/4/2014
TRITIUM ANALYSIS BY LIQUID SCINTILLATION			**PAI 704**		Prep Date: **3/1/2014**	PrepBy: **ANH**
H-3	ND (+/- 220)	U	370	pCi/l	NA	3/4/2014 03:02

SULFIDE

Method EPA376.1

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: City of Wichita Falls
Client Project ID: DPR Verification
Work Order Number: 1402418
Reporting Basis: As Received
Prep Method: METHOD
Analyst: Alex J. Devonald

Final Volume: 200 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag	Sample Aliquot
TCEQ 20J-RO Permeate	1402418-1	02/26/2014	03/04/2014	03/04/2014	N/A	1	2	2	U	200 ml
TCEQ 1J-Wastewater Eff.	1402418-2	02/26/2014	03/04/2014	03/04/2014	N/A	1	2	2	U	200 ml
TCEQ 23J-Secondary Res.	1402418-3	02/26/2014	03/04/2014	03/04/2014	N/A	1	2	2	U	200 ml
TCEQ 40J-Clearwell Eff.	1402418-4	02/26/2014	03/04/2014	03/04/2014	N/A	1	2	2	U	200 ml
TCEQ 28J-Splitter Box Eff.	1402418-5	02/26/2014	03/04/2014	03/04/2014	N/A	1	2	2	U	200 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *s1402418-1*

Total Recoverable URANIUM

Method SW6020 Revision A

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: City of Wichita Falls
Client Project ID: DPR Verification
Work Order Number: 1403168
Reporting Basis: As Received
Prep Method: SW3005A
Analyst: Ross Miller

Final Volume: 50 ml
Matrix: WATER
Result Units: UG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag	Sample Aliquot
RRWWTP Effluent	1403168-1	03/11/2014	03/12/2014	03/13/2014	N/A	10	0.13	0.1		50 ml
Secondary Reservoir	1403168-2	03/11/2014	03/12/2014	03/13/2014	N/A	10	1.7	0.1		50 ml
Clearwell Effluent	1403168-3	03/11/2014	03/12/2014	03/13/2014	N/A	10	0.65	0.1		50 ml
Splitter Box Effluent	1403168-4	03/11/2014	03/12/2014	03/13/2014	N/A	10	0.94	0.1		50 ml
RO Permeate	1403168-5	03/11/2014	03/12/2014	03/13/2014	N/A	10	0.1	0.1	U	50 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *im1403168-1*

Total Recoverable URANIUM

Method SW6020 Revision A

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: City of Wichita Falls
Client Project ID: DPR Verification
Work Order Number: 1402418
Reporting Basis: As Received
Prep Method: SW3005A
Analyst: Ross Miller

Final Volume: 50 g
Matrix: WATER
Result Units: UG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag	Sample Aliquot
TCEQ 20J-RO Permeate	1402418-1	02/26/2014	02/28/2014	02/28/2014	N/A	10	0.1	0.1	U	50 g
TCEQ 1J-Wastewater Eff.	1402418-2	02/26/2014	02/28/2014	02/28/2014	N/A	10	0.13	0.1		50 g
TCEQ 23J-Secondary Res.	1402418-3	02/26/2014	02/28/2014	02/28/2014	N/A	10	1.8	0.1		50 g
TCEQ 40J-Clearwell Eff.	1402418-4	02/26/2014	02/28/2014	02/28/2014	N/A	10	0.14	0.1		50 g
TCEQ 28J-Splitter Box Eff.	1402418-5	02/26/2014	02/28/2014	02/28/2014	N/A	10	0.95	0.1		50 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *im1402418-1*

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Laboratory Hits
Report: 466127

City of Wichita Falls
Mark Southard
4801 Big Ed Neal Dr
Wichita Falls, TX 76310

Samples Received on:
01/28/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201401280161	**1J RRWWTP Effluent**				
02/03/2014 09:57	Agressiveness Index-Calculated		12		None	0.1
01/29/2014 19:35	Alkalinity in CaCO3 units		110		mg/L	2
01/30/2014 12:59	Anion Sum - Calculated		11		meq/L	0.001
01/28/2014 13:27	Apparent Color		35	15	ACU	3
02/03/2014 16:54	Barium Total ICAP/MS		19	2000	ug/L	2
01/30/2014 12:59	Bicarb.Alkalinity as HCO3calc		130		mg/L	2
02/07/2014 08:29	Bromide		1200		ug/L	50
01/31/2014 19:41	Calcium Total ICAP		40		mg/L	10
02/03/2014 09:58	Cation Sum - Calculated		11		meq/L	0.001
01/28/2014 21:43	Chloride		230	250	mg/L	5
02/07/2014 16:57	Cyanide by manual distillation		0.0050	0.2	mg/L	0.005
02/09/2014 19:28	Dissolved Organic Carbon		8.9		mg/L	0.3
01/29/2014 22:33	Fluoride		0.81	4	mg/L	0.05
02/03/2014 09:57	Langelier Index - 25 degree		-0.35		None	
02/03/2014 10:22	Langelier Index at 60 degrees C		0.099		None	
01/31/2014 19:41	Magnesium Total ICAP		17		mg/L	1
02/03/2014 16:54	Manganese Total ICAP/MS		42	50	ug/L	2
01/28/2014 21:43	Nitrate as Nitrogen by IC		14	10	mg/L	0.5
01/28/2014 21:43	Nitrate as NO3 (calc)		62	45	mg/L	2.2
01/29/2014 19:35	PH (H3=past HT not compliant)		7.4		Units	0.1
02/03/2014 09:57	pH of CaCO3 saturation(25C)		7.7		Units	0.1
01/30/2014 12:38	pH of CaCO3 saturation(60C)		7.3		Units	0.1
01/31/2014 19:41	Potassium Total ICAP		27		mg/L	10
01/31/2014 19:41	Silica		6.6		mg/L	5
01/31/2014 19:41	Sodium Total ICAP		160		mg/L	10
01/28/2014 21:43	Sulfate		62	250	mg/L	2.5
02/02/2014 16:42	Total Dissolved Solids (TDS)		690	500	mg/L	10
02/03/2014 09:57	Total Hardness as CaCO3 by ICP (calc)		170		mg/L	3
01/28/2014 21:43	Total Nitrate, Nitrite-N, CALC		14		mg/L	0.1
01/30/2014 13:05	Trichloroacetic acid		1.3		ug/L	1
02/03/2014 16:54	Zinc Total ICAP/MS		20	5000	ug/L	20
	201401280163	**1J RRWTP Effluent**				
01/28/2014 11:03	Odor at 60 C (TON)		8.0	3	TON	1

SUMMARY OF POSITIVE DATA ONLY

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Report: 466127

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Samples Received on:
01/28/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1J RRWWTP Effluent (201401280161)						**Sampled on 01/27/2014 0600**		
			EPA 1613B - 2,3,7,8-TCDD					
2/4/2014	02/06/2014	09:42	(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	2.2	1
			EPA 200.8 - ICPMS Metals					
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Aluminum Total ICAP/MS	ND	ug/L	20	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Barium Total ICAP/MS	19	ug/L	2	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Manganese Total ICAP/MS	42	ug/L	2	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/29/2014	02/05/2014	13:48 750000	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/29/2014	02/03/2014	16:54 749652	(EPA 200.8)	Zinc Total ICAP/MS	20	ug/L	20	1
			EPA 200.7 - ICP Metals					
1/29/2014	01/31/2014	19:41 749388	(EPA 200.7)	Calcium Total ICAP	40	mg/L	10	10
1/29/2014	01/31/2014	19:41 749388	(EPA 200.7)	Iron Total ICAP	ND	mg/L	0.2	10
1/29/2014	01/31/2014	19:41 749388	(EPA 200.7)	Magnesium Total ICAP	17	mg/L	1	10
1/29/2014	01/31/2014	19:41 749388	(EPA 200.7)	Potassium Total ICAP	27	mg/L	10	10
1/29/2014	01/31/2014	19:41 749388	(EPA 200.7)	Silica	6.6	mg/L	5	10
1/29/2014	01/31/2014	19:41 749388	(EPA 200.7)	Sodium Total ICAP	160	mg/L	10	10
			EPA 245.1 - Mercury Total					
2/4/2014	02/05/2014	11:42 749972	(EPA 245.1)	Mercury	ND	ug/L	0.2	1
			SM 5310C - Dissolved Organic Carbon					
1/28/2014	02/09/2014	19:28 750795	(SM 5310C)	Dissolved Organic Carbon	8.9	mg/L	0.3	1
			SM2330B - Hydroxide as OH, Calculated					
	01/30/2014	12:38	(SM2330B)	Hydroxide as OH Calculated	ND	mg/L	2	1
			SM 2330B - pH of CaCO3 saturation(60C)					
	01/30/2014	12:38	(SM 2330B)	pH of CaCO3 saturation(60C)	7.3	Units	0.1	1
			SM4500-CO2-D - Carbon Dioxide,Free(25C)-Calc.					
	01/30/2014	12:38	(SM4500-CO2-D)	Carbon Dioxide,Free(25C)-Calc.	ND	mg/L	2	1

Rounding on totals after summation.
(c) - indicates calculated results

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Samples Received on:
01/28/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
			SM 2330B - Langelier Index - 25 degree					
	02/03/2014	09:57	(SM 2330B)	Langelier Index - 25 degree	-0.35	None		1
			SM2330B - Carbonate as CO3, Calculated					
	02/20/2014	03:32	(SM2330B)	Carbonate as CO3, Calculated	ND	mg/L	2	1
			SM 2340B - Total Hardness as CaCO3 by ICP					
	02/03/2014	09:57	(SM 2340B)	Total Hardness as CaCO3 by ICP (calc)	170	mg/L	3	1
			SM 1030E - Anion Sum - Calculated					
	01/30/2014	12:59	(SM 1030E)	Anion Sum - Calculated	11	meq/L	0.001	1
			SM 1030E - Cation Sum - Calculated					
	02/03/2014	09:58	(SM 1030E)	Cation Sum - Calculated	11	meq/L	0.001	1
			SM 2330B - pH of CaCO3 saturation(25C)					
	02/03/2014	09:57	(SM 2330B)	pH of CaCO3 saturation(25C)	7.7	Units	0.1	1
			SM2330B - Bicarb.Alkalinity as HCO3,calc					
	01/30/2014	12:59	(SM2330B)	Bicarb.Alkalinity as HCO3calc	130	mg/L	2	1
			SM 2330 - Agressiveness Index-Calculated					
	02/03/2014	09:57	(SM 2330)	Agressiveness Index-Calculated	12	None	0.1	1
			SM 2330B - Langlier Index at 60 degrees C					
	02/03/2014	10:22	(SM 2330B)	Langelier Index at 60 degrees C	0.099	None		1
			SM 1030E - Cation/Anion Difference					
	02/03/2014	10:22	(SM 1030E)	Cation/Anion Difference	0.68	%		1
			EPA 505 - Organochlorine Pesticides/PCBs					
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Aldrin	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Chlordane	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Dieldrin	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Endrin	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Heptachlor	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	Methoxychlor	ND	ug/L	0.05	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.08	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:04 748939	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.1	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/28/2014	01/29/2014	04:04	748939	(EPA 505)	Total PCBs	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:04	748939	(EPA 505)	Toxaphene	ND	ug/L	0.5	1
1/28/2014	01/29/2014	04:04	748939	(EPA 505)	Tetrachlorometaxylene	93	%		1
				EPA 515.4 - Chlorophenoxy Herbicides					
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	2,4,5-T	ND	ug/L	0.2	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.2	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	2,4-D	ND	ug/L	0.1	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	2,4-DB	ND	ug/L	2	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.5	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Acifluorfen	ND	ug/L	0.2	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Bentazon	ND	ug/L	0.5	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Dalapon	ND	ug/L	1	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Dicamba	ND	ug/L	0.1	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Dichlorprop	ND	ug/L	0.5	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Dinoseb	ND	ug/L	0.2	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Pentachlorophenol	ND	ug/L	0.04	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Picloram	ND	ug/L	0.1	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.1	1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	121	%		1
2/2/2014	02/04/2014	14:55	749449	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	78	%		1
				SM 6251B - Haloacetic Acids					
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1	1
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	Trichloroacetic acid	1.3	ug/L	1	1
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	1,2,3-Trichloropropane	100	%		1
1/29/2014	01/30/2014	13:05	749150	(SM 6251B)	2,3-Dibromopropionic acid	102	%		1
				EPA 504.1 - EPA Method 504.1					
2/6/2014	02/06/2014	20:54	750566	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
2/6/2014	02/06/2014	20:54	750566	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
2/6/2014	02/06/2014	20:54	750566	(EPA 504.1)	1,2-Dibromopropane	93	%		1
				EPA 525.2 - Semivolatiles by GCMS					
2/5/2014	02/08/2014	22:26	750931	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
2/5/2014	02/08/2014	22:26	750931	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1

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Samples Received on:
01/28/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	95	%		1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Acenaphthene-d10	79	%		1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Chrysene-d12	58	%		1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Perylene-d12	80	%		1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Phenanthrene-d10	85	%		1
2/5/2014	02/08/2014 22:26	750931	(EPA 525.2)	Triphenylphosphate	103	%		1
	EPA 548.1 - Endothall							
1/28/2014	01/30/2014 13:39	749348	(EPA 548.1)	Endothall	ND	ug/L	5	1
	EPA 547 - Glyphosate							
	01/31/2014 20:16	749538	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	01/30/2014 22:53	749152	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	01/30/2014 22:53	749152	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	EPA 549.2 - Diquat and Paraquat							
1/29/2014	01/30/2014 19:52	749304	(EPA 549.2)	Diquat	ND	ug/L	0.4	1
	EPA 300.0 - Nitrate, Nitrite by EPA 300.0							
	01/28/2014 21:43	748869	(EPA 300.0)	Nitrate as Nitrogen by IC	14	mg/L	0.5	5
	01/28/2014 21:43	748869	(EPA 300.0)	Nitrate as NO3 (calc)	62	mg/L	2.2	5
	01/28/2014 21:43	748869	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.25	5
	01/28/2014 21:43	748869	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	14	mg/L	0.1	1
	EPA 300.0 - Disinfection ByProducts by 300.0							
	02/07/2014 08:29	750608	(EPA 300.0)	Bromide	1200	ug/L	50	10
	02/06/2014 03:08	750535	(EPA 300.0)	Chlorate by IC	ND	ug/L	10	1
	EPA 300.0 - Chloride, Sulfate by EPA 300.0							
	01/28/2014 21:43	748872	(EPA 300.0)	Chloride	230	mg/L	5	5
	01/28/2014 21:43	748872	(EPA 300.0)	Sulfate	62	mg/L	2.5	5
	EPA 331.0 - Perchlorate by EPA 331.0							
	01/28/2014 18:54	748627	(EPA 331.0)	Perchlorate	ND	ug/L	2	1
	EPA 335.4 - Cyanide by manual distillation							

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City of Wichita Falls
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Samples Received on:
01/28/2014

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/7/2014	02/07/2014	16:57	751153	(EPA 335.4)	Cyanide by manual distillation	0.0050 (B4)	mg/L	0.005	1
				EPA 524.2 - Volatile Organics by GCMS					
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (LE)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,2,4-Trimethylbenzene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,3,5-Trimethylbenzene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
1/30/2014	02/06/2014	03:43	750259	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
1/30/2014	02/06/2014	03:43	750259	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/30/2014	02/06/2014	03:43	750259	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (VC,LK)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
1/30/2014	02/06/2014	03:43	750259	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
1/30/2014	02/06/2014	03:43	750259	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1

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1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	p-Chlorotoluene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	p-Isopropyltoluene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	sec-Butylbenzene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Styrene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
1/30/2014	02/06/2014	03:43	750259	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	trans-1,3-Dichloropropene	ND (LK,LE)	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	1,2-Dichloroethane-d4	104	%		1
1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	4-Bromofluorobenzene	99	%		1

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1/30/2014	01/31/2014	6:19	749197	(EPA 524.2)	Toluene-d8	93	%		1
			SM 4500F-C - Fluoride						
	01/29/2014	22:33	748989	(SM 4500F-C)	Fluoride	0.81	mg/L	0.05	1
			SM 2320B - Alkalinity in CaCO3 units						
	01/29/2014	19:35	748855	(SM 2320B)	Alkalinity in CaCO3 units	110	mg/L	2	1
			E160.1/SM2540C - Total Dissolved Solids (TDS)						
2/2/2014	02/02/2014	16:42	749469	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	690	mg/L	10	1
			SM4500-HB - PH (H3=past HT not compliant)						
	01/29/2014	19:35	748750	(SM4500-HB)	PH (H3=past HT not compliant)	7.4	Units	0.1	1
			SM 2120B - Apparent Color						
	01/28/2014	13:27	748707	(SM 2120B)	Apparent Color	35	ACU	3	1
Travel Blank (201401280162)							**Sampled on 01/27/2014 0800**		
			EPA 504.1 - EPA Method 504.1						
2/6/2014	02/06/2014	17:29	750566	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
2/6/2014	02/06/2014	17:29	750566	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
2/6/2014	02/06/2014	17:29	750566	(EPA 504.1)	1,2-Dibromopropane	104	%		1
			EPA 524.2 - Volatile Organics by GCMS						
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (LE)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,2,4-Trimethylbenzene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,3,5-Trimethylbenzene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
1/30/2014	02/03/2014	17:45	749969	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Benzene	ND	ug/L	0.5	1

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1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
1/30/2014	02/03/2014	17:45	749969	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/30/2014	02/03/2014	17:45	749969	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
1/30/2014	02/03/2014	17:45	749969	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Chlorodibromomethane	ND (LE)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	p-Chlorotoluene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	p-Isopropyltoluene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	sec-Butylbenzene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Styrene	ND (R7)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1

Rounding on totals after summation.
(c) - indicates calculated results

eurofins | Eaton Analytical

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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466127

City of Wichita Falls
Mark Southard
4801 Big Ed Neal Dr
Wichita Falls, TX 76310

Samples Received on:
01/28/2014

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
1/30/2014	02/03/2014	17:45	749969	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	trans-1,3-Dichloropropene	ND (LK,LE)	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	1,2-Dichloroethane-d4	100	%		1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	4-Bromofluorobenzene	100	%		1
1/30/2014	01/31/2014	6:43	749197	(EPA 524.2)	Toluene-d8	98	%		1
1J RRWTP Effluent (201401280163)							**Sampled on 01/27/2014 1300**		
				SM 2150B - Odor at 60 C (TON)					
	01/28/2014	11:03	748720	(SM 2150B)	Odor at 60 C (TON)	8.0	TON	1	1
1J RRWTP Effluent (201402130338)							**Sampled on 01/27/2014 06:00**		
				EPA 335.4 - Cyanide by manual distillation					
2/17/2014	02/17/2014	17:39	752364	(EPA 335.4)	Cyanide by manual distillation	ND (HA)	mg/L	0.005	1

Rounding on totals after summation.
(c) - indicates calculated results

Sample Description: 201401280161 Waste Water
Folder# 466127 Sub PO# 99-26764 Job# 1000014

LL Sample # WW 7350613
LL Group # 1449305
Account # 14482

Project Name: 466127

Collected: 01/27/2014 06:00

Submitted: 01/30/2014 09:15
Reported: 02/10/2014 16:42

Eurofins Eaton Analytical, Inc
Suite 100
750 Royal Oaks Drive
Monrovia CA 91016

80161

CAT No.	Analysis Name		CAS Number	As Received Result	As Received MRL*	As Received EDL	Dilution Factor
Dioxins/Furans	**EPA 1613B**			pg/l	pg/l	pg/l	
12935	2378-TCDD		1746-01-6	< 2.18	2.18	0.722	1
Labeled Compounds		**%Rec**	**Windows**				
13C12-2378-TCDD		63	25 - 164				

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present
S Saturation of detection signal

General Sample Comments

State of Texas Lab Certification No. T104704194-13-10

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12935	2378-TCDD in Potable Water	EPA 1613B	1	14035001	02/06/2014 09:42	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	14035001	02/04/2014 12:15	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

Client Name: City of Wichita Falls Report #: 310807

Sampling Point: 1JRRWWTP Effluent PWS ID: TX2430001

General Chemistry

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Solids, Dissolved	2540 C	500 ^	10	**660**	mg/L	---	02/04/14 14:05	2965477
24959-67-9	Bromide	300.0	---	0.010	**1.5**	mg/L	---	02/07/14 16:14	2965478
14797-73-0	Perchlorate	331.0	---	0.05	**0.17**	ug/L	---	01/31/14 21:41	2965476
---	Dissolved Organic Carbon	5310 C	---	0.500	**12.0**	mg/L	01/31/14 16:00	02/03/14 16:45	2965473

Metals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
7429-90-5	Aluminum	200.8	50 ^	2.0	**20**	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-36-0	Antimony	200.8	6 *	1.0	< 1.0	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-38-2	Arsenic	200.8	10 *	1.0	**2.2**	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-39-3	Barium	200.8	2000 *	2.0	**17**	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-41-7	Beryllium	200.8	4 *	0.3	< 0.3	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-43-9	Cadmium	200.8	5 *	1.0	< 1.0	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-47-3	Chromium	200.8	100 *	0.9	< 0.9	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-50-8	Copper	200.8	1300 !	1.0	**6.8**	ug/L	02/07/14 14:30	02/11/14 12:15	2965479
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7439-96-5	Manganese	200.8	50 ^	2.0	**39**	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-02-0	Nickel	200.8	---	1.0	**3.5**	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7782-49-2	Selenium	200.8	50 *	2.0	**2.5**	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-22-4	Silver	200.8	100 ^	2.0	< 2.0	ug/L	02/07/14 14:30	02/11/14 12:15	2965479
7440-28-0	Thallium	200.8	2 *	0.3	< 0.3	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7440-66-6	Zinc	200.8	5000 ^	5.0	**25**	ug/L	02/07/14 14:30	02/10/14 16:40	2965479
7439-97-6	Mercury	245.1	2 *	0.1	< 0.1	ug/L	02/07/14 09:05	02/07/14 13:44	2965479

Disinfection Byproducts

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
75-27-4	Bromodichloromethane	524.2	---	0.5	< 0.5	ug/L	---	02/05/14 00:41	2965475
75-25-2	Bromoform	524.2	---	0.5	< 0.5	ug/L	---	02/05/14 00:41	2965475
67-66-3	Chloroform	524.2	---	0.5	**0.9**	ug/L	---	02/05/14 00:41	2965475
124-48-1	Dibromochloromethane	524.2	---	0.5	< 0.5	ug/L	---	02/05/14 00:41	2965475
---	Total Trihalomethanes	524.2	80 *	0.5	**0.9**	ug/L	---	02/05/14 00:41	2965475
631-64-1	Dibromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/03/14 07:45	02/04/14 04:42	2965474
79-43-6	Dichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	02/03/14 07:45	02/04/14 04:42	2965474
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/03/14 07:45	02/04/14 04:42	2965474
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	02/03/14 07:45	02/04/14 04:42	2965474
76-03-9	Trichloroacetic acid	552.2	---	1.0	**1.7**	ug/L	02/03/14 07:45	02/04/14 04:42	2965474
---	Total HAA5	552.2	60 *	2.0	**1.7**	ug/L	02/03/14 07:45	02/04/14 04:42	2965474

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Client Name: City of Wichita Falls Report #: 311102

Sampling Point: 1JRRWWTP Effluent PWS ID: TX2430001

General Chemistry

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Solids, Dissolved	2540 C	500 ^	10	**650**	mg/L	---	02/11/14 15:32	2968062
24959-67-9	Bromide	300.0	---	0.010	**1.1**	mg/L	---	02/07/14 18:05	2968063
14797-73-0	Perchlorate	331.0	---	0.05	**0.17**	ug/L	---	02/11/14 09:01	2968061
---	Dissolved Organic Carbon	5310 C	---	0.500	**11.2**	mg/L	02/06/14 17:30	02/07/14 20:41	2968058

Metals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
7429-90-5	Aluminum	200.8	50 ^	2.0	**21**	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-36-0	Antimony	200.8	6 *	1.0	< 1.0	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-38-2	Arsenic	200.8	10 *	1.0	**2.1**	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-39-3	Barium	200.8	2000 *	2.0	**18**	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-41-7	Beryllium	200.8	4 *	0.3	< 0.3	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-43-9	Cadmium	200.8	5 *	1.0	< 1.0	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-47-3	Chromium	200.8	100 *	0.9	< 0.9	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-50-8	Copper	200.8	1300 !	1.0	**2.4**	ug/L	02/07/14 14:30	02/11/14 12:35	2968064
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7439-96-5	Manganese	200.8	50 ^	2.0	**45**	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-02-0	Nickel	200.8	---	1.0	**3.4**	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7782-49-2	Selenium	200.8	50 *	2.0	**2.3**	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-22-4	Silver	200.8	100 ^	2.0	< 2.0	ug/L	02/07/14 14:30	02/11/14 12:35	2968064
7440-28-0	Thallium	200.8	2 *	0.3	< 0.3	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7440-66-6	Zinc	200.8	5000 ^	5.0	**23**	ug/L	02/07/14 14:30	02/10/14 17:09	2968064
7439-97-6	Mercury	245.1	2 *	0.1	< 0.1	ug/L	02/13/14 09:40	02/13/14 14:11	2968064

Disinfection Byproducts

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
75-27-4	Bromodichloromethane	524.2	---	0.5	< 0.5	ug/L	---	02/10/14 21:39	2968060
75-25-2	Bromoform	524.2	---	0.5	< 0.5	ug/L	---	02/10/14 21:39	2968060
67-66-3	Chloroform	524.2	---	0.5	**1.4**	ug/L	---	02/10/14 21:39	2968060
124-48-1	Dibromochloromethane	524.2	---	0.5	< 0.5	ug/L	---	02/10/14 21:39	2968060
---	Total Trihalomethanes	524.2	80 *	0.5	**1.4**	ug/L	---	02/10/14 21:39	2968060
631-64-1	Dibromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/12/14 07:45	02/12/14 17:59	2968059
79-43-6	Dichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	02/12/14 07:45	02/12/14 17:59	2968059
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/12/14 07:45	02/12/14 17:59	2968059
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	02/12/14 07:45	02/12/14 17:59	2968059
76-03-9	Trichloroacetic acid	552.2	---	1.0	**2.3**	ug/L	02/12/14 07:45	02/12/14 17:59	2968059
---	Total HAA5	552.2	60 *	2.0	**2.3**	ug/L	02/12/14 07:45	02/12/14 17:59	2968059

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Client Name: City of Wichita Falls Report #: 312664

Sampling Point: TCEQ 1J-Wastewater Effluent PWS ID: TX2430001

General Chemistry

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	pH	150.1	6.5-8.5 ^	N/A	**6.9**	pH units	---	02/26/14 06:20	2981778
---	Color (Apparent) $	2120 B	15 ^	5.0	**30**	Pt/Co units	---	02/27/14 15:22	2981783
---	Color (True) $	2120 B	15 ^	5.0	**30**	Pt/Co units	---	02/27/14 15:22	2981783
---	Odor $	2150 B	3 ^	1.00	**8.0**	TON	---	02/27/14 15:48	2981794
---	Alkalinity, Total	2320 B	---	1.00	**107**	mg/L as CaCO3	---	03/04/14 15:44	2981778
---	Saturation (Langlier) Index $	2330 B	---	N/A	**-1.08**	N/A	---	03/05/14 10:47	2981778
---	Hardness, Calcium $	2340 B	---	N/A	**110**	N/A	---	03/04/14 14:09	2981793
---	Solids, Dissolved	2540 C	500 ^	10	**740**	mg/L	---	02/28/14 16:31	2981778
---	Temperature $	2550 B	---	N/A	**16.9**	°C	---	02/27/14 06:20	2981778
24959-67-9	Bromide	300.0	---	0.010	**1.3**	mg/L	---	03/03/14 15:23	2981780
16887-00-6	Chloride	300.0	250 ^	2.0	**270**	mg/L	---	03/01/14 02:56	2981778
14808-79-8	Sulfate	300.0	250 ^	5.0	**62**	mg/L	---	02/28/14 12:41	2981778
14797-73-0	Perchlorate $	331.0	---	0.05	**0.13**	ug/L	---	02/28/14 09:07	2981795
57-12-5	Cyanide, Total	335.4	0.2 *	0.01	< 0.01	mg/L	03/03/14 11:00	03/03/14 14:40	2981784
14797-55-8	Nitrate	353.2	10 *	0.1	**16**	mg/L	---	02/28/14 17:27	2981778
14797-65-0	Nitrite	353.2	1 *	0.01	**0.35**	mg/L	---	02/27/14 15:28	2981778
16984-48-8	Fluoride	4500-F- C	4 *	0.1	**0.9**	mg/L	---	03/04/14 12:48	2981778
---	Dissolved Organic Carbon $	5310 C	---	0.500	**13.7**	mg/L	02/27/14 17:30	02/28/14 18:09	2981787

Metals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
7440-70-2	Calcium	200.7	---	0.1	**43**	mg/L	03/03/14 10:35	03/04/14 12:41	2981793
7439-89-6	Iron	200.7	0.3 ^	0.020	**0.20**	mg/L	03/03/14 10:35	03/04/14 12:41	2981793
7439-95-4	Magnesium	200.7	---	0.1	**15**	mg/L	03/03/14 10:35	03/04/14 12:41	2981793
7440-09-7	Potassium	200.7	---	0.2	**32**	mg/L	03/03/14 10:35	03/04/14 12:41	2981793
7631-86-9	Silica, Total	200.7	---	0.1	**5.2**	mg/L	03/03/14 10:35	03/04/14 12:41	2981793
7440-23-5	Sodium	200.7	---	0.1	**190**	mg/L	03/03/14 10:35	03/04/14 13:00	2981793
7429-90-5	Aluminum	200.8	50 ^	2.0	**18**	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-36-0	Antimony	200.8	6 *	1.0	< 1.0	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-38-2	Arsenic	200.8	10 *	1.0	**1.4**	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-39-3	Barium	200.8	2000 *	2.0	**12**	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-41-7	Beryllium	200.8	4 *	0.3	< 0.3	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-43-9	Cadmium	200.8	5 *	1.0	< 1.0	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-47-3	Chromium	200.8	100 *	0.9	< 0.9	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-50-8	Copper	200.8	1300 !	1.0	**3.7**	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7439-96-5	Manganese	200.8	50 ^	2.0	**42**	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-02-0	Nickel	200.8	---	1.0	**4.3**	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7782-49-2	Selenium	200.8	50 *	2.0	**3.2**	ug/L	03/03/14 10:34	03/04/14 19:58	2981793
7440-22-4	Silver	200.8	100 ^	2.0	< 2.0	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-28-0	Thallium	200.8	2 *	0.3	< 0.3	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7440-66-6	Zinc	200.8	5000 ^	5.0	**26**	ug/L	03/03/14 10:34	03/04/14 13:55	2981793
7439-97-6	Mercury	245.1	2 *	0.1	< 0.1	ug/L	03/03/14 10:12	03/03/14 14:45	2981793

Disinfection Byproducts

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
631-64-1	Dibromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/28/14 07:00	02/28/14 20:23	2981792
79-43-6	Dichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	02/28/14 07:00	02/28/14 20:23	2981792
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/28/14 07:00	02/28/14 20:23	2981792
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	02/28/14 07:00	02/28/14 20:23	2981792
76-03-9	Trichloroacetic acid	552.2	---	1.0	**1.7**	ug/L	02/28/14 07:00	02/28/14 20:23	2981792
---	Total HAA5	552.2	60 *	2.0	**1.7**	ug/L	02/28/14 07:00	02/28/14 20:23	2981792

Semi-volatile Organic Chemicals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	UL ID #
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	504.1	0.2 *	0.01	< 0.01	ug/L	03/03/14 15:37	03/04/14 04:48	2981799
106-93-4	1,2-Dibromoethane (EDB)	504.1	0.05 *	0.01	< 0.01	ug/L	03/03/14 15:37	03/04/14 04:48	2981799
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	02/28/14 15:42	03/01/14 11:38	2981798
94-75-7	2,4-D	515.3	70 *	0.1	< 0.1	ug/L	03/03/14 09:00	03/03/14 21:31	2981782
75-99-0	Dalapon	515.3	200 *	1.0	< 1.0	ug/L	03/03/14 09:00	03/03/14 21:31	2981782
88-85-7	Dinoseb	515.3	7 *	0.1	< 0.1	ug/L	03/03/14 09:00	03/03/14 21:31	2981782
87-86-5	Pentachlorophenol	515.3	1 *	0.04	< 0.04	ug/L	03/03/14 09:00	03/03/14 21:31	2981782
1918-02-1	Picloram	515.3	500 *	0.1	< 0.1	ug/L	03/03/14 09:00	03/03/14 21:31	2981782
93-72-1	2,4,5-TP (Silvex)	515.3	50 *	0.1	< 0.1	ug/L	03/03/14 09:00	03/03/14 21:31	2981782
15972-60-8	Alachlor	525.2	2 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
1912-24-9	Atrazine	525.2	3 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
58-89-9	gamma-BHC (Lindane)	525.2	0.2 *	0.02	< 0.02	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	< 0.6	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
72-20-8	Endrin	525.2	2 *	0.01	< 0.01	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
76-44-8	Heptachlor	525.2	0.4 *	0.04	< 0.04	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
1024-57-3	Heptachlor epoxide	525.2	0.2 *	0.02	< 0.02	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
118-74-1	Hexachlorobenzene	525.2	1 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
77-47-4	Hexachlorocyclopentadiene	525.2	50 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
72-43-5	Methoxychlor	525.2	40 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
122-34-9	Simazine	525.2	4 *	0.07	**0.62**	ug/L	02/28/14 08:30	03/01/14 11:11	2981797
1563-66-2	Carbofuran	531.2	40 *	0.9	< 0.9	ug/L	03/03/14 09:20	03/03/14 19:37	2981781
23135-22-0	Oxamyl	531.2	200 *	1.0	< 1.0	ug/L	03/03/14 09:20	03/03/14 19:37	2981781
1071-83-6	Glyphosate	547	700 *	6.0	< 6.0	ug/L	03/03/14 12:10	03/04/14 00:06	2981791
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	03/03/14 09:00	03/04/14 15:09	2981789
85-00-7	Diquat	549.2	20 *	0.4	< 0.4	ug/L	02/28/14 10:45	03/03/14 14:46	2981786

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
71-43-2	Benzene	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
108-86-1	Bromobenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
74-97-5	Bromochloromethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-27-4	Bromodichloromethane	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-25-2	Bromoform	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
74-83-9	Bromomethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
104-51-8	n-Butylbenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
135-98-8	sec-Butylbenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
98-06-6	tert-Butylbenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
56-23-5	Carbon tetrachloride	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
108-90-7	Chlorobenzene	524.2	100 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-00-3	Chloroethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
67-66-3	Chloroform	524.2	---	0.5	**0.8**	ug/L	---	02/27/14 17:23	2981796
74-87-3	Chloromethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
95-49-8	2-Chlorotoluene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
106-43-4	4-Chlorotoluene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
124-48-1	Dibromochloromethane	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
---	Total Trihalomethanes	524.2	80 *	0.5	**0.8**	ug/L	---	02/27/14 17:23	2981796
96-12-8	1,2-Dibromo-3-chloropropane (DBCP) $	524.2	---	0.2	< 0.2	ug/L	---	02/27/14 17:23	2981796
106-93-4	1,2-Dibromoethane (EDB) $	524.2	---	0.2	< 0.2	ug/L	---	02/27/14 17:23	2981796
74-95-3	Dibromomethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
95-50-1	1,2-Dichlorobenzene	524.2	600 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
541-73-1	1,3-Dichlorobenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
106-46-7	1,4-Dichlorobenzene	524.2	75 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-71-8	Dichlorodifluoromethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-34-3	1,1-Dichloroethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
107-06-2	1,2-Dichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-35-4	1,1-Dichloroethylene	524.2	7 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
156-59-2	cis-1,2-Dichloroethylene	524.2	70 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
156-60-5	trans-1,2-Dichloroethylene	524.2	100 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-09-2	Dichloromethane	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
78-87-5	1,2-Dichloropropane	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
142-28-9	1,3-Dichloropropane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
594-20-7	2,2-Dichloropropane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
563-58-6	1,1-Dichloropropylene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
10061-01-5	cis-1,3-Dichloropropylene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
10061-02-6	trans-1,3-Dichloropropylene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
542-75-6	1,3-Dichloropropylene, cis & trans $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
100-41-4	Ethylbenzene	524.2	700 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
87-68-3	Hexachlorobutadiene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
98-82-8	Isopropylbenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
99-87-6	4-Isopropyltoluene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
1634-04-4	Methyl-t-butyl ether (MTBE) $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
91-20-3	Naphthalene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
103-65-1	n-Propylbenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
100-42-5	Styrene	524.2	100 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796

630-20-6	1,1,1,2-Tetrachloroethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
79-34-5	1,1,2,2-Tetrachloroethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
127-18-4	Tetrachloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
108-88-3	Toluene	524.2	1000 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
87-61-6	1,2,3-Trichlorobenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
120-82-1	1,2,4-Trichlorobenzene	524.2	70 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
71-55-6	1,1,1-Trichloroethane	524.2	200 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
79-00-5	1,1,2-Trichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
79-01-6	Trichloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-69-4	Trichlorofluoromethane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
96-18-4	1,2,3-Trichloropropane $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
95-63-6	1,2,4-Trimethylbenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
108-67-8	1,3,5-Trimethylbenzene $	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
75-01-4	Vinyl chloride	524.2	2 *	0.2	< 0.2	ug/L	---	02/27/14 17:23	2981796
95-47-6	1,2-Xylene	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
179601-23-1	1,3 + 1,4-Xylene	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796
1330-20-7	Xylenes, Total	524.2	10000 *	0.5	< 0.5	ug/L	---	02/27/14 17:23	2981796

Compliance monitoring for 1,2-Dibromo-3-chloropropane (DBCP) must be done using EPA method 504.1.

Compliance monitoring for 1,2-Dibromoethane (EDB) must be done using EPA method 504.1.

Reference Lab Tests

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	UL ID #
1332-21-4	Asbestos	100.2	7 *	1.3	< 1.3	mf/L	02/27/14 11:24	03/05/14 15:01	2981779
1746-01-6	Dioxin	1613	30 *	5	< 5	pg/L	---	03/05/14 09:58	2981785
---	Foaming Agents (MBAS)	5540 C	0.5 *	0.2	< 0.2	mg/L	---	02/27/14 15:35	2981790

$ The state of origin does not offer certification for this parameter.

Sampling Point: TCEQ 1J-Wastewater Effluent PWS ID: TX2430001

General Chemistry

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	pH	150.1	6.5-8.5 ^	N/A	**6.9**	pH units	---	02/27/14 06:20	2981783

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Client Name: City of Wichita Falls Report #: 313491

Sampling Point: Wastewater Effluent PWS ID: TX2430001

General Chemistry

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	pH	150.1	6.5-8.5 ^	N/A	**7.1**	pH units	---	03/14/14 11:51	2989659
---	Color (Apparent) $	2120 B	15 ^	5.0	**35**	Pt/Co units	---	03/14/14 11:44	2989659
---	Color (True) $	2120 B	15 ^	5.0	**35**	Pt/Co units	---	03/14/14 11:44	2989659
---	Odor $	2150 B	3 ^	1.00	**8.0**	TON	---	03/14/14 11:46	2989670
---	Alkalinity, Total	2320 B	---	1.00	**110**	mg/L as CaCO3	---	03/14/14 16:44	2989654
---	Saturation (Langlier) Index $	2330 B	---	N/A	**-1.01**	N/A	---	03/20/14 14:36	2989654
---	Hardness, Calcium $	2340 B	---	N/A	**93**	N/A	---	03/19/14 13:09	2989669
---	Solids, Dissolved	2540 C	500 ^	10	**900**	mg/L	---	03/17/14 14:46	2989654
---	Temperature $	2550 B	---	N/A	**17.1**	°C	---	03/11/14 07:30	2989654
24959-67-9	Bromide	300.0	---	0.010	**1.3**	mg/L	---	03/14/14 23:36	2989656
16887-00-6	Chloride	300.0	250 ^	2.0	**260**	mg/L	---	03/14/14 01:27	2989654
14808-79-8	Sulfate	300.0	250 ^	5.0	**68**	mg/L	---	03/14/14 01:27	2989654
14797-73-0	Perchlorate $	331.0	---	0.05	**0.14**	ug/L	---	03/15/14 00:21	2989671
57-12-5	Cyanide, Total	335.4	0.2 *	0.01	< 0.01	mg/L	03/14/14 12:00	03/14/14 15:15	2989660
14797-55-8	Nitrate	353.2	10 *	0.1	**14**	mg/L	---	03/14/14 20:47	2989654
14797-65-0	Nitrite	353.2	1 *	0.01	**0.23**	mg/L	---	03/13/14 15:03	2989654
16984-48-8	Fluoride	4500-F- C	4 *	0.1	**2.1**	mg/L	---	03/17/14 13:43	2989654
---	Dissolved Organic Carbon $	5310 C	---	0.500	**13.4**	mg/L	03/13/14 19:00	03/14/14 04:29	2989663

Metals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
7440-70-2	Calcium	200.7	---	0.1	**37**	mg/L	03/16/14 15:30	03/18/14 14:12	2989669
7439-89-6	Iron	200.7	0.3 ^	0.020	**0.26**	mg/L	03/16/14 15:30	03/18/14 14:12	2989669
7439-95-4	Magnesium	200.7	---	0.1	**16**	mg/L	03/16/14 15:30	03/18/14 14:12	2989669
7440-09-7	Potassium	200.7	---	0.2	**32**	mg/L	03/16/14 15:30	03/18/14 14:12	2989669
7631-86-9	Silica, Total	200.7	---	0.1	**4.4**	mg/L	03/16/14 15:30	03/18/14 14:12	2989669
7440-23-5	Sodium	200.7	---	0.1	**160**	mg/L	03/16/14 15:30	03/18/14 14:12	2989669
7429-90-5	Aluminum	200.8	50 ^	2.0	**33**	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7440-36-0	Antimony	200.8	6 *	1.0	< 1.0	ug/L	03/16/14 15:30	03/17/14 16:27	2989669
7440-38-2	Arsenic	200.8	10 *	1.0	< 5.0	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7440-39-3	Barium	200.8	2000 *	2.0	**10**	ug/L	03/16/14 15:30	03/17/14 16:27	2989669
7440-41-7	Beryllium	200.8	4 *	0.3	< 1.5	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7440-43-9	Cadmium	200.8	5 *	1.0	< 5.0	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7440-47-3	Chromium	200.8	100 *	0.9	< 4.5	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7440-50-8	Copper	200.8	1300 !	1.0	< 5.0	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	03/16/14 15:30	03/17/14 16:27	2989669
7439-96-5	Manganese	200.8	50 ^	2.0	**42**	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7440-02-0	Nickel	200.8	---	1.0	< 5.0	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7782-49-2	Selenium	200.8	50 *	2.0	< 10.0	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7440-22-4	Silver	200.8	100 ^	2.0	< 10.0	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7440-28-0	Thallium	200.8	2 *	0.3	< 0.3	ug/L	03/16/14 15:30	03/17/14 16:27	2989669
7440-66-6	Zinc	200.8	5000 ^	5.0	**32**	ug/L	03/16/14 15:30	03/17/14 15:54	2989669
7439-97-6	Mercury	245.1	2 *	0.1	< 0.1	ug/L	03/14/14 09:45	03/14/14 14:12	2989669

Disinfection Byproducts

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
631-64-1	Dibromoacetic acid	552.2	---	1.0	< 1.0	ug/L	03/14/14 08:30	03/15/14 03:04	2989668
79-43-6	Dichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	03/14/14 08:30	03/15/14 03:04	2989668
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	03/14/14 08:30	03/15/14 03:04	2989668
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	03/14/14 08:30	03/15/14 03:04	2989668
76-03-9	Trichloroacetic acid	552.2	---	1.0	**2.2**	ug/L	03/14/14 08:30	03/15/14 03:04	2989668
---	Total HAA5	552.2	60 *	2.0	**2.2**	ug/L	03/14/14 08:30	03/15/14 03:04	2989668

Semi-volatile Organic Chemicals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	UL ID #
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	504.1	0.2 *	0.01	< 0.01	ug/L	03/13/14 15:45	03/13/14 20:51	2989664
106-93-4	1,2-Dibromoethane (EDB)	504.1	0.05 *	0.01	< 0.01	ug/L	03/13/14 15:45	03/13/14 20:51	2989664
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	03/13/14 14:01	03/14/14 00:39	2989674
94-75-7	2,4-D	515.3	70 *	0.1	**1.6**	ug/L	03/17/14 08:37	03/18/14 21:53	2989658
75-99-0	Dalapon	515.3	200 *	1.0	< 1.0	ug/L	03/17/14 08:37	03/18/14 21:53	2989658
88-85-7	Dinoseb	515.3	7 *	0.1	< 0.1	ug/L	03/17/14 08:37	03/18/14 21:53	2989658
87-86-5	Pentachlorophenol	515.3	1 *	0.04	< 0.04	ug/L	03/17/14 08:37	03/18/14 21:53	2989658
1918-02-1	Picloram	515.3	500 *	0.1	< 0.1	ug/L	03/17/14 08:37	03/18/14 21:53	2989658
93-72-1	2,4,5-TP (Silvex)	515.3	50 *	0.1	< 0.1	ug/L	03/17/14 08:37	03/18/14 21:53	2989658
15972-60-8	Alachlor	525.2	2 *	0.1	< 0.1	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
1912-24-9	Atrazine	525.2	3 *	0.1	< 0.1	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
58-89-9	gamma-BHC (Lindane)	525.2	0.2 *	0.02	< 0.02	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	< 0.6	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
72-20-8	Endrin	525.2	2 *	0.01	< 0.01	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
76-44-8	Heptachlor	525.2	0.4 *	0.04	< 0.04	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
1024-57-3	Heptachlor epoxide	525.2	0.2 *	0.02	< 0.02	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
118-74-1	Hexachlorobenzene	525.2	1 *	0.1	< 0.1	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
77-47-4	Hexachlorocyclopentadiene	525.2	50 *	0.1	< 0.1	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
72-43-5	Methoxychlor	525.2	40 *	0.1	< 0.1	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
122-34-9	Simazine	525.2	4 *	0.07	**1.0**	ug/L	03/14/14 09:00	03/14/14 21:33	2989673
1563-66-2	Carbofuran	531.2	40 *	0.9	< 0.9	ug/L	03/14/14 09:15	03/17/14 13:14	2989657
23135-22-0	Oxamyl	531.2	200 *	1.0	< 1.0	ug/L	03/14/14 09:15	03/17/14 13:14	2989657
1071-83-6	Glyphosate	547	700 *	6.0	< 6.0	ug/L	03/14/14 14:45	03/15/14 01:09	2989667
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	03/13/14 09:00	03/14/14 12:35	2989665
85-00-7	Diquat	549.2	20 *	0.4	< 0.6	ug/L	03/13/14 09:30	03/13/14 16:06	2989662

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
71-43-2	Benzene	524.2	5 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
108-86-1	Bromobenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
74-97-5	Bromochloromethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-27-4	Bromodichloromethane	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-25-2	Bromoform	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
74-83-9	Bromomethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
104-51-8	n-Butylbenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
135-98-8	sec-Butylbenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
98-06-6	tert-Butylbenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
56-23-5	Carbon tetrachloride	524.2	5 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
108-90-7	Chlorobenzene	524.2	100 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-00-3	Chloroethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
67-66-3	Chloroform	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
74-87-3	Chloromethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
95-49-8	2-Chlorotoluene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
106-43-4	4-Chlorotoluene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
124-48-1	Dibromochloromethane	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
---	Total Trihalomethanes	524.2	80 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
96-12-8	1,2-Dibromo-3-chloropropane (DBCP) $	524.2	---	0.2	< 0.8	ug/L	---	03/13/14 22:03	2989672
106-93-4	1,2-Dibromoethane (EDB) $	524.2	---	0.2	< 0.8	ug/L	---	03/13/14 22:03	2989672
74-95-3	Dibromomethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
95-50-1	1,2-Dichlorobenzene	524.2	600 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
541-73-1	1,3-Dichlorobenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
106-46-7	1,4-Dichlorobenzene	524.2	75 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-71-8	Dichlorodifluoromethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-34-3	1,1-Dichloroethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
107-06-2	1,2-Dichloroethane	524.2	5 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-35-4	1,1-Dichloroethylene	524.2	7 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
156-59-2	cis-1,2-Dichloroethylene	524.2	70 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
156-60-5	trans-1,2-Dichloroethylene	524.2	100 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-09-2	Dichloromethane	524.2	5 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
78-87-5	1,2-Dichloropropane	524.2	5 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
142-28-9	1,3-Dichloropropane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
594-20-7	2,2-Dichloropropane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
563-58-6	1,1-Dichloropropylene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
10061-01-5	cis-1,3-Dichloropropylene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
10061-02-6	trans-1,3-Dichloropropylene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
542-75-6	1,3-Dichloropropylene, cis & trans $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
100-41-4	Ethylbenzene	524.2	700 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
87-68-3	Hexachlorobutadiene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
98-82-8	Isopropylbenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
99-87-6	4-Isopropyltoluene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
1634-04-4	Methyl-t-butyl ether (MTBE) $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
91-20-3	Naphthalene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
103-65-1	n-Propylbenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
100-42-5	Styrene	524.2	100 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672

630-20-6	1,1,1,2-Tetrachloroethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
79-34-5	1,1,2,2-Tetrachloroethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
127-18-4	Tetrachloroethylene	524.2	5 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
108-88-3	Toluene	524.2	1000 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
87-61-6	1,2,3-Trichlorobenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
120-82-1	1,2,4-Trichlorobenzene	524.2	70 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
71-55-6	1,1,1-Trichloroethane	524.2	200 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
79-00-5	1,1,2-Trichloroethane	524.2	5 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
79-01-6	Trichloroethylene	524.2	5 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-69-4	Trichlorofluoromethane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
96-18-4	1,2,3-Trichloropropane $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
95-63-6	1,2,4-Trimethylbenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
108-67-8	1,3,5-Trimethylbenzene $	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
75-01-4	Vinyl chloride	524.2	2 *	0.2	< 0.8	ug/L	---	03/13/14 22:03	2989672
95-47-6	1,2-Xylene	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
179601-23-1	1,3 + 1,4-Xylene	524.2	---	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672
1330-20-7	Xylenes, Total	524.2	10000 *	0.5	< 2.0	ug/L	---	03/13/14 22:03	2989672

Compliance monitoring for 1,2-Dibromo-3-chloropropane (DBCP) must be done using EPA method 504.1.

Compliance monitoring for 1,2-Dibromoethane (EDB) must be done using EPA method 504.1.

Reference Lab Tests

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	UL ID #
1332-21-4	Asbestos	100.2	7 *	0.7	< 0.7	mf/L	03/12/14 13:01	03/18/14 16:40	2989655
1746-01-6	Dioxin	1613	30 *	10	< 10	pg/L	---	03/19/14 14:46	2989661
---	Foaming Agents (MBAS)	5540 C	0.5 *	0.2	< 0.2	mg/L	---	02/05/14 16:57	2989666

$ The state of origin does not offer certification for this parameter.

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

TCEQ 1J Equipment Calibration Summary

Calibration Summary
1J

Temperature

Date	Day	Display	Benchtop	Deviation	Acceptable	Calibrated	Display	Benchtop	Deviation	Acceptable
							Calibration if more than 20% Deviation			
1/23/2014	1	15.17	14.8	2.44%	Yes	Yes	Day 1 Calibration			Yes
1/24/2014	2	14.8	15.2	-2.70%	Yes	Yes				Yes
1/29/14	6	14.60	14.60	0.00%	Yes	No				
2/5/14	13	13.90	13.80	0.72%	Yes	No				
2/12/14	20	13.80	13.90	-0.72%	Yes	No				
2/19/14	27	16.60	16.50	0.60%	Yes	No				
2/21/14	29	16.50	16.50	0.00%	Yes	Yes	Day 30 Calibration			Yes
2/26/14	34	15.30	15.20	0.65%	Yes	No				
3/5/14	41	15.5	15.5	0.00%	Yes	No				
3/11/14	47	17.3	17.4	-0.58%	Yes	No				

Calibration Summary
1J

TURBIDITY

Date	Day	Display	Benchtop	Deviation	Acceptable	Calibrated	Display	Benchtop	Deviation	Acceptable
							Calibration if more than 20% Deviation			
1/24/14	1	2.53	2.60	-2.77%	Yes	Yes	Day 1 Calibration			Yes
1/29/14	6	2.51	2.70	-7.57%	Yes	No				
2/5/14	13	3.91	3.71	5.12%	Yes	No				
2/12/14	20	3.87	3.90	-0.78%	Yes	No				
2/19/14	27	2.35	3.00	-27.66%	No	Yes	2.7	2.67	1.11%	Yes
2/21/14	29	2.62	2.80	-6.87%	Yes	Yes	Day 30 Calibration			Yes
2/26/14	34	4.37	4.55	-4.12%	Yes	No				
3/5/14	41	5.03	4.9	2.58%	Yes	No				
3/11/14	47	5.18	6	-15.83%	Yes	Yes				Yes

Rev# 1-23-14 V. Inspire

THERMCO® PRODUCTS, INC

TEMPERATURE VALIDATION SERVICE

ilac-MRA

PJLA Calibration

Accreditation No.: 69071
to ISO/IEC 17025:2005

LIQUID IN GLASS THERMOMETER CALIBRATION REPORT

Customer NCL 400 Lyons Road, Birnamwood, WI 54414

INSTRUMENT INFORMATION

Calibration Date: 01/14/2014 **Calibration Due Date:**

Serial No.: 1277 **Report No.:** B6908

Model No.: ACC10113BLS **Immersion:** Partial

Range: -1/110 **Divisions:** 0.2° **Scale:** °C

* If the sign given is + the true temperature is higher than the indicated temperature,
If the sign given is - the true temperature is lower than the indicated temperature.

Standard Temperature	Thermometer Reading	Correction +/-
0.00	-0.2	0.200
4.00	3.6	0.400
20.00	19.8	0.200
37.00	36.9	0.100
44.60	44.5	0.100
103.00	102.8	0.200
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Test Reference Documents

For A Discussion Of Accuracies Attainable With Thermometers Such As This Instrument See:
ASTM E1-07, Standard Specification for ASTM Thermometers.
ASTM E77-07, Standard Test Method For Inspection And Verification Of Thermometers.
NIST 250-23, Liquid in Glass Thermometer Calibration.
NIST 1088, Special Publication: Maintenance, Validation, and Recalibration of Liquid-in-Glass Thermometers
NIST IR 5341, Assessment of Uncertainties of Liquid-in-Glass Thermometer Calibrations at the National Institute of Standards and Technology
NIST Technical Note 1265, Guidelines for Realizing the International Temperature Scale of 1990 (ITS-90).

NIST Traceable Equipment Used to Perform Testing:

Manufacture	Description	Model Number	Serial Numbers	Calibration Date	Calibration Due Date
Fluke /Hart Scientific	Black Stack PRT Scanner Module	2562	A56655	10/10/2013	10/10/2014
Burns	100ohm PRT Probe's	5626-15	3543	10/10/2013	10/10/2014
"	"	"	1086	10/10/2013	10/10/2014
"	"	"	1095	10/10/2013	10/10/2014
"	"	"	856968	10/10/2013	10/10/2014
"	"	"	853277	10/10/2013	10/10/2014
Thermotron	Temperature Humidity Chamber	SM.1.0.3200	42716	01/19/2013	01/19/2014
Vaisala	MI70 w/ Probe	HMP75	G2720017/H023001	01/19/2013	01/19/2014

Laboratory Environmental Conditions:

Temperature	Humidity	Onsite Calibration
23°C +/- 5°C	40% - 60%	Yes

Thermometer Integrity:

The physical integrity of the thermometer was verified and inspected for: liquid separation, gas bubbles, foreign matter in the bulb and column, permanency of pigment, and stress cracks in the glass.

Calibration Procedure Used:

The NIST traceable calibration instruments listed were used to calibrate the described thermometer listed above against the NIST traceable reference standards in accordance with ISO/IEC 17025 calibration procedures at the noted test temperatures by a comparison method. The standards used have been certified by an ISO/IEC 17025/ A2LA accredited calibration laboratory.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable to NIST and through NIST to the International System of Units (SI). The uncertainty of measurement associated with the measurement result reported in this certificate is available from Thermco Products Inc. upon request and was accounted for in making the decision of compliance or noncompliance with the relevant specification identified above.

The reported expanded uncertainty of measurement is stated as the combined standard uncertainty of measurement multiplied by the coverage factor k (k =2) such that the coverage probability corresponds to approximately 95 %.

CALIBRATION TECHNICIAN : _____ **CALIBRATION APPROVED BY:** _____

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www.ThermcoProductsInc.com
10 Millpond Drive Unit #10 Lafayette, NJ 07848 - Phone: 973.300.9100

TCEQ 1J Work Orders

WO # 17743 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	FIT-613 WTP Flow	Portable Doppler Flowmeter
Location	06	CCB Area
Task	WTP-CAL	WTP Instrument Calibration

Created	3/7/2014
Printed	
Scheduled	3/7/2014
Delinquent	
Completed	3/7/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify Greyline portable flowmeter signal calibration and compare to the portable flowmeter from Cypress WTP; end of WTP trials.

Comments
Calibration Data
20 mA: 8.744 MGD
4 mA: 0.00 MGD

Calibration Verification:
Current flow reading: 2.73 MGD @ 8.99 mA
16/8.744=1.8298x2.73=4.99+4=8.99 mA
0.0% difference with mathematical calculation.

Mounted doppler flowmeter from Cypress and programmed:
min. flow: 0.0mgd
measurement: inches
pipewall: 1.125"
pipe od: 18"
20 mA: 8.744 mgd

Readings: RR meter	Cypress meter	diff.			
2.75mgd	2.64mgd	4.16%	2.73mgd	2.88mgd	5.49%
2.75mgd	2.75mgd	0.00%			
2.78mgd	2.72mgd	2.94%	2.77mgd	2.84mgd	2.53%
2.77mgd	2.78mgd	0.36%			

At 2.66 mgd, Cypress meter showed 8.87 mA
16/8.744=1.8298x2.66=4.87+4=8.87 mA. Meter signal value corresponds to mathematical calculation.

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.5	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.5	$0.00
Labor Total						$0.00

Work Order Total $0.00

WO # 17659 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment FIT-613 WTP Flow Portable Doppler Flowmeter
Location 06 CCB Area
Task WTP-CAL WTP Instrument Calibration

Created	2/21/2014
Printed	
Scheduled	2/21/2014
Delinquent	
Completed	2/21/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify Greyline portable flowmeter signal calibration and compare to the portable flowmeter from Cypress WTP.

Comments
Calibration Data
20 mA: 8.744 MGD
4 mA: 0.00 MGD

Calibration Verification:
Current flow reading: 2.71 MGD @ 8.95 mA
16/8.744=1.8298x2.71=4.958+4=8.96 mA
0.11% difference

Mounted doppler flowmeter from Cypress and programmed:
min. flow: 0.0mgd
measurement: inches
pipewall: 1.125"
pipe od: 18"
20 mA: 8.744 mgd

Compared readings:	RR meter	Cypress meter
	2.67mgd	2.76mgd
	2.66mgd	2.64mgd
	2.70mgd	2.72mgd
	2.73mgd	2.72mgd

At 2.69 mgd, RR meter showed 8.92 mA.
16/8.744=1.8298x2.69=4.92+4=8.92 mA

At 2.75 mgd, Cypress meter showed 9.03 mA
16/8.744=1.8298x2.75=5.03+4=9.03 mA.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	1.5	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	1.5	$0.00
Labor Total						$0.00

Work Order Total $0.00

River Road Discharge Flow Verification

The Greyline flow meter being used to send flow information to the SCADA system at the River Road Waste Water Treatment Plant has been verified to be reading the correct flow on February 11, 2014. The verification meter being used was a Greyline Instruments Inc. model PTFM 1.0 A-1, serial number 56729 with sensor serial numbers 14A28932 and 14A28933. The calibration certificate for said Greyline instrument is attached to this document.

Greyline (River Road) Flow Reading: 2.7 Time: 14:44

Greyline PTFM 1.0 Flow Reading: 2.8 Time: 14:44

Luke Baker

Name of Reader Signature

Rusty Fork

Name of Reader Signature

WO # 17567 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	FIT-613 WTP Flow	Portable Doppler Flowmeter
Location	06	CCB Area
Task	WTP-CAL	WTP Instrument Calibration

Created	1/28/2014
Printed	
Scheduled	1/28/2014
Delinquent	
Completed	1/28/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify signal calibration of Greyline portable doppler flowmeter.

Comments 1/28/2014: At 11:36AM, documented flow reading on meter display 2.70 MGD @ 8.94 mA.

Calibration Data
20 mA: 8.744 MGD
4 mA: 0.00 MGD

Calibration Verification:
Current flow reading: 2.70 MGD @ 8.94 mA
16/8.744=1.8298x2.70=4.94+4=8.94 mA
0.0% difference

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.3	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17554 **Type** Other **Priority** 5
Create Reason Other **Created By** fhill
Equipment FIT-613 WTP Flow Portable Doppler Flowmeter
Location 06 CCB Area
Task WTP-CAL WTP Instrument Calibration

Created	1/24/2014
Printed	
Scheduled	1/24/2014
Delinquent	
Completed	1/24/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify portable flowmeter calibration, initiate data logging.

Comments At 3:00 PM, cleared data log file and started new data log file.

Log site ID: 1
Mode : Flow
Date: 1/24/2014
Time: 15:00
Interval: 1 minute

Calibration Data
20 mA: 8.744 MGD
4 mA: 0.00 MGD
Min. velocity: 0.00 ft./sec.
Pipe ID: 15.75"
Damping: 10%

Calibration Verification:
Current flow reading: 2.51 MGD @ 8.60 mA
16/8.744=1.8298x2.51=4.5929+4=8.59 mA

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.5	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17744 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	TIT-610 Pre-CL2	Pre-Chlor. water temperature
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	3/11/2014
Printed	
Scheduled	3/11/2014
Delinquent	
Completed	3/11/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Perform end of WTP testing calibration check of Hach AN-ISE pre-chlorination ammonia probe temperature sensor.

Comments Using a certified/calibrated thermometer, measured the temperature at 17.2 degrees C, with the correction of .200 = 17.4. SC1000 display was 17.3 degrees C; a difference of 0.58%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.3	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17738 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	TIT-610 Pre-CL2	Pre-Chlor. water temperature
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	3/5/2014
Printed	
Scheduled	3/5/2014
Delinquent	
Completed	3/5/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Perform weekly calibration verification of Hach AN-ISE ammonia probe pre-chlorination temperature sensor.

Comments Using a certified/calibrated thermometer, measured the temperature at 15.3 degrees C, with the correction of .200 = 15.5. SC1000 display was 15.5 degrees C; a difference of 0.0%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.1	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.1	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

Completed Work Order Detail Report
Electronics

WO # 17673 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment TIT-610 Pre-CL2 Pre-Chlor. water temperature
Location 05 Chlorinator/Hydro Room
Task WTP-CAL WTP Instrument Calibration

Created	2/26/2014
Printed	
Scheduled	2/26/2014
Delinquent	
Completed	2/26/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach AN-ISE pre-chlorination ammonia probe temperature sensor.

Comments Using a certified/calibrated thermometer, measured the temperature at 15.0 degrees C, with the correction of .200 = 15.2. SC1000 display was 15.3 degrees C; a difference of 0.65%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.2	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.2	$0.00
Labor Total						$0.00

Work Order Total	$0.00

Report Totals	**Downtime Hours**	0.00	**Part Cost** $0.00
			Labor Cost $0.00
			Vendor Cost $0.00
			Total Cost $0.00

WO # 17663 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment TIT-610 Pre-CL2 Pre-Chlor. water temperature
Location 05 Chlorinator/Hydro Room
Task WTP-CAL WTP Instrument Calibration

Created	2/21/2014
Printed	
Scheduled	2/21/2014
Delinquent	
Completed	2/21/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Perform 30 day calibration check of Hach AN-ISE pre-chlorination ammonia probe temperature sensor.

Comments Using a certified/calibrated thermometer, measured the temperature at 16.3 degrees C, with the correction of .200 = 16.5. SC1000 display was 16.5 degrees C; a difference of 0.0%.

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.2	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.2	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17655 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment TIT-610 Pre-CL2 Pre-Chlor. water temperature
Location 05 Chlorinator/Hydro Room
Task WTP-CAL WTP Instrument Calibration

Created	2/19/2014
Printed	
Scheduled	2/19/2014
Delinquent	
Completed	2/19/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach pHD sc probe temperature sensor.

Comments Using a certified/calibrated thermometer, measured the temperature at 16.4 degrees C, with the correction of .200 = 16.6. SC1000 display was 16.5 degrees C; a difference of 0.6%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.2	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17647 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment TIT-610 Pre-CL2 Pre-Chlor. water temperature
Location 05 Chlorinator/Hydro Room
Task WTP-CAL WTP Instrument Calibration

Created	2/12/2014
Printed	
Scheduled	2/12/2014
Delinquent	
Completed	2/12/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach ANISE pre-chlorination ammonia probe temperature sensor.

Comments Using a certified/calibrated thermometer, measured the temperature at 13.6 degrees C, with the correction of .200 = 13.8. SC1000 display was 13.9 degrees C; a difference of 0.72%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.2	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.2	$0.00
Labor Total						$0.00

Completed Work Order Detail Report
Electronics

WO # 17633 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment TIT-610 Pre-CL2 Pre-Chlor. water temperature
Location 05 Chlorinator/Hydro Room
Task WTP-CAL WTP Instrument Calibration

Created	2/5/2014
Printed	
Scheduled	2/5/2014
Delinquent	
Completed	2/5/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach AN-ISE pre-chlorination ammonia probe temperature sensor.

Comments Using a Thermco Products certified/calibrated thermometer, measured the temp. at 13.6 deg. C. (+ .200 correction factor = 13.8). Display was 13.9 deg. C; a difference of 0.7 %.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.2	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.2	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

Completed Work Order Detail Report
Electronics

WO # 17571 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	TIT-610 Pre-CL2	Pre-Chlor. water temperature
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	1/29/2014
Printed	
Scheduled	1/29/2014
Delinquent	
Completed	1/29/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach AN-ISE temperature sensor

Comments Using a Thermco Products certified/calibrated thermometer, measured the temp. at 14.4 deg. C. (+ .200 correction factor = 14.6). Display was 14.6 deg. C; a difference of 0.0 %.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.2	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.2	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17556 **Type** UnSch **Priority** 5
Create Reason Other **Created By** fhill

Equipment	TIT-610 Pre-CL2	Pre-Chlor. water temperature
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	1/25/2014
Printed	
Scheduled	1/24/2014
Delinquent	
Completed	1/24/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of temperature sensor on Hach AN-ISE pre-chlorination ammonia probe.

Comments Using a Thermco Products certified/calibrated thermometer, measured the temp. at 14.6 deg. C. (+ .200 correction factor = 14.8). Display was 15.2 deg. C. Adjusted temperature offset to -.40 deg. C in sc1000 sensor configuration menu, which brought display to 14.8 deg. C.
0.0% difference

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.5	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17550 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment TIT-610 Pre-CL2 Pre-Chlor. water temperature
Location 05 Chlorinator/Hydro Room
Task -Unlisted-

Created	1/23/2014
Printed	
Scheduled	1/23/2014
Delinquent	
Completed	1/23/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of temp. sensor in pre-chlorination ammonia probe.

Comments Using a certified calibrated thermometer, measured the temp. at 14.8 deg. C. Display was 15.17 deg. C. Adjusted temperature offset at -.40 deg. C, which brought display to 15.20 deg. C.

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.3	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.3	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17747 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	AIT-613 Turbidity	7sc Surface Scatter Turbidimet
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	3/11/2014
Printed	
Scheduled	3/11/2014
Delinquent	
Completed	3/11/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Perform end of WTP testing calibration of Hach 7sc pre-chlorination turbidimeter.

Comments Closed sample flow inlet and cleaned meter body. Prepared a 400 ntu formazin standard and initiated calibration. Controller display indicates successful cal. Took sample with display showing 5.18 ntu. Lab measured 6.00 ntu; a difference of 15.83%. Switched sample pumps. Recalibrated turbidimeter using 4,000 ntu formazin standard. Took another sample with display showing 4.28 ntu. Lab measurement of that sample was 5.00 ntu; a difference of 16.82%.

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	1	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	1	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17742 **Type** UnSch **Priority** 5
Create Reason Other **Created By** fhill

Equipment	AIT-613 Turbidity	7sc Surface Scatter Turbidimet
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	3/5/2014
Printed	
Scheduled	3/5/2014
Delinquent	
Completed	3/5/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Program Hach 7sc pre-chlorination turbidimeter for 60 second signal averaging.

Comments In the SC1000 controller sensor setup menu, accessed ss7 configuration file and reprogrammed from 30 second signal averaging to 60 second averaging.

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.1	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

Completed Work Order Detail Report

3/5/2014

Electronics

WO # 17740 **Type** Sched **Priority** 5

Create Reason Other **Created By** fhill

Equipment	AIT-613 Turbidity	7sc Surface Scatter Turbidimet
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	3/5/2014
Printed	
Scheduled	3/5/2014
Delinquent	
Completed	3/5/2014
Shutdown	
Startup	
Downtime Hours	

Instructions

Perform weekly calibration verification of Hach 7sc pre-chlorination turbidimeter.

Comments Took sample with controller displaying 5.03 ntu. Lab testing resulted in 4.90 ntu; a difference of 2.6%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.3	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.3	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

Completed Work Order Detail Report

Electronics

WO # 17675 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment AIT-613 Turbidity 7sc Surface Scatter Turbidimet
Location 05 Chlorinator/Hydro Room
Task WTP-CAL WTP Instrument Calibration

Created	2/26/2014
Printed	
Scheduled	2/26/2014
Delinquent	
Completed	2/26/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach sc7 Surface Scatter pre-chlorination turbidimeter.

Comments Power outage at approximately 1:35 am, causing pump cycling and flow fluctuations. Took sample with controller displaying 4.37 ntu. Lab testing resulted in 4.55 ntu; a difference of 4.12%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.3	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.3	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17667 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	AIT-613 Turbidity	7sc Surface Scatter Turbidimet
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	2/21/2014
Printed	
Scheduled	2/21/2014
Delinquent	
Completed	2/21/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Perform 30 day calibration of Hach 7sc pre-chlorination turbidimeter.

Comments Closed sample flow, drained and cleaned the body. Prepared a 400 ntu formazin standard and initiated calibration. Display indicated successful calibration. Took sample with controller displaying 2.62 ntu. Lab testing resulted in 2.80 ntu; a difference of 6.87%.

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.5	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.5	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17657 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment AIT-613 Turbidity 7sc Surface Scatter Turbidimet
Location 05 Chlorinator/Hydro Room
Task WTP-CAL WTP Instrument Calibration

Created	2/19/2014
Printed	
Scheduled	2/19/2014
Delinquent	
Completed	2/19/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify calibration of Hach 7sc Surface Scatter turbidimeter.

Comments At 9:34 am, took sample with controller displaying 2.35 ntu. At 9:38 am, bench measurement resulted in reading 3.00 ntu; a difference of 27.7%. Took another sample, this time from the discharge line, with the display at 2.33 ntu. Bench measurement was 2.95 ntu; a difference of 26.6%.
At 10:50 am, cleaned the turbidimeter. Calibrated using 4,000 ntu formazin standard solution. Controller now indicates 1.91 ntu.
Checked the alignment of the light source with the alignment template and found it slightly off. Loosened the two screws and adjusted. Calibrated again with diluted standard of 400 ntu.
At 1:16 pm, took sample from discharge line while controller displayed 2.70 ntu. Bench test with Hach 2100N turbidimeter resulted in 2.67 ntu; a difference of 1.1%.

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	1.5	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	1	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17645 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	AIT-613 Turbidity	7sc Surface Scatter Turbidimet
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	2/12/2014
Printed	
Scheduled	2/12/2014
Delinquent	
Completed	2/12/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach sc pHD surface scatter 7 pre-chlorination turbidimeter.

Comments At 8:31 am, took sample with controller displaying 3.87 ntu. At 8:35 am, bench measurement resulted in reading 3.90 ntu; a difference of 0.8%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.2	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.2	$0.00
Labor Total						$0.00

Work Order Total $0.00

Completed Work Order Detail Report
Electronics

WO # 17637 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill
Equipment AIT-613 Turbidity 7sc Surface Scatter Turbidimet
Location 05 Chlorinator/Hydro Room
Task WTP-CAL WTP Instrument Calibration

Created	2/5/2014
Printed	
Scheduled	2/5/2014
Delinquent	
Completed	2/5/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach surface scatter turbidimeter.

Comments Sample of pre-chlorination water taken at the sampling point while controller displayed 3.91 ntu. Lab measured value was 3.71 ntu; a difference of 5.1%.

Meter And Gauge Readings
(None)

Work Order Part
(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 1	ELECTRONIC TECH I	(Unassigned)	JHANSEN	0	0.5	$0.00
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.5	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

WO # 17573 **Type** Sched **Priority** 5
Create Reason Other **Created By** fhill

Equipment	AIT-613 Turbidity	7sc Surface Scatter Turbidimet
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	1/29/2014
Printed	
Scheduled	1/29/2014
Delinquent	
Completed	1/29/2014
Shutdown	
Startup	
Downtime Hours	

Instructions
Verify accuracy of Hach surface scatter 7sc turbidimeter.

Comments At 1:14 PM, took a sample of pre-chlorination water at the sampling point. Turbidimeter displayed 2.51 ntu. Lab measured value was 2.70 ntu; a difference of 7.57%.

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.5	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

Completed Work Order Detail Report

Electronics

WO # 17555 **Type** UnSch **Priority** 5

Create Reason Other **Created By** fhill

Equipment	AIT-613 Turbidity	7sc Surface Scatter Turbidimet
Location	05	Chlorinator/Hydro Room
Task	WTP-CAL	WTP Instrument Calibration

Created	1/25/2014
Printed	
Scheduled	1/24/2014
Delinquent	
Completed	1/24/2014
Shutdown	
Startup	
Downtime Hours	

Instructions

Clean and calibrate Hach 7sc turbidimeter.

Comments Turned off sample flow, drained the body, and cleaned. Restored flow long enough to flush and re-closed valve. Inserted calibration cylinder, selected calibration/hold outputs, poured 400 fnu formazin (diluted 4,000 fnu standard by 10 to 1) into calibration cylinder. Closed door and confirmed calibration standard as 400 ntu. Display showed "good cal" and new gain value of 2.16. Removed calibration cylinder, restored sample flow, and returned to normal measuring mode. Took sample from drain line of ammonia probe beneath the turbidimeter.
SC1000 display is now 2.53 ntu.
Lab tested with result of 2.60 ntu.
2.7% difference

Meter And Gauge Readings

(None)

Work Order Part

(None)

Work Order Labor

Labor Class	Description	Labor Account No	Employee	Est. Hours	Actual Hours	Cost
ELEC 2	ELECTRONIC TECH II	(Unassigned)	FHILL	0	0.5	$0.00
Labor Total						$0.00

Work Order Total $0.00

Report Totals **Downtime Hours** 0.00

Part Cost	$0.00
Labor Cost	$0.00
Vendor Cost	$0.00
Total Cost	$0.00

Wastewater Microscopic Examination

Description:

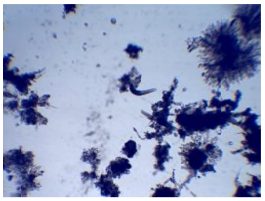
A Wastewater microscopic exam was conducted three times per day during the FSV (full scale verification test) to monitor activity and overall conditions and health of the biological species of the treatment process.

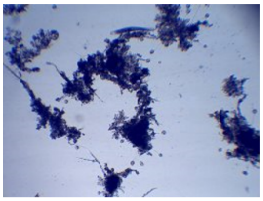
Conclusion:

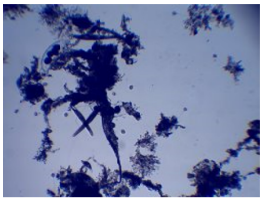
The microscopic examination did not indicate any adverse conditions or any type of shock or toxic load was placed on the treatment process. The examination revealed a very healthy biological population that is indicative of a properly balanced treatment process.

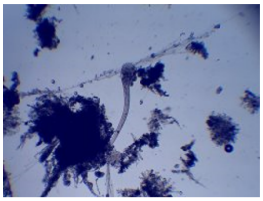
CITY OF WICHITA FALLS
1005 River Road ● Wichita Falls, Texas 76305 ● t: (940) 766-2841 ● f: (940) 723-9542
www.wichitafallstx.gov

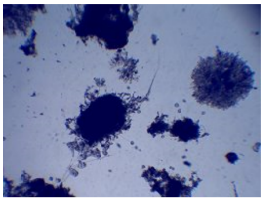
Wastewater Microscopic Examination

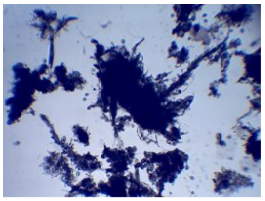

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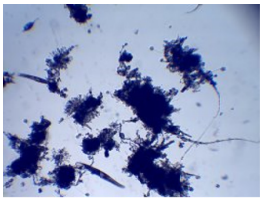

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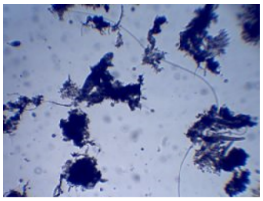

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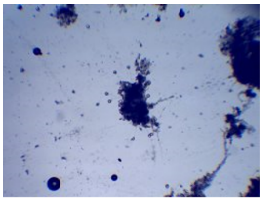

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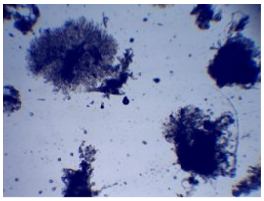

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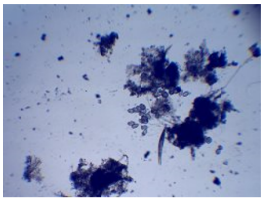

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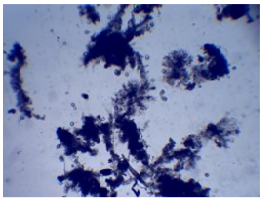

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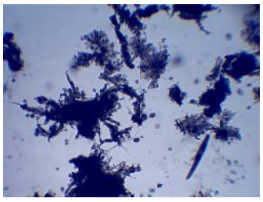

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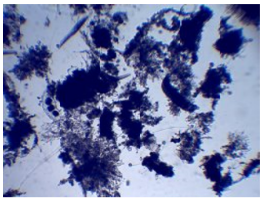

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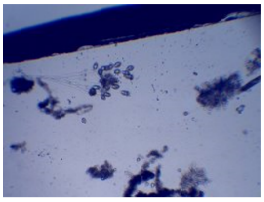

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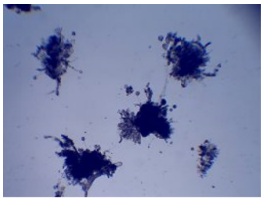

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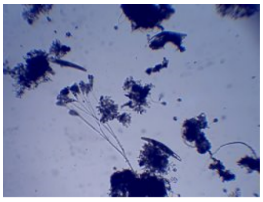

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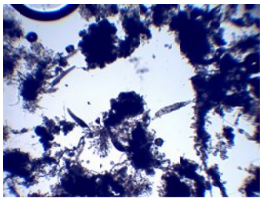

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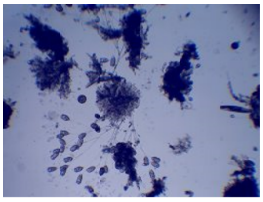

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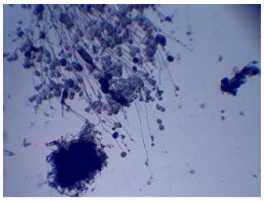

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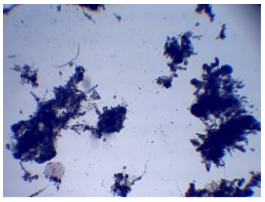

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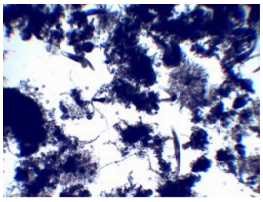

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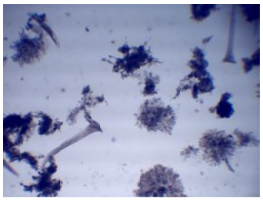

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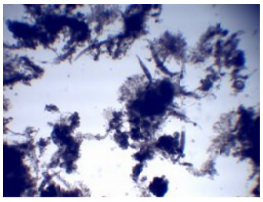

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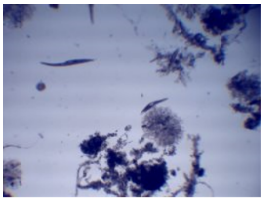

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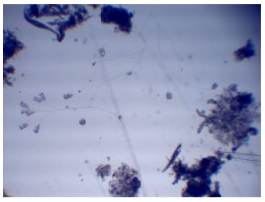

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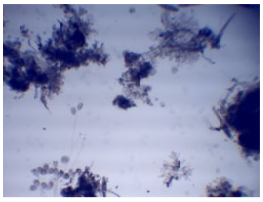

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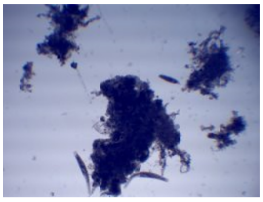

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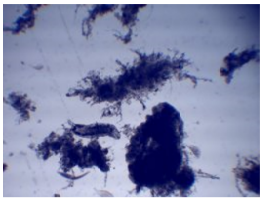

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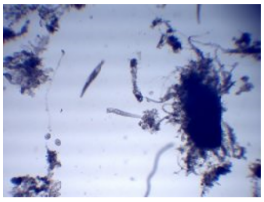

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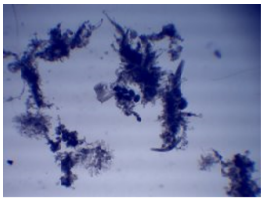

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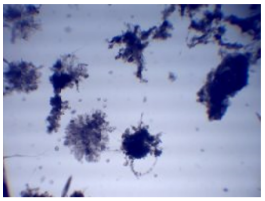

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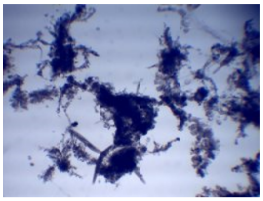

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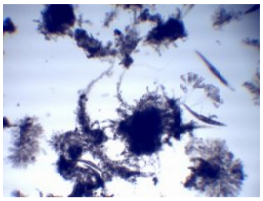

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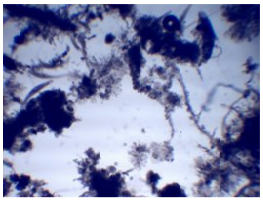

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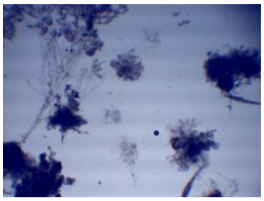
Wastewater Microscopic Examination

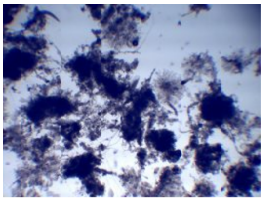

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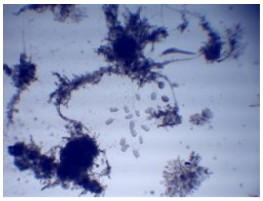

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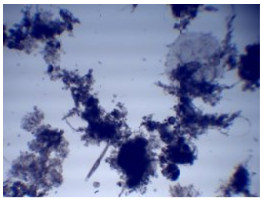

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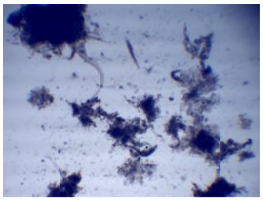

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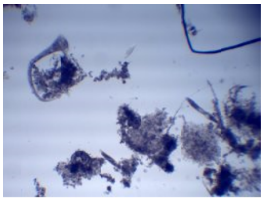

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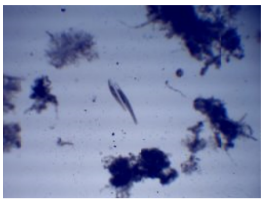

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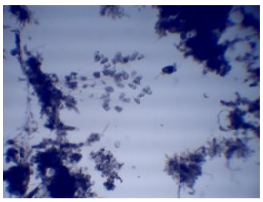

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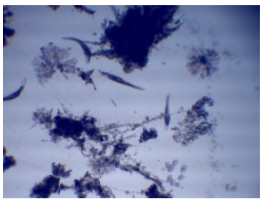

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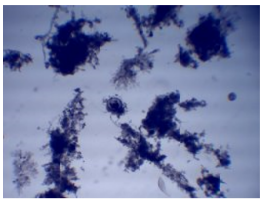

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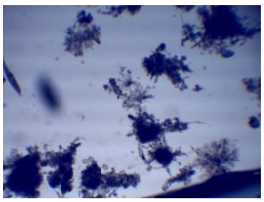

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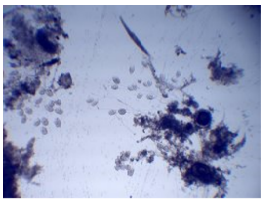

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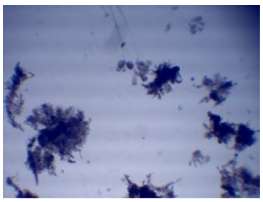

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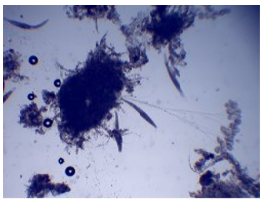

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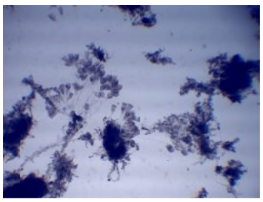

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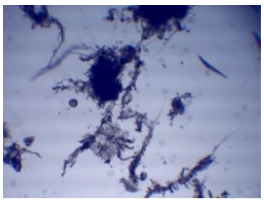

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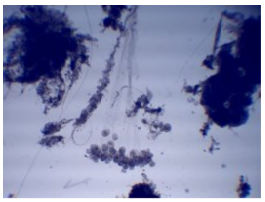

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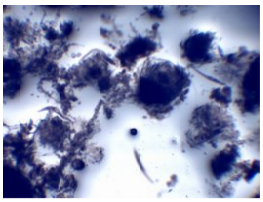

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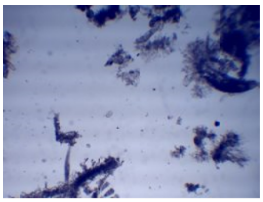

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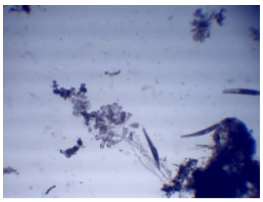

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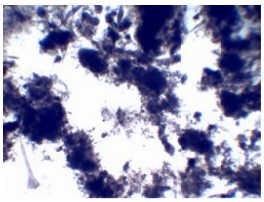

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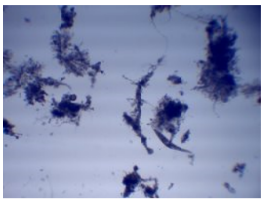

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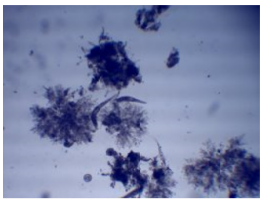

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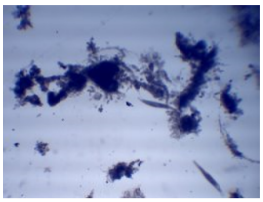

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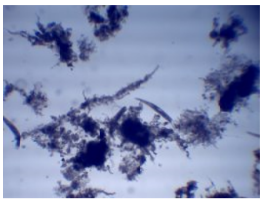

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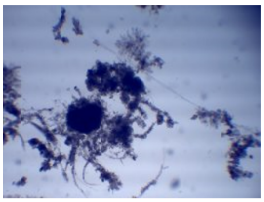

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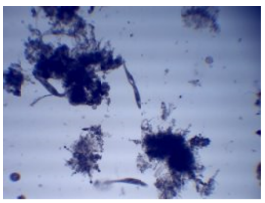

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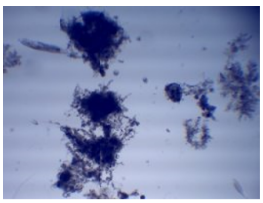

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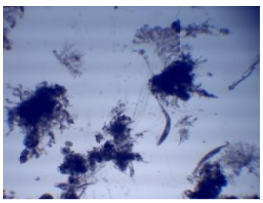

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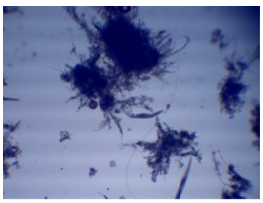

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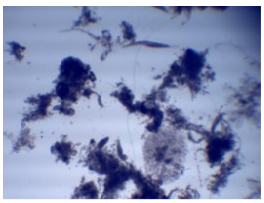

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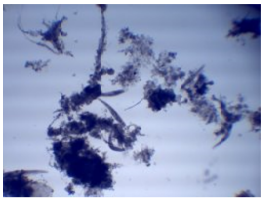

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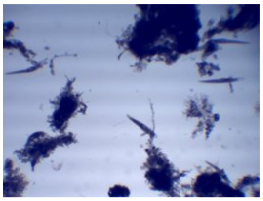

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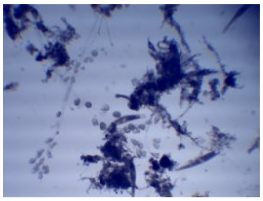

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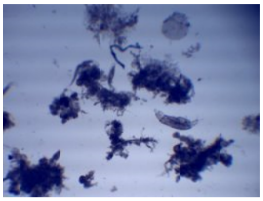

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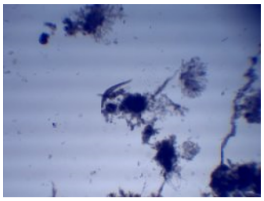
Wastewater Microscopic Examination

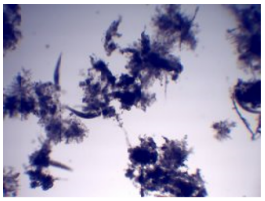

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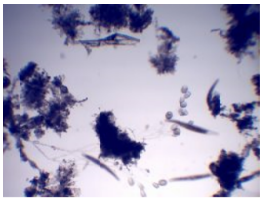

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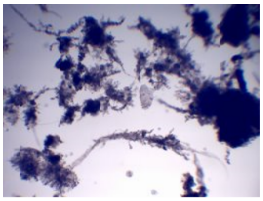

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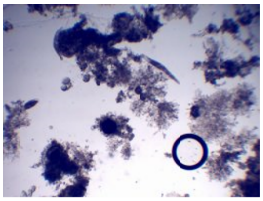

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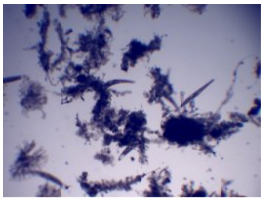

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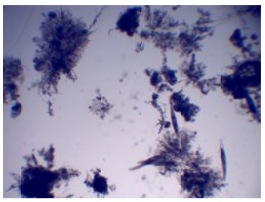

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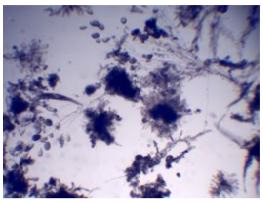

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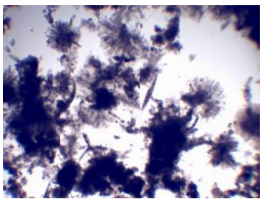

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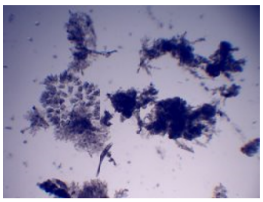

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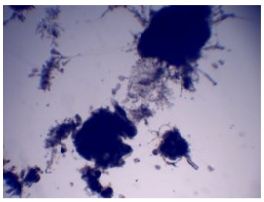

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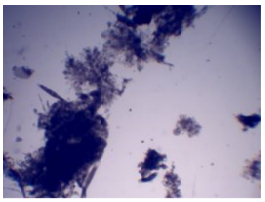

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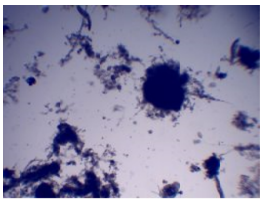

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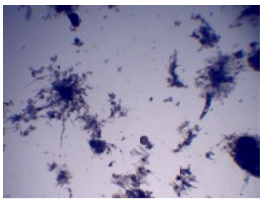

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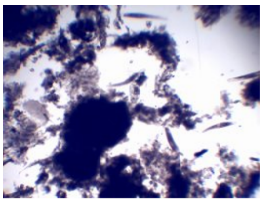

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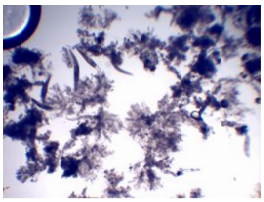

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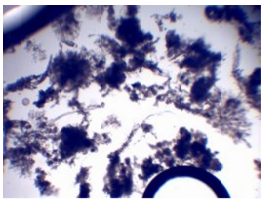

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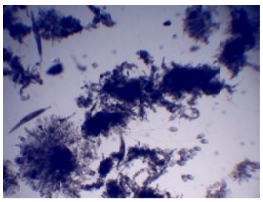

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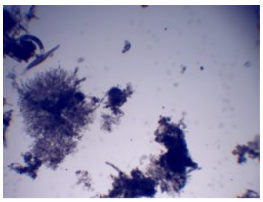

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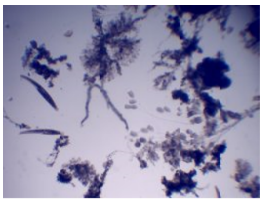

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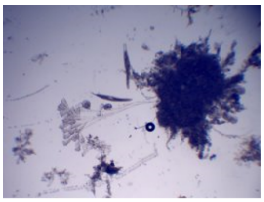

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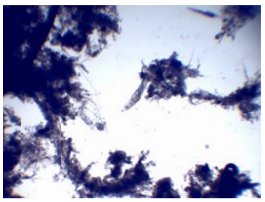

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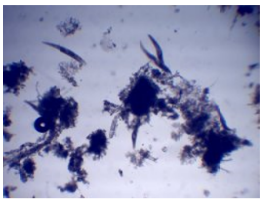

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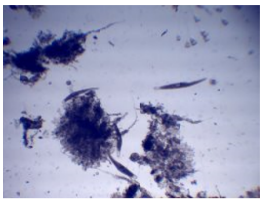

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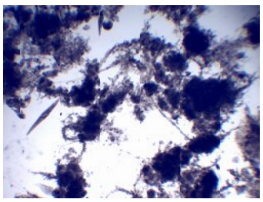

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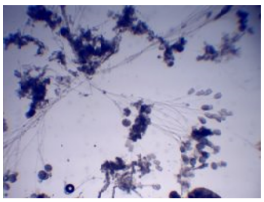

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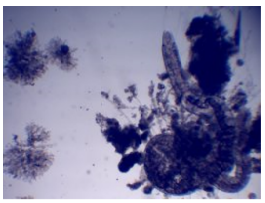

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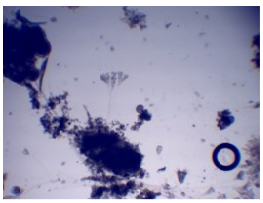

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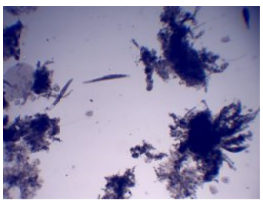

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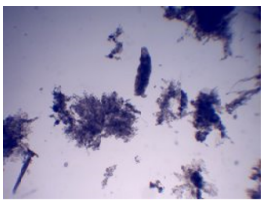

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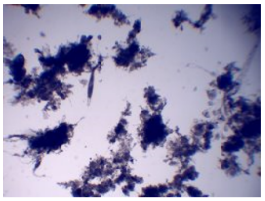

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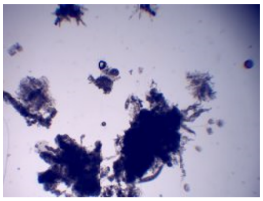

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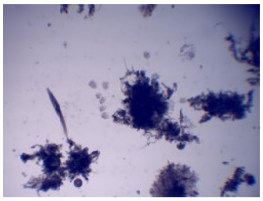

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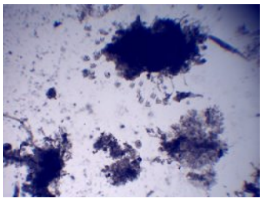

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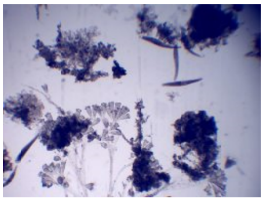
Wastewater Microscopic Examination

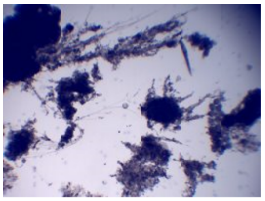

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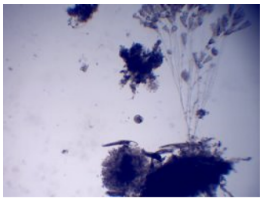

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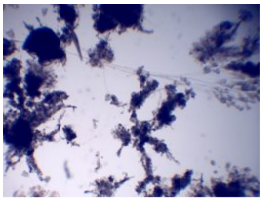

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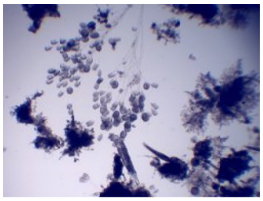

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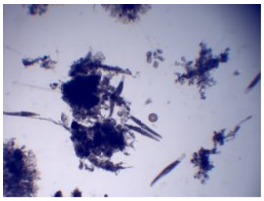

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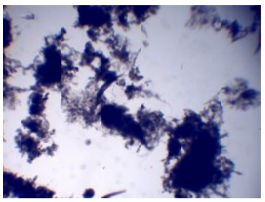

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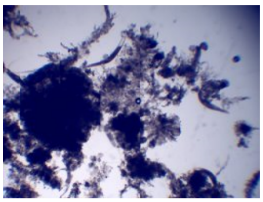

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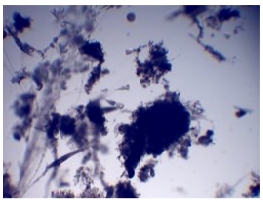

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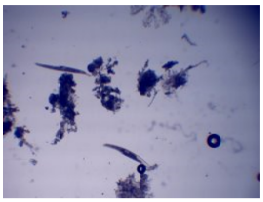

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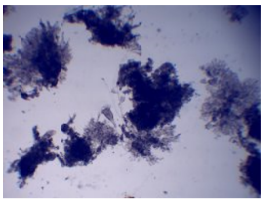

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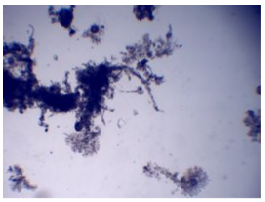

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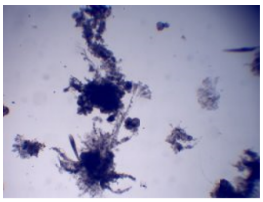

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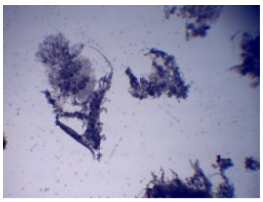

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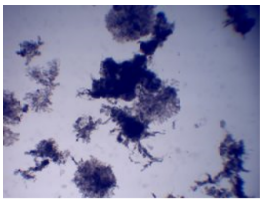

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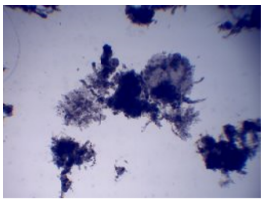

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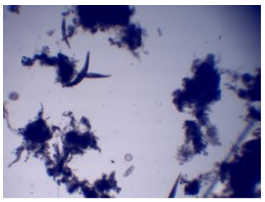

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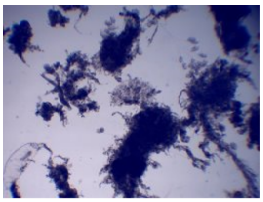

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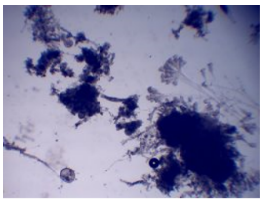

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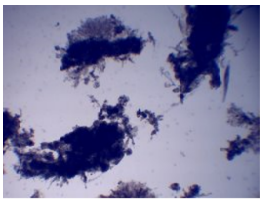

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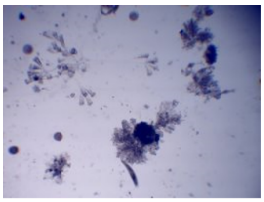

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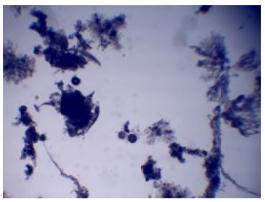

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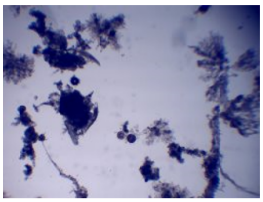

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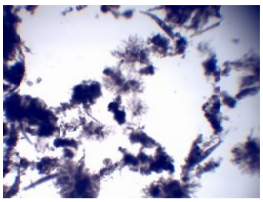

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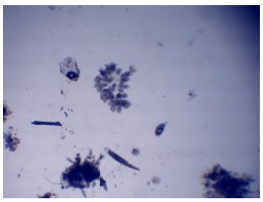

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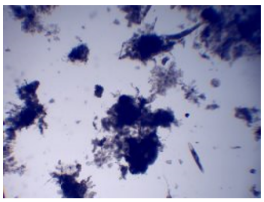

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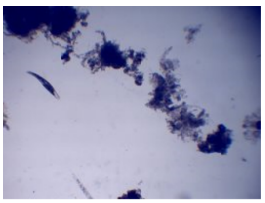

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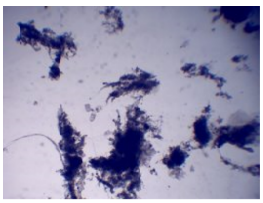

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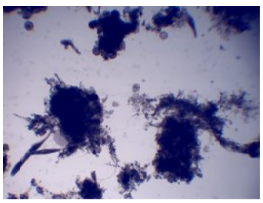

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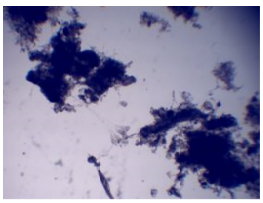

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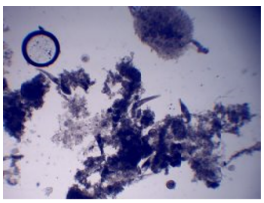

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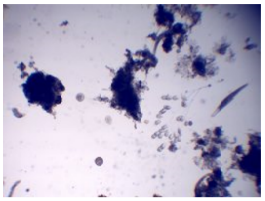

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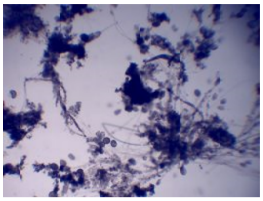

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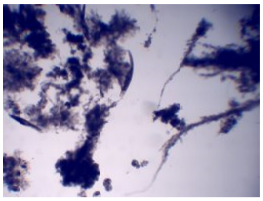

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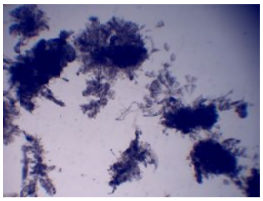

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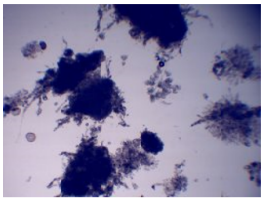
Wastewater Microscopic Examination

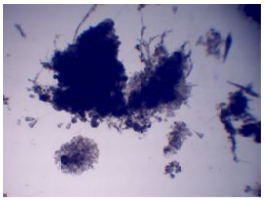

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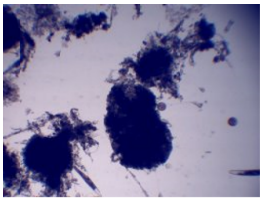

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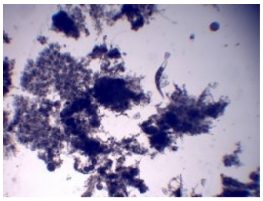

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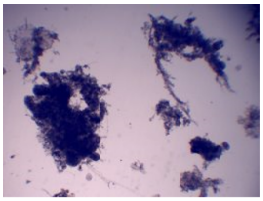

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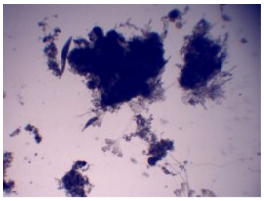

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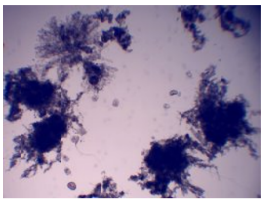

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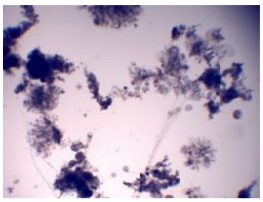

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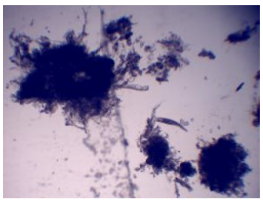

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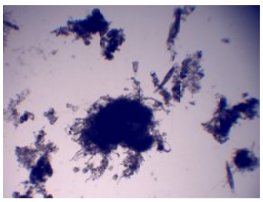

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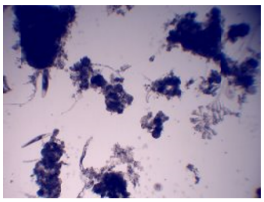

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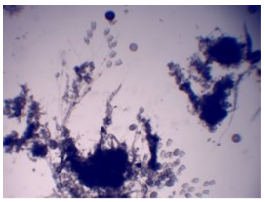

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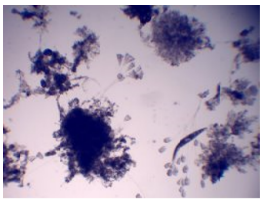

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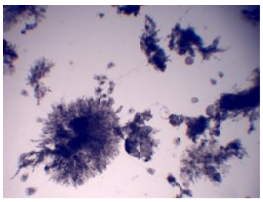

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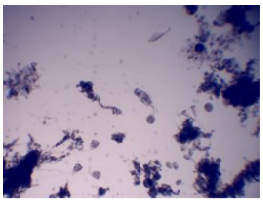

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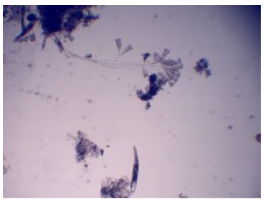

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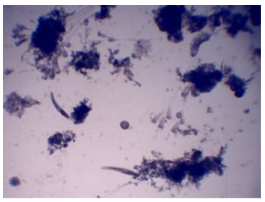

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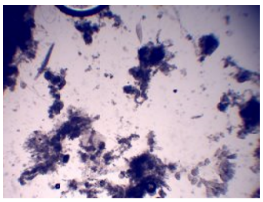

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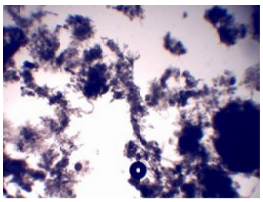

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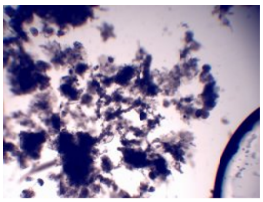

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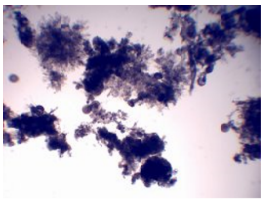

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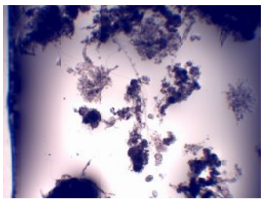

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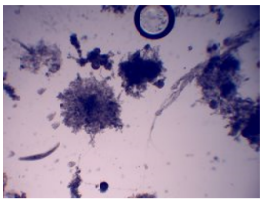

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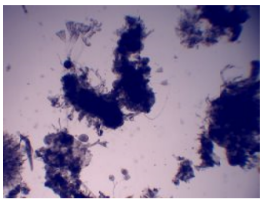

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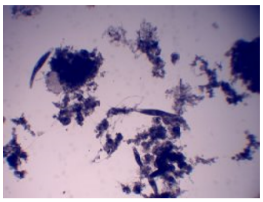

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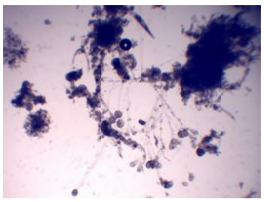

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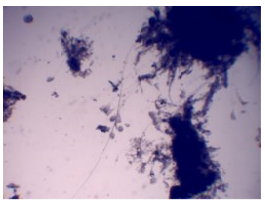

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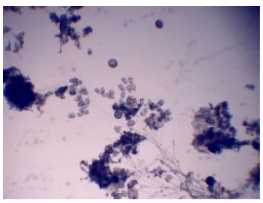

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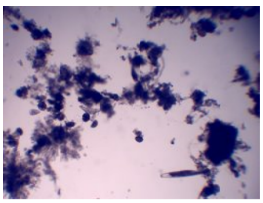

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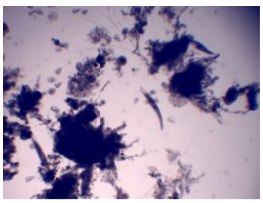

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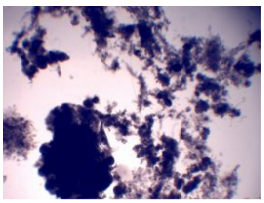

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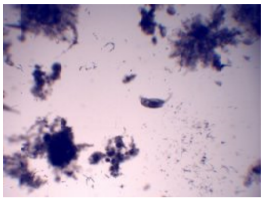

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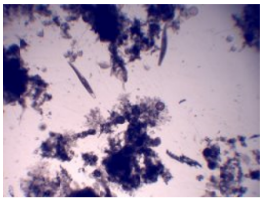

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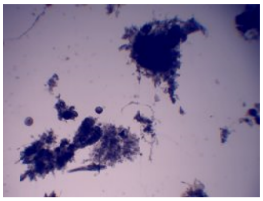

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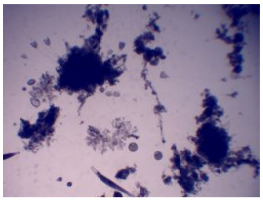

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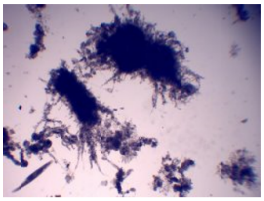
Wastewater Microscopic Examination

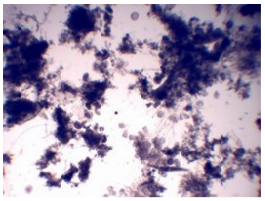

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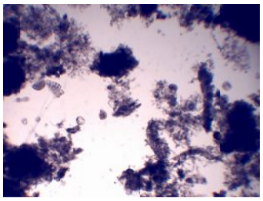

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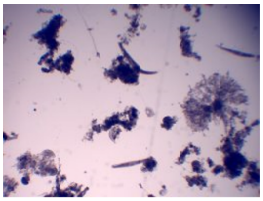

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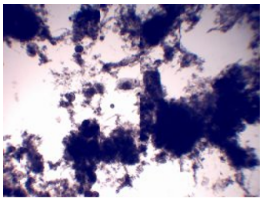

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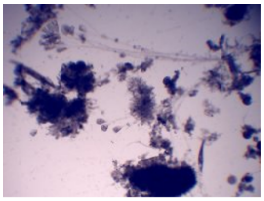

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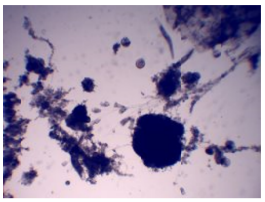

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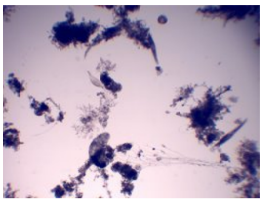

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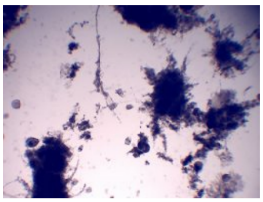

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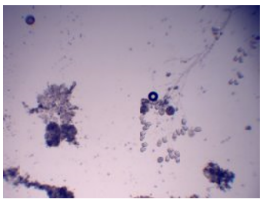

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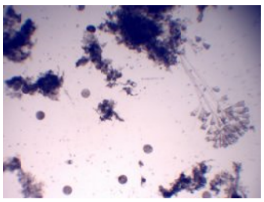

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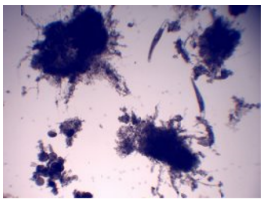

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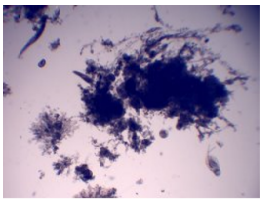

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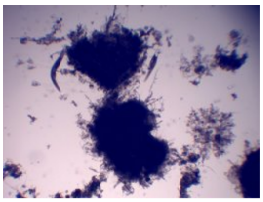

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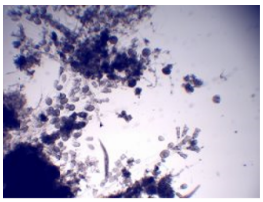

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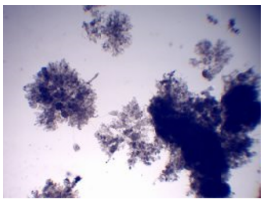

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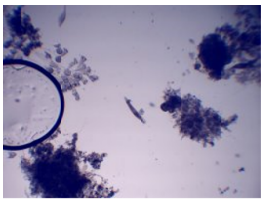

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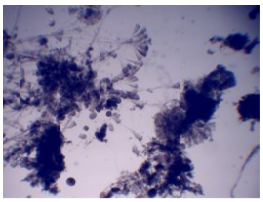

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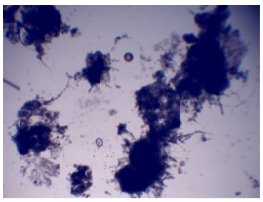

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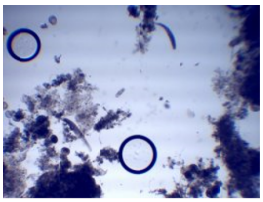

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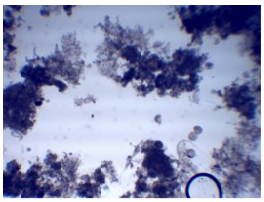

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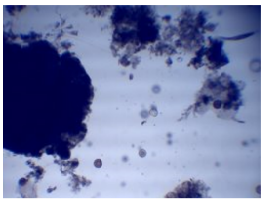

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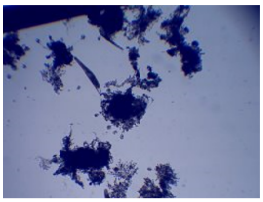

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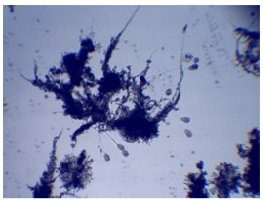

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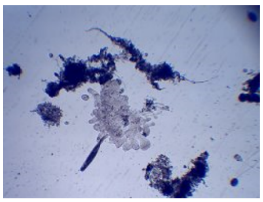

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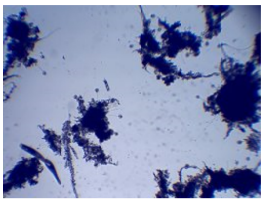

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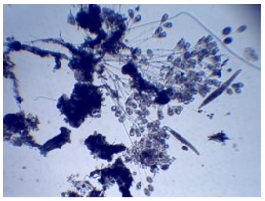

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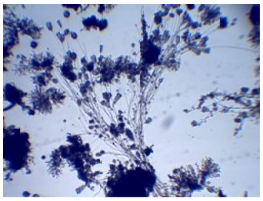

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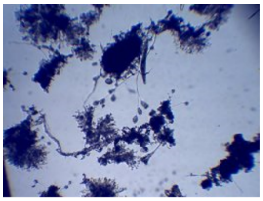

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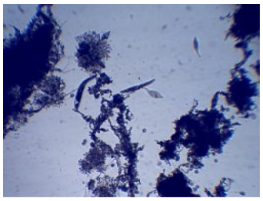

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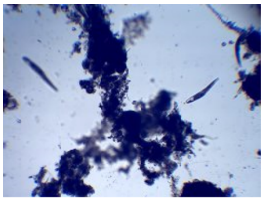

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