

TCEQ – 40J

Conventional 2010 SWTP Clearwell Effluent Water Quality

Site Description:

This site is at the end of the Cypress conventional 2010 SWTP. The analysis that was performed at this site monitored the quality of the treated water.

Protocol:

TCEQ 40J Conventional 2010 SWTP Clearwell Effluent Water Quality (after 2010 clearwell transfer pumps and prior to GSTs)									
	5-min	15-min	2-hr	4-hr	1/day	1/day or Δ	2/week	1/week	S/30/E
Combined flow rate		X							
Turbidity		X							
Temperature					X				
pH level					X				
TDS		X							
TSS					X				
Fluoride					X				
Daily flow rate					X				
Chlorine dioxide					X				
Nitrate		X							X
<i>E. coli</i>					X				X
<i>Giardia</i>					X				X
<i>Cryptosporidium</i>					X				X
Water color					X				
Odor					X				
Chlorite					X				
Alkalinity								X	
Hardness as calcium carbonate								X	
Calculated Langlier Saturation Index								X	
THM								X	
HAA5								X	
Lead									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
Total culturable viruses									X

Summary Table:

TCEQ – 40J Conventional 2010 SWTP Clearwell Effluent Water Quality

	Flow	Turbidity	Temperature	Nitrate	Conductivity	TDS	THM	HAA5	Quantity Water Treated MGD	Chlorine Dioxide mg/L	Chlorite	Alkalinity
Units	gpm	NTU	°C	ppm	us/cm	ppm	ppm	ppm	MGD	ppm	ppm	ppm
Min	-15	0.09	5.0	0.43	0.49	326	12.10	6.90	3.34	0.00	0.18	38.00
Max	8392	0.27	77.0	2.08	0.69	462	16.70	9.30	4.24	0.35	0.32	67.00
Avg	2755	0.14	10.5	0.66	0.57	382	14.21	8.29	3.90	0.04	0.27	50.86
95th %	3081	0.19	15.0	1.47	0.67	450	16.40	9.24	4.20	0.20	0.31	64.30
n	4176	4176	4176	4176	4176	4176	9	9	44	44	44	10

	Hardnes as CaCO3	Langlier S.I.	<i>E. coli</i> off-site	<i>Giardia</i> off-site	<i>Cryptosporidium</i> off-site	TCV off-site	Perchlorate	Antimony	Arsenic	Asbestos	Barium	Beryllium
Units	ppm		MPN	Cysts/L	Oocysts/L		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Min	32.00	-0.57	0.0	0	0	0	0	0	0.0	0	18	0
Max	71.00	1.01	0.0	0	0	0	0	0	1.3	0	21	0
Avg	56.43	0.17	0.0	0	0	0	0	0	0.4	0	20	0
95th %	69.50	0.87	0.0	0	0	0	0	0	1.2	0	21	0
n	10	10	3	3	3	1	3	3	3	3	3	3

	Cadmium	Chromium	Cyanide	Fluoride	Lead	Mercury	Nitrate as Nitrogen	Nitrite as Nitrogen	Nitrate & Nitrite (Total)	Selenium	Thallium	Alachlor
Units	ug/L	ug/L	ug/L	ppm	ug/L	ug/L	ppm	ppm	ppm	ug/L	ug/L	ug/L
Min	0	0	0	0.50	0	0	0.5	0.00	0.51	0.0	0.0	0
Max	0	0	0	0.70	0	0	1.5	0.02	1.52	2.2	0.0	0
Avg	0	0	0	0.63	0	0	1.0333	0.01	1.04	1.4	0.0	0
95th %	0	0	0	0.70	0	0	1.46	0.02	1.48	2.2	0.0	0
n	3	3	3	3	3	3	3	3	3	3	3	3

	Atrazine	Benzopyrene	Carbofuran	Chlordane	Dalapon	Dibromochloropropane	Di(2-ethylhexyl)adipate	Di(2-ethylhexyl)phthalate (ug/L)	Dinoseb	Diquat	Endothall	Endrin
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

	Ethylene Dibromide	Glyphosate	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Hexachlorocyclopentadiene	Lindane (ug/L)	Methoxychlor	Oxamyl (Vydate)	Pentachlorophenol	Picloram	Polychlorinated biphenyls (PCB)
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

	Simazine	Toxaphene	2,3,7,8-TCDD (Dioxin)	2,4,5-TP	2,4-D	1,1-Dichloroethylene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,2-Dichloroethane	1,2-Dichloropropane	1,2,4-Trichlorobenzene	Benzene
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	0.00	0	0	0	0	0	0	0	0	0	0	0
Max	0.00	0	0	0	0	0	0	0	0	0	0	0
Avg	0.00	0	0	0	0	0	0	0	0	0	0	0
95th %	0.00	0	0	0	0	0	0	0	0	0	0	0
n	3	3	3	3	3	3	3	3	3	3	3	3

	Carbon tetrachloride	cis-1,2-Dichloroethylene	Dichloromethane	Ethylbenzene	Monochlorobenzene	o-Dichlorobenzene	para-Dichlorobenzene	Styrene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene
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

	Vinyl chloride	Xylenes (total)	Aluminum	Chloride	Color	Copper	Corrosivity	Foaming agents	Hydrogen sulfide	Iron	Manganese	Odor
Units	ug/L	ug/L	ug/L	ppm		ug/L			ppm	ppm	ug/L	
Min	0	0	0	94	0	0.0	12.0	0	0	0.00	0	0
Max	0	0	26	120	0	1.3	12.2	0	0	0.02	0	2
Avg	0	0	12	105	0	0.9	12.1	0	0	0.01	0	1
95th %	0	0	24	118	0	1.3	12.2	0	0	0.02	0	2
n	3	3	3	3	3	3	3	3	3	3	3	3

	pH	Silver	Sulfate	Radium 226	Radium 228	Uranium	Gross Alpha Activity	Gross Beta Particle Activity	Tritium	Strontium 90	TDS	Zinc
Units		ug/L	ppm	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	ppm	ug/L
Min	8.8	0	29	0.00	0	0.0	0	8.4	0	0.00	260	0
Max	8.9	0	30	0.00	0	0.1	0	9.4	0	0.77	320	0
Avg	8.8	0	29	0.00	0	0.1	0	8.9	0	0.39	280	0
95th %	8.9	0	30	0.00	0	0.1	0	9.4	0	0.73	314	0
n	3	3	3	2	2	2	2	2	2	2	3	3

	<i>E. coli</i> on-site	<i>Giardia</i> on-site	<i>Cryptosporidium</i> on-site
Units	MPN	Cysts/L	Oocysts/L
Min	0.0	0	0
Max	165.2	0	0
Avg	37.9	0	0
95th %	68.9	0	0
n	44	44	44

Conclusions:

The 2010 Conventional SWTP performed extremely well at removing/reducing constituents. The water produced by the 2010 Conventional SWTP met all Primary and Secondary Drinking Water standards and was safe to discharge to the public for consumption.

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
1/27/2014	0:00	3.92	2720	0.16	1.22	0.57	382
	0:15	4	2776	0.16	1.19	0.57	382
	0:30	4.03	2797	0.16	1.15	0.57	382
	0:45	3.98	2762	0.16	1.11	0.56	375
	1:00	3.7	2568	0.15	1.12	0.56	375
	1:15	3.81	2644	0.15	1.15	0.57	382
	1:30	4.32	2996	0.15	1.19	0.56	375
	1:45	4.23	2932	0.14	1.21	0.56	375
	2:00	4.15	2878	0.14	1.22	0.57	382
	2:15	2.9	2011	0.14	1.23	0.57	382
	2:30	4.57	3173	0.14	1.23	0.57	382
	2:45	3.89	2700	0.14	1.23	0.56	375
	3:00	3.84	2662	0.14	1.23	0.56	375
	3:15	4.11	2850	0.14	1.22	0.56	375
	3:30	3.92	2723	0.14	1.22	0.56	375
	3:45	4.09	2835	0.14	1.22	0.56	375
	4:00	4.2	2914	0.14	1.21	0.56	375
	4:15	4.06	2814	0.15	1.21	0.56	375
	4:30	4.24	2939	0.15	1.2	0.56	375
	4:45	4.08	2834	0.15	1.2	0.56	375
	5:00	4	2775	0.15	1.19	0.56	375
	5:15	3.97	2758	0.15	1.18	0.56	375
	5:30	3.78	2623	0.15	1.17	0.55	369
	5:45	3.9	2707	0.15	1.17	0.55	369
	6:00	4.2	2913	0.15	1.16	0.56	375
	6:15	3.92	2718	0.15	1.16	0.55	369
	6:30	3.93	2725	0.15	1.15	0.55	369
	6:45	4.17	2893	0.15	1.15	0.55	369
	7:00	3.97	2758	0.15	1.14	0.55	369
	7:15	4.01	2779	0.15	1.13	0.56	375
	7:30	3.95	2743	0.15	1.13	0.55	369
	7:45	4.06	2819	0.15	1.12	0.55	369
	8:00	4	2774	0.15	1.12	0.55	369
	8:15	4.1	2843	0.15	1.11	0.55	369
	8:30	3.94	2731	0.15	1.1	0.55	369

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	8:45	4.2	2915	0.15	1.1	0.55	369
	9:00	3.97	2753	0.15	1.09	0.55	369
	9:15	3.91	2716	0.15	1.09	0.55	369
	9:30	4.09	2840	0.15	1.08	0.55	369
	9:45	4.17	2892	0.15	1.07	0.54	362
	10:00	4.22	2931	0.15	1.07	0.54	362
	10:15	4.12	2859	0.15	1.06	0.55	369
	10:30	4.16	2886	0.15	1.05	0.55	369
	10:45	4.2	2915	0.15	1.05	0.54	362
	11:00	3.99	2767	0.15	1.04	0.55	369
	11:15	3.91	2710	0.15	1.03	0.54	362
	11:30	3.96	2749	0.15	1.03	0.54	362
	11:45	4.14	2870	0.15	1.02	0.54	362
	12:00	4.08	2830	0.15	1.01	0.54	362
	12:15	3.87	2686	0.15	1.01	0.54	362
	12:30	3.96	2750	0.15	1	0.54	362
	12:45	3.98	2759	0.15	0.99	0.54	362
	13:00	4.01	2781	0.16	0.99	0.54	362
	13:15	4	2779	0.16	0.98	0.54	362
	13:30	4.03	2798	0.16	0.97	0.54	362
	13:45	4	2779	0.16	0.97	0.54	362
	14:00	4.2	2916	0.16	0.96	0.54	362
	14:15	3.94	2732	0.16	0.96	0.54	362
	14:30	3.85	2675	0.16	0.95	0.54	362
	14:45	3.91	2714	0.16	0.94	0.53	355
	15:00	3.77	2614	0.16	0.93	0.54	362
	15:15	3.86	2677	0.16	0.93	0.54	362
	15:30	3.85	2671	0.16	0.92	0.54	362
	15:45	3.91	2715	0.16	0.91	0.54	362
	16:00	3.83	2655	0.16	0.91	0.54	362
	16:15	3.73	2589	0.16	0.9	0.54	362
	16:30	3.91	2712	0.16	0.89	0.53	355
	16:45	3.87	2685	0.16	0.88	0.53	355
	17:00	3.73	2589	0.16	0.88	0.53	355
	17:15	3.82	2652	0.16	0.87	0.53	355

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	17:30	3.94	2734	0.16	0.86	0.53	355
	17:45	3.76	2609	0.16	0.86	0.53	355
	18:00	3.81	2641	0.16	0.86	0.53	355
	18:15	3.75	2605	0.16	0.85	0.53	355
	18:30	2.67	1854	0.16	0.84	0.53	355
	18:45	2.64	1835	0.16	0.84	0.53	355
	19:00	2.68	1856	0.16	0.83	0.53	355
	19:15	2.65	1839	0.16	0.83	0.53	355
	19:30	3.07	2127	0.16	0.83	0.53	355
	19:45	3.98	2764	0.16	0.82	0.53	355
	20:00	3.68	2555	0.16	0.81	0.53	355
	20:15	3.61	2502	0.16	0.81	0.53	355
	20:30	3.78	2623	0.16	0.8	0.53	355
	20:45	3.75	2603	0.16	0.8	0.52	348
	21:00	3.77	2618	0.16	0.79	0.53	355
	21:15	3.76	2612	0.16	0.78	0.52	348
	21:30	3.73	2585	0.16	0.78	0.53	355
	21:45	3.75	2603	0.16	0.77	0.52	348
	22:00	3.75	2600	0.16	0.76	0.52	348
	22:15	3.79	2632	0.16	0.76	0.52	348
	22:30	3.83	2658	0.16	0.76	0.52	348
	22:45	3.84	2663	0.16	0.75	0.52	348
	23:00	3.75	2601	0.16	0.75	0.52	348
	23:15	3.96	2745	0.16	0.74	0.52	348
	23:30	3.74	2595	0.16	0.74	0.52	348
	23:45	3.79	2630	0.16	0.73	0.52	348
1/28/2014	0:00	3.99	2770	0.16	0.73	0.52	350
	0:15	3.85	2670	0.16	0.72	0.52	348
	0:30	3.96	2748	0.16	0.72	0.52	346
	0:45	3.68	2553	0.16	0.72	0.52	347
	1:00	3.96	2748	0.16	0.71	0.52	347
	1:15	3.98	2764	0.16	0.71	0.52	346
	1:30	4	2775	0.16	0.71	0.52	345
	1:45	4.14	2873	0.16	0.7	0.52	347
	2:00	2.65	1838	0.16	0.7	0.52	349

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	2:15	4.62	3204	0.16	0.69	0.52	349
	2:30	3.89	2702	0.16	0.69	0.52	345
	2:45	3.71	2573	0.16	0.69	0.52	346
	3:00	4.01	2780	0.16	0.69	0.52	345
	3:15	4.04	2802	0.17	0.7	0.52	349
	3:30	4.07	2825	0.18	0.72	0.52	350
	3:45	3.95	2741	0.2	0.75	0.52	351
	4:00	4.01	2779	0.19	0.75	0.52	350
	4:15	4.05	2813	0.18	0.73	0.52	349
	4:30	3.89	2696	0.18	0.71	0.52	349
	4:45	3.89	2698	0.18	0.69	0.52	345
	5:00	3.89	2702	0.18	0.67	0.52	345
	5:15	3.95	2742	0.18	0.66	0.52	346
	5:30	4	2779	0.17	0.65	0.51	343
	5:45	4.02	2792	0.17	0.65	0.51	343
	6:00	3.92	2723	0.17	0.64	0.51	343
	6:15	3.9	2705	0.17	0.64	0.51	341
	6:30	4.1	2844	0.17	0.64	0.51	341
	6:45	3.93	2730	0.17	0.64	0.51	341
	7:00	3.89	2696	0.17	0.63	0.51	342
	7:15	3.78	2625	0.17	0.63	0.51	342
	7:30	3.73	2587	0.17	0.63	0.51	340
	7:45	3.83	2657	0.17	0.63	0.51	340
	8:00	3.84	2666	0.17	0.63	0.51	340
	8:15	3.85	2670	0.17	0.63	0.51	340
	8:30	3.9	2703	0.17	0.63	0.51	340
	8:45	4.04	2801	0.17	0.63	0.51	340
	9:00	3.67	2546	0.17	0.63	0.51	340
	9:15	3.9	2707	0.17	0.63	0.51	340
	9:30	3.9	2704	0.17	0.63	0.51	340
	9:45	3.8	2639	0.17	0.63	0.51	340
	10:00	3.78	2624	0.17	0.63	0.51	340
	10:15	3.87	2686	0.17	0.63	0.51	340
	10:30	3.94	2737	0.17	0.63	0.51	340
	10:45	3.79	2632	0.17	0.63	0.51	340

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	11:00	3.87	2689	0.17	0.63	0.51	340
	11:15	4.03	2799	0.17	0.63	0.51	340
	11:30	4.05	2813	0.17	0.63	0.51	340
	11:45	4.01	2782	0.17	0.63	0.51	340
	12:00	3.99	2766	0.17	0.63	0.51	340
	12:15	3.93	2730	0.16	0.63	0.51	340
	12:30	3.94	2737	0.16	0.63	0.51	340
	12:45	3.96	2751	0.17	0.63	0.51	340
	13:00	3.95	2744	0.16	0.63	0.51	340
	13:15	3.98	2761	0.16	0.63	0.51	340
	13:30	4	2775	0.17	0.63	0.51	340
	13:45	3.78	2624	0.16	0.63	0.51	340
	14:00	3.74	2593	0.17	0.63	0.51	340
	14:15	3.85	2669	0.16	0.63	0.51	340
	14:30	3.91	2714	0.16	0.63	0.51	340
	14:45	3.95	2743	0.16	0.63	0.51	340
	15:00	3.88	2691	0.16	0.63	0.51	340
	15:15	3.75	2600	0.16	0.63	0.51	340
	15:30	3.86	2680	0.16	0.63	0.51	340
	15:45	3.77	2618	0.16	0.63	0.51	340
	16:00	3.88	2690	0.16	0.63	0.51	340
	16:15	3.87	2689	0.16	0.63	0.51	340
	16:30	4.02	2787	0.16	0.63	0.51	340
	16:45	4	2778	0.16	0.63	0.51	340
	17:00	3.98	2760	0.16	0.63	0.51	340
	17:15	3.96	2745	0.16	0.63	0.51	340
	17:30	4.04	2801	0.16	0.63	0.51	340
	17:45	4.01	2783	0.16	0.63	0.51	340
	18:00	3.9	2705	0.16	0.63	0.51	340
	18:15	3.82	2652	0.16	0.63	0.51	340
	18:30	3.93	2730	0.16	0.63	0.51	340
	18:45	4.03	2800	0.16	0.63	0.51	340
	19:00	4.03	2795	0.16	0.63	0.51	340
	19:15	3.87	2688	0.16	0.63	0.51	340
	19:30	3.92	2718	0.16	0.63	0.51	340

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	19:45	3.95	2742	0.16	0.63	0.51	340
	20:00	4.01	2786	0.16	0.63	0.51	340
	20:15	4.02	2792	0.16	0.63	0.51	340
	20:30	3.94	2736	0.16	0.63	0.51	340
	20:45	4.02	2789	0.16	0.63	0.51	340
	21:00	4.05	2809	0.16	0.63	0.51	340
	21:15	4.24	2941	0.16	0.63	0.51	340
	21:30	4.19	2909	0.16	0.63	0.51	340
	21:45	3.99	2767	0.16	0.63	0.51	340
	22:00	3.97	2756	0.16	0.63	0.51	340
	22:15	3.92	2723	0.16	0.63	0.51	340
	22:30	4	2779	0.16	0.63	0.51	340
	22:45	4.1	2842	0.16	0.63	0.51	340
	23:00	3.96	2750	0.16	0.63	0.51	340
	23:15	3.99	2766	0.16	0.63	0.51	340
	23:30	3.9	2705	0.16	0.63	0.51	340
	23:45	3.92	2723	0.16	0.63	0.51	340
1/29/2014	0:00	3.8	2637	0.16	0.52	0.5	335
	0:15	3.84	2665	0.16	0.52	0.5	335
	0:30	3.88	2693	0.16	0.51	0.5	335
	0:45	3.89	2700	0.16	0.52	0.5	335
	1:00	3.85	2672	0.16	0.51	0.5	335
	1:15	3.91	2714	0.16	0.51	0.5	335
	1:30	3.89	2700	0.16	0.51	0.5	335
	1:45	3.87	2686	0.16	0.51	0.5	335
	2:00	3.92	2720	0.16	0.51	0.51	340
	2:15	3.91	2714	0.16	0.51	0.51	340
	2:30	3.91	2714	0.16	0.51	0.51	340
	2:45	3.99	2769	0.16	0.51	0.51	340
	3:00	3.91	2714	0.16	0.51	0.51	340
	3:15	3.84	2665	0.16	0.5	0.51	340
	3:30	3.95	2741	0.16	0.5	0.51	340
	3:45	3.85	2672	0.16	0.5	0.51	340
	4:00	3.88	2693	0.16	0.5	0.51	340
	4:15	3.9	2707	0.16	0.5	0.51	340

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	4:30	4	2776	0.16	0.5	0.51	340
	4:45	3.94	2734	0.16	0.5	0.51	340
	5:00	3.9	2707	0.16	0.5	0.51	340
	5:15	3.88	2693	0.16	0.5	0.51	340
	5:30	3.86	2679	0.16	0.5	0.51	340
	5:45	3.9	2707	0.16	0.55	0.5	335
	6:00	3.86	2679	0.16	0.54	0.5	335
	6:15	3.84	2665	0.16	0.54	0.5	335
	6:30	3.84	2665	0.16	0.54	0.5	335
	6:45	3.86	2679	0.15	0.54	0.5	335
	7:00	3.79	2630	0.15	0.53	0.5	335
	7:15	3.78	2623	0.15	0.53	0.5	335
	7:30	3.82	2651	0.15	0.53	0.5	335
	7:45	3.84	2665	0.15	0.53	0.5	335
	8:00	3.88	2693	0.15	0.53	0.5	335
	8:15	3.81	2644	0.15	0.53	0.5	335
	8:30	3.82	2651	0.15	0.53	0.5	335
	8:45	3.81	2644	0.15	0.53	0.5	335
	9:00	3.87	2686	0.15	0.53	0.5	335
	9:15	3.81	2644	0.15	0.53	0.5	335
	9:30	3.77	2616	0.15	0.53	0.5	335
	9:45	3.83	2658	0.15	0.53	0.5	335
	10:00	3.83	2658	0.15	0.52	0.5	335
	10:15	3.89	2700	0.15	0.52	0.5	335
	10:30	3.9	2707	0.15	0.52	0.5	335
	10:45	3.95	2741	0.15	0.52	0.5	335
	11:00	3.99	2769	0.15	0.52	0.5	335
	11:15	3.86	2679	0.15	0.52	0.5	335
	11:30	3.93	2727	0.15	0.52	0.5	335
	11:45	3.94	2734	0.15	0.52	0.5	335
	12:00	3.84	2665	0.15	0.52	0.5	335
	12:15	3.92	2720	0.15	0.52	0.5	335
	12:30	3.89	2700	0.15	0.51	0.5	335
	12:45	3.95	2741	0.15	0.52	0.5	335
	13:00	3.91	2713	0.15	0.63	0.51	340

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	13:15	4	2773	0.15	0.48	0.51	341
	13:30	3.99	2770	0.15	0.48	0.51	342
	13:45	4.05	2811	0.15	0.48	0.51	342
	14:00	4.08	2832	0.15	0.48	0.51	343
	14:15	4.03	2800	0.15	0.48	0.51	342
	14:30	4.13	2867	0.14	0.48	0.51	340
	14:45	4.09	2839	0.14	0.48	0.51	342
	15:00	4.12	2858	0.14	0.48	0.51	339
	15:15	4.03	2795	0.14	0.48	0.51	340
	15:30	4.14	2870	0.15	0.48	0.51	339
	15:45	4.02	2788	0.14	0.48	0.51	340
	16:00	4.09	2840	0.14	0.48	0.51	340
	16:15	4.02	2791	0.14	0.48	0.51	343
	16:30	4	2777	0.14	0.48	0.51	342
	16:45	4.01	2786	0.14	0.48	0.51	343
	17:00	4.01	2781	0.14	0.48	0.51	342
	17:15	3.99	2770	0.14	0.48	0.51	341
	17:30	3.88	2691	0.14	0.47	0.51	342
	17:45	4.05	2813	0.14	0.47	0.51	342
	18:00	3.85	2668	0.14	0.47	0.51	343
	18:15	3.94	2735	0.14	0.47	0.51	341
	18:30	3.89	2700	0.14	0.47	0.51	340
	18:45	3.9	2709	0.14	0.47	0.51	341
	19:00	3.85	2671	0.14	0.47	0.5	337
	19:15	3.84	2663	0.14	0.47	0.5	338
	19:30	3.9	2703	0.14	0.46	0.51	341
	19:45	3.81	2646	0.14	0.46	0.5	338
	20:00	3.85	2673	0.14	0.46	0.5	338
	20:15	3.87	2683	0.14	0.46	0.5	337
	20:30	3.88	2690	0.14	0.46	0.51	340
	20:45	3.81	2641	0.14	0.46	0.51	339
	21:00	3.83	2659	0.14	0.46	0.5	338
	21:15	3.82	2651	0.14	0.46	0.51	339
	21:30	3.82	2652	0.14	0.46	0.51	338
	21:45	3.78	2625	0.14	0.46	0.51	339

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	22:00	3.79	2632	0.14	0.46	0.51	338
	22:15	3.83	2661	0.14	0.46	0.51	338
	22:30	3.77	2614	0.14	0.46	0.5	336
	22:45	3.75	2602	0.14	0.46	0.5	334
	23:00	3.8	2634	0.14	0.46	0.51	339
	23:15	3.83	2655	0.14	0.46	0.5	337
	23:30	3.72	2582	0.14	0.46	0.5	336
	23:45	3.84	2667	0.14	0.46	0.5	338
1/30/2014	0:00	3.81	2647	0.14	0.46	0.5	334
	0:15	3.86	2675	0.14	0.46	0.5	336
	0:30	3.88	2691	0.14	0.46	0.5	336
	0:45	3.88	2691	0.14	0.46	0.5	332
	1:00	3.82	2652	0.14	0.46	0.5	336
	1:15	3.87	2683	0.14	0.46	0.5	335
	1:30	3.9	2704	0.14	0.46	0.5	333
	1:45	3.91	2713	0.14	0.46	0.5	334
	2:00	3.88	2693	0.14	0.46	0.5	334
	2:15	3.84	2667	0.14	0.45	0.5	333
	2:30	3.9	2709	0.14	0.45	0.5	334
	2:45	3.81	2641	0.14	0.45	0.5	334
	3:00	3.83	2659	0.14	0.45	0.5	333
	3:15	3.83	2655	0.13	0.45	0.5	333
	3:30	3.82	2648	0.14	0.45	0.5	333
	3:45	3.82	2650	0.13	0.45	0.5	332
	4:00	3.81	2643	0.13	0.45	0.5	332
	4:15	3.84	2668	0.13	0.45	0.5	335
	4:30	3.84	2663	0.14	0.45	0.5	336
	4:45	3.86	2681	0.13	0.45	0.5	334
	5:00	3.81	2641	0.13	0.45	0.5	336
	5:15	3.83	2660	0.14	0.45	0.5	334
	5:30	3.84	2661	0.13	0.45	0.5	334
	5:45	3.82	2650	0.13	0.45	0.5	335
	6:00	3.87	2683	0.13	0.45	0.5	332
	6:15	3.8	2639	0.13	0.45	0.5	334
	6:30	3.8	2637	0.13	0.45	0.5	332

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	6:45	3.83	2659	0.13	0.45	0.5	334
	7:00	3.83	2659	0.13	0.45	0.5	336
	7:15	3.83	2658	0.13	0.45	0.5	332
	7:30	3.78	2621	0.13	0.45	0.5	334
	7:45	3.79	2627	0.13	0.45	0.5	336
	8:00	3.86	2678	0.13	0.45	0.5	332
	8:15	3.83	2658	0.13	0.45	0.5	334
	8:30	3.82	2650	0.14	0.45	0.5	334
	8:45	3.81	2644	0.13	0.45	0.5	334
	9:00	3.8	2639	0.13	0.45	0.5	334
	9:15	3.78	2625	0.13	0.45	0.5	332
	9:30	3.87	2686	0.14	0.45	0.5	334
	9:45	3.87	2683	0.13	0.44	0.5	333
	10:00	3.92	2723	0.13	0.44	0.5	333
	10:15	3.87	2688	0.13	0.45	0.5	332
	10:30	3.88	2695	0.13	0.44	0.5	334
	10:45	3.85	2670	0.13	0.44	0.5	334
	11:00	3.85	2675	0.13	0.44	0.5	334
	11:15	3.9	2709	0.13	0.44	0.5	335
	11:30	3.82	2650	0.13	0.44	0.5	336
	11:45	3.92	2718	0.13	0.44	0.5	333
	12:00	3.93	2725	0.13	0.44	0.5	336
	12:15	3.91	2712	0.13	0.44	0.5	336
	12:30	4.02	2791	0.13	0.44	0.5	334
	12:45	3.9	2707	0.13	0.44	0.5	332
	13:00	3.95	2741	0.13	0.44	0.5	337
	13:15	3.83	2655	0.13	0.44	0.5	337
	13:30	3.9	2703	0.13	0.44	0.5	333
	13:45	3.82	2652	0.13	0.44	0.5	336
	14:00	3.93	2727	0.13	0.44	0.49	331
	14:15	3.79	2629	0.13	0.44	0.49	330
	14:30	3.82	2648	0.13	0.44	0.5	336
	14:45	3.84	2664	0.13	0.44	0.5	333
	15:00	3.82	2648	0.13	0.45	0.5	336
	15:15	3.9	2706	0.13	0.44	0.5	336

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	15:30	3.81	2646	0.13	0.44	0.49	331
	15:45	3.82	2648	0.13	0.44	0.5	336
	16:00	3.74	2592	0.13	0.44	0.5	332
	16:15	3.77	2617	0.13	0.44	0.5	336
	16:30	3.84	2666	0.13	0.44	0.5	334
	16:45	3.92	2721	0.13	0.44	0.5	334
	17:00	3.87	2686	0.13	0.44	0.5	332
	17:15	3.87	2684	0.13	0.44	0.5	332
	17:30	3.84	2664	0.13	0.44	0.49	331
	17:45	3.89	2700	0.13	0.44	0.5	333
	18:00	3.94	2731	0.13	0.44	0.49	331
	18:15	3.88	2692	0.13	0.44	0.5	332
	18:30	3.93	2728	0.13	0.44	0.5	333
	18:45	3.89	2698	0.13	0.44	0.49	331
	19:00	3.89	2700	0.13	0.44	0.5	332
	19:15	3.91	2710	0.13	0.44	0.5	332
	19:30	3.84	2668	0.13	0.44	0.49	331
	19:45	3.89	2697	0.13	0.44	0.49	330
	20:00	3.83	2659	0.13	0.44	0.49	331
	20:15	3.83	2660	0.13	0.44	0.49	330
	20:30	3.84	2665	0.13	0.44	0.49	330
	20:45	3.79	2627	0.13	0.44	0.49	330
	21:00	3.77	2614	0.13	0.44	0.49	329
	21:15	3.83	2656	0.13	0.44	0.49	330
	21:30	3.81	2646	0.13	0.44	0.49	330
	21:45	3.75	2601	0.13	0.45	0.49	330
	22:00	3.79	2631	0.13	0.45	0.49	330
	22:15	3.8	2637	0.13	0.45	0.49	328
	22:30	3.84	2661	0.13	0.44	0.49	329
	22:45	3.81	2646	0.13	0.45	0.49	329
	23:00	3.8	2634	0.13	0.45	0.49	329
	23:15	3.82	2654	0.13	0.44	0.49	328
	23:30	3.88	2690	0.13	0.45	0.49	330
	23:45	3.85	2668	0.13	0.44	0.49	329
1/31/2014	0:00	3.87	2686	0.13	0.44	0.49	326

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	0:15	3.86	2675	0.13	0.45	0.49	327
	0:30	3.83	2655	0.13	0.45	0.49	327
	0:45	3.87	2686	0.13	0.45	0.49	327
	1:00	3.8	2640	0.13	0.45	0.49	328
	1:15	3.81	2646	0.13	0.45	0.49	328
	1:30	3.83	2658	0.13	0.45	0.49	329
	1:45	3.83	2659	0.13	0.45	0.49	330
	2:00	3.82	2651	0.13	0.45	0.49	330
	2:15	3.86	2677	0.13	0.45	0.49	330
	2:30	3.81	2643	0.13	0.45	0.49	330
	2:45	3.86	2678	0.13	0.45	0.49	329
	3:00	3.83	2658	0.13	0.45	0.49	328
	3:15	2.94	2043	0.13	0.45	0.49	330
	3:30	0.11	76.3	0.13	0.45	0.49	330
	3:45	-0	-6.9	0.13	0.45	0.49	330
	4:00	0.17	118	0.13	0.45	0.5	332
	4:15	-0	-1.4	0.13	0.45	0.49	330
	4:30	4.73	3280	0.13	0.45	0.5	332
	4:45	4.75	3299	0.14	0.46	0.5	332
	5:00	4.99	3464	0.16	0.48	0.5	335
	5:15	3.87	2684	0.17	0.49	0.5	334
	5:30	3.83	2657	0.17	0.48	0.5	332
	5:45	3.83	2657	0.16	0.48	0.49	331
	6:00	3.81	2647	0.14	0.47	0.49	331
	6:15	3.77	2618	0.14	0.46	0.49	330
	6:30	3.76	2609	0.13	0.46	0.49	329
	6:45	3.73	2591	0.13	0.46	0.49	331
	7:00	3.81	2646	0.13	0.46	0.49	329
	7:15	3.81	2641	0.13	0.46	0.5	332
	7:30	3.83	2657	0.13	0.46	0.49	331
	7:45	3.78	2621	0.13	0.46	0.5	332
	8:00	3.83	2660	0.13	0.46	0.49	331
	8:15	3.79	2629	0.13	0.46	0.49	329
	8:30	3.83	2655	0.13	0.46	0.49	329
	8:45	3.82	2648	0.13	0.46	0.49	330

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	9:00	3.8	2637	0.13	0.46	0.49	331
	9:15	3.8	2636	0.13	0.46	0.49	331
	9:30	3.79	2632	0.13	0.46	0.49	331
	9:45	3.81	2642	0.13	0.46	0.49	331
	10:00	3.81	2644	0.14	0.46	0.49	331
	10:15	3.86	2681	0.14	0.46	0.49	331
	10:30	3.84	2664	0.14	0.46	0.5	332
	10:45	3.92	2723	0.14	0.46	0.49	330
	11:00	3.83	2659	0.14	0.46	0.49	331
	11:15	3.99	2769	0.14	0.46	0.5	332
	11:30	3.92	2723	0.14	0.46	0.5	333
	11:45	3.96	2748	0.14	0.46	0.5	332
	12:00	3.93	2724	0.14	0.46	0.5	332
	12:15	3.88	2695	0.14	0.47	0.5	332
	12:30	3.95	2740	0.14	0.47	0.5	333
	12:45	3.86	2681	0.14	0.47	0.5	332
	13:00	3.92	2723	0.14	0.47	0.5	332
	13:15	3.9	2707	0.14	0.47	0.5	332
	13:30	3.83	2658	0.14	0.47	0.5	333
	13:45	3.78	2624	0.14	0.47	0.5	332
	14:00	3.74	2598	0.14	0.47	0.5	332
	14:15	3.74	2595	0.14	0.47	0.5	332
	14:30	3.75	2602	0.14	0.47	0.5	332
	14:45	3.79	2629	0.14	0.47	0.5	332
	15:00	3.8	2640	0.14	0.47	0.5	332
	15:15	3.81	2646	0.14	0.47	0.5	332
	15:30	3.82	2654	0.14	0.47	0.49	331
	15:45	3.81	2644	0.14	0.47	0.5	332
	16:00	3.83	2661	0.14	0.47	0.5	333
	16:15	3.88	2695	0.14	0.47	0.49	330
	16:30	3.77	2616	0.14	0.47	0.5	332
	16:45	3.8	2639	0.14	0.47	0.5	332
	17:00	3.75	2600	0.14	0.47	0.5	333
	17:15	3.74	2593	0.14	0.47	0.49	331
	17:30	3.76	2609	0.14	0.47	0.5	333

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	17:45	3.7	2571	0.14	0.47	0.49	330
	18:00	3.7	2568	0.14	0.47	0.5	332
	18:15	3.68	2553	0.14	0.47	0.5	332
	18:30	3.72	2582	0.14	0.47	0.5	332
	18:45	3.71	2575	0.14	0.47	0.5	334
	19:00	3.67	2547	0.14	0.47	0.5	333
	19:15	3.7	2564	0.14	0.48	0.5	334
	19:30	3.68	2555	0.14	0.48	0.5	335
	19:45	3.69	2560	0.14	0.47	0.5	335
	20:00	3.75	2605	0.14	0.48	0.5	334
	20:15	3.7	2568	0.14	0.48	0.5	334
	20:30	3.66	2541	0.14	0.48	0.5	332
	20:45	3.68	2550	0.14	0.48	0.5	333
	21:00	3.67	2545	0.14	0.48	0.5	334
	21:15	3.6	2500	0.14	0.48	0.5	334
	21:30	3.74	2596	0.14	0.48	0.5	332
	21:45	3.62	2515	0.14	0.48	0.49	331
	22:00	3.61	2503	0.14	0.48	0.5	332
	22:15	3.68	2551	0.14	0.48	0.5	332
	22:30	3.67	2549	0.14	0.48	0.5	332
	22:45	3.61	2503	0.14	0.48	0.49	330
	23:00	3.75	2599	0.14	0.48	0.49	329
	23:15	3.63	2520	0.14	0.48	0.5	332
	23:30	3.73	2591	0.14	0.48	0.49	330
	23:45	3.7	2565	0.13	0.48	0.5	332
2/1/2014	0:00	3.63	2522	0.13	0.48	0.49	330
	0:15	3.63	2519	0.13	0.48	0.5	332
	0:30	3.57	2476	0.14	0.48	0.5	332
	0:45	3.62	2509	0.13	0.48	0.5	334
	1:00	3.64	2525	0.13	0.48	0.49	329
	1:15	3.62	2511	0.13	0.48	0.49	331
	1:30	3.55	2463	0.14	0.48	0.49	331
	1:45	3.66	2542	0.13	0.48	0.5	332
	2:00	3.67	2544	0.13	0.48	0.5	334
	2:15	3.65	2536	0.13	0.48	0.5	332

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	2:30	3.55	2466	0.13	0.48	0.49	331
	2:45	3.61	2503	0.13	0.48	0.5	333
	3:00	3.62	2511	0.13	0.48	0.49	331
	3:15	3.58	2487	0.13	0.48	0.49	331
	3:30	3.56	2472	0.13	0.48	0.49	331
	3:45	3.61	2505	0.13	0.48	0.5	332
	4:00	3.64	2525	0.13	0.48	0.49	328
	4:15	3.79	2632	0.13	0.48	0.49	328
	4:30	3.81	2643	0.13	0.48	0.5	334
	4:45	3.73	2586	0.13	0.48	0.49	330
	5:00	3.83	2658	0.13	0.48	0.49	326
	5:15	3.8	2638	0.13	0.48	0.5	332
	5:30	2.89	2003	0.13	0.48	0.49	327
	5:45	2.89	2006	0.13	0.48	0.49	328
	6:00	2.93	2030	0.13	0.48	0.49	330
	6:15	-0	-12	0.14	0.48	0.49	328
	6:30	6.31	4376	0.14	0.48	0.49	328
	6:45	2.96	2056	0.13	0.48	0.49	328
	7:00	4.21	2920	0.14	0.48	0.49	329
	7:15	3.73	2588	0.15	0.48	0.5	334
	7:30	3.86	2677	0.16	0.48	0.49	329
	7:45	3.83	2661	0.16	0.48	0.49	330
	8:00	3.84	2667	0.15	0.48	0.5	334
	8:15	4	2773	0.14	0.48	0.5	333
	8:30	4.03	2793	0.13	0.48	0.5	332
	8:45	3.81	2642	0.13	0.48	0.5	332
	9:00	3.92	2720	0.13	0.48	0.49	327
	9:15	4.05	2810	0.12	0.48	0.49	330
	9:30	3.84	2664	0.13	0.48	0.49	327
	9:45	3.93	2728	0.13	0.48	0.49	326
	10:00	3.96	2751	0.12	0.48	0.49	328
	10:15	3.85	2669	0.13	0.48	0.5	333
	10:30	3.96	2746	0.13	0.48	0.5	333
	10:45	3.84	2666	0.13	0.48	0.5	332
	11:00	3.8	2635	0.13	0.48	0.49	331

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	11:15	4	2779	0.13	0.48	0.49	330
	11:30	3.87	2688	0.13	0.48	0.5	332
	11:45	3.88	2695	0.13	0.48	0.5	334
	12:00	3.81	2641	0.13	0.47	0.49	328
	12:15	4.04	2802	0.13	0.47	0.49	330
	12:30	3.91	2711	0.13	0.47	0.5	336
	12:45	3.8	2640	0.13	0.47	0.5	334
	13:00	3.95	2738	0.13	0.47	0.49	330
	13:15	3.97	2753	0.13	0.47	0.5	333
	13:30	4	2778	0.13	0.47	0.49	329
	13:45	4.08	2832	0.13	0.47	0.5	334
	14:00	4.06	2816	0.13	0.47	0.5	333
	14:15	4.03	2798	0.13	0.47	0.5	334
	14:30	3.96	2748	0.13	0.47	0.5	334
	14:45	4.05	2811	0.13	0.47	0.5	336
	15:00	4.02	2791	0.13	0.47	0.51	339
	15:15	3.97	2757	0.13	0.47	0.5	337
	15:30	3.91	2716	0.13	0.47	0.5	334
	15:45	3.93	2727	0.13	0.47	0.5	336
	16:00	4.09	2838	0.13	0.47	0.5	338
	16:15	4.09	2835	0.13	0.47	0.51	338
	16:30	3.99	2768	0.13	0.47	0.51	338
	16:45	3.94	2732	0.13	0.47	0.51	340
	17:00	3.9	2704	0.13	0.47	0.51	342
	17:15	4.03	2797	0.13	0.47	0.51	339
	17:30	4.02	2790	0.13	0.47	0.51	341
	17:45	3.91	2711	0.13	0.47	0.51	340
	18:00	3.94	2732	0.13	0.47	0.51	342
	18:15	3.89	2699	0.13	0.47	0.51	344
	18:30	3.89	2700	0.13	0.47	0.51	339
	18:45	3.93	2727	0.13	0.47	0.51	344
	19:00	4.02	2793	0.13	0.47	0.51	342
	19:15	4.07	2825	0.14	0.47	0.51	340
	19:30	3.96	2745	0.13	0.47	0.51	340
	19:45	4.13	2868	0.13	0.47	0.52	345

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	20:00	4.01	2784	0.13	0.47	0.51	344
	20:15	3.97	2754	0.13	0.47	0.5	338
	20:30	4.04	2802	0.13	0.47	0.52	345
	20:45	3.85	2671	0.13	0.46	0.51	344
	21:00	4.07	2821	0.13	0.47	0.51	344
	21:15	3.88	2689	0.13	0.46	0.51	342
	21:30	3.78	2625	0.13	0.46	0.51	341
	21:45	3.83	2661	0.13	0.46	0.52	346
	22:00	3.78	2625	0.13	0.46	0.51	344
	22:15	3.94	2732	0.14	0.46	0.51	343
	22:30	3.92	2717	0.14	0.46	0.51	343
	22:45	3.89	2699	0.14	0.46	0.51	342
	23:00	3.9	2709	0.14	0.46	0.51	344
	23:15	3.76	2609	0.14	0.46	0.51	344
	23:30	3.79	2632	0.14	0.47	0.52	346
	23:45	4.05	2812	0.14	0.47	0.51	344
2/2/2014	0:00	3.99	2770	0.14	0.47	0.52	345
	0:15	3.8	2638	0.14	0.46	0.51	342
	0:30	3.83	2657	0.14	0.47	0.51	344
	0:45	3.72	2580	0.14	0.47	0.52	345
	1:00	3.76	2611	0.14	0.47	0.51	344
	1:15	3.81	2646	0.14	0.47	0.52	346
	1:30	3.88	2693	0.14	0.47	0.52	345
	1:45	3.82	2652	0.14	0.47	0.51	344
	2:00	3.81	2643	0.14	0.46	0.52	346
	2:15	3.71	2575	0.14	0.46	0.52	346
	2:30	4.03	2797	0.14	0.47	0.52	346
	2:45	4.04	2802	0.14	0.47	0.52	346
	3:00	3.86	2680	0.14	0.47	0.52	346
	3:15	3.81	2643	0.14	0.47	0.52	346
	3:30	3.71	2575	0.14	0.47	0.52	346
	3:45	4.11	2855	0.14	0.47	0.52	348
	4:00	3.65	2533	0.13	0.47	0.52	348
	4:15	3.79	2627	0.13	0.47	0.52	349
	4:30	3.75	2605	0.13	0.47	0.52	349

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	4:45	3.82	2653	0.13	0.47	0.52	348
	5:00	3.95	2742	0.13	0.47	0.52	348
	5:15	3.84	2665	0.13	0.47	0.52	348
	5:30	3.69	2564	0.13	0.47	0.52	348
	5:45	3.98	2761	0.13	0.47	0.52	348
	6:00	3.76	2610	0.13	0.47	0.52	347
	6:15	4.16	2884	0.13	0.47	0.52	347
	6:30	4.06	2818	0.13	0.47	0.52	345
	6:45	4.12	2861	0.13	0.47	0.52	347
	7:00	3.74	2598	0.14	0.47	0.52	347
	7:15	3.78	2625	0.14	0.47	0.52	346
	7:30	3.84	2663	0.14	0.47	0.52	346
	7:45	3.69	2560	0.14	0.47	0.52	346
	8:00	3.9	2703	0.14	0.47	0.52	345
	8:15	3.82	2652	0.14	0.47	0.52	346
	8:30	3.8	2637	0.14	0.47	0.52	347
	8:45	3.72	2582	0.14	0.47	0.52	345
	9:00	4.08	2833	0.15	0.47	0.52	346
	9:15	3.86	2677	0.15	0.47	0.52	345
	9:30	3.8	2635	0.15	0.47	0.52	346
	9:45	4.07	2822	0.15	0.46	0.52	345
	10:00	3.88	2694	0.16	0.47	0.52	346
	10:15	3.77	2615	0.15	0.46	0.52	346
	10:30	3.73	2591	0.16	0.46	0.52	346
	10:45	3.95	2738	0.16	0.46	0.52	346
	11:00	3.79	2631	0.16	0.46	0.52	346
	11:15	3.62	2512	0.16	0.46	0.51	344
	11:30	3.86	2679	0.15	0.46	0.52	346
	11:45	3.75	2602	0.15	0.46	0.52	347
	12:00	3.77	2617	0.15	0.46	0.52	346
	12:15	3.73	2590	0.15	0.46	0.52	347
	12:30	3.71	2573	0.15	0.46	0.52	347
	12:45	3.87	2687	0.15	0.46	0.52	346
	13:00	3.96	2748	0.15	0.46	0.52	346
	13:15	3.95	2740	0.15	0.46	0.52	348

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	13:30	4.01	2780	0.15	0.46	0.52	347
	13:45	3.87	2688	0.14	0.46	0.52	348
	14:00	3.92	2717	0.14	0.47	0.52	348
	14:15	3.95	2740	0.14	0.46	0.52	348
	14:30	3.95	2741	0.14	0.46	0.52	348
	14:45	3.95	2741	0.14	0.46	0.52	349
	15:00	3.81	2647	0.14	0.46	0.52	348
	15:15	4.12	2861	0.14	0.46	0.52	347
	15:30	3.91	2711	0.14	0.46	0.52	350
	15:45	3.81	2645	0.15	0.46	0.52	346
	16:00	3.77	2615	0.15	0.46	0.52	348
	16:15	3.87	2688	0.15	0.46	0.52	348
	16:30	3.8	2636	0.14	0.46	0.52	347
	16:45	3.98	2762	0.15	0.46	0.52	348
	17:00	4.09	2835	0.15	0.46	0.52	350
	17:15	3.91	2712	0.15	0.46	0.52	348
	17:30	3.71	2573	0.15	0.46	0.52	348
	17:45	3.91	2716	0.15	0.46	0.52	348
	18:00	3.88	2690	0.14	0.46	0.52	349
	18:15	3.93	2726	0.15	0.46	0.52	348
	18:30	3.78	2626	0.15	0.46	0.52	350
	18:45	3.83	2659	0.15	0.46	0.52	349
	19:00	3.86	2682	0.15	0.46	0.52	349
	19:15	3.72	2584	0.16	0.46	0.52	350
	19:30	3.91	2715	0.17	0.46	0.52	348
	19:45	3.78	2622	0.18	0.45	0.52	349
	20:00	3.8	2638	0.19	0.45	0.52	348
	20:15	3.9	2707	0.19	0.45	0.52	347
	20:30	3.77	2618	0.2	0.45	0.52	346
	20:45	3.73	2589	0.2	0.45	0.52	345
	21:00	3.78	2621	0.2	0.45	0.52	346
	21:15	3.75	2604	0.2	0.45	0.52	346
	21:30	3.84	2666	0.19	0.45	0.52	346
	21:45	3.75	2604	0.18	0.45	0.51	344
	22:00	3.78	2621	0.18	0.45	0.52	345

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	22:15	3.81	2647	0.17	0.45	0.52	346
	22:30	3.84	2666	0.17	0.45	0.52	346
	22:45	3.77	2619	0.16	0.45	0.52	346
	23:00	3.83	2660	0.16	0.45	0.52	346
	23:15	3.84	2662	0.16	0.45	0.52	347
	23:30	3.81	2643	0.16	0.45	0.52	345
	23:45	3.78	2625	0.15	0.45	0.52	348
2/3/2014	0:00	3.82	2650	0.15	0.45	0.52	346
	0:15	4.06	2818	0.15	0.44	0.52	346
	0:30	3.99	2766	0.15	0.44	0.52	348
	0:45	3.99	2770	0.15	0.44	0.52	348
	1:00	3.9	2707	0.15	0.44	0.52	348
	1:15	3.93	2730	0.15	0.44	0.52	346
	1:30	3.94	2732	0.15	0.44	0.52	348
	1:45	4.03	2799	0.15	0.44	0.52	348
	2:00	4	2777	0.15	0.44	0.52	347
	2:15	3.93	2727	0.15	0.44	0.52	348
	2:30	3.84	2666	0.15	0.44	0.52	351
	2:45	3.72	2582	0.15	0.44	0.52	350
	3:00	4.04	2804	0.15	0.44	0.52	349
	3:15	3.9	2707	0.15	0.44	0.52	349
	3:30	3.85	2668	0.15	0.44	0.52	350
	3:45	3.76	2609	0.15	0.44	0.52	350
	4:00	3.92	2720	0.15	0.44	0.52	350
	4:15	4.05	2812	0.15	0.44	0.52	350
	4:30	3.81	2643	0.15	0.44	0.52	348
	4:45	3.8	2638	0.15	0.44	0.52	348
	5:00	4	2776	0.15	0.44	0.52	348
	5:15	3.86	2677	0.15	0.44	0.52	351
	5:30	3.81	2643	0.15	0.44	0.52	351
	5:45	3.88	2689	0.15	0.44	0.52	350
	6:00	3.77	2614	0.15	0.44	0.52	350
	6:15	3.81	2641	0.15	0.44	0.52	351
	6:30	3.9	2703	0.15	0.44	0.52	350
	6:45	3.84	2666	0.15	0.44	0.52	350

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	7:00	3.73	2587	0.15	0.44	0.53	352
	7:15	3.89	2701	0.15	0.44	0.53	352
	7:30	3.61	2508	0.15	0.44	0.52	351
	7:45	4.05	2810	0.15	0.44	0.53	352
	8:00	3.81	2641	0.15	0.44	0.53	352
	8:15	3.79	2632	0.15	0.44	0.53	352
	8:30	3.86	2675	0.15	0.44	0.52	351
	8:45	3.85	2672	0.15	0.44	0.53	353
	9:00	3.79	2630	0.15	0.44	0.53	353
	9:15	3.74	2594	0.15	0.44	0.53	354
	9:30	3.74	2598	0.15	0.44	0.53	352
	9:45	3.72	2583	0.15	0.44	0.53	352
	10:00	3.82	2650	0.15	0.44	0.53	354
	10:15	3.8	2639	0.15	0.44	0.53	354
	10:30	3.81	2643	0.15	0.44	0.53	354
	10:45	3.91	2716	0.15	0.44	0.53	353
	11:00	3.8	2634	0.15	0.44	0.53	352
	11:15	3.91	2714	0.15	0.44	0.53	354
	11:30	3.88	2691	0.15	0.44	0.53	352
	11:45	3.93	2730	0.15	0.44	0.53	353
	12:00	3.96	2745	0.15	0.44	0.53	354
	12:15	3.89	2702	0.15	0.44	0.53	355
	12:30	3.84	2666	0.15	0.44	0.53	354
	12:45	3.92	2722	0.15	0.44	0.53	352
	13:00	3.92	2721	0.15	0.44	0.53	354
	13:15	3.97	2757	0.15	0.44	0.53	355
	13:30	3.96	2745	0.15	0.44	0.53	354
	13:45	3.9	2706	0.15	0.44	0.53	354
	14:00	3.91	2714	0.15	0.44	0.53	354
	14:15	4.1	2845	0.15	0.44	0.53	352
	14:30	3.9	2708	0.15	0.44	0.53	355
	14:45	3.84	2661	0.15	0.44	0.52	351
	15:00	3.94	2734	0.15	0.44	0.53	353
	15:15	3.91	2711	0.15	0.44	0.53	356
	15:30	3.88	2691	0.15	0.44	0.53	353

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	15:45	3.84	2662	0.15	0.44	0.53	352
	16:00	3.81	2643	0.15	0.44	0.53	353
	16:15	3.87	2689	0.15	0.44	0.52	351
	16:30	3.77	2618	0.15	0.44	0.52	351
	16:45	3.74	2597	0.15	0.44	0.52	351
	17:00	3.83	2660	0.15	0.44	0.53	352
	17:15	3.8	2634	0.15	0.44	0.53	354
	17:30	3.89	2698	0.15	0.44	0.52	350
	17:45	3.79	2631	0.15	0.44	0.53	352
	18:00	3.92	2719	0.15	0.44	0.52	350
	18:15	3.87	2683	0.15	0.44	0.53	354
	18:30	3.76	2606	0.15	0.44	0.53	354
	18:45	3.83	2657	0.15	0.44	0.53	353
	19:00	3.77	2618	0.15	0.44	0.53	356
	19:15	3.88	2691	0.15	0.44	0.53	352
	19:30	3.93	2724	0.15	0.44	0.53	356
	19:45	3.79	2632	0.15	0.44	0.52	350
	20:00	3.85	2671	0.15	0.44	0.53	352
	20:15	3.78	2620	0.15	0.44	0.53	355
	20:30	3.88	2689	0.15	0.44	0.52	348
	20:45	3.83	2655	0.15	0.44	0.53	353
	21:00	3.83	2661	0.15	0.44	0.53	354
	21:15	3.8	2634	0.15	0.44	0.53	354
	21:30	3.82	2652	0.15	0.44	0.53	356
	21:45	3.84	2663	0.15	0.43	0.53	354
	22:00	3.84	2661	0.15	0.44	0.52	350
	22:15	3.82	2653	0.15	0.44	0.53	355
	22:30	3.95	2739	0.15	0.44	0.52	351
	22:45	3.83	2661	0.15	0.44	0.53	352
	23:00	3.74	2598	0.15	0.44	0.53	355
	23:15	3.79	2628	0.15	0.44	0.52	351
	23:30	3.74	2596	0.15	0.44	0.53	353
	23:45	3.84	2665	0.15	0.44	0.52	351
2/4/2014	0:00	3.84	2666	0.15	0.44	0.53	352
	0:15	3.88	2695	0.15	0.44	0.52	350

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	0:30	3.78	2623	0.15	0.44	0.53	354
	0:45	3.77	2619	0.15	0.44	0.52	351
	1:00	3.83	2661	0.15	0.44	0.52	351
	1:15	3.95	2741	0.15	0.44	0.53	354
	1:30	3.77	2614	0.15	0.44	0.53	354
	1:45	3.85	2670	0.15	0.44	0.53	352
	2:00	3.85	2671	0.15	0.45	0.53	354
	2:15	3.87	2686	0.15	0.44	0.53	354
	2:30	3.84	2663	0.15	0.44	0.53	352
	2:45	3.88	2695	0.15	0.44	0.53	353
	3:00	3.82	2654	0.15	0.44	0.53	352
	3:15	3.82	2652	0.15	0.45	0.53	354
	3:30	3.69	2562	0.15	0.45	0.52	351
	3:45	3.81	2645	0.15	0.45	0.53	352
	4:00	3.86	2679	0.15	0.45	0.53	353
	4:15	3.85	2668	0.15	0.45	0.53	354
	4:30	3.79	2629	0.15	0.45	0.53	354
	4:45	3.85	2670	0.15	0.45	0.53	352
	5:00	3.9	2707	0.15	0.45	0.53	355
	5:15	3.82	2648	0.15	0.45	0.53	352
	5:30	3.82	2654	0.15	0.45	0.53	352
	5:45	3.77	2618	0.15	0.45	0.53	352
	6:00	3.9	2709	0.15	0.45	0.52	350
	6:15	3.8	2636	0.15	0.45	0.53	352
	6:30	3.81	2641	0.15	0.45	0.52	350
	6:45	3.01	2088	0.15	0.45	0.53	354
	7:00	2.94	2040	0.15	0.45	0.53	352
	7:15	0.13	89.5	0.15	0.45	0.53	355
	7:30	11.3	7812	0.15	0.45	0.53	356
	7:45	2.93	2034	0.15	0.45	0.53	356
	8:00	3.07	2132	0.15	0.45	0.53	353
	8:15	4.06	2817	0.16	0.45	0.53	357
	8:30	3.81	2645	0.19	0.46	0.53	356
	8:45	0.05	34	0.21	0.46	0.52	350
	9:00	0.04	29.8	0.22	0.46	0.53	354

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	9:15	11.3	7833	0.24	0.46	0.52	348
	9:30	2.79	1938	0.16	0.45	0.53	356
	9:45	2.81	1951	0.15	0.45	0.53	354
	10:00	4.16	2884	0.15	0.45	0.53	354
	10:15	3.68	2552	0.14	0.45	0.53	357
	10:30	3.82	2651	0.14	0.45	0.53	356
	10:45	3.8	2638	0.14	0.45	0.53	353
	11:00	3.74	2593	0.15	0.45	0.52	351
	11:15	3.83	2661	0.14	0.45	0.52	350
	11:30	3.8	2635	0.15	0.45	0.53	353
	11:45	3.76	2612	0.15	0.45	0.53	356
	12:00	3.77	2618	0.15	0.46	0.53	354
	12:15	3.81	2641	0.15	0.45	0.53	356
	12:30	3.84	2664	0.15	0.46	0.53	354
	12:45	3.77	2618	0.15	0.46	0.52	350
	13:00	3.85	2670	0.15	0.46	0.53	354
	13:15	3.8	2640	0.15	0.46	0.52	350
	13:30	0.05	32.6	0.15	0.46	0.52	350
	13:45	0.04	25	0.15	0.46	0.53	354
	14:00	-0	-7.6	0.15	0.46	0.52	350
	14:15	-0	-2.8	0.15	0.46	0.53	357
	14:30	0.03	22.9	0.15	0.46	0.53	352
	14:45	5.27	3657	0.15	0.46	0.53	354
	15:00	4.97	3451	0.15	0.46	0.53	353
	15:15	3.92	2720	0.15	0.46	0.53	354
	15:30	3.95	2743	0.15	0.46	0.52	350
	15:45	3.9	2708	0.15	0.46	0.52	348
	16:00	3.94	2736	0.15	0.46	0.53	356
	16:15	3.98	2759	0.15	0.46	0.53	352
	16:30	3.97	2752	0.15	0.46	0.53	355
	16:45	3.93	2726	0.15	0.46	0.53	355
	17:00	3.9	2709	0.15	0.46	0.53	352
	17:15	4.04	2806	0.16	0.46	0.52	349
	17:30	4.01	2782	0.16	0.46	0.53	354
	17:45	4.04	2804	0.16	0.46	0.53	354

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	18:00	4.11	2852	0.16	0.46	0.53	354
	18:15	3.99	2767	0.16	0.46	0.53	353
	18:30	3.99	2768	0.16	0.46	0.53	354
	18:45	4.05	2809	0.16	0.46	0.53	352
	19:00	4.1	2848	0.16	0.46	0.53	354
	19:15	4.09	2839	0.16	0.46	0.53	352
	19:30	4.08	2830	0.16	0.46	0.53	352
	19:45	4.06	2815	0.16	0.46	0.53	354
	20:00	4.03	2800	0.16	0.46	0.53	355
	20:15	3.97	2755	0.16	0.46	0.52	350
	20:30	4.01	2779	0.16	0.46	0.52	351
	20:45	4.02	2791	0.16	0.46	0.52	350
	21:00	3.89	2701	0.16	0.46	0.52	351
	21:15	4.09	2837	0.16	0.46	0.53	356
	21:30	4	2773	0.16	0.46	0.53	355
	21:45	4.11	2850	0.17	0.46	0.53	357
	22:00	4.04	2807	0.17	0.46	0.53	353
	22:15	3.89	2699	0.17	0.46	0.53	352
	22:30	4	2775	0.17	0.46	0.53	355
	22:45	4.01	2784	0.17	0.46	0.53	353
	23:00	3.9	2705	0.17	0.46	0.53	354
	23:15	3.92	2723	0.17	0.46	0.53	356
	23:30	3.99	2767	0.17	0.46	0.53	354
	23:45	3.91	2713	0.17	0.46	0.53	354
2/5/2014	0:00	4	2775	0.17	0.46	0.53	356
	0:15	3.93	2726	0.17	0.47	0.53	354
	0:30	4.17	2897	0.17	0.46	0.53	354
	0:45	4	2777	0.16	0.46	0.53	354
	1:00	3.98	2763	0.17	0.46	0.53	354
	1:15	3.92	2719	0.16	0.46	0.53	355
	1:30	3.93	2729	0.17	0.47	0.53	354
	1:45	3.77	2613	0.17	0.46	0.53	355
	2:00	3.86	2681	0.17	0.47	0.53	356
	2:15	3.77	2615	0.17	0.46	0.53	356
	2:30	3.85	2672	0.16	0.47	0.53	356

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	2:45	3.85	2669	0.17	0.47	0.53	355
	3:00	3.83	2660	0.17	0.47	0.53	354
	3:15	3.76	2612	0.17	0.47	0.53	354
	3:30	3.79	2629	0.17	0.47	0.53	354
	3:45	3.76	2612	0.16	0.47	0.53	355
	4:00	3.76	2611	0.17	0.47	0.53	356
	4:15	3.83	2661	0.16	0.47	0.53	354
	4:30	3.73	2589	0.17	0.47	0.53	357
	4:45	3.77	2617	0.17	0.47	0.53	354
	5:00	3.67	2545	0.16	0.47	0.53	357
	5:15	3.68	2553	0.16	0.47	0.53	357
	5:30	3.62	2510	0.16	0.47	0.53	358
	5:45	3.69	2557	0.16	0.47	0.53	356
	6:00	3.58	2481	0.16	0.47	0.53	356
	6:15	3.68	2555	0.17	0.46	0.53	355
	6:30	3.63	2516	0.16	0.46	0.53	356
	6:45	3.64	2528	0.16	0.47	0.53	356
	7:00	3.52	2444	0.16	0.47	0.53	357
	7:15	3.71	2574	0.16	0.47	0.53	357
	7:30	3.63	2522	0.16	0.46	0.53	356
	7:45	3.59	2493	0.16	0.46	0.53	357
	8:00	3.58	2485	0.16	0.46	0.53	356
	8:15	3.59	2493	0.17	0.46	0.53	357
	8:30	2.81	1947	0.17	0.46	0.54	360
	8:45	2.7	1877	0.17	0.46	0.54	358
	9:00	2.81	1951	0.17	0.46	0.53	357
	9:15	3.79	2628	0.16	0.46	0.54	360
	9:30	3.84	2663	0.16	0.46	0.54	360
	9:45	3.85	2672	0.17	0.46	0.54	359
	10:00	5.88	4079	0.17	0.47	0.54	360
	10:15	2.92	2025	0.17	0.46	0.54	359
	10:30	4.07	2823	0.17	0.46	0.54	360
	10:45	0.17	117	0.16	0.46	0.54	359
	11:00	4.24	2940	0.16	0.46	0.54	358
	11:15	-0	-15	0.16	0.46	0.54	360

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	11:30	3.57	2477	0.18	0.46	0.54	360
	11:45	5.03	3488	0.19	0.46	0.54	360
	12:00	4.75	3299	0.19	0.46	0.54	360
	12:15	3.88	2689	0.17	0.46	0.54	359
	12:30	3.77	2619	0.17	0.46	0.54	360
	12:45	3.7	2566	0.16	0.46	0.54	358
	13:00	3.81	2641	0.16	0.46	0.54	359
	13:15	3.85	2668	0.16	0.46	0.54	359
	13:30	3.81	2644	0.16	0.46	0.54	358
	13:45	3.83	2659	0.16	0.46	0.54	358
	14:00	3.84	2666	0.16	0.46	0.54	360
	14:15	3.78	2620	0.16	0.46	0.54	360
	14:30	3.81	2646	0.16	0.46	0.53	357
	14:45	3.84	2661	0.16	0.46	0.54	360
	15:00	3.85	2674	0.15	0.44	0.52	351
	15:15	3.8	2637	0.16	0.46	0.54	358
	15:30	3.85	2674	0.16	0.46	0.54	358
	15:45	3.89	2698	0.16	0.46	0.54	359
	16:00	3.82	2648	0.16	0.46	0.54	358
	16:15	3.91	2716	0.16	0.46	0.54	359
	16:30	3.84	2666	0.16	0.46	0.53	357
	16:45	3.79	2629	0.16	0.46	0.53	358
	17:00	3.8	2635	0.16	0.46	0.53	358
	17:15	3.92	2720	0.16	0.46	0.54	358
	17:30	3.99	2770	0.16	0.46	0.54	358
	17:45	3.81	2643	0.16	0.46	0.54	359
	18:00	4.06	2815	0.16	0.46	0.54	360
	18:15	3.8	2634	0.16	0.46	0.54	361
	18:30	3.62	2511	0.16	0.46	0.54	361
	18:45	3.68	2553	0.16	0.45	0.54	358
	19:00	3.72	2583	0.17	0.46	0.54	361
	19:15	4.46	3095	0.17	0.45	0.54	361
	19:30	3.68	2556	0.18	0.46	0.54	360
	19:45	3.92	2718	0.18	0.45	0.54	361
	20:00	3.88	2692	0.18	0.45	0.54	360

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	20:15	3.83	2659	0.17	0.45	0.54	360
	20:30	3.82	2654	0.17	0.45	0.54	361
	20:45	3.76	2609	0.17	0.45	0.54	362
	21:00	3.79	2629	0.17	0.45	0.54	362
	21:15	3.76	2612	0.17	0.45	0.54	360
	21:30	3.79	2631	0.17	0.45	0.54	363
	21:45	3.74	2593	0.17	0.45	0.54	360
	22:00	3.91	2716	0.17	0.45	0.54	363
	22:15	3.82	2649	0.17	0.44	0.54	362
	22:30	3.76	2607	0.17	0.44	0.54	362
	22:45	3.83	2655	0.17	0.44	0.54	361
	23:00	3.77	2616	0.17	0.44	0.54	362
	23:15	3.78	2625	0.17	0.44	0.54	364
	23:30	3.79	2629	0.17	0.44	0.55	365
	23:45	3.8	2634	0.17	0.44	0.54	364
2/6/2014	0:00	3.81	2643	0.17	0.44	0.54	363
	0:15	3.72	2580	0.17	0.44	0.54	364
	0:30	3.79	2632	0.17	0.44	0.54	364
	0:45	3.89	2696	0.17	0.44	0.55	365
	1:00	3.7	2566	0.17	0.44	0.54	364
	1:15	3.79	2629	0.17	0.44	0.54	363
	1:30	3.8	2637	0.17	0.44	0.54	363
	1:45	3.72	2579	0.17	0.44	0.54	364
	2:00	3.73	2586	0.17	0.44	0.54	362
	2:15	3.78	2625	0.17	0.44	0.55	366
	2:30	3.77	2615	0.17	0.44	0.55	366
	2:45	3.83	2657	0.17	0.44	0.55	366
	3:00	3.73	2588	0.17	0.44	0.54	364
	3:15	3.78	2623	0.17	0.44	0.55	367
	3:30	3.77	2617	0.17	0.44	0.55	365
	3:45	3.76	2611	0.17	0.44	0.55	367
	4:00	3.9	2707	0.17	0.44	0.55	368
	4:15	3.77	2614	0.17	0.44	0.55	367
	4:30	3.9	2705	0.17	0.44	0.55	369
	4:45	3.86	2682	0.17	0.44	0.55	367

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	5:00	3.79	2632	0.17	0.44	0.55	369
	5:15	3.75	2603	0.17	0.44	0.55	369
	5:30	3.82	2648	0.17	0.44	0.55	366
	5:45	3.8	2637	0.17	0.44	0.55	366
	6:00	3.84	2661	0.17	0.44	0.55	367
	6:15	3.8	2634	0.17	0.44	0.55	366
	6:30	3.82	2651	0.17	0.44	0.55	367
	6:45	3.78	2626	0.17	0.44	0.55	366
	7:00	3.78	2625	0.17	0.44	0.55	366
	7:15	3.77	2618	0.17	0.44	0.55	367
	7:30	3.83	2655	0.17	0.43	0.55	366
	7:45	3.8	2640	0.17	0.44	0.55	367
	8:00	3.77	2618	0.17	0.44	0.55	366
	8:15	3.82	2651	0.17	0.44	0.55	366
	8:30	3.77	2619	0.17	0.44	0.55	367
	8:45	3.74	2595	0.17	0.44	0.55	366
	9:00	3.76	2608	0.17	0.43	0.55	366
	9:15	3.78	2621	0.17	0.44	0.55	367
	9:30	3.79	2632	0.17	0.43	0.55	366
	9:45	3.8	2634	0.17	0.44	0.55	368
	10:00	3.9	2709	0.17	0.43	0.55	369
	10:15	3.77	2619	0.17	0.43	0.55	368
	10:30	3.81	2645	0.17	0.43	0.55	369
	10:45	3.79	2627	0.17	0.43	0.55	369
	11:00	3.72	2584	0.17	0.43	0.55	369
	11:15	3.81	2641	0.17	0.43	0.55	368
	11:30	3.7	2565	0.17	0.43	0.55	366
	11:45	4.01	2786	0.17	0.43	0.55	367
	12:00	3.76	2606	0.17	0.43	0.55	367
	12:15	3.81	2643	0.17	0.43	0.55	369
	12:30	3.87	2687	0.17	0.43	0.55	367
	12:45	3.81	2641	0.17	0.43	0.55	370
	13:00	3.78	2625	0.17	0.43	0.55	369
	13:15	3.98	2762	0.17	0.43	0.55	369
	13:30	3.78	2626	0.17	0.43	0.55	370

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	13:45	3.92	2723	0.17	0.43	0.55	371
	14:00	3.87	2683	0.17	0.43	0.55	369
	14:15	3.79	2631	0.17	0.43	0.55	368
	14:30	4.02	2791	0.17	0.43	0.55	369
	14:45	3.66	2537	0.17	0.43	0.55	371
	15:00	3.82	2648	0.17	0.43	0.56	372
	15:15	3.9	2705	0.17	0.43	0.55	371
	15:30	3.78	2623	0.17	0.43	0.56	372
	15:45	3.92	2721	0.17	0.43	0.55	370
	16:00	3.81	2643	0.17	0.43	0.55	368
	16:15	3.78	2624	0.17	0.43	0.55	369
	16:30	3.87	2686	0.17	0.43	0.55	369
	16:45	3.83	2657	0.17	0.43	0.55	371
	17:00	3.85	2675	0.17	0.43	0.55	371
	17:15	3.85	2670	0.17	0.43	0.55	368
	17:30	3.81	2641	0.17	0.43	0.55	369
	17:45	3.76	2611	0.17	0.43	0.55	369
	18:00	3.81	2641	0.17	0.43	0.55	369
	18:15	3.84	2666	0.17	0.43	0.55	368
	18:30	3.87	2682	0.17	0.43	0.55	369
	18:45	3.79	2632	0.17	0.43	0.55	369
	19:00	3.91	2714	0.17	0.43	0.55	370
	19:15	3.85	2673	0.17	0.44	0.55	369
	19:30	3.88	2690	0.17	0.44	0.55	369
	19:45	3.79	2629	0.17	0.44	0.55	369
	20:00	3.8	2637	0.17	0.45	0.55	371
	20:15	3.81	2646	0.17	0.46	0.55	370
	20:30	3.83	2655	0.17	0.47	0.56	372
	20:45	3.95	2740	0.17	0.48	0.55	371
	21:00	3.79	2632	0.17	0.49	0.56	372
	21:15	3.91	2715	0.17	0.5	0.56	373
	21:30	3.82	2652	0.17	0.51	0.56	373
	21:45	3.79	2630	0.17	0.52	0.56	374
	22:00	3.8	2637	0.17	0.53	0.56	373
	22:15	3.8	2637	0.17	0.53	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	22:30	3.8	2637	0.17	0.53	0.56	373
	22:45	3.8	2637	0.17	0.53	0.56	373
	23:00	3.8	2637	0.17	0.53	0.56	373
	23:15	3.8	2637	0.17	0.53	0.56	373
	23:30	3.8	2637	0.17	0.53	0.56	373
	23:45	3.8	2637	0.17	0.53	0.56	373
2/7/2014	0:00	3.8	2637	0.17	0.53	0.56	373
	0:15	3.8	2637	0.17	0.53	0.56	373
	0:30	3.8	2637	0.17	0.53	0.56	373
	0:45	3.8	2637	0.17	0.53	0.56	373
	1:00	3.8	2637	0.17	0.53	0.56	373
	1:15	3.8	2637	0.17	0.53	0.56	373
	1:30	3.8	2637	0.17	0.53	0.56	373
	1:45	3.8	2637	0.17	0.53	0.56	373
	2:00	3.8	2637	0.17	0.53	0.56	373
	2:15	3.8	2637	0.17	0.53	0.56	373
	2:30	3.8	2637	0.17	0.53	0.56	373
	2:45	3.8	2637	0.17	0.53	0.56	373
	3:00	3.8	2637	0.17	0.53	0.56	373
	3:15	3.8	2637	0.17	0.53	0.56	373
	3:30	3.8	2637	0.18	0.53	0.56	373
	3:45	3.8	2637	0.18	0.53	0.56	373
	4:00	3.8	2637	0.19	0.53	0.56	373
	4:15	3.8	2637	0.18	0.53	0.56	373
	4:30	3.8	2637	0.18	0.53	0.56	373
	4:45	3.8	2637	0.17	0.53	0.56	373
	5:00	3.8	2637	0.17	0.53	0.56	373
	5:15	3.8	2637	0.17	0.53	0.56	373
	5:30	3.8	2637	0.17	0.53	0.56	373
	5:45	3.8	2637	0.17	0.53	0.56	373
	6:00	3.8	2637	0.17	0.53	0.56	373
	6:15	3.8	2637	0.17	0.53	0.56	373
	6:30	3.8	2637	0.17	0.53	0.56	373
	6:45	3.8	2637	0.17	0.53	0.56	373
	7:00	3.8	2637	0.17	0.53	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	7:15	3.8	2637	0.17	0.53	0.56	373
	7:30	3.8	2637	0.17	0.53	0.56	373
	7:45	3.8	2637	0.17	0.53	0.56	373
	8:00	3.8	2637	0.17	0.53	0.56	373
	8:15	3.8	2637	0.17	0.53	0.56	373
	8:30	3.8	2637	0.17	0.53	0.56	373
	8:45	3.8	2637	0.17	0.53	0.56	373
	9:00	3.8	2637	0.17	0.53	0.56	373
	9:15	3.8	2637	0.17	0.53	0.56	373
	9:30	3.8	2637	0.17	0.53	0.56	373
	9:45	3.8	2637	0.17	0.53	0.56	373
	10:00	3.8	2637	0.17	0.53	0.56	373
	10:15	3.8	2637	0.17	0.53	0.56	373
	10:30	3.8	2637	0.16	0.53	0.56	373
	10:45	3.8	2637	0.16	0.53	0.56	373
	11:00	3.8	2637	0.17	0.53	0.56	373
	11:15	3.8	2637	0.16	0.53	0.56	373
	11:30	3.8	2637	0.16	0.53	0.56	373
	11:45	3.8	2637	0.16	0.53	0.56	373
	12:00	3.8	2637	0.16	0.53	0.56	373
	12:15	3.8	2637	0.16	0.53	0.56	373
	12:30	3.8	2637	0.17	0.53	0.56	373
	12:45	3.8	2637	0.16	0.53	0.56	373
	13:00	3.8	2637	0.16	0.53	0.56	373
	13:15	3.8	2637	0.16	0.53	0.56	373
	13:30	3.8	2637	0.16	0.53	0.56	373
	13:45	3.8	2637	0.16	0.53	0.56	373
	14:00	3.8	2637	0.17	0.53	0.56	373
	14:15	3.8	2637	0.17	0.53	0.56	373
	14:30	3.8	2637	0.17	0.53	0.56	373
	14:45	3.8	2637	0.17	0.53	0.56	373
	15:00	3.8	2637	0.17	0.53	0.56	373
	15:15	3.8	2637	0.17	0.53	0.56	373
	15:30	3.8	2637	0.17	0.53	0.56	373
	15:45	3.8	2637	0.18	0.53	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	16:00	3.8	2637	0.19	0.53	0.56	373
	16:15	3.8	2637	0.19	0.53	0.56	373
	16:30	3.8	2637	0.18	0.53	0.56	373
	16:45	3.8	2637	0.18	0.53	0.56	373
	17:00	3.8	2637	0.17	0.53	0.56	373
	17:15	3.8	2637	0.17	0.53	0.56	373
	17:30	3.8	2637	0.17	0.53	0.56	373
	17:45	3.8	2637	0.17	0.53	0.56	373
	18:00	3.8	2637	0.17	0.53	0.56	373
	18:15	3.8	2637	0.18	0.53	0.56	373
	18:30	3.8	2637	0.18	0.53	0.56	373
	18:45	3.8	2637	0.18	0.53	0.56	373
	19:00	3.8	2637	0.17	0.53	0.56	373
	19:15	3.8	2637	0.17	0.53	0.56	373
	19:30	3.8	2637	0.17	0.53	0.56	373
	19:45	3.8	2637	0.17	0.53	0.56	373
	20:00	3.8	2637	0.17	0.53	0.56	373
	20:15	3.8	2637	0.17	0.53	0.56	373
	20:30	3.8	2637	0.17	0.53	0.56	373
	20:45	3.8	2637	0.17	0.53	0.56	373
	21:00	3.8	2637	0.17	0.53	0.56	373
	21:15	3.8	2637	0.17	0.53	0.56	373
	21:30	3.8	2637	0.18	0.53	0.56	373
	21:45	3.8	2637	0.18	0.53	0.56	373
	22:00	3.8	2637	0.18	0.53	0.56	373
	22:15	3.8	2637	0.19	0.53	0.56	373
	22:30	3.8	2637	0.19	0.53	0.56	373
	22:45	3.8	2637	0.19	0.53	0.56	373
	23:00	3.8	2637	0.19	0.53	0.56	373
	23:15	3.8	2637	0.19	0.53	0.56	373
	23:30	3.8	2637	0.19	0.53	0.56	373
	23:45	3.8	2637	0.19	0.53	0.56	373
2/8/2014	0:00	3.8	2637	0.19	0.53	0.56	373
	0:15	3.8	2637	0.19	0.53	0.56	373
	0:30	3.8	2637	0.19	0.53	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	0:45	3.8	2637	0.18	0.53	0.56	373
	1:00	3.8	2637	0.19	0.53	0.56	373
	1:15	3.8	2637	0.19	0.53	0.56	373
	1:30	3.8	2637	0.19	0.53	0.56	373
	1:45	3.8	2637	0.18	0.53	0.56	373
	2:00	3.8	2637	0.19	0.53	0.56	373
	2:15	3.8	2637	0.19	0.53	0.56	373
	2:30	3.8	2637	0.19	0.53	0.56	373
	2:45	3.8	2637	0.19	0.53	0.56	373
	3:00	3.8	2637	0.19	0.53	0.56	373
	3:15	3.8	2637	0.19	0.53	0.56	373
	3:30	3.8	2637	0.19	0.53	0.56	373
	3:45	3.8	2637	0.19	0.53	0.56	373
	4:00	3.8	2637	0.19	0.53	0.56	373
	4:15	3.8	2637	0.19	0.53	0.56	373
	4:30	3.8	2637	0.19	0.53	0.56	373
	4:45	3.8	2637	0.19	0.53	0.56	373
	5:00	3.8	2637	0.19	0.53	0.56	373
	5:15	3.8	2637	0.19	0.53	0.56	373
	5:30	3.8	2637	0.19	0.53	0.56	373
	5:45	3.8	2637	0.19	0.53	0.56	373
	6:00	3.8	2637	0.19	0.53	0.56	373
	6:15	3.8	2637	0.19	0.53	0.56	373
	6:30	3.8	2637	0.19	0.53	0.56	373
	6:45	3.8	2637	0.19	0.53	0.56	373
	7:00	3.8	2637	0.19	0.53	0.56	373
	7:15	3.8	2637	0.19	0.53	0.56	373
	7:30	3.8	2637	0.19	0.53	0.56	373
	7:45	3.8	2637	0.19	0.53	0.56	373
	8:00	3.8	2637	0.19	0.53	0.56	373
	8:15	3.8	2637	0.19	0.53	0.56	373
	8:30	3.8	2637	0.19	0.53	0.56	373
	8:45	3.8	2637	0.19	0.53	0.56	373
	9:00	3.8	2637	0.19	0.53	0.56	373
	9:15	3.8	2637	0.19	0.53	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	9:30	3.8	2637	0.19	0.53	0.56	373
	9:45	3.8	2637	0.19	0.53	0.56	373
	10:00	3.8	2637	0.19	0.53	0.56	373
	10:15	3.8	2637	0.19	0.53	0.56	373
	10:30	3.8	2637	0.19	0.53	0.56	373
	10:45	3.8	2637	0.19	0.53	0.56	373
	11:00	3.8	2637	0.19	0.53	0.56	373
	11:15	3.8	2637	0.19	0.53	0.56	373
	11:30	3.8	2637	0.19	0.53	0.56	373
	11:45	3.8	2637	0.19	0.53	0.56	373
	12:00	3.8	2637	0.19	0.53	0.56	373
	12:15	3.8	2637	0.19	0.53	0.56	373
	12:30	3.8	2637	0.19	0.53	0.56	373
	12:45	3.8	2637	0.19	0.53	0.56	373
	13:00	3.8	2637	0.19	0.53	0.56	373
	13:15	3.8	2637	0.2	0.53	0.56	373
	13:30	3.8	2637	0.21	0.53	0.56	373
	13:45	3.8	2637	0.2	0.53	0.56	373
	14:00	3.8	2637	0.19	0.53	0.56	373
	14:15	3.8	2637	0.19	0.53	0.56	373
	14:30	3.8	2637	0.19	0.53	0.56	373
	14:45	3.8	2637	0.2	0.53	0.56	373
	15:00	3.8	2637	0.2	0.53	0.56	373
	15:15	3.8	2637	0.2	0.53	0.56	373
	15:30	3.8	2637	0.2	0.53	0.56	373
	15:45	3.8	2637	0.2	0.53	0.56	373
	16:00	3.8	2637	0.2	0.53	0.56	373
	16:15	3.8	2637	0.19	0.53	0.56	373
	16:30	3.8	2637	0.2	0.53	0.56	373
	16:45	3.8	2637	0.2	0.53	0.56	373
	17:00	3.8	2637	0.19	0.53	0.56	373
	17:15	3.8	2637	0.2	0.53	0.56	373
	17:30	3.8	2637	0.2	0.53	0.56	373
	17:45	3.8	2637	0.2	0.53	0.56	373
	18:00	3.8	2637	0.2	0.53	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	18:15	3.8	2637	0.19	0.53	0.56	373
	18:30	3.8	2637	0.19	0.53	0.56	373
	18:45	3.8	2637	0.19	0.53	0.56	373
	19:00	3.8	2637	0.19	0.53	0.56	373
	19:15	3.8	2637	0.19	0.53	0.56	373
	19:30	3.8	2637	0.19	0.53	0.56	373
	19:45	3.8	2637	0.2	0.53	0.56	373
	20:00	3.8	2637	0.2	0.53	0.56	373
	20:15	3.8	2637	0.19	0.53	0.56	373
	20:30	3.8	2637	0.19	0.53	0.56	373
	20:45	3.8	2637	0.2	0.53	0.56	373
	21:00	3.8	2637	0.19	0.53	0.56	373
	21:15	3.8	2637	0.2	0.53	0.56	373
	21:30	3.8	2637	0.19	0.53	0.56	373
	21:45	3.8	2637	0.19	0.53	0.56	373
	22:00	3.8	2637	0.19	0.53	0.56	373
	22:15	3.8	2637	0.2	0.53	0.56	373
	22:30	3.8	2637	0.19	0.53	0.56	373
	22:45	3.8	2637	0.19	0.53	0.56	373
	23:00	3.8	2637	0.19	0.53	0.56	373
	23:15	3.8	2637	0.19	0.53	0.56	373
	23:30	3.8	2637	0.19	0.53	0.56	373
	23:45	3.8	2637	0.19	0.53	0.56	373
2/9/2014	0:00	3.8	2637	0.19	0.53	0.56	373
	0:15	3.8	2637	0.19	0.53	0.56	373
	0:30	3.8	2637	0.19	0.53	0.56	373
	0:45	3.8	2637	0.19	0.53	0.56	373
	1:00	3.8	2637	0.19	0.53	0.56	373
	1:15	3.8	2637	0.19	0.53	0.56	373
	1:30	3.8	2637	0.19	0.53	0.56	373
	1:45	3.8	2637	0.2	0.53	0.56	373
	2:00	3.8	2637	0.19	0.53	0.56	373
	2:15	3.8	2637	0.2	0.53	0.56	373
	2:30	3.8	2637	0.19	0.53	0.56	373
	2:45	3.8	2637	0.19	0.53	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	3:00	3.8	2637	0.19	0.53	0.56	373
	3:15	3.8	2637	0.19	0.53	0.56	373
	3:30	3.8	2637	0.19	0.53	0.56	373
	3:45	3.8	2637	0.18	0.53	0.56	373
	4:00	3.8	2637	0.18	0.53	0.56	373
	4:15	3.8	2637	0.18	0.53	0.56	373
	4:30	3.8	2637	0.18	0.53	0.56	373
	4:45	3.8	2637	0.19	0.53	0.56	373
	5:00	3.8	2637	0.19	0.53	0.56	373
	5:15	3.8	2637	0.18	0.53	0.56	373
	5:30	3.8	2637	0.19	0.53	0.56	373
	5:45	3.8	2637	0.19	0.53	0.56	373
	6:00	3.8	2637	0.19	0.53	0.56	373
	6:15	3.8	2637	0.19	0.53	0.56	373
	6:30	3.8	2637	0.2	0.53	0.56	373
	6:45	3.8	2637	0.19	0.53	0.56	373
	7:00	3.8	2637	0.19	0.53	0.56	373
	7:15	3.8	2637	0.19	0.53	0.56	373
	7:30	3.8	2637	0.19	0.53	0.56	373
	7:45	3.8	2637	0.19	0.53	0.56	373
	8:00	3.8	2637	0.18	0.53	0.56	373
	8:15	3.8	2637	0.19	0.53	0.56	373
	8:30	3.8	2637	0.18	0.53	0.56	373
	8:45	3.8	2637	0.19	0.53	0.56	373
	9:00	3.8	2637	0.19	0.53	0.56	373
	9:15	3.8	2637	0.19	0.53	0.56	373
	9:30	3.8	2637	0.19	0.53	0.56	373
	9:45	3.8	2637	0.19	0.53	0.56	373
	10:00	3.8	2637	0.19	0.53	0.56	373
	10:15	3.8	2637	0.19	0.53	0.56	373
	10:30	3.8	2637	0.19	0.53	0.56	373
	10:45	3.8	2637	0.19	0.53	0.56	373
	11:00	3.8	2637	0.19	0.53	0.56	373
	11:15	3.8	2637	0.19	0.53	0.56	373
	11:30	3.8	2637	0.19	0.53	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	11:45	3.8	2637	0.19	0.53	0.56	373
	12:00	3.8	2637	0.19	0.53	0.56	373
	12:15	3.8	2637	0.19	0.53	0.56	373
	12:30	3.8	2637	0.19	0.53	0.56	373
	12:45	3.8	2637	0.19	0.53	0.56	373
	13:00	3.8	2637	0.19	0.53	0.56	373
	13:15	3.8	2637	0.17	0.53	0.56	373
	13:30	3.8	2637	0.15	0.53	0.56	373
	13:45	3.8	2637	0.15	0.53	0.56	373
	14:00	3.8	2637	0.14	0.53	0.56	373
	14:15	3.8	2637	0.14	0.53	0.56	373
	14:30	3.8	2637	0.15	0.53	0.56	373
	14:45	3.8	2637	0.15	0.53	0.56	373
	15:00	3.8	2637	0.16	0.53	0.56	373
	15:15	3.8	2637	0.17	0.53	0.56	373
	15:30	3.8	2637	0.18	0.53	0.56	373
	15:45	3.8	2637	0.18	0.53	0.56	373
	16:00	3.8	2637	0.18	0.53	0.56	373
	16:15	3.8	2637	0.17	0.53	0.56	373
	16:30	4.2	2916	0.17	0.46	0.58	390
	16:45	4.15	2883	0.16	0.46	0.59	392
	17:00	4.04	2802	0.16	0.46	0.59	393
	17:15	4.14	2870	0.16	0.46	0.59	393
	17:30	4.19	2906	0.17	0.46	0.59	393
	17:45	4.07	2827	0.17	0.46	0.58	391
	18:00	4.1	2843	0.17	0.46	0.58	389
	18:15	4.15	2882	0.17	0.46	0.58	390
	18:30	4.07	2827	0.18	0.46	0.58	389
	18:45	4.08	2828	0.18	0.46	0.59	394
	19:00	4.08	2829	0.18	0.46	0.59	393
	19:15	4.06	2816	0.18	0.46	0.59	393
	19:30	4.02	2788	0.18	0.46	0.59	394
	19:45	4.04	2803	0.18	0.46	0.59	394
	20:00	3.98	2764	0.18	0.46	0.58	391
	20:15	4.03	2798	0.18	0.46	0.59	393

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	20:30	4.09	2836	0.19	0.46	0.59	393
	20:45	3.94	2737	0.19	0.46	0.58	390
	21:00	4.07	2825	0.19	0.46	0.59	395
	21:15	4.03	2798	0.19	0.46	0.59	393
	21:30	4.08	2834	0.19	0.46	0.58	390
	21:45	4.07	2826	0.19	0.46	0.59	393
	22:00	4.09	2841	0.19	0.46	0.58	391
	22:15	4.03	2798	0.19	0.46	0.58	391
	22:30	4.09	2837	0.19	0.46	0.58	390
	22:45	4	2777	0.19	0.46	0.58	390
	23:00	4.04	2805	0.19	0.46	0.59	393
	23:15	4.06	2815	0.19	0.46	0.58	390
	23:30	4.04	2806	0.19	0.46	0.59	392
	23:45	4.09	2836	0.19	0.46	0.58	390
2/10/2014	0:00	4.15	2880	0.19	0.46	0.58	391
	0:15	4.05	2811	0.19	0.46	0.58	390
	0:30	4.12	2859	0.19	0.46	0.58	389
	0:45	4.07	2825	0.19	0.46	0.59	392
	1:00	4.1	2843	0.19	0.47	0.58	389
	1:15	4.12	2859	0.19	0.46	0.59	393
	1:30	4.1	2843	0.19	0.46	0.59	394
	1:45	4.07	2821	0.19	0.46	0.59	392
	2:00	4.11	2852	0.19	0.46	0.59	393
	2:15	4.82	3347	0.2	0.46	0.59	393
	2:30	3.89	2698	0.2	0.46	0.59	393
	2:45	4.14	2871	0.2	0.46	0.59	393
	3:00	4.06	2817	0.2	0.46	0.59	393
	3:15	4.14	2873	0.2	0.46	0.58	391
	3:30	3.96	2750	0.2	0.47	0.59	394
	3:45	4.17	2895	0.2	0.46	0.59	393
	4:00	4.04	2805	0.2	0.46	0.59	393
	4:15	4.17	2893	0.2	0.47	0.59	392
	4:30	4.14	2874	0.2	0.47	0.59	394
	4:45	4.13	2869	0.2	0.47	0.59	393
	5:00	4.02	2792	0.2	0.47	0.59	393

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	5:15	4.17	2895	0.2	0.47	0.59	394
	5:30	4.04	2804	0.2	0.47	0.59	393
	5:45	4.15	2878	0.2	0.46	0.59	395
	6:00	4.03	2799	0.2	0.47	0.59	393
	6:15	4.11	2853	0.2	0.47	0.59	395
	6:30	4.07	2827	0.2	0.47	0.59	395
	6:45	4.12	2861	0.2	0.46	0.59	394
	7:00	4.03	2798	0.2	0.46	0.59	394
	7:15	4.03	2799	0.19	0.47	0.59	394
	7:30	4.05	2808	0.19	0.46	0.59	392
	7:45	4	2775	0.19	0.46	0.59	393
	8:00	4.07	2827	0.19	0.46	0.59	392
	8:15	4.03	2798	0.19	0.46	0.59	393
	8:30	4.02	2787	0.19	0.46	0.59	393
	8:45	4.02	2791	0.19	0.46	0.59	393
	9:00	4.01	2780	0.19	0.46	0.59	393
	9:15	3.97	2756	0.19	0.46	0.59	394
	9:30	4.01	2786	0.19	0.46	0.59	393
	9:45	4.02	2789	0.19	0.46	0.58	391
	10:00	3.95	2739	0.19	0.46	0.59	393
	10:15	4.03	2796	0.19	0.46	0.59	395
	10:30	4.01	2779	0.19	0.47	0.59	395
	10:45	4.02	2786	0.19	0.46	0.59	395
	11:00	3.99	2768	0.19	0.46	0.59	393
	11:15	3.93	2725	0.19	0.46	0.59	393
	11:30	4	2778	0.19	0.46	0.59	393
	11:45	3.95	2739	0.19	0.46	0.59	393
	12:00	3.99	2771	0.19	0.46	0.59	394
	12:15	4.06	2819	0.19	0.46	0.59	393
	12:30	3.97	2755	0.19	0.46	0.58	391
	12:45	4.03	2795	0.2	0.46	0.59	393
	13:00	3.97	2753	0.21	0.46	0.59	392
	13:15	4	2775	0.22	0.46	0.59	392
	13:30	3.93	2725	0.23	0.46	0.58	391
	13:45	4.04	2805	0.21	0.46	0.58	389

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	14:00	3.97	2754	0.18	0.46	0.58	390
	14:15	4.06	2820	0.15	0.46	0.58	389
	14:30	3.96	2751	0.14	0.46	0.58	388
	14:45	4.05	2809	0.13	0.46	0.58	389
	15:00	4.06	2815	0.13	0.46	0.58	388
	15:15	4.01	2786	0.13	0.46	0.58	387
	15:30	3.94	2736	0.13	0.46	0.58	389
	15:45	3.98	2761	0.13	0.46	0.58	389
	16:00	4.07	2827	0.13	0.46	0.58	386
	16:15	4	2776	0.13	0.46	0.58	386
	16:30	4.03	2798	0.09	0.46	0.58	387
	16:45	4.03	2795	0.09	0.46	0.58	388
	17:00	4.02	2787	0.09	0.46	0.58	387
	17:15	4.04	2806	0.09	0.46	0.58	387
	17:30	4.01	2784	0.09	0.46	0.58	388
	17:45	4.03	2796	0.1	0.46	0.57	385
	18:00	4.02	2790	0.1	0.46	0.58	387
	18:15	4.01	2782	0.1	0.46	0.58	387
	18:30	3.99	2766	0.1	0.46	0.58	387
	18:45	4.01	2782	0.1	0.46	0.58	387
	19:00	4.06	2815	0.11	0.46	0.58	387
	19:15	3.97	2758	0.11	0.46	0.58	388
	19:30	3.95	2743	0.11	0.46	0.58	391
	19:45	4.03	2796	0.11	0.46	0.58	389
	20:00	4.05	2813	0.11	0.46	0.58	391
	20:15	4.01	2785	0.12	0.46	0.58	391
	20:30	3.99	2769	0.12	0.46	0.58	390
	20:45	3.98	2759	0.12	0.46	0.58	391
	21:00	3.99	2768	0.12	0.46	0.58	390
	21:15	3.96	2751	0.12	0.46	0.58	388
	21:30	3.92	2720	0.12	0.46	0.58	389
	21:45	4	2776	0.12	0.46	0.58	390
	22:00	3.91	2711	0.12	0.46	0.58	389
	22:15	4	2775	0.13	0.46	0.58	390
	22:30	3.91	2711	0.13	0.46	0.58	389

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	22:45	3.92	2718	0.13	0.46	0.58	388
	23:00	3.93	2725	0.13	0.46	0.58	389
	23:15	3.96	2748	0.13	0.46	0.58	389
	23:30	3.88	2691	0.13	0.46	0.58	389
	23:45	4	2775	0.13	0.46	0.58	391
2/11/2014	0:00	3.97	2754	0.13	0.46	0.58	389
	0:15	3.95	2739	0.13	0.46	0.58	389
	0:30	3.94	2732	0.13	0.46	0.58	389
	0:45	3.98	2759	0.13	0.46	0.58	388
	1:00	3.96	2748	0.14	0.46	0.58	389
	1:15	4	2774	0.14	0.46	0.58	390
	1:30	3.94	2732	0.14	0.46	0.58	390
	1:45	4.04	2803	0.14	0.46	0.58	389
	2:00	4	2775	0.14	0.46	0.58	390
	2:15	3.97	2758	0.14	0.46	0.58	390
	2:30	3.92	2723	0.14	0.46	0.58	389
	2:45	3.92	2719	0.14	0.46	0.58	390
	3:00	3.96	2748	0.14	0.46	0.58	390
	3:15	3.95	2743	0.14	0.46	0.58	390
	3:30	3.97	2752	0.14	0.46	0.58	391
	3:45	3.92	2721	0.14	0.46	0.58	390
	4:00	3.97	2752	0.14	0.47	0.58	391
	4:15	3.94	2736	0.14	0.47	0.58	390
	4:30	3.98	2762	0.14	0.47	0.58	391
	4:45	3.95	2740	0.14	0.47	0.58	391
	5:00	3.97	2754	0.14	0.47	0.58	389
	5:15	4	2775	0.14	0.47	0.58	391
	5:30	3.99	2767	0.14	0.47	0.58	390
	5:45	3.93	2730	0.14	0.48	0.58	391
	6:00	3.83	2655	0.14	0.48	0.58	389
	6:15	3.93	2725	0.14	0.48	0.59	392
	6:30	3.99	2768	0.14	0.48	0.59	393
	6:45	3.95	2738	0.14	0.48	0.59	392
	7:00	3.9	2706	0.14	0.48	0.59	392
	7:15	3.97	2755	0.14	0.48	0.59	392

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	7:30	3.85	2672	0.14	0.48	0.59	392
	7:45	3.93	2727	0.14	0.48	0.58	391
	8:00	3.96	2749	0.14	0.48	0.59	392
	8:15	3.95	2738	0.14	0.48	0.58	391
	8:30	3.96	2748	0.14	0.48	0.58	391
	8:45	3.93	2724	0.14	0.48	0.58	389
	9:00	4.03	2795	0.14	0.48	0.58	391
	9:15	3.92	2721	0.14	0.48	0.59	392
	9:30	4	2777	0.14	0.48	0.58	391
	9:45	3.95	2743	0.14	0.48	0.58	391
	10:00	3.94	2736	0.14	0.48	0.58	391
	10:15	4.02	2786	0.14	0.48	0.58	391
	10:30	3.97	2754	0.14	0.48	0.58	391
	10:45	3.98	2759	0.14	0.48	0.58	391
	11:00	3.93	2725	0.14	0.48	0.58	390
	11:15	3.89	2700	0.14	0.48	0.58	387
	11:30	3.96	2745	0.14	0.48	0.58	389
	11:45	3.92	2718	0.14	0.48	0.58	389
	12:00	3.93	2727	0.14	0.48	0.58	387
	12:15	3.95	2739	0.14	0.48	0.58	389
	12:30	3.96	2746	0.14	0.48	0.58	389
	12:45	4.06	2816	0.14	0.48	0.58	389
	13:00	3.88	2692	0.14	0.48	0.58	389
	13:15	4.12	2861	0.14	0.48	0.58	389
	13:30	3.94	2736	0.14	0.48	0.58	386
	13:45	3.95	2738	0.14	0.48	0.58	388
	14:00	3.89	2700	0.14	0.48	0.58	388
	14:15	3.83	2657	0.14	0.48	0.58	387
	14:30	3.88	2692	0.14	0.48	0.58	387
	14:45	3.93	2728	0.15	0.48	0.58	388
	15:00	4.01	2781	0.14	0.48	0.58	387
	15:15	4.06	2816	0.14	0.48	0.58	387
	15:30	4.01	2784	0.14	0.48	0.58	387
	15:45	4.07	2826	0.14	0.48	0.58	389
	16:00	4.02	2791	0.14	0.48	0.58	389

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	16:15	4.09	2840	0.14	0.48	0.58	389
	16:30	4.03	2795	0.14	0.48	0.58	387
	16:45	3.87	2689	0.14	0.48	0.58	387
	17:00	4	2775	0.14	0.48	0.58	387
	17:15	3.98	2765	0.14	0.48	0.58	387
	17:30	3.98	2761	0.15	0.48	0.58	385
	17:45	3.93	2730	0.14	0.48	0.58	386
	18:00	4.07	2827	0.15	0.48	0.58	385
	18:15	3.88	2691	0.15	0.47	0.58	386
	18:30	3.96	2748	0.15	0.47	0.58	388
	18:45	3.96	2748	0.15	0.47	0.58	388
	19:00	4.01	2783	0.15	0.47	0.58	387
	19:15	3.93	2728	0.15	0.47	0.58	389
	19:30	2.77	1924	0.15	0.47	0.58	389
	19:45	2.74	1902	0.14	0.47	0.58	388
	20:00	3.02	2096	0.15	0.47	0.58	388
	20:15	4.39	3045	0.15	0.47	0.58	389
	20:30	3.88	2693	0.15	0.47	0.58	387
	20:45	3.93	2725	0.15	0.47	0.58	387
	21:00	3.89	2699	0.15	0.47	0.58	389
	21:15	3.91	2711	0.15	0.47	0.58	389
	21:30	3.94	2731	0.15	0.47	0.58	388
	21:45	3.89	2700	0.15	0.47	0.58	386
	22:00	3.97	2757	0.15	0.47	0.58	388
	22:15	4.02	2789	0.15	0.47	0.58	386
	22:30	3.9	2707	0.15	0.47	0.58	387
	22:45	3.9	2709	0.15	0.47	0.58	386
	23:00	3.99	2766	0.15	0.46	0.58	388
	23:15	4.02	2788	0.15	0.47	0.58	387
	23:30	3.98	2761	0.15	0.46	0.58	388
	23:45	4	2779	0.15	0.46	0.58	388
2/12/2014	0:00	3.98	2761	0.15	0.46	0.58	387
	0:15	3.99	2770	0.15	0.46	0.58	387
	0:30	4.04	2804	0.15	0.46	0.58	388
	0:45	3.98	2764	0.15	0.46	0.58	389

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	1:00	3.92	2718	0.15	0.46	0.58	389
	1:15	4.03	2794	0.15	0.46	0.58	387
	1:30	3.94	2735	0.15	0.46	0.58	389
	1:45	3.96	2746	0.15	0.46	0.58	389
	2:00	4.01	2782	0.15	0.47	0.58	391
	2:15	4.09	2837	0.15	0.47	0.58	389
	2:30	3.97	2757	0.15	0.47	0.58	391
	2:45	3.99	2770	0.15	0.47	0.58	390
	3:00	4	2778	0.15	0.47	0.58	389
	3:15	3.96	2751	0.15	0.47	0.58	389
	3:30	4.08	2832	0.15	0.47	0.58	389
	3:45	3.9	2709	0.15	0.47	0.58	389
	4:00	3.98	2765	0.15	0.47	0.58	389
	4:15	3.91	2710	0.15	0.48	0.58	391
	4:30	4.02	2786	0.15	0.48	0.58	389
	4:45	3.97	2757	0.15	0.47	0.58	388
	5:00	4.04	2805	0.15	0.47	0.58	389
	5:15	3.99	2771	0.15	0.47	0.58	388
	5:30	4	2773	0.15	0.47	0.58	388
	5:45	4.01	2780	0.15	0.47	0.58	389
	6:00	3.96	2750	0.15	0.47	0.58	391
	6:15	3.98	2763	0.15	0.47	0.58	389
	6:30	3.91	2711	0.15	0.47	0.58	389
	6:45	3.98	2764	0.15	0.47	0.58	390
	7:00	3.99	2770	0.15	0.47	0.58	389
	7:15	4.1	2847	0.15	0.46	0.58	391
	7:30	4.09	2840	0.15	0.46	0.58	389
	7:45	4.05	2810	0.15	0.46	0.58	388
	8:00	4.04	2802	0.15	0.46	0.58	391
	8:15	4.03	2796	0.15	0.46	0.58	390
	8:30	3.99	2771	0.15	0.46	0.58	391
	8:45	3.9	2709	0.15	0.46	0.58	391
	9:00	4.04	2800	0.15	0.46	0.58	389
	9:15	3.97	2752	0.15	0.46	0.58	389
	9:30	3.96	2750	0.15	0.46	0.58	387

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	9:45	4.04	2805	0.15	0.46	0.58	388
	10:00	4.07	2822	0.15	0.46	0.58	389
	10:15	3.95	2743	0.15	0.46	0.58	390
	10:30	3.95	2743	0.15	0.46	0.58	390
	10:45	3.95	2743	0.15	0.46	0.58	390
	11:00	3.95	2743	0.15	0.46	0.58	390
	11:15	3.95	2743	0.15	0.46	0.58	390
	11:30	3.95	2743	0.15	0.46	0.58	390
	11:45	3.95	2743	0.15	0.46	0.58	390
	12:00	3.95	2743	0.15	0.46	0.58	390
	12:15	3.95	2743	0.15	0.46	0.58	390
	12:30	3.95	2743	0.15	0.46	0.58	390
	12:45	3.95	2743	0.15	0.46	0.58	390
	13:00	3.95	2743	0.15	0.46	0.58	390
	13:15	3.95	2743	0.15	0.46	0.58	390
	13:30	3.95	2743	0.15	0.46	0.58	390
	13:45	3.95	2743	0.15	0.46	0.58	390
	14:00	3.95	2743	0.15	0.46	0.58	390
	14:15	3.95	2743	0.15	0.46	0.58	390
	14:30	3.95	2743	0.15	0.46	0.58	390
	14:45	3.95	2743	0.15	0.46	0.58	390
	15:00	3.95	2743	0.15	0.46	0.58	390
	15:15	3.95	2743	0.15	0.46	0.58	390
	15:30	3.95	2743	0.16	0.46	0.58	390
	15:45	3.95	2743	0.15	0.46	0.58	390
	16:00	3.95	2743	0.15	0.46	0.58	390
	16:15	3.95	2743	0.15	0.46	0.58	390
	16:30	3.95	2743	0.15	0.46	0.58	390
	16:45	3.95	2743	0.16	0.46	0.58	390
	17:00	3.95	2743	0.17	0.46	0.58	390
	17:15	3.95	2743	0.19	0.46	0.58	390
	17:30	3.95	2743	0.18	0.46	0.58	390
	17:45	3.95	2743	0.16	0.46	0.58	390
	18:00	3.95	2743	0.15	0.46	0.58	390
	18:15	3.95	2743	0.14	0.46	0.58	390

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	18:30	3.95	2743	0.13	0.46	0.58	390
	18:45	3.95	2743	0.13	0.46	0.58	390
	19:00	3.95	2743	0.13	0.46	0.58	390
	19:15	3.95	2743	0.13	0.46	0.58	390
	19:30	3.95	2743	0.13	0.46	0.58	390
	19:45	3.95	2743	0.13	0.46	0.58	390
	20:00	3.95	2743	0.13	0.46	0.58	390
	20:15	3.95	2743	0.13	0.46	0.58	390
	20:30	3.95	2743	0.14	0.46	0.58	390
	20:45	3.95	2743	0.14	0.46	0.58	390
	21:00	3.95	2743	0.14	0.46	0.58	390
	21:15	3.95	2743	0.14	0.46	0.58	390
	21:30	3.95	2743	0.14	0.46	0.58	390
	21:45	3.95	2743	0.14	0.46	0.58	390
	22:00	3.95	2743	0.14	0.46	0.58	390
	22:15	3.95	2743	0.14	0.46	0.58	390
	22:30	3.95	2743	0.14	0.46	0.58	390
	22:45	3.95	2743	0.14	0.46	0.58	390
	23:00	3.95	2743	0.15	0.46	0.58	390
	23:15	3.95	2743	0.15	0.46	0.58	390
	23:30	3.95	2743	0.15	0.46	0.58	390
	23:45	3.95	2743	0.15	0.46	0.58	390
2/13/2014	0:00	3.95	2743	0.15	0.46	0.58	390
	0:15	3.95	2743	0.15	0.46	0.58	390
	0:30	3.95	2743	0.15	0.46	0.58	390
	0:45	3.95	2743	0.15	0.46	0.58	390
	1:00	3.95	2743	0.15	0.46	0.58	390
	1:15	3.95	2743	0.15	0.46	0.58	390
	1:30	3.95	2743	0.15	0.46	0.58	390
	1:45	3.95	2743	0.15	0.46	0.58	390
	2:00	3.95	2743	0.15	0.46	0.58	390
	2:15	3.95	2743	0.15	0.46	0.58	390
	2:30	3.95	2743	0.15	0.46	0.58	390
	2:45	3.95	2743	0.15	0.46	0.58	390
	3:00	3.95	2743	0.15	0.46	0.58	390

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	3:15	3.95	2743	0.15	0.46	0.58	390
	3:30	3.95	2743	0.15	0.46	0.58	390
	3:45	3.95	2743	0.15	0.46	0.58	390
	4:00	3.95	2743	0.15	0.46	0.58	390
	4:15	3.95	2743	0.15	0.46	0.58	390
	4:30	3.95	2743	0.15	0.46	0.58	390
	4:45	3.95	2743	0.16	0.46	0.58	390
	5:00	3.95	2743	0.15	0.46	0.58	390
	5:15	3.95	2743	0.15	0.46	0.58	390
	5:30	3.95	2743	0.15	0.46	0.58	390
	5:45	3.95	2743	0.16	0.46	0.58	390
	6:00	3.95	2743	0.15	0.46	0.58	390
	6:15	3.95	2743	0.16	0.46	0.58	390
	6:30	3.95	2743	0.16	0.46	0.58	390
	6:45	3.95	2743	0.16	0.46	0.58	390
	7:00	3.95	2743	0.15	0.46	0.58	390
	7:15	3.95	2743	0.15	0.46	0.58	390
	7:30	3.95	2743	0.15	0.46	0.58	390
	7:45	3.95	2743	0.15	0.46	0.58	390
	8:00	3.95	2743	0.16	0.46	0.58	390
	8:15	3.95	2743	0.16	0.46	0.58	390
	8:30	3.95	2743	0.15	0.46	0.58	390
	8:45	3.95	2743	0.16	0.46	0.58	390
	9:00	3.95	2743	0.16	0.46	0.58	390
	9:15	3.95	2743	0.16	0.46	0.58	390
	9:30	3.95	2743	0.16	0.46	0.58	390
	9:45	3.95	2743	0.15	0.46	0.58	390
	10:00	3.95	2743	0.16	0.46	0.58	390
	10:15	3.95	2743	0.15	0.46	0.58	390
	10:30	3.95	2743	0.16	0.46	0.58	390
	10:45	3.95	2743	0.16	0.46	0.58	390
	11:00	3.95	2743	0.15	0.46	0.58	390
	11:15	3.95	2743	0.15	0.46	0.58	390
	11:30	3.95	2743	0.15	0.46	0.58	390
	11:45	3.95	2743	0.16	0.46	0.58	390

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	12:00	3.95	2743	0.15	0.46	0.58	390
	12:15	3.95	2743	0.15	0.46	0.58	390
	12:30	3.95	2743	0.15	0.46	0.58	390
	12:45	3.95	2743	0.15	0.46	0.58	390
	13:00	3.95	2743	0.15	0.46	0.58	390
	13:15	3.95	2743	0.16	0.46	0.58	390
	13:30	3.95	2743	0.15	0.46	0.58	390
	13:45	3.95	2743	0.15	0.46	0.58	390
	14:00	3.95	2743	0.15	0.46	0.58	390
	14:15	3.95	2743	0.15	0.46	0.58	390
	14:30	3.95	2743	0.15	0.46	0.58	390
	14:45	3.95	2743	0.15	0.46	0.58	390
	15:00	3.95	2743	0.15	0.46	0.58	390
	15:15	3.95	2743	0.15	0.46	0.58	390
	15:30	3.95	2743	0.16	0.46	0.58	390
	15:45	3.95	2743	0.15	0.46	0.58	390
	16:00	3.95	2743	0.15	0.46	0.58	390
	16:15	3.95	2743	0.15	0.46	0.58	390
	16:30	3.95	2743	0.16	0.46	0.58	390
	16:45	3.95	2743	0.15	0.46	0.58	390
	17:00	3.95	2743	0.16	0.46	0.58	390
	17:15	3.95	2743	0.15	0.46	0.58	390
	17:30	3.95	2743	0.15	0.46	0.58	390
	17:45	3.95	2743	0.15	0.46	0.58	390
	18:00	3.95	2743	0.16	0.46	0.58	390
	18:15	3.95	2743	0.15	0.46	0.58	390
	18:30	3.95	2743	0.15	0.46	0.58	390
	18:45	3.95	2743	0.15	0.46	0.58	390
	19:00	3.95	2743	0.16	0.46	0.58	390
	19:15	3.95	2743	0.16	0.46	0.58	390
	19:30	3.95	2743	0.18	0.46	0.58	390
	19:45	3.95	2743	0.18	0.46	0.58	390
	20:00	3.95	2743	0.15	0.46	0.58	390
	20:15	3.95	2743	0.14	0.46	0.58	390
	20:30	3.95	2743	0.12	0.46	0.58	390

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	20:45	3.95	2743	0.12	0.46	0.58	390
	21:00	3.95	2743	0.11	0.46	0.58	390
	21:15	3.95	2743	0.11	0.46	0.58	390
	21:30	3.95	2743	0.12	0.46	0.58	390
	21:45	3.95	2743	0.13	0.46	0.58	390
	22:00	3.95	2743	0.13	0.46	0.58	390
	22:15	3.95	2743	0.14	0.46	0.58	390
	22:30	3.95	2743	0.14	0.46	0.58	390
	22:45	3.95	2743	0.15	0.46	0.58	390
	23:00	3.95	2743	0.16	0.46	0.58	390
	23:15	3.95	2743	0.15	0.46	0.58	390
	23:30	3.95	2743	0.15	0.46	0.58	390
	23:45	3.95	2743	0.16	0.46	0.58	390
2/14/2014	0:00	3.95	2743	0.16	0.46	0.58	390
	0:15	3.95	2743	0.16	0.46	0.58	390
	0:30	3.95	2743	0.16	0.46	0.58	390
	0:45	3.95	2743	0.17	0.46	0.58	390
	1:00	3.95	2743	0.17	0.46	0.58	390
	1:15	3.95	2743	0.17	0.46	0.58	390
	1:30	3.95	2743	0.17	0.46	0.58	390
	1:45	3.95	2743	0.17	0.46	0.58	390
	2:00	3.95	2743	0.17	0.46	0.58	390
	2:15	3.95	2743	0.17	0.46	0.58	390
	2:30	3.95	2743	0.17	0.46	0.58	390
	2:45	3.95	2743	0.17	0.46	0.58	390
	3:00	3.95	2743	0.17	0.46	0.58	390
	3:15	3.95	2743	0.17	0.46	0.58	390
	3:30	3.95	2743	0.17	0.46	0.58	390
	3:45	3.95	2743	0.18	0.46	0.58	390
	4:00	3.95	2743	0.17	0.46	0.58	390
	4:15	3.95	2743	0.17	0.46	0.58	390
	4:30	3.95	2743	0.18	0.46	0.58	390
	4:45	3.95	2743	0.17	0.46	0.58	390
	5:00	3.95	2743	0.17	0.46	0.58	390
	5:15	3.95	2743	0.17	0.46	0.58	390

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	5:30	3.95	2743	0.18	0.46	0.58	390
	5:45	3.95	2743	0.18	0.46	0.58	390
	6:00	3.95	2743	0.17	0.46	0.58	390
	6:15	3.95	2743	0.17	0.46	0.58	390
	6:30	3.95	2743	0.16	0.46	0.58	390
	6:45	3.95	2743	0.17	0.46	0.58	390
	7:00	3.95	2743	0.17	0.46	0.58	390
	7:15	3.95	2743	0.17	0.46	0.58	390
	7:30	3.95	2743	0.18	0.46	0.58	390
	7:45	3.95	2743	0.16	0.46	0.58	390
	8:00	3.95	2743	0.17	0.46	0.58	390
	8:15	3.95	2743	0.16	0.46	0.58	390
	8:30	3.95	2743	0.16	0.46	0.58	390
	8:45	3.95	2743	0.16	0.46	0.58	390
	9:00	3.95	2743	0.16	0.46	0.58	390
	9:15	3.95	2743	0.16	0.46	0.58	390
	9:30	4.33	3006	0.16	0.44	0.59	396
	9:45	4.49	3118	0.16	0.44	0.59	393
	10:00	4.36	3023	0.16	0.44	0.58	391
	10:15	4.39	3043	0.16	0.44	0.59	395
	10:30	4.38	3041	0.16	0.44	0.59	394
	10:45	3.85	2673	0.16	0.44	0.59	394
	11:00	4.02	2788	0.16	0.44	0.59	393
	11:15	4.37	3033	0.16	0.44	0.59	395
	11:30	4.25	2952	0.16	0.44	0.59	395
	11:45	4.22	2927	0.16	0.44	0.59	393
	12:00	4.24	2941	0.16	0.44	0.59	393
	12:15	4.52	3134	0.16	0.44	0.59	392
	12:30	4.21	2923	0.16	0.44	0.59	396
	12:45	4.27	2961	0.16	0.44	0.59	396
	13:00	4.11	2852	0.16	0.44	0.58	390
	13:15	4.26	2955	0.15	0.44	0.58	389
	13:30	4.27	2963	0.16	0.44	0.58	391
	13:45	4.42	3070	0.16	0.44	0.59	395
	14:00	4.34	3009	0.16	0.44	0.59	395

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	14:15	4.42	3070	0.15	0.44	0.59	395
	14:30	4.54	3151	0.15	0.44	0.59	393
	14:45	4.46	3098	0.15	0.44	0.58	391
	15:00	4.5	3120	0.15	0.44	0.59	392
	15:15	4.39	3043	0.15	0.44	0.58	391
	15:30	4.56	3164	0.15	0.44	0.58	391
	15:45	4.55	3157	0.15	0.44	0.58	391
	16:00	4.52	3138	0.16	0.44	0.58	389
	16:15	4.55	3155	0.15	0.44	0.58	389
	16:30	4.51	3131	0.15	0.44	0.58	390
	16:45	4.49	3115	0.16	0.44	0.58	391
	17:00	4.5	3126	0.15	0.44	0.58	390
	17:15	4.43	3077	0.15	0.44	0.59	393
	17:30	4.41	3058	0.15	0.44	0.59	392
	17:45	4.48	3112	0.15	0.44	0.58	391
	18:00	4.5	3122	0.15	0.44	0.58	391
	18:15	4.59	3188	0.16	0.44	0.58	391
	18:30	4.38	3042	0.15	0.44	0.59	392
	18:45	4.42	3069	0.15	0.44	0.59	393
	19:00	4.48	3106	0.15	0.44	0.58	391
	19:15	4.34	3013	0.16	0.44	0.58	391
	19:30	4.32	2999	0.15	0.44	0.58	389
	19:45	4.35	3018	0.16	0.44	0.58	389
	20:00	4.37	3036	0.15	0.44	0.58	390
	20:15	4.36	3028	0.15	0.44	0.58	389
	20:30	4.44	3081	0.15	0.44	0.58	387
	20:45	4.44	3081	0.15	0.44	0.58	387
	21:00	4.44	3081	0.15	0.44	0.58	387
	21:15	4.44	3081	0.15	0.44	0.58	387
	21:30	4.44	3081	0.15	0.44	0.58	387
	21:45	4.44	3081	0.15	0.44	0.58	387
	22:00	4.44	3081	0.15	0.44	0.58	387
	22:15	4.44	3081	0.15	0.44	0.58	387
	22:30	4.44	3081	0.15	0.44	0.58	387
	22:45	4.44	3081	0.15	0.44	0.58	387

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	23:00	4.44	3081	0.15	0.44	0.58	387
	23:15	4.44	3081	0.15	0.44	0.58	387
	23:30	4.44	3081	0.15	0.44	0.58	387
	23:45	4.44	3081	0.15	0.44	0.58	387
2/15/2014	0:00	4.44	3081	0.15	0.44	0.58	387
	0:15	4.44	3081	0.15	0.44	0.58	387
	0:30	4.44	3081	0.15	0.44	0.58	387
	0:45	4.44	3081	0.16	0.44	0.58	387
	1:00	4.44	3081	0.15	0.44	0.58	387
	1:15	4.44	3081	0.15	0.44	0.58	387
	1:30	4.44	3081	0.15	0.44	0.58	387
	1:45	4.44	3081	0.15	0.44	0.58	387
	2:00	4.44	3081	0.15	0.44	0.58	387
	2:15	4.44	3081	0.15	0.44	0.58	387
	2:30	4.44	3081	0.14	0.44	0.58	387
	2:45	4.44	3081	0.15	0.44	0.58	387
	3:00	4.44	3081	0.14	0.44	0.58	387
	3:15	4.44	3081	0.14	0.44	0.58	387
	3:30	4.44	3081	0.14	0.44	0.58	387
	3:45	4.44	3081	0.15	0.44	0.58	387
	4:00	4.44	3081	0.15	0.44	0.58	387
	4:15	4.44	3081	0.14	0.44	0.58	387
	4:30	4.44	3081	0.14	0.44	0.58	387
	4:45	4.44	3081	0.14	0.44	0.58	387
	5:00	4.44	3081	0.15	0.44	0.58	387
	5:15	4.44	3081	0.15	0.44	0.58	387
	5:30	4.44	3081	0.14	0.44	0.58	387
	5:45	4.44	3081	0.14	0.44	0.58	387
	6:00	4.44	3081	0.15	0.44	0.58	387
	6:15	4.44	3081	0.14	0.44	0.58	387
	6:30	4.44	3081	0.14	0.44	0.58	387
	6:45	4.44	3081	0.15	0.44	0.58	387
	7:00	4.44	3081	0.14	0.44	0.58	387
	7:15	4.44	3081	0.15	0.44	0.58	387
	7:30	4.44	3081	0.14	0.44	0.58	387

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	7:45	4.44	3081	0.14	0.44	0.58	387
	8:00	4.44	3081	0.14	0.44	0.58	387
	8:15	4.44	3081	0.14	0.44	0.58	387
	8:30	4.44	3081	0.14	0.44	0.58	387
	8:45	4.44	3081	0.14	0.44	0.58	387
	9:00	4.44	3081	0.14	0.44	0.58	387
	9:15	4.44	3081	0.14	0.44	0.58	387
	9:30	4.44	3081	0.14	0.44	0.58	387
	9:45	4.44	3081	0.15	0.44	0.58	387
	10:00	4.44	3081	0.14	0.44	0.58	387
	10:15	4.44	3081	0.14	0.44	0.58	387
	10:30	4.44	3081	0.14	0.44	0.58	387
	10:45	4.44	3081	0.14	0.44	0.58	387
	11:00	4.44	3081	0.15	0.44	0.58	387
	11:15	4.44	3081	0.14	0.44	0.58	387
	11:30	4.44	3081	0.14	0.44	0.58	387
	11:45	4.44	3081	0.14	0.44	0.58	387
	12:00	4.44	3081	0.14	0.44	0.58	387
	12:15	4.44	3081	0.14	0.44	0.58	387
	12:30	4.44	3081	0.14	0.44	0.58	387
	12:45	4.44	3081	0.14	0.44	0.58	387
	13:00	4.44	3081	0.14	0.44	0.58	387
	13:15	4.44	3081	0.14	0.44	0.58	387
	13:30	4.44	3081	0.14	0.44	0.58	387
	13:45	4.44	3081	0.14	0.44	0.58	387
	14:00	4.44	3081	0.15	0.44	0.58	387
	14:15	4.44	3081	0.14	0.44	0.58	387
	14:30	4.44	3081	0.14	0.44	0.58	387
	14:45	4.44	3081	0.14	0.44	0.58	387
	15:00	4.44	3081	0.15	0.44	0.58	387
	15:15	4.44	3081	0.14	0.44	0.58	387
	15:30	4.44	3081	0.15	0.44	0.58	387
	15:45	4.44	3081	0.15	0.44	0.58	387
	16:00	4.44	3081	0.15	0.44	0.58	387
	16:15	4.44	3081	0.15	0.44	0.58	387

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	16:30	4.44	3081	0.15	0.44	0.58	387
	16:45	4.44	3081	0.15	0.44	0.58	387
	17:00	4.44	3081	0.15	0.44	0.58	387
	17:15	4.44	3081	0.15	0.44	0.58	387
	17:30	4.44	3081	0.15	0.44	0.58	387
	17:45	4.44	3081	0.15	0.44	0.58	387
	18:00	4.44	3081	0.15	0.44	0.58	387
	18:15	4.44	3081	0.15	0.44	0.58	387
	18:30	4.44	3081	0.15	0.44	0.58	387
	18:45	4.44	3081	0.15	0.44	0.58	387
	19:00	4.54	3154	0.15	0.45	0.57	381
	19:15	4.56	3165	0.15	0.44	0.57	383
	19:30	4.48	3110	0.15	0.44	0.57	382
	19:45	4.57	3172	0.15	0.44	0.57	381
	20:00	4.58	3179	0.15	0.45	0.57	382
	20:15	4.57	3169	0.15	0.44	0.57	384
	20:30	4.54	3150	0.15	0.44	0.57	383
	20:45	4.51	3129	0.14	0.44	0.57	384
	21:00	4.58	3179	0.15	0.44	0.58	385
	21:15	4.58	3177	0.15	0.45	0.58	387
	21:30	4.57	3174	0.15	0.45	0.57	385
	21:45	4.54	3149	0.15	0.44	0.58	386
	22:00	4.57	3168	0.15	0.45	0.58	387
	22:15	4.52	3136	0.15	0.44	0.58	389
	22:30	4.5	3124	0.16	0.44	0.59	392
	22:45	4.52	3133	0.15	0.45	0.58	391
	23:00	4.46	3096	0.16	0.44	0.59	393
	23:15	4.46	3092	0.16	0.44	0.58	391
	23:30	4.43	3077	0.16	0.44	0.59	393
	23:45	4.45	3088	0.16	0.44	0.59	392
2/16/2014	0:00	4.46	3092	0.16	0.44	0.59	392
	0:15	4.38	3039	0.15	0.44	0.58	391
	0:30	4.3	2986	0.15	0.44	0.58	391
	0:45	4.37	3035	0.15	0.44	0.58	389
	1:00	4.54	3154	0.15	0.44	0.58	391

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	1:15	4.3	2984	0.16	0.44	0.59	392
	1:30	4.52	3139	0.16	0.44	0.58	391
	1:45	4.43	3076	0.17	0.45	0.58	390
	2:00	4.52	3138	0.2	0.44	0.58	390
	2:15	4.55	3160	0.22	0.44	0.58	389
	2:30	4.49	3115	0.22	0.44	0.58	388
	2:45	4.52	3140	0.17	0.44	0.58	386
	3:00	4.56	3167	0.14	0.44	0.58	385
	3:15	4.59	3185	0.11	0.44	0.57	383
	3:30	4.53	3147	0.1	0.44	0.57	383
	3:45	4.56	3161	0.09	0.44	0.57	383
	4:00	4.57	3170	0.1	0.44	0.57	383
	4:15	4.52	3135	0.1	0.44	0.57	383
	4:30	4.53	3145	0.1	0.44	0.57	384
	4:45	4.52	3138	0.11	0.44	0.57	385
	5:00	4.47	3103	0.1	0.44	0.58	386
	5:15	4.43	3074	0.11	0.44	0.57	384
	5:30	4.43	3074	0.11	0.44	0.57	383
	5:45	4.46	3092	0.11	0.44	0.57	383
	6:00	4.45	3091	0.11	0.44	0.57	383
	6:15	4.41	3063	0.12	0.44	0.57	384
	6:30	4.46	3094	0.12	0.44	0.58	387
	6:45	4.46	3094	0.12	0.44	0.58	386
	7:00	4.44	3082	0.12	0.45	0.58	389
	7:15	4.37	3029	0.12	0.45	0.58	389
	7:30	4.39	3047	0.12	0.45	0.58	388
	7:45	4.41	3063	0.12	0.45	0.58	390
	8:00	4.39	3046	0.12	0.45	0.58	389
	8:15	4.29	2979	0.13	0.45	0.58	391
	8:30	4.42	3064	0.12	0.45	0.59	393
	8:45	4.49	3115	0.12	0.45	0.58	391
	9:00	4.52	3134	0.12	0.45	0.58	391
	9:15	4.4	3051	0.12	0.45	0.59	392
	9:30	4.34	3012	0.12	0.45	0.59	392
	9:45	4.34	3011	0.12	0.45	0.58	389

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	10:00	4.3	2981	0.12	0.45	0.58	389
	10:15	4.33	3002	0.13	0.45	0.58	391
	10:30	4.32	2996	0.12	0.45	0.58	388
	10:45	4.31	2994	0.13	0.45	0.58	391
	11:00	4.43	3071	0.13	0.45	0.58	388
	11:15	4.5	3120	0.13	0.45	0.58	389
	11:30	4.46	3095	0.13	0.45	0.58	389
	11:45	4.49	3118	0.13	0.45	0.58	390
	12:00	4.46	3092	0.13	0.45	0.58	389
	12:15	4.51	3131	0.12	0.45	0.58	389
	12:30	4.41	3060	0.13	0.45	0.58	391
	12:45	4.43	3076	0.13	0.45	0.58	389
	13:00	4.37	3035	0.13	0.45	0.58	389
	13:15	4.38	3042	0.13	0.45	0.58	389
	13:30	4.35	3020	0.13	0.45	0.58	387
	13:45	4.35	3022	0.13	0.45	0.58	386
	14:00	4.33	3003	0.13	0.45	0.58	389
	14:15	4.59	3183	0.14	0.45	0.58	389
	14:30	4.43	3074	0.13	0.45	0.58	387
	14:45	4.41	3058	0.13	0.45	0.58	387
	15:00	4.38	3039	0.13	0.45	0.58	385
	15:15	4.42	3069	0.14	0.45	0.58	386
	15:30	4.41	3061	0.14	0.45	0.58	387
	15:45	4.32	2995	0.14	0.45	0.57	385
	16:00	4.43	3072	0.13	0.45	0.57	383
	16:15	4.43	3071	0.15	0.45	0.58	388
	16:30	4.48	3107	0.13	0.45	0.57	385
	16:45	4.34	3010	0.14	0.45	0.57	384
	17:00	4.44	3082	0.14	0.45	0.58	385
	17:15	4.47	3100	0.14	0.45	0.57	384
	17:30	4.73	3285	0.15	0.45	0.57	384
	17:45	4.52	3135	0.15	0.45	0.57	385
	18:00	4.44	3083	0.15	0.45	0.58	385
	18:15	4.43	3071	0.17	0.45	0.58	385
	18:30	4.49	3116	0.2	0.45	0.57	383

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	18:45	4.47	3104	0.23	0.45	0.57	382
	19:00	3.18	2207	0.23	0.45	0.57	381
	19:15	3.15	2185	0.19	0.45	0.57	381
	19:30	0	0	0.15	0.45	0.57	382
	19:45	-0	-0.7	0.16	0.45	0.57	380
	20:00	-0	-1.4	0.16	0.45	0.57	381
	20:15	-0	-1.4	0.15	0.45	0.57	382
	20:30	12.1	8392	0.11	0.45	0.57	380
	20:45	3.04	2108	0.11	0.46	0.57	380
	21:00	3.07	2133	0.12	0.46	0.57	379
	21:15	3.76	2608	0.14	0.46	0.57	380
	21:30	3.73	2590	0.16	0.46	0.56	377
	21:45	3.93	2726	0.2	0.45	0.56	375
	22:00	0.07	50.7	0.23	0.46	0.56	377
	22:15	0.06	44.4	0.24	0.45	0.57	379
	22:30	-0	-2.8	0.2	0.46	0.56	377
	22:45	5.85	4059	0.18	0.46	0.56	376
	23:00	3.62	2514	0.17	0.46	0.56	373
	23:15	4.48	3111	0.16	0.46	0.56	374
	23:30	4.33	3008	0.17	0.46	0.56	373
	23:45	4.27	2961	0.17	0.46	0.56	375
2/17/2014	0:00	4.33	3003	0.2	0.46	0.56	375
	0:15	4.35	3017	0.23	0.46	0.56	373
	0:30	4.31	2992	0.24	0.46	0.56	373
	0:45	4.32	2995	0.24	0.46	0.55	371
	1:00	4.2	2915	0.23	0.46	0.56	373
	1:15	4.28	2968	0.26	0.46	0.56	374
	1:30	4.17	2896	0.27	0.47	0.56	373
	1:45	4.24	2939	0.25	0.47	0.56	372
	2:00	4.19	2909	0.2	0.46	0.56	372
	2:15	4.22	2929	0.15	0.46	0.55	371
	2:30	4.23	2935	0.14	0.46	0.56	372
	2:45	4.28	2972	0.13	0.46	0.56	372
	3:00	4.16	2885	0.16	0.46	0.55	371
	3:15	4.19	2906	0.18	0.46	0.55	370

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	3:30	4.21	2921	0.18	0.46	0.56	373
	3:45	4.24	2945	0.16	0.46	0.56	373
	4:00	4.22	2925	0.14	0.46	0.55	371
	4:15	4.28	2972	0.13	0.46	0.55	369
	4:30	4.27	2966	0.12	0.47	0.55	371
	4:45	4.24	2940	0.12	0.47	0.55	370
	5:00	4.3	2981	0.1	0.47	0.55	371
	5:15	4.21	2918	0.1	0.47	0.55	371
	5:30	4.28	2968	0.1	0.47	0.55	371
	5:45	4.25	2947	0.1	0.47	0.55	371
	6:00	4.17	2895	0.1	0.47	0.55	369
	6:15	4.25	2950	0.1	0.47	0.55	370
	6:30	4.22	2927	0.1	0.47	0.55	370
	6:45	4.18	2900	0.12	0.47	0.55	370
	7:00	4.03	2795	0.14	0.47	0.55	369
	7:15	4.29	2979	0.15	0.47	0.55	369
	7:30	4.16	2886	0.17	0.47	0.55	369
	7:45	4.13	2863	0.16	0.47	0.55	368
	8:00	4.13	2866	0.16	0.47	0.55	369
	8:15	4.22	2931	0.17	0.47	0.55	371
	8:30	4.23	2932	0.18	0.48	0.55	367
	8:45	4.23	2938	0.18	0.48	0.55	365
	9:00	4.28	2972	0.18	0.48	0.55	366
	9:15	4.14	2870	0.15	0.48	0.55	369
	9:30	3.94	2732	0.13	0.48	0.55	367
	9:45	4.31	2991	0.12	0.48	0.55	367
	10:00	4.2	2913	0.12	0.48	0.55	366
	10:15	4.39	3045	0.15	0.48	0.55	367
	10:30	4.37	3030	0.16	0.48	0.55	366
	10:45	4.36	3027	0.14	0.48	0.55	368
	11:00	4.37	3029	0.13	0.48	0.55	369
	11:15	4.38	3040	0.11	0.48	0.55	369
	11:30	4.44	3081	0.1	0.48	0.55	370
	11:45	4.54	3152	0.1	0.48	0.55	369
	12:00	4.41	3058	0.1	0.48	0.55	367

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	12:15	4.49	3118	0.09	0.48	0.55	369
	12:30	4.44	3083	0.09	0.48	0.55	368
	12:45	4.41	3060	0.09	0.48	0.55	368
	13:00	4.43	3074	0.09	0.48	0.55	368
	13:15	4.39	3048	0.1	0.48	0.54	362
	13:30	4.43	3075	0.1	0.49	0.55	367
	13:45	4.49	3117	0.1	0.49	0.55	366
	14:00	4.34	3015	0.11	0.49	0.55	366
	14:15	4.43	3075	0.12	0.49	0.55	369
	14:30	4.29	2977	0.13	0.49	0.55	367
	14:45	4.31	2988	0.14	0.49	0.55	367
	15:00	4.4	3052	0.15	0.49	0.55	367
	15:15	4.28	2972	0.15	0.49	0.55	366
	15:30	4.32	3001	0.14	0.49	0.55	366
	15:45	4.27	2966	0.13	0.49	0.55	365
	16:00	4.39	3047	0.12	0.49	0.55	366
	16:15	4.31	2993	0.12	0.49	0.55	366
	16:30	4.37	3029	0.11	0.49	0.55	365
	16:45	4.38	3036	0.11	0.49	0.54	364
	17:00	4.43	3077	0.11	0.49	0.55	366
	17:15	4.3	2984	0.12	0.49	0.55	366
	17:30	4.38	3036	0.12	0.49	0.55	366
	17:45	4.36	3028	0.12	0.49	0.55	365
	18:00	3.09	2147	0.13	0.49	0.54	364
	18:15	4.27	2964	0.13	0.49	0.54	364
	18:30	4.26	2953	0.16	0.49	0.55	366
	18:45	4.28	2968	0.17	0.49	0.55	368
	19:00	4.29	2977	0.18	0.5	0.55	366
	19:15	4.24	2945	0.19	0.5	0.55	368
	19:30	4.17	2897	0.19	0.51	0.55	369
	19:45	4.28	2968	0.15	0.51	0.55	368
	20:00	4.25	2951	0.13	0.52	0.55	371
	20:15	4.18	2903	0.14	0.53	0.55	369
	20:30	4.31	2990	0.15	0.54	0.55	370
	20:45	4.21	2925	0.16	0.55	0.55	370

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	21:00	4.22	2929	0.19	0.56	0.55	371
	21:15	4.17	2897	0.21	0.58	0.55	371
	21:30	4.28	2970	0.2	0.59	0.55	371
	21:45	4.25	2946	0.16	0.6	0.56	373
	22:00	4.22	2928	0.14	0.61	0.55	371
	22:15	0.03	23.6	0.15	0.62	0.55	371
	22:30	0	2.08	0.15	0.63	0.56	375
	22:45	0.21	149	0.17	0.65	0.56	374
	23:00	5.39	3741	0.18	0.66	0.56	373
	23:15	4.2	2911	0.19	0.67	0.56	373
	23:30	4.27	2963	0.18	0.67	0.56	377
	23:45	4.25	2950	0.17	0.65	0.56	373
2/18/2014	0:00	4.34	3008	0.16	0.66	0.56	377
	0:15	4.32	3000	0.15	0.68	0.56	377
	0:30	4.37	3031	0.16	0.71	0.57	380
	0:45	4.31	2993	0.15	0.75	0.57	379
	1:00	4.34	3014	0.15	0.77	0.57	379
	1:15	4.28	2967	0.15	0.8	0.57	379
	1:30	4.35	3016	0.14	0.82	0.57	381
	1:45	4.32	2995	0.13	0.85	0.57	383
	2:00	4.33	3005	0.13	0.87	0.57	383
	2:15	4.32	2999	0.14	0.89	0.57	382
	2:30	4.24	2940	0.14	0.91	0.57	381
	2:45	4.33	3004	0.15	0.93	0.58	386
	3:00	4.23	2934	0.16	0.96	0.57	385
	3:15	4.22	2927	0.15	0.98	0.57	385
	3:30	4.29	2977	0.14	1.01	0.57	385
	3:45	4.25	2952	0.15	1.03	0.58	387
	4:00	4.16	2884	0.14	1.06	0.58	387
	4:15	4.3	2981	0.13	1.08	0.58	387
	4:30	4.17	2893	0.12	1.11	0.58	388
	4:45	4.22	2929	0.11	1.13	0.58	390
	5:00	4.25	2952	0.12	1.16	0.59	393
	5:15	4.23	2932	0.12	1.18	0.58	391
	5:30	4.16	2884	0.16	1.21	0.59	392

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	5:45	4.2	2915	0.16	1.23	0.59	394
	6:00	4.21	2921	0.16	1.25	0.59	395
	6:15	3.87	2688	0.15	1.27	0.59	395
	6:30	3.88	2691	0.13	1.29	0.59	395
	6:45	3.88	2690	0.12	1.31	0.59	396
	7:00	4.01	2784	0.12	1.33	0.59	397
	7:15	4.03	2800	0.11	1.35	0.59	396
	7:30	4.03	2800	0.12	1.37	0.59	397
	7:45	4.06	2816	0.11	1.39	0.6	399
	8:00	3.92	2722	0.11	1.4	0.59	397
	8:15	4.08	2828	0.11	1.42	0.6	401
	8:30	4.13	2868	0.11	1.44	0.6	400
	8:45	4.19	2906	0.12	1.45	0.6	400
	9:00	4.15	2879	0.13	1.47	0.6	401
	9:15	4.07	2827	0.14	1.48	0.6	401
	9:30	3.98	2761	0.15	1.49	0.6	401
	9:45	4.09	2836	0.16	1.51	0.6	401
	10:00	3.93	2724	0.16	1.52	0.6	400
	10:15	4.18	2901	0.13	1.53	0.6	403
	10:30	4.26	2954	0.12	1.54	0.6	405
	10:45	4.11	2854	0.12	1.55	0.6	404
	11:00	4	2779	0.14	1.57	0.6	404
	11:15	3.97	2755	0.14	1.58	0.6	405
	11:30	3.98	2761	0.14	1.59	0.6	403
	11:45	4.08	2829	0.14	1.61	0.6	402
	12:00	4.09	2835	0.14	1.62	0.6	404
	12:15	4.07	2827	0.14	1.62	0.6	403
	12:30	4.21	2925	0.16	1.63	0.6	402
	12:45	4.28	2968	0.17	1.64	0.6	404
	13:00	4.12	2861	0.16	1.65	0.6	402
	13:15	4.03	2795	0.14	1.66	0.6	403
	13:30	4.11	2855	0.13	1.68	0.6	403
	13:45	4.11	2852	0.13	1.7	0.6	403
	14:00	4.13	2866	0.13	1.71	0.6	403
	14:15	4.14	2872	0.13	1.73	0.6	404

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	14:30	4.06	2818	0.14	1.74	0.6	403
	14:45	4.01	2785	0.14	1.75	0.61	405
	15:00	4.2	2913	0.14	1.76	0.61	406
	15:15	4.24	2944	0.14	1.76	0.61	407
	15:30	4.13	2863	0.16	1.79	0.6	403
	15:45	4.1	2845	0.16	1.8	0.6	403
	16:00	4.11	2852	0.17	1.81	0.6	404
	16:15	4.21	2923	0.15	1.82	0.6	405
	16:30	4.29	2979	0.14	1.84	0.6	404
	16:45	4.19	2904	0.12	1.85	0.6	404
	17:00	4.26	2957	0.12	1.86	0.6	404
	17:15	4.28	2972	0.11	1.87	0.6	404
	17:30	4.18	2900	0.12	1.89	0.6	403
	17:45	4.08	2829	0.12	1.9	0.6	403
	18:00	4.19	2906	0.13	1.91	0.6	404
	18:15	4.21	2921	0.13	1.93	0.6	403
	18:30	3.97	2756	0.16	1.94	0.6	403
	18:45	4.13	2866	0.16	1.95	0.6	403
	19:00	4.12	2859	0.17	1.97	0.6	404
	19:15	4.27	2965	0.17	1.98	0.6	403
	19:30	4.15	2881	0.15	1.99	0.61	405
	19:45	4.24	2940	0.13	2	0.61	406
	20:00	4.05	2809	0.13	2.02	0.61	405
	20:15	4.19	2909	0.12	2.03	0.61	406
	20:30	4.12	2861	0.11	2.04	0.6	404
	20:45	4.13	2866	0.11	2.05	0.61	406
	21:00	4.22	2930	0.11	2.06	0.61	406
	21:15	4.18	2903	0.1	2.06	0.61	405
	21:30	4.18	2898	0.11	2.07	0.61	405
	21:45	4.14	2872	0.11	2.08	0.61	405
	22:00	4.14	2872	0.12	2.08	0.61	405
	22:15	4.14	2872	0.13	2.08	0.61	405
	22:30	4.14	2872	0.13	2.08	0.61	405
	22:45	4.14	2872	0.14	2.08	0.61	405
	23:00	4.14	2872	0.15	2.08	0.61	405

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	23:15	4.14	2872	0.16	2.08	0.61	405
	23:30	4.14	2872	0.15	2.08	0.61	405
	23:45	4.14	2872	0.15	2.08	0.61	405
2/19/2014	0:00	4.14	2872	0.14	2.08	0.61	405
	0:15	4.14	2872	0.15	2.08	0.61	405
	0:30	4.14	2872	0.15	2.08	0.61	405
	0:45	4.14	2872	0.16	2.08	0.61	405
	1:00	4.14	2872	0.17	2.08	0.61	405
	1:15	4.14	2872	0.16	2.08	0.61	405
	1:30	4.14	2872	0.16	2.08	0.61	405
	1:45	4.14	2872	0.16	2.08	0.61	405
	2:00	4.14	2872	0.15	2.08	0.61	405
	2:15	4.14	2872	0.15	2.08	0.61	405
	2:30	4.14	2872	0.15	2.08	0.61	405
	2:45	4.14	2872	0.15	2.08	0.61	405
	3:00	4.14	2872	0.16	2.08	0.61	405
	3:15	4.14	2872	0.16	2.08	0.61	405
	3:30	4.14	2872	0.14	2.08	0.61	405
	3:45	4.14	2872	0.14	2.08	0.61	405
	4:00	4.14	2872	0.14	2.08	0.61	405
	4:15	4.14	2872	0.15	2.08	0.61	405
	4:30	4.14	2872	0.15	2.08	0.61	405
	4:45	4.14	2872	0.15	2.08	0.61	405
	5:00	4.14	2872	0.13	2.08	0.61	405
	5:15	4.14	2872	0.13	2.08	0.61	405
	5:30	4.14	2872	0.13	2.08	0.61	405
	5:45	4.14	2872	0.13	2.08	0.61	405
	6:00	4.14	2872	0.13	2.08	0.61	405
	6:15	4.14	2872	0.12	2.08	0.61	405
	6:30	4.14	2872	0.11	2.08	0.61	405
	6:45	4.14	2872	0.11	2.08	0.61	405
	7:00	4.14	2872	0.11	2.08	0.61	405
	7:15	4.14	2872	0.11	2.08	0.61	405
	7:30	4.14	2872	0.12	2.08	0.61	405
	7:45	4.14	2872	0.12	2.08	0.61	405

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	8:00	4.14	2872	0.12	2.08	0.61	405
	8:15	4.14	2872	0.13	2.08	0.61	405
	8:30	4.14	2872	0.14	2.08	0.61	405
	8:45	4.14	2872	0.15	2.08	0.61	405
	9:00	4.14	2872	0.15	2.08	0.61	405
	9:15	4.14	2872	0.13	2.08	0.61	405
	9:30	4.14	2872	0.12	2.08	0.61	405
	9:45	4.14	2872	0.11	2.08	0.61	405
	10:00	4.14	2872	0.12	2.08	0.61	405
	10:15	4.14	2872	0.13	2.08	0.61	405
	10:30	4.14	2872	0.12	2.08	0.61	405
	10:45	4.14	2872	0.13	2.08	0.61	405
	11:00	4.14	2872	0.14	2.08	0.61	405
	11:15	4.14	2872	0.14	2.08	0.61	405
	11:30	4.14	2872	0.15	2.08	0.61	405
	11:45	4.14	2872	0.14	2.08	0.61	405
	12:00	4.14	2872	0.13	2.08	0.61	405
	12:15	4.17	2893	0.11	1.75	0.59	396
	12:30	4.01	2779	0.12	1.74	0.59	397
	12:45	4.08	2829	0.12	1.73	0.6	399
	13:00	4.08	2833	0.12	1.71	0.59	398
	13:15	3.95	2738	0.12	1.7	0.59	397
	13:30	4.07	2827	0.12	1.69	0.59	395
	13:45	4.23	2938	0.13	1.68	0.59	396
	14:00	4.11	2852	0.13	1.67	0.59	397
	14:15	4.2	2917	0.14	1.65	0.59	396
	14:30	4.2	2915	0.15	1.64	0.59	397
	14:45	4.04	2800	0.16	1.63	0.59	395
	15:00	4.2	2917	0.14	1.62	0.59	395
	15:15	4.18	2899	0.13	1.6	0.59	394
	15:30	4.11	2851	0.12	1.58	0.59	395
	15:45	4.13	2865	0.12	1.57	0.59	393
	16:00	4.14	2872	0.13	1.55	0.59	395
	16:15	4.23	2935	0.12	1.54	0.59	393
	16:30	4.19	2907	0.12	1.53	0.59	392

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	16:45	4.3	2984	0.13	1.51	0.58	390
	17:00	4.22	2927	0.15	1.49	0.58	391
	17:15	4.39	3045	0.15	1.47	0.58	389
	17:30	4.21	2921	0.16	1.45	0.58	389
	17:45	4.27	2966	0.17	1.43	0.58	388
	18:00	4.28	2970	0.17	1.41	0.58	389
	18:15	4.23	2938	0.18	1.4	0.58	388
	18:30	4.2	2913	0.18	1.38	0.58	386
	18:45	4.19	2907	0.16	1.36	0.58	387
	19:00	4.17	2891	0.15	1.34	0.58	385
	19:15	4.24	2943	0.15	1.32	0.58	387
	19:30	4.12	2861	0.16	1.3	0.58	386
	19:45	4.14	2870	0.17	1.29	0.58	385
	20:00	4.13	2865	0.18	1.27	0.58	385
	20:15	4.15	2880	0.18	1.25	0.58	386
	20:30	4.21	2921	0.16	1.23	0.57	385
	20:45	4.23	2934	0.14	1.22	0.58	386
	21:00	4.19	2909	0.13	1.2	0.58	386
	21:15	4.17	2894	0.13	1.18	0.57	383
	21:30	4.19	2908	0.12	1.17	0.57	383
	21:45	4.16	2884	0.12	1.15	0.57	383
	22:00	4.2	2913	0.11	1.14	0.57	384
	22:15	4.29	2974	0.11	1.13	0.57	383
	22:30	4.2	2914	0.12	1.12	0.57	383
	22:45	4.19	2906	0.12	1.11	0.57	384
	23:00	4.24	2943	0.14	1.1	0.57	383
	23:15	4.24	2945	0.14	1.09	0.57	384
	23:30	4.25	2946	0.16	1.08	0.57	383
	23:45	4.21	2924	0.16	1.07	0.57	383
2/20/2014	0:00	4.22	2931	0.18	1.06	0.57	384
	0:15	4.22	2931	0.17	1.05	0.57	383
	0:30	4.31	2993	0.16	1.05	0.57	380
	0:45	4.18	2897	0.13	1.03	0.57	381
	1:00	4.2	2916	0.12	1.03	0.57	380
	1:15	4.16	2885	0.12	1.02	0.57	380

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	1:30	4.24	2943	0.11	1.01	0.57	383
	1:45	4.19	2904	0.1	1.01	0.57	381
	2:00	4.19	2910	0.11	1	0.57	383
	2:15	4.17	2891	0.11	0.99	0.57	382
	2:30	4.16	2884	0.11	0.99	0.57	384
	2:45	4.15	2882	0.12	0.98	0.57	383
	3:00	4.16	2887	0.13	0.97	0.57	383
	3:15	4.08	2833	0.14	0.97	0.57	383
	3:30	4.1	2847	0.14	0.96	0.57	383
	3:45	4.06	2820	0.15	0.96	0.57	383
	4:00	4.19	2904	0.14	0.95	0.57	383
	4:15	4.16	2884	0.13	0.95	0.57	381
	4:30	4.06	2819	0.14	0.94	0.57	382
	4:45	4.15	2880	0.13	0.93	0.57	382
	5:00	3.9	2709	0.15	0.93	0.57	383
	5:15	4.05	2813	0.15	0.92	0.57	380
	5:30	4.08	2832	0.16	0.92	0.57	380
	5:45	4.1	2843	0.17	0.92	0.57	381
	6:00	4.14	2873	0.16	0.91	0.57	382
	6:15	4.06	2815	0.14	0.91	0.57	380
	6:30	4.05	2808	0.12	0.9	0.57	381
	6:45	4.04	2801	0.11	0.9	0.57	381
	7:00	4.08	2828	0.11	0.89	0.57	381
	7:15	4.05	2811	0.11	0.88	0.57	380
	7:30	4.07	2827	0.12	0.88	0.57	379
	7:45	4.18	2897	0.13	0.88	0.57	381
	8:00	3.92	2721	0.14	0.87	0.57	381
	8:15	4.06	2819	0.15	0.87	0.57	382
	8:30	4.06	2815	0.16	0.86	0.57	379
	8:45	4.18	2898	0.15	0.86	0.57	381
	9:00	3.87	2686	0.15	0.86	0.57	380
	9:15	8.72	6052	0.15	0.85	0.57	380
	9:30	2.8	1941	0.15	0.85	0.57	381
	9:45	2.81	1947	0.15	0.84	0.56	377
	10:00	2.97	2063	0.15	0.84	0.57	381

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	10:15	2.98	2065	0.15	0.84	0.57	381
	10:30	3.65	2530	0.16	0.83	0.57	381
	10:45	3.63	2520	0.16	0.83	0.56	378
	11:00	3.9	2703	0.16	0.83	0.57	381
	11:15	4.01	2783	0.14	0.82	0.57	380
	11:30	3.75	2605	0.13	0.82	0.57	379
	11:45	3.84	2665	0.13	0.82	0.56	378
	12:00	4.07	2827	0.14	0.81	0.56	377
	12:15	3.91	2716	0.14	0.81	0.56	377
	12:30	4.07	2822	0.13	0.81	0.57	379
	12:45	4.05	2809	0.13	0.81	0.57	379
	13:00	3.73	2585	0.13	0.8	0.57	379
	13:15	3.85	2669	0.14	0.8	0.57	379
	13:30	3.9	2703	0.15	0.8	0.56	378
	13:45	4.27	2962	0.15	0.8	0.57	379
	14:00	4.06	2819	0.13	0.8	0.57	379
	14:15	3.98	2764	0.12	0.79	0.56	377
	14:30	3.93	2726	0.11	0.79	0.56	377
	14:45	4.12	2857	0.11	0.79	0.56	377
	15:00	3.87	2686	0.11	0.79	0.56	376
	15:15	4.1	2847	0.11	0.78	0.56	376
	15:30	4.04	2804	0.11	0.78	0.56	376
	15:45	4.05	2811	0.11	0.78	0.56	377
	16:00	3.95	2743	0.12	0.77	0.56	374
	16:15	4.03	2800	0.13	0.77	0.56	374
	16:30	3.85	2671	0.13	0.77	0.56	376
	16:45	4.02	2788	0.12	0.77	0.56	374
	17:00	4.11	2851	0.12	0.76	0.56	375
	17:15	4.14	2871	0.12	0.76	0.56	373
	17:30	4.09	2838	0.12	0.76	0.56	374
	17:45	3.95	2739	0.13	0.76	0.56	374
	18:00	3.9	2704	0.14	0.76	0.56	374
	18:15	3.9	2705	0.15	0.76	0.56	373
	18:30	3.92	2718	0.16	0.76	0.56	373
	18:45	3.93	2730	0.16	0.76	0.56	373

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	19:00	3.88	2693	0.16	0.76	0.56	373
	19:15	3.88	2689	0.14	0.75	0.55	371
	19:30	3.92	2723	0.12	0.75	0.56	373
	19:45	3.92	2720	0.11	0.75	0.56	373
	20:00	3.89	2699	0.11	0.75	0.56	372
	20:15	3.96	2745	0.11	0.75	0.55	371
	20:30	3.88	2693	0.13	0.75	0.56	373
	20:45	3.85	2673	0.14	0.74	0.55	371
	21:00	3.79	2632	0.14	0.74	0.55	371
	21:15	3.91	2716	0.14	0.74	0.56	372
	21:30	3.84	2665	0.16	0.74	0.55	371
	21:45	3.92	2719	0.16	0.74	0.55	371
	22:00	3.96	2748	0.15	0.73	0.55	371
	22:15	2.98	2069	0.15	0.73	0.55	369
	22:30	2.91	2017	0.15	0.73	0.56	373
	22:45	2.98	2065	0.13	0.73	0.56	372
	23:00	4.08	2833	0.12	0.73	0.56	373
	23:15	-0	-8.3	0.13	0.73	0.56	373
	23:30	-0	-7.6	0.12	0.72	0.56	374
	23:45	-0	-8.3	0.14	0.73	0.56	372
2/21/2014	0:00	0.16	112	0.13	0.72	0.56	372
	0:15	0.05	32.6	0.13	0.72	0.55	371
	0:30	0.07	50	0.13	0.71	0.56	373
	0:45	0	1.39	0.14	0.71	0.56	373
	1:00	0.06	43.7	0.14	0.71	0.55	370
	1:15	-0	-6.9	0.14	0.71	0.55	371
	1:30	3.89	2701	0.14	0.71	0.55	369
	1:45	3.92	2717	0.14	0.71	0.55	369
	2:00	3.92	2720	0.14	0.7	0.55	368
	2:15	3.9	2706	0.14	0.7	0.55	367
	2:30	3.99	2769	0.14	0.7	0.55	370
	2:45	4.07	2822	0.15	0.69	0.55	367
	3:00	3.86	2676	0.15	0.69	0.55	370
	3:15	3.86	2681	0.15	0.69	0.55	370
	3:30	3.91	2711	0.14	0.69	0.55	368

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	3:45	3.88	2689	0.14	0.69	0.55	370
	4:00	3.9	2709	0.14	0.69	0.55	366
	4:15	3.87	2684	0.13	0.69	0.55	369
	4:30	3.85	2670	0.14	0.68	0.55	368
	4:45	3.87	2682	0.14	0.68	0.55	368
	5:00	3.91	2711	0.15	0.68	0.55	369
	5:15	3.77	2618	0.15	0.68	0.55	366
	5:30	3.87	2684	0.14	0.68	0.55	365
	5:45	3.86	2680	0.13	0.68	0.55	369
	6:00	3.85	2671	0.12	0.67	0.55	369
	6:15	3.86	2681	0.13	0.67	0.55	367
	6:30	3.96	2746	0.12	0.67	0.55	370
	6:45	3.83	2661	0.12	0.67	0.55	369
	7:00	3.87	2682	0.12	0.67	0.55	366
	7:15	3.92	2720	0.12	0.67	0.55	369
	7:30	3.88	2693	0.13	0.66	0.55	366
	7:45	3.86	2679	0.14	0.66	0.55	366
	8:00	3.82	2651	0.15	0.66	0.55	366
	8:15	3.85	2672	0.14	0.66	0.55	366
	8:30	3.89	2697	0.13	0.66	0.55	366
	8:45	3.81	2643	0.13	0.66	0.55	368
	9:00	3.86	2679	0.12	0.66	0.55	366
	9:15	3.88	2693	0.13	0.65	0.55	367
	9:30	4.09	2838	0.13	0.65	0.55	366
	9:45	4.01	2784	0.13	0.65	0.55	365
	10:00	3.92	2717	0.13	0.65	0.55	367
	10:15	3.99	2766	0.13	0.65	0.55	366
	10:30	3.9	2709	0.13	0.65	0.55	366
	10:45	4.03	2797	0.14	0.65	0.55	368
	11:00	4.07	2823	0.14	0.65	0.55	367
	11:15	4	2773	0.15	0.65	0.55	365
	11:30	4.86	3373	0.16	0.64	0.55	366
	11:45	3.71	2573	0.17	0.64	0.55	365
	12:00	4.1	2844	0.16	0.64	0.55	365
	12:15	3.14	2176	0.17	0.64	0.55	366

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	12:30	3.12	2164	0.18	0.64	0.55	365
	12:45	3.25	2255	0.17	0.64	0.55	366
	13:00	3.34	2319	0.17	0.64	0.55	365
	13:15	3.68	2553	0.15	0.64	0.54	364
	13:30	3.13	2173	0.13	0.64	0.54	363
	13:45	4.2	2914	0.12	0.64	0.54	364
	14:00	4.34	3013	0.12	0.64	0.55	366
	14:15	4.65	3228	0.14	0.63	0.54	364
	14:30	3.22	2237	0.15	0.63	0.54	363
	14:45	4.41	3057	0.15	0.63	0.55	365
	15:00	4.87	3382	0.16	0.63	0.54	363
	15:15	3.62	2510	0.16	0.63	0.54	364
	15:30	5.35	3710	0.15	0.63	0.54	363
	15:45	3.4	2358	0.15	0.63	0.55	366
	16:00	4.69	3257	0.15	0.63	0.54	364
	16:15	3.11	2161	0.15	0.63	0.55	365
	16:30	4.71	3266	0.16	0.63	0.55	365
	16:45	3.84	2665	0.17	0.62	0.55	367
	17:00	4.45	3086	0.18	0.62	0.54	364
	17:15	4.53	3147	0.18	0.62	0.55	367
	17:30	4.27	2966	0.18	0.62	0.54	364
	17:45	4.49	3114	0.18	0.62	0.54	364
	18:00	4.3	2986	0.16	0.62	0.55	366
	18:15	4.08	2830	0.14	0.62	0.55	366
	18:30	3.12	2168	0.12	0.61	0.55	366
	18:45	3.01	2087	0.12	0.61	0.55	366
	19:00	3.01	2090	0.13	0.61	0.54	364
	19:15	3.98	2765	0.14	0.61	0.54	364
	19:30	3.84	2661	0.15	0.61	0.54	364
	19:45	4.07	2822	0.15	0.61	0.55	365
	20:00	3.95	2741	0.15	0.61	0.55	366
	20:15	4.06	2815	0.13	0.6	0.55	366
	20:30	3.84	2666	0.12	0.6	0.55	366
	20:45	3.93	2724	0.13	0.6	0.54	363
	21:00	3.93	2724	0.12	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	21:15	3.93	2724	0.12	0.6	0.54	363
	21:30	3.93	2724	0.12	0.6	0.54	363
	21:45	3.93	2724	0.12	0.6	0.54	363
	22:00	3.93	2724	0.12	0.6	0.54	363
	22:15	3.93	2724	0.12	0.6	0.54	363
	22:30	3.93	2724	0.13	0.6	0.54	363
	22:45	3.93	2724	0.13	0.6	0.54	363
	23:00	3.93	2724	0.14	0.6	0.54	363
	23:15	3.93	2724	0.13	0.6	0.54	363
	23:30	3.93	2724	0.13	0.6	0.54	363
	23:45	3.93	2724	0.13	0.6	0.54	363
2/22/2014	0:00	3.93	2724	0.15	0.6	0.54	363
	0:15	3.93	2724	0.15	0.6	0.54	363
	0:30	3.93	2724	0.16	0.6	0.54	363
	0:45	3.93	2724	0.17	0.6	0.54	363
	1:00	3.93	2724	0.15	0.6	0.54	363
	1:15	3.93	2724	0.13	0.6	0.54	363
	1:30	3.93	2724	0.12	0.6	0.54	363
	1:45	3.93	2724	0.12	0.6	0.54	363
	2:00	3.93	2724	0.13	0.6	0.54	363
	2:15	3.93	2724	0.13	0.6	0.54	363
	2:30	3.93	2724	0.14	0.6	0.54	363
	2:45	3.93	2724	0.15	0.6	0.54	363
	3:00	3.93	2724	0.15	0.6	0.54	363
	3:15	3.93	2724	0.14	0.6	0.54	363
	3:30	3.93	2724	0.13	0.6	0.54	363
	3:45	3.93	2724	0.13	0.6	0.54	363
	4:00	3.93	2724	0.15	0.6	0.54	363
	4:15	3.93	2724	0.16	0.6	0.54	363
	4:30	3.93	2724	0.17	0.6	0.54	363
	4:45	3.93	2724	0.17	0.6	0.54	363
	5:00	3.93	2724	0.16	0.6	0.54	363
	5:15	3.93	2724	0.16	0.6	0.54	363
	5:30	3.93	2724	0.15	0.6	0.54	363
	5:45	3.93	2724	0.15	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	6:00	3.93	2724	0.15	0.6	0.54	363
	6:15	3.93	2724	0.14	0.6	0.54	363
	6:30	3.93	2724	0.15	0.6	0.54	363
	6:45	3.93	2724	0.15	0.6	0.54	363
	7:00	3.93	2724	0.16	0.6	0.54	363
	7:15	3.93	2724	0.17	0.6	0.54	363
	7:30	3.93	2724	0.18	0.6	0.54	363
	7:45	3.93	2724	0.17	0.6	0.54	363
	8:00	3.93	2724	0.16	0.6	0.54	363
	8:15	3.93	2724	0.15	0.6	0.54	363
	8:30	3.93	2724	0.14	0.6	0.54	363
	8:45	3.93	2724	0.15	0.6	0.54	363
	9:00	3.93	2724	0.15	0.6	0.54	363
	9:15	3.93	2724	0.16	0.6	0.54	363
	9:30	3.93	2724	0.16	0.6	0.54	363
	9:45	3.93	2724	0.15	0.6	0.54	363
	10:00	3.93	2724	0.14	0.6	0.54	363
	10:15	3.93	2724	0.15	0.6	0.54	363
	10:30	3.93	2724	0.15	0.6	0.54	363
	10:45	3.93	2724	0.16	0.6	0.54	363
	11:00	3.93	2724	0.17	0.6	0.54	363
	11:15	3.93	2724	0.17	0.6	0.54	363
	11:30	3.93	2724	0.18	0.6	0.54	363
	11:45	3.93	2724	0.19	0.6	0.54	363
	12:00	3.93	2724	0.18	0.6	0.54	363
	12:15	3.93	2724	0.19	0.6	0.54	363
	12:30	3.93	2724	0.18	0.6	0.54	363
	12:45	3.93	2724	0.18	0.6	0.54	363
	13:00	3.93	2724	0.18	0.6	0.54	363
	13:15	3.93	2724	0.19	0.6	0.54	363
	13:30	3.93	2724	0.2	0.6	0.54	363
	13:45	3.93	2724	0.2	0.6	0.54	363
	14:00	3.93	2724	0.17	0.6	0.54	363
	14:15	3.93	2724	0.15	0.6	0.54	363
	14:30	3.93	2724	0.14	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	14:45	3.93	2724	0.15	0.6	0.54	363
	15:00	3.93	2724	0.16	0.6	0.54	363
	15:15	3.93	2724	0.17	0.6	0.54	363
	15:30	3.93	2724	0.19	0.6	0.54	363
	15:45	3.93	2724	0.2	0.6	0.54	363
	16:00	3.93	2724	0.21	0.6	0.54	363
	16:15	3.93	2724	0.2	0.6	0.54	363
	16:30	3.93	2724	0.19	0.6	0.54	363
	16:45	3.93	2724	0.18	0.6	0.54	363
	17:00	3.93	2724	0.17	0.6	0.54	363
	17:15	3.93	2724	0.17	0.6	0.54	363
	17:30	3.93	2724	0.18	0.6	0.54	363
	17:45	3.93	2724	0.18	0.6	0.54	363
	18:00	3.93	2724	0.18	0.6	0.54	363
	18:15	3.93	2724	0.17	0.6	0.54	363
	18:30	3.93	2724	0.16	0.6	0.54	363
	18:45	3.93	2724	0.16	0.6	0.54	363
	19:00	3.93	2724	0.16	0.6	0.54	363
	19:15	3.93	2724	0.16	0.6	0.54	363
	19:30	3.93	2724	0.17	0.6	0.54	363
	19:45	3.93	2724	0.18	0.6	0.54	363
	20:00	3.93	2724	0.18	0.6	0.54	363
	20:15	3.93	2724	0.16	0.6	0.54	363
	20:30	3.93	2724	0.14	0.6	0.54	363
	20:45	3.93	2724	0.12	0.6	0.54	363
	21:00	3.93	2724	0.12	0.6	0.54	363
	21:15	3.93	2724	0.12	0.6	0.54	363
	21:30	3.93	2724	0.13	0.6	0.54	363
	21:45	3.93	2724	0.13	0.6	0.54	363
	22:00	3.93	2724	0.13	0.6	0.54	363
	22:15	3.93	2724	0.14	0.6	0.54	363
	22:30	3.93	2724	0.14	0.6	0.54	363
	22:45	3.93	2724	0.14	0.6	0.54	363
	23:00	3.93	2724	0.13	0.6	0.54	363
	23:15	3.93	2724	0.12	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
2/23/2014	23:30	3.93	2724	0.12	0.6	0.54	363
	23:45	3.93	2724	0.13	0.6	0.54	363
	0:00	3.93	2724	0.14	0.6	0.54	363
	0:15	3.93	2724	0.15	0.6	0.54	363
	0:30	3.93	2724	0.17	0.6	0.54	363
	0:45	3.93	2724	0.18	0.6	0.54	363
	1:00	3.93	2724	0.18	0.6	0.54	363
	1:15	3.93	2724	0.15	0.6	0.54	363
	1:30	3.93	2724	0.13	0.6	0.54	363
	1:45	3.93	2724	0.13	0.6	0.54	363
	2:00	3.93	2724	0.13	0.6	0.54	363
	2:15	3.93	2724	0.13	0.6	0.54	363
	2:30	3.93	2724	0.13	0.6	0.54	363
	2:45	3.93	2724	0.12	0.6	0.54	363
	3:00	3.93	2724	0.13	0.6	0.54	363
	3:15	3.93	2724	0.13	0.6	0.54	363
	3:30	3.93	2724	0.12	0.6	0.54	363
	3:45	3.93	2724	0.13	0.6	0.54	363
	4:00	3.93	2724	0.13	0.6	0.54	363
	4:15	3.93	2724	0.13	0.6	0.54	363
	4:30	3.93	2724	0.13	0.6	0.54	363
	4:45	3.93	2724	0.13	0.6	0.54	363
	5:00	3.93	2724	0.13	0.6	0.54	363
	5:15	3.93	2724	0.12	0.6	0.54	363
	5:30	3.93	2724	0.13	0.6	0.54	363
	5:45	3.93	2724	0.12	0.6	0.54	363
	6:00	3.93	2724	0.12	0.6	0.54	363
	6:15	3.93	2724	0.12	0.6	0.54	363
	6:30	3.93	2724	0.12	0.6	0.54	363
	6:45	3.93	2724	0.12	0.6	0.54	363
	7:00	3.93	2724	0.12	0.6	0.54	363
	7:15	3.93	2724	0.12	0.6	0.54	363
	7:30	3.93	2724	0.12	0.6	0.54	363
	7:45	3.93	2724	0.12	0.6	0.54	363
	8:00	3.93	2724	0.12	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	8:15	3.93	2724	0.11	0.6	0.54	363
	8:30	3.93	2724	0.11	0.6	0.54	363
	8:45	3.93	2724	0.12	0.6	0.54	363
	9:00	3.93	2724	0.11	0.6	0.54	363
	9:15	3.93	2724	0.11	0.6	0.54	363
	9:30	3.93	2724	0.11	0.6	0.54	363
	9:45	3.93	2724	0.11	0.6	0.54	363
	10:00	3.93	2724	0.11	0.6	0.54	363
	10:15	3.93	2724	0.11	0.6	0.54	363
	10:30	3.93	2724	0.11	0.6	0.54	363
	10:45	3.93	2724	0.11	0.6	0.54	363
	11:00	3.93	2724	0.11	0.6	0.54	363
	11:15	3.93	2724	0.11	0.6	0.54	363
	11:30	3.93	2724	0.11	0.6	0.54	363
	11:45	3.93	2724	0.11	0.6	0.54	363
	12:00	3.93	2724	0.11	0.6	0.54	363
	12:15	3.93	2724	0.11	0.6	0.54	363
	12:30	3.93	2724	0.11	0.6	0.54	363
	12:45	3.93	2724	0.11	0.6	0.54	363
	13:00	3.93	2724	0.11	0.6	0.54	363
	13:15	3.93	2724	0.11	0.6	0.54	363
	13:30	3.93	2724	0.11	0.6	0.54	363
	13:45	3.93	2724	0.11	0.6	0.54	363
	14:00	3.93	2724	0.11	0.6	0.54	363
	14:15	3.93	2724	0.11	0.6	0.54	363
	14:30	3.93	2724	0.11	0.6	0.54	363
	14:45	3.93	2724	0.11	0.6	0.54	363
	15:00	3.93	2724	0.11	0.6	0.54	363
	15:15	3.93	2724	0.11	0.6	0.54	363
	15:30	3.93	2724	0.11	0.6	0.54	363
	15:45	3.93	2724	0.11	0.6	0.54	363
	16:00	3.93	2724	0.11	0.6	0.54	363
	16:15	3.93	2724	0.11	0.6	0.54	363
	16:30	3.93	2724	0.11	0.6	0.54	363
	16:45	3.93	2724	0.11	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	17:00	3.93	2724	0.11	0.6	0.54	363
	17:15	3.93	2724	0.11	0.6	0.54	363
	17:30	3.93	2724	0.11	0.6	0.54	363
	17:45	3.93	2724	0.11	0.6	0.54	363
	18:00	3.93	2724	0.11	0.6	0.54	363
	18:15	3.93	2724	0.11	0.6	0.54	363
	18:30	3.93	2724	0.11	0.6	0.54	363
	18:45	3.93	2724	0.11	0.6	0.54	363
	19:00	3.93	2724	0.11	0.6	0.54	363
	19:15	3.93	2724	0.11	0.6	0.54	363
	19:30	3.93	2724	0.11	0.6	0.54	363
	19:45	3.93	2724	0.11	0.6	0.54	363
	20:00	3.93	2724	0.11	0.6	0.54	363
	20:15	3.93	2724	0.11	0.6	0.54	363
	20:30	3.93	2724	0.11	0.6	0.54	363
	20:45	3.93	2724	0.11	0.6	0.54	363
	21:00	3.93	2724	0.11	0.6	0.54	363
	21:15	3.93	2724	0.11	0.6	0.54	363
	21:30	3.93	2724	0.11	0.6	0.54	363
	21:45	3.93	2724	0.11	0.6	0.54	363
	22:00	3.93	2724	0.11	0.6	0.54	363
	22:15	3.93	2724	0.11	0.6	0.54	363
	22:30	3.93	2724	0.11	0.6	0.54	363
	22:45	3.93	2724	0.11	0.6	0.54	363
	23:00	3.93	2724	0.11	0.6	0.54	363
	23:15	3.93	2724	0.11	0.6	0.54	363
	23:30	3.93	2724	0.11	0.6	0.54	363
	23:45	3.93	2724	0.11	0.6	0.54	363
2/24/2014	0:00	3.93	2724	0.11	0.6	0.54	363
	0:15	3.93	2724	0.11	0.6	0.54	363
	0:30	3.93	2724	0.11	0.6	0.54	363
	0:45	3.93	2724	0.11	0.6	0.54	363
	1:00	3.93	2724	0.11	0.6	0.54	363
	1:15	3.93	2724	0.11	0.6	0.54	363
	1:30	3.93	2724	0.11	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	1:45	3.93	2724	0.11	0.6	0.54	363
	2:00	3.93	2724	0.11	0.6	0.54	363
	2:15	3.93	2724	0.11	0.6	0.54	363
	2:30	3.93	2724	0.11	0.6	0.54	363
	2:45	3.93	2724	0.11	0.6	0.54	363
	3:00	3.93	2724	0.11	0.6	0.54	363
	3:15	3.93	2724	0.11	0.6	0.54	363
	3:30	3.93	2724	0.11	0.6	0.54	363
	3:45	3.93	2724	0.11	0.6	0.54	363
	4:00	3.93	2724	0.11	0.6	0.54	363
	4:15	3.93	2724	0.11	0.6	0.54	363
	4:30	3.93	2724	0.11	0.6	0.54	363
	4:45	3.93	2724	0.11	0.6	0.54	363
	5:00	3.93	2724	0.11	0.6	0.54	363
	5:15	3.93	2724	0.11	0.6	0.54	363
	5:30	3.93	2724	0.11	0.6	0.54	363
	5:45	3.93	2724	0.11	0.6	0.54	363
	6:00	3.93	2724	0.11	0.6	0.54	363
	6:15	3.93	2724	0.11	0.6	0.54	363
	6:30	3.93	2724	0.11	0.6	0.54	363
	6:45	3.93	2724	0.11	0.6	0.54	363
	7:00	3.93	2724	0.11	0.6	0.54	363
	7:15	3.93	2724	0.11	0.6	0.54	363
	7:30	3.93	2724	0.11	0.6	0.54	363
	7:45	3.93	2724	0.11	0.6	0.54	363
	8:00	3.93	2724	0.11	0.6	0.54	363
	8:15	3.93	2724	0.11	0.6	0.54	363
	8:30	3.93	2724	0.11	0.6	0.54	363
	8:45	3.93	2724	0.11	0.6	0.54	363
	9:00	3.93	2724	0.11	0.6	0.54	363
	9:15	3.93	2724	0.11	0.6	0.54	363
	9:30	3.93	2724	0.11	0.6	0.54	363
	9:45	3.93	2724	0.11	0.6	0.54	363
	10:00	3.93	2724	0.11	0.6	0.54	363
	10:15	3.93	2724	0.11	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	10:30	3.93	2724	0.11	0.6	0.54	363
	10:45	3.93	2724	0.11	0.6	0.54	363
	11:00	3.93	2724	0.11	0.6	0.54	363
	11:15	3.93	2724	0.11	0.6	0.54	363
	11:30	3.93	2724	0.11	0.6	0.54	363
	11:45	3.93	2724	0.11	0.6	0.54	363
	12:00	3.93	2724	0.11	0.6	0.54	363
	12:15	3.93	2724	0.11	0.6	0.54	363
	12:30	3.93	2724	0.11	0.6	0.54	363
	12:45	3.93	2724	0.11	0.6	0.54	363
	13:00	3.93	2724	0.11	0.6	0.54	363
	13:15	3.93	2724	0.11	0.6	0.54	363
	13:30	3.93	2724	0.11	0.6	0.54	363
	13:45	3.93	2724	0.11	0.6	0.54	363
	14:00	3.93	2724	0.11	0.6	0.54	363
	14:15	3.93	2724	0.11	0.6	0.54	363
	14:30	3.93	2724	0.11	0.6	0.54	363
	14:45	3.93	2724	0.11	0.6	0.54	363
	15:00	3.93	2724	0.11	0.6	0.54	363
	15:15	3.93	2724	0.11	0.6	0.54	363
	15:30	3.93	2724	0.11	0.6	0.54	363
	15:45	3.93	2724	0.11	0.6	0.54	363
	16:00	3.93	2724	0.11	0.6	0.54	363
	16:15	3.93	2724	0.11	0.6	0.54	363
	16:30	3.93	2724	0.11	0.6	0.54	363
	16:45	3.93	2724	0.11	0.6	0.54	363
	17:00	3.93	2724	0.11	0.6	0.54	363
	17:15	3.93	2724	0.11	0.6	0.54	363
	17:30	3.93	2724	0.11	0.6	0.54	363
	17:45	3.93	2724	0.11	0.6	0.54	363
	18:00	3.93	2724	0.11	0.6	0.54	363
	18:15	3.93	2724	0.11	0.6	0.54	363
	18:30	3.93	2724	0.11	0.6	0.54	363
	18:45	3.93	2724	0.11	0.6	0.54	363
	19:00	3.93	2724	0.11	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	19:15	3.93	2724	0.11	0.6	0.54	363
	19:30	3.93	2724	0.11	0.6	0.54	363
	19:45	3.93	2724	0.11	0.6	0.54	363
	20:00	3.93	2724	0.11	0.6	0.54	363
	20:15	3.93	2724	0.11	0.6	0.54	363
	20:30	3.93	2724	0.11	0.6	0.54	363
	20:45	3.93	2724	0.11	0.6	0.54	363
	21:00	3.93	2724	0.11	0.6	0.54	363
	21:15	3.93	2724	0.11	0.6	0.54	363
	21:30	3.93	2724	0.11	0.6	0.54	363
	21:45	3.93	2724	0.11	0.6	0.54	363
	22:00	3.93	2724	0.11	0.6	0.54	363
	22:15	3.93	2724	0.11	0.6	0.54	363
	22:30	3.93	2724	0.11	0.6	0.54	363
	22:45	3.93	2724	0.11	0.6	0.54	363
	23:00	3.93	2724	0.1	0.6	0.54	363
	23:15	3.93	2724	0.1	0.6	0.54	363
	23:30	3.93	2724	0.1	0.6	0.54	363
	23:45	3.93	2724	0.11	0.6	0.54	363
2/25/2014	0:00	3.93	2724	0.11	0.6	0.54	363
	0:15	3.93	2724	0.1	0.6	0.54	363
	0:30	3.93	2724	0.11	0.6	0.54	363
	0:45	3.93	2724	0.11	0.6	0.54	363
	1:00	3.93	2724	0.1	0.6	0.54	363
	1:15	3.93	2724	0.11	0.6	0.54	363
	1:30	3.93	2724	0.11	0.6	0.54	363
	1:45	3.93	2724	0.11	0.6	0.54	363
	2:00	3.93	2724	0.1	0.6	0.54	363
	2:15	3.93	2724	0.11	0.6	0.54	363
	2:30	3.93	2724	0.1	0.6	0.54	363
	2:45	3.93	2724	0.11	0.6	0.54	363
	3:00	3.93	2724	0.11	0.6	0.54	363
	3:15	3.93	2724	0.11	0.6	0.54	363
	3:30	3.93	2724	0.11	0.6	0.54	363
	3:45	3.93	2724	0.11	0.6	0.54	363

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	4:00	3.93	2724	0.1	0.6	0.54	363
	4:15	3.93	2724	0.11	0.6	0.54	363
	4:30	3.93	2724	0.11	0.6	0.54	363
	4:45	3.93	2724	0.12	0.6	0.54	363
	5:00	3.93	2724	0.13	0.6	0.54	363
	5:15	3.93	2724	0.12	0.6	0.54	363
	5:30	3.93	2724	0.12	0.6	0.54	363
	5:45	3.93	2724	0.11	0.6	0.54	363
	6:00	3.93	2724	0.11	0.6	0.54	363
	6:15	3.93	2724	0.1	0.6	0.54	363
	6:30	3.93	2724	0.1	0.6	0.54	363
	6:45	3.93	2724	0.1	0.6	0.54	363
	7:00	3.93	2724	0.1	0.6	0.54	363
	7:15	3.93	2724	0.1	0.6	0.54	363
	7:30	3.93	2724	0.11	0.6	0.54	363
	7:45	3.93	2724	0.1	0.6	0.54	363
	8:00	3.93	2724	0.1	0.6	0.54	363
	8:15	3.93	2724	0.1	0.6	0.54	363
	8:30	3.93	2724	0.1	0.6	0.54	363
	8:45	3.93	2724	0.11	0.6	0.54	363
	9:00	3.93	2724	0.11	0.6	0.54	363
	9:15	3.93	2724	0.11	0.6	0.54	363
	9:30	3.93	2724	0.13	0.6	0.54	363
	9:45	3.93	2724	0.09	0.6	0.54	363
	10:00	3.93	2724	0.09	0.6	0.54	363
	10:15	3.93	2724	0.09	0.6	0.54	363
	10:30	3.93	2724	0.09	0.6	0.54	363
	10:45	3.93	2724	0.09	0.6	0.54	363
	11:00	3.93	2724	0.09	0.6	0.54	363
	11:15	3.93	2724	0.09	0.6	0.54	363
	11:30	3.93	2724	0.09	0.6	0.54	363
	11:45	3	2084	0.16	0.84	0.57	379
	12:00	3	2084	0.09	0.84	0.57	379
	12:15	3	2084	0.09	0.84	0.57	379
	12:30	3	2084	0.09	0.84	0.57	379

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	12:45	3	2084	0.09	0.84	0.57	379
	13:00	3	2084	0.09	0.84	0.57	379
	13:15	3	2084	0.09	0.84	0.57	379
	13:30	3	2084	0.09	0.84	0.57	379
	13:45	3	2084	0.09	0.84	0.57	379
	14:00	3	2084	0.09	0.84	0.57	379
	14:15	3	2084	0.09	0.84	0.57	379
	14:30	3	2084	0.09	0.84	0.57	379
	14:45	3	2084	0.09	0.84	0.57	379
	15:00	3	2084	0.09	0.84	0.57	379
	15:15	3	2084	0.09	0.84	0.57	379
	15:30	3	2084	0.09	0.84	0.57	379
	15:45	3	2084	0.09	0.84	0.57	379
	16:00	3	2084	0.09	0.84	0.57	379
	16:15	3	2084	0.09	0.84	0.57	379
	16:30	4.02	2791	0.09	0.55	0.56	374
	16:45	4.14	2872	0.09	0.55	0.56	374
	17:00	4.01	2782	0.09	0.55	0.56	374
	17:15	4.07	2826	0.09	0.55	0.56	375
	17:30	4.06	2816	0.09	0.55	0.56	375
	17:45	4.07	2822	0.09	0.55	0.56	376
	18:00	4.02	2791	0.09	0.55	0.56	374
	18:15	4.03	2797	0.09	0.55	0.56	375
	18:30	4.1	2845	0.09	0.55	0.56	375
	18:45	4.09	2837	0.09	0.55	0.56	376
	19:00	4.08	2829	0.09	0.55	0.56	375
	19:15	4.07	2826	0.09	0.55	0.56	375
	19:30	4.06	2819	0.09	0.55	0.56	374
	19:45	4.08	2832	0.09	0.55	0.56	373
	20:00	4.09	2839	0.09	0.55	0.56	375
	20:15	4.02	2790	0.09	0.55	0.56	375
	20:30	3.98	2763	0.09	0.55	0.56	373
	20:45	4.06	2817	0.09	0.55	0.56	373
	21:00	4.01	2786	0.09	0.55	0.56	373
	21:15	4.27	2961	0.09	0.55	0.56	374

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	21:30	4.1	2846	0.09	0.55	0.56	377
	21:45	4.02	2791	0.09	0.55	0.56	375
	22:00	4.09	2836	0.09	0.55	0.56	375
	22:15	4.16	2884	0.09	0.55	0.56	376
	22:30	4.08	2832	0.09	0.55	0.56	376
	22:45	3.81	2643	0.09	0.55	0.56	375
	23:00	4.22	2929	0.09	0.55	0.56	378
	23:15	4.16	2886	0.09	0.55	0.56	377
	23:30	3.96	2748	0.09	0.55	0.56	375
	23:45	3.93	2726	0.09	0.55	0.56	375
2/26/2014	0:00	4.21	2920	0.09	0.55	0.56	377
	0:15	4.25	2949	0.09	0.55	0.56	377
	0:30	3.96	2750	0.09	0.55	0.57	380
	0:45	3.98	2761	0.09	0.55	0.57	379
	1:00	3.83	2657	0.09	0.55	0.56	378
	1:15	3.93	2727	0.09	0.55	0.57	380
	1:30	4.13	2868	0.09	0.55	0.57	381
	1:45	3.94	2732	0.09	0.55	0.57	381
	2:00	3.79	2629	0.09	0.55	0.57	382
	2:15	3.89	2700	0.1	0.55	0.57	381
	2:30	3.93	2726	0.1	0.55	0.57	382
	2:45	3.91	2711	0.1	0.55	0.57	381
	3:00	3.95	2744	0.09	0.55	0.57	382
	3:15	3.93	2727	0.09	0.55	0.57	381
	3:30	4.14	2874	0.09	0.55	0.57	380
	3:45	3.93	2725	0.09	0.55	0.57	381
	4:00	3.81	2647	0.1	0.55	0.57	379
	4:15	4.08	2833	0.1	0.55	0.57	379
	4:30	3.75	2603	0.1	0.55	0.57	380
	4:45	4.01	2782	0.1	0.55	0.57	383
	5:00	4.05	2813	0.1	0.55	0.57	379
	5:15	3.88	2692	0.1	0.55	0.57	379
	5:30	4.08	2832	0.1	0.55	0.57	380
	5:45	4.23	2934	0.1	0.55	0.57	381
	6:00	0.08	52.7	0.1	0.55	0.57	382

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	6:15	-0	-15	0.1	0.54	0.57	381
	6:30	-0	-1.4	0.1	0.54	0.57	380
	6:45	5.23	3632	0.1	0.54	0.57	383
	7:00	3.46	2402	0.1	0.55	0.57	381
	7:15	3.43	2383	0.1	0.55	0.57	381
	7:30	4.57	3170	0.11	0.55	0.57	382
	7:45	3.73	2588	0.11	0.55	0.57	381
	8:00	3.91	2713	0.11	0.55	0.57	381
	8:15	3.67	2545	0.1	0.54	0.57	379
	8:30	4.56	3161	0.1	0.54	0.57	379
	8:45	3.45	2392	0.1	0.54	0.57	383
	9:00	3.63	2521	0.1	0.54	0.57	382
	9:15	4.76	3301	0.1	0.54	0.57	380
	9:30	3.49	2420	0.1	0.54	0.57	381
	9:45	4.39	3043	0.1	0.54	0.57	381
	10:00	3.7	2566	0.1	0.54	0.57	380
	10:15	4.36	3024	0.1	0.54	0.57	381
	10:30	3	2085	0.1	0.54	0.57	381
	10:45	4.13	2865	0.1	0.54	0.57	380
	11:00	3.89	2700	0.1	0.54	0.57	379
	11:15	4.08	2831	0.1	0.54	0.57	379
	11:30	3.98	2761	0.1	0.53	0.57	379
	11:45	4	2776	0.1	0.53	0.57	379
	12:00	4.01	2784	0.1	0.53	0.57	379
	12:15	3.92	2717	0.1	0.53	0.57	380
	12:30	4.01	2784	0.09	0.53	0.57	379
	12:45	3.93	2728	0.09	0.53	0.57	381
	13:00	3.94	2736	0.09	0.53	0.56	378
	13:15	3.96	2745	0.09	0.53	0.57	380
	13:30	3.95	2741	0.09	0.53	0.57	379
	13:45	3.98	2761	0.09	0.53	0.57	379
	14:00	4.1	2842	0.09	0.53	0.56	378
	14:15	4.04	2802	0.09	0.53	0.56	376
	14:30	4.04	2806	0.09	0.53	0.56	377
	14:45	4.07	2822	0.09	0.53	0.56	376

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	15:00	3.76	2607	0.09	0.53	0.56	378
	15:15	4.05	2809	0.09	0.53	0.56	377
	15:30	4.05	2813	0.09	0.53	0.56	375
	15:45	3.94	2734	0.09	0.53	0.56	377
	16:00	4.09	2838	0.09	0.53	0.56	376
	16:15	4.05	2811	0.09	0.53	0.56	375
	16:30	4.01	2782	0.09	0.53	0.56	374
	16:45	4.09	2836	0.1	0.53	0.56	372
	17:00	4.01	2782	0.1	0.53	0.56	377
	17:15	4.06	2820	0.09	0.52	0.56	378
	17:30	4.02	2790	0.09	0.52	0.56	375
	17:45	4.01	2786	0.1	0.52	0.56	377
	18:00	3.99	2769	0.1	0.52	0.56	377
	18:15	3.96	2745	0.1	0.52	0.56	375
	18:30	3.99	2769	0.1	0.52	0.56	373
	18:45	3.94	2734	0.1	0.52	0.55	371
	19:00	3.98	2762	0.1	0.52	0.56	375
	19:15	3.98	2760	0.09	0.52	0.56	376
	19:30	3.93	2730	0.1	0.52	0.56	378
	19:45	4	2773	0.1	0.52	0.56	373
	20:00	3.51	2437	0.1	0.52	0.56	373
	20:15	4.12	2860	0.09	0.53	0.56	374
	20:30	3.78	2620	0.1	0.53	0.56	375
	20:45	3.92	2719	0.1	0.54	0.56	375
	21:00	3.81	2644	0.1	0.54	0.56	375
	21:15	3.91	2714	0.1	0.54	0.56	378
	21:30	3.91	2716	0.1	0.55	0.57	379
	21:45	3.88	2689	0.1	0.55	0.56	378
	22:00	3.88	2695	0.1	0.55	0.57	380
	22:15	3.94	2736	0.1	0.56	0.56	378
	22:30	3.8	2638	0.1	0.56	0.56	378
	22:45	3.87	2686	0.1	0.56	0.56	376
	23:00	3.9	2705	0.1	0.56	0.57	379
	23:15	3.83	2655	0.1	0.56	0.57	382
	23:30	3.83	2657	0.1	0.57	0.56	377

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	23:45	3.87	2686	0.1	0.58	0.57	379
2/27/2014	0:00	3.9	2704	0.1	0.58	0.56	377
	0:15	3.8	2637	0.1	0.6	0.56	377
	0:30	3.81	2647	0.1	0.61	0.57	381
	0:45	3.86	2678	0.1	0.63	0.57	383
	1:00	3.89	2696	0.1	0.65	0.57	381
	1:15	3.78	2620	0.1	0.66	0.57	381
	1:30	3.86	2677	0.1	0.67	0.57	383
	1:45	3.77	2618	0.1	0.68	0.57	382
	2:00	3.91	2716	0.1	0.69	0.58	387
	2:15	3.8	2636	0.1	0.7	0.58	385
	2:30	3.81	2646	0.1	0.71	0.58	386
	2:45	3.8	2635	0.1	0.72	0.57	383
	3:00	3.86	2675	0.1	0.74	0.58	389
	3:15	3.79	2627	0.1	0.75	0.58	389
	3:30	3.86	2680	0.1	0.77	0.58	391
	3:45	3.82	2654	0.1	0.79	0.58	391
	4:00	3.85	2671	0.1	0.81	0.59	393
	4:15	3.84	2663	0.1	0.83	0.58	391
	4:30	3.84	2664	0.1	0.85	0.58	390
	4:45	3.82	2649	0.1	0.86	0.59	393
	5:00	3.8	2640	0.1	0.88	0.59	393
	5:15	3.89	2698	0.1	0.9	0.59	397
	5:30	3.81	2641	0.1	0.92	0.59	393
	5:45	3.78	2626	0.1	0.94	0.59	397
	6:00	3.81	2646	0.1	0.96	0.59	395
	6:15	3.83	2659	0.1	0.98	0.59	396
	6:30	3.83	2657	0.1	0.99	0.59	394
	6:45	3.81	2647	0.1	1.01	0.59	397
	7:00	3.87	2686	0.1	1.03	0.6	402
	7:15	3.79	2628	0.1	1.04	0.6	401
	7:30	3.85	2672	0.1	1.05	0.59	398
	7:45	3.84	2666	0.1	1.06	0.6	399
	8:00	3.76	2612	0.1	1.07	0.6	399
	8:15	3.87	2682	0.1	1.08	0.59	398

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	8:30	3.81	2641	0.1	1.09	0.59	397
	8:45	3.9	2705	0.1	1.09	0.59	395
	9:00	3.85	2668	0.1	1.08	0.6	401
	9:15	3.85	2672	0.1	1.08	0.6	401
	9:30	3.84	2664	0.1	1.08	0.6	399
	9:45	3.89	2702	0.1	1.07	0.59	397
	10:00	3.83	2657	0.1	1.06	0.6	399
	10:15	3.82	2651	0.1	1.05	0.6	401
	10:30	3.94	2736	0.1	1.05	0.59	397
	10:45	3.86	2680	0.1	1.04	0.6	402
	11:00	3.98	2761	0.1	1.03	0.6	401
	11:15	3.9	2707	0.1	1.02	0.59	396
	11:30	3.97	2753	0.1	1.02	0.6	402
	11:45	3.95	2744	0.1	1.01	0.59	398
	12:00	4.02	2792	0.1	1	0.6	400
	12:15	4.01	2784	0.1	0.99	0.59	397
	12:30	3.94	2735	0.1	0.99	0.6	399
	12:45	4.07	2825	0.1	0.98	0.59	397
	13:00	4.01	2785	0.1	0.97	0.59	395
	13:15	3.97	2758	0.1	0.96	0.59	397
	13:30	3.91	2714	0.1	0.96	0.59	397
	13:45	4.05	2810	0.1	0.95	0.59	398
	14:00	3.94	2732	0.1	0.94	0.59	398
	14:15	3.9	2707	0.1	0.93	0.59	397
	14:30	3.92	2722	0.1	0.92	0.59	396
	14:45	3.91	2714	0.1	0.91	0.59	397
	15:00	3.88	2694	0.1	0.91	0.59	397
	15:15	3.89	2700	0.1	0.9	0.59	396
	15:30	3.98	2763	0.1	0.89	0.59	395
	15:45	3.74	2594	0.1	0.88	0.59	394
	16:00	3.86	2682	0.1	0.87	0.59	394
	16:15	3.82	2652	0.11	0.86	0.59	393
	16:30	3.93	2729	0.1	0.86	0.59	394
	16:45	3.92	2717	0.1	0.85	0.59	393
	17:00	3.77	2616	0.1	0.84	0.59	393

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	17:15	3.93	2728	0.1	0.83	0.59	392
	17:30	3.86	2681	0.1	0.82	0.59	393
	17:45	3.91	2712	0.1	0.81	0.59	393
	18:00	3.63	2518	0.1	0.81	0.59	392
	18:15	4.15	2877	0.1	0.8	0.58	391
	18:30	3.96	2750	0.1	0.79	0.59	392
	18:45	4	2777	0.11	0.78	0.59	392
	19:00	3.91	2713	0.1	0.78	0.58	391
	19:15	3.91	2715	0.1	0.77	0.58	391
	19:30	4.03	2798	0.11	0.76	0.58	391
	19:45	3.9	2704	0.1	0.76	0.58	391
	20:00	3.88	2695	0.1	0.75	0.58	391
	20:15	3.86	2679	0.1	0.74	0.59	393
	20:30	3.89	2698	0.1	0.74	0.59	392
	20:45	3.86	2679	0.11	0.73	0.58	391
	21:00	3.85	2671	0.1	0.73	0.58	391
	21:15	3.89	2696	0.1	0.72	0.58	391
	21:30	3.91	2715	0.1	0.71	0.58	390
	21:45	3.95	2740	0.1	0.71	0.58	391
	22:00	3.9	2709	0.1	0.71	0.58	391
	22:15	3.93	2724	0.1	0.7	0.58	390
	22:30	3.89	2698	0.1	0.7	0.58	390
	22:45	3.9	2709	0.1	0.7	0.58	388
	23:00	3.92	2723	0.1	0.69	0.58	389
	23:15	3.91	2713	0.1	0.7	0.58	390
	23:30	3.87	2684	0.1	0.7	0.58	389
	23:45	3.92	2722	0.1	0.71	0.58	390
2/28/2014	0:00	3.86	2682	0.1	0.72	0.58	391
	0:15	3.91	2712	0.1	0.73	0.58	391
	0:30	3.87	2683	0.1	0.74	0.58	391
	0:45	3.93	2727	0.1	0.77	0.59	392
	1:00	3.89	2701	0.1	0.78	0.59	393
	1:15	3.93	2726	0.1	0.81	0.59	393
	1:30	3.92	2719	0.1	0.83	0.59	395
	1:45	3.9	2703	0.1	0.85	0.59	394

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	2:00	3.85	2675	0.1	0.87	0.59	397
	2:15	3.92	2718	0.1	0.89	0.59	396
	2:30	3.91	2716	0.1	0.91	0.6	399
	2:45	3.92	2720	0.1	0.93	0.6	401
	3:00	3.95	2744	0.1	0.95	0.6	399
	3:15	4.04	2804	0.1	0.97	0.6	399
	3:30	3.8	2636	0.1	0.99	0.6	401
	3:45	4.01	2784	0.1	1.01	0.6	401
	4:00	3.92	2717	0.1	1.04	0.6	403
	4:15	3.96	2747	0.11	1.06	0.6	402
	4:30	3.94	2733	0.1	1.09	0.6	404
	4:45	3.98	2764	0.11	1.11	0.61	406
	5:00	3.92	2717	0.11	1.13	0.61	406
	5:15	3.95	2738	0.11	1.15	0.61	406
	5:30	3.93	2727	0.1	1.16	0.61	407
	5:45	3.91	2716	0.11	1.17	0.61	407
	6:00	3.85	2671	0.11	1.18	0.61	408
	6:15	3.96	2750	0.11	1.19	0.61	408
	6:30	3.9	2703	0.11	1.19	0.61	409
	6:45	3.97	2752	0.11	1.19	0.61	409
	7:00	3.9	2708	0.11	1.19	0.61	407
	7:15	3.9	2707	0.11	1.19	0.61	409
	7:30	4.06	2816	0.11	1.18	0.61	408
	7:45	3.91	2711	0.11	1.18	0.61	407
	8:00	3.87	2682	0.11	1.17	0.61	407
	8:15	3.86	2682	0.11	1.16	0.61	407
	8:30	3.95	2740	0.11	1.15	0.61	407
	8:45	3.91	2712	0.11	1.14	0.61	407
	9:00	3.95	2738	0.11	1.13	0.61	407
	9:15	3.98	2762	0.11	1.12	0.61	406
	9:30	4	2773	0.11	1.11	0.61	407
	9:45	4.05	2813	0.11	1.1	0.61	407
	10:00	3.92	2721	0.11	1.1	0.61	405
	10:15	3.97	2757	0.11	1.09	0.61	406
	10:30	4.01	2782	0.11	1.08	0.6	404

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	10:45	3.98	2763	0.11	1.07	0.6	405
	11:00	3.99	2768	0.11	1.06	0.6	404
	11:15	3.95	2743	0.11	1.05	0.6	404
	11:30	3.88	2695	0.11	1.04	0.6	403
	11:45	3.83	2659	0.11	1.03	0.6	403
	12:00	3.9	2704	0.11	1.03	0.6	403
	12:15	3.92	2723	0.11	1.02	0.6	403
	12:30	3.83	2658	0.11	1.01	0.6	401
	12:45	3.84	2666	0.11	1	0.6	401
	13:00	3.86	2677	0.1	0.99	0.6	401
	13:15	3.84	2664	0.11	0.98	0.6	402
	13:30	3.7	2566	0.11	0.97	0.6	401
	13:45	3.8	2639	0.1	0.96	0.6	401
	14:00	3.88	2692	0.11	0.95	0.6	401
	14:15	3.92	2719	0.1	0.94	0.6	401
	14:30	3.88	2695	0.1	0.93	0.6	399
	14:45	3.87	2689	0.1	0.92	0.6	400
	15:00	3.92	2717	0.11	0.91	0.6	399
	15:15	3.88	2694	0.11	0.9	0.6	401
	15:30	3.89	2701	0.11	0.89	0.6	399
	15:45	3.89	2697	0.1	0.88	0.6	399
	16:00	3.85	2673	0.11	0.87	0.6	399
	16:15	3.94	2733	0.11	0.86	0.6	399
	16:30	3.9	2705	0.11	0.86	0.6	400
	16:45	3.85	2671	0.11	0.85	0.6	399
	17:00	3.93	2730	0.11	0.84	0.6	400
	17:15	3.85	2674	0.11	0.84	0.6	399
	17:30	3.8	2640	0.11	0.83	0.59	397
	17:45	3.82	2648	0.11	0.82	0.59	397
	18:00	3.84	2665	0.1	0.81	0.59	397
	18:15	3.84	2665	0.11	0.81	0.59	397
	18:30	3.84	2665	0.11	0.81	0.59	397
	18:45	3.84	2665	0.11	0.81	0.59	397
	19:00	3.84	2665	0.11	0.81	0.59	397
	19:15	3.84	2665	0.1	0.81	0.59	397

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	19:30	3.84	2665	0.11	0.81	0.59	397
	19:45	3.84	2665	0.11	0.81	0.59	397
	20:00	3.84	2665	0.1	0.81	0.59	397
	20:15	3.84	2665	0.1	0.81	0.59	397
	20:30	3.84	2665	0.1	0.81	0.59	397
	20:45	3.84	2665	0.11	0.81	0.59	397
	21:00	3.84	2665	0.11	0.81	0.59	397
	21:15	3.84	2665	0.11	0.81	0.59	397
	21:30	3.84	2665	0.1	0.81	0.59	397
	21:45	3.84	2665	0.1	0.81	0.59	397
	22:00	3.84	2665	0.1	0.81	0.59	397
	22:15	3.84	2665	0.1	0.81	0.59	397
	22:30	3.84	2665	0.11	0.81	0.59	397
	22:45	3.84	2665	0.1	0.81	0.59	397
	23:00	3.84	2665	0.1	0.81	0.59	397
	23:15	3.84	2665	0.1	0.81	0.59	397
	23:30	3.84	2665	0.1	0.81	0.59	397
	23:45	3.84	2665	0.1	0.81	0.59	397
3/1/2014	0:00	3.84	2665	0.1	0.81	0.59	397
	0:15	3.84	2665	0.1	0.81	0.59	397
	0:30	3.84	2665	0.1	0.81	0.59	397
	0:45	3.84	2665	0.1	0.81	0.59	397
	1:00	3.84	2665	0.1	0.81	0.59	397
	1:15	3.84	2665	0.1	0.81	0.59	397
	1:30	3.84	2665	0.11	0.81	0.59	397
	1:45	3.84	2665	0.11	0.81	0.59	397
	2:00	3.84	2665	0.11	0.81	0.59	397
	2:15	3.84	2665	0.1	0.81	0.59	397
	2:30	3.84	2665	0.1	0.81	0.59	397
	2:45	3.84	2665	0.1	0.81	0.59	397
	3:00	3.84	2665	0.1	0.81	0.59	397
	3:15	3.84	2665	0.1	0.81	0.59	397
	3:30	3.84	2665	0.1	0.81	0.59	397
	3:45	3.84	2665	0.1	0.81	0.59	397
	4:00	3.84	2665	0.1	0.81	0.59	397

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	4:15	3.84	2665	0.1	0.81	0.59	397
	4:30	3.84	2665	0.1	0.81	0.59	397
	4:45	3.84	2665	0.1	0.81	0.59	397
	5:00	3.84	2665	0.1	0.81	0.59	397
	5:15	3.84	2665	0.1	0.81	0.59	397
	5:30	3.84	2665	0.1	0.81	0.59	397
	5:45	3.84	2665	0.1	0.81	0.59	397
	6:00	3.84	2665	0.1	0.81	0.59	397
	6:15	3.84	2665	0.1	0.81	0.59	397
	6:30	3.84	2665	0.1	0.81	0.59	397
	6:45	3.84	2665	0.1	0.81	0.59	397
	7:00	3.84	2665	0.1	0.81	0.59	397
	7:15	3.84	2665	0.1	0.81	0.59	397
	7:30	3.84	2665	0.1	0.81	0.59	397
	7:45	3.84	2665	0.1	0.81	0.59	397
	8:00	3.84	2665	0.1	0.81	0.59	397
	8:15	3.84	2665	0.1	0.81	0.59	397
	8:30	3.84	2665	0.11	0.81	0.59	397
	8:45	3.84	2665	0.11	0.81	0.59	397
	9:00	3.84	2665	0.1	0.81	0.59	397
	9:15	3.84	2665	0.1	0.81	0.59	397
	9:30	3.84	2665	0.09	0.81	0.59	397
	9:45	3.84	2665	0.09	0.81	0.59	397
	10:00	3.84	2665	0.09	0.81	0.59	397
	10:15	3.84	2665	0.09	0.81	0.59	397
	10:30	3.84	2665	0.09	0.81	0.59	397
	10:45	3.84	2665	0.09	0.81	0.59	397
	11:00	3.96	2745	0.09	0.6	0.58	391
	11:15	4.06	2814	0.09	0.6	0.58	389
	11:30	4	2773	0.09	0.6	0.58	390
	11:45	4.09	2841	0.09	0.59	0.59	393
	12:00	4.02	2792	0.09	0.59	0.58	390
	12:15	4	2773	0.09	0.59	0.58	390
	12:30	4.09	2835	0.09	0.59	0.58	389
	12:45	4.03	2800	0.09	0.59	0.58	388

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	13:00	4.06	2817	0.09	0.59	0.58	388
	13:15	4.01	2783	0.09	0.59	0.58	390
	13:30	3.98	2762	0.09	0.58	0.58	389
	13:45	4.03	2795	0.1	0.58	0.59	392
	14:00	3.99	2769	0.1	0.58	0.58	389
	14:15	4.04	2802	0.1	0.58	0.58	391
	14:30	3.99	2766	0.1	0.58	0.58	391
	14:45	4.06	2817	0.1	0.58	0.58	391
	15:00	4.11	2852	0.1	0.58	0.58	391
	15:15	4.01	2780	0.1	0.57	0.58	391
	15:30	4.09	2841	0.1	0.57	0.58	389
	15:45	4.07	2821	0.1	0.57	0.58	389
	16:00	4.03	2798	0.1	0.57	0.59	392
	16:15	3.91	2714	0.1	0.57	0.58	390
	16:30	4.11	2855	0.1	0.57	0.58	389
	16:45	4.03	2793	0.1	0.57	0.58	390
	17:00	4.07	2825	0.1	0.57	0.58	391
	17:15	3.94	2731	0.1	0.56	0.58	391
	17:30	4.07	2825	0.1	0.56	0.59	392
	17:45	4.02	2787	0.1	0.56	0.58	391
	18:00	4.07	2822	0.1	0.56	0.58	391
	18:15	3.99	2771	0.1	0.56	0.59	392
	18:30	3.93	2724	0.1	0.56	0.58	389
	18:45	4.05	2811	0.1	0.56	0.58	391
	19:00	3.96	2751	0.1	0.56	0.59	392
	19:15	4	2775	0.1	0.56	0.58	391
	19:30	3.94	2734	0.1	0.55	0.58	391
	19:45	4.03	2793	0.1	0.55	0.59	392
	20:00	4.03	2795	0.1	0.55	0.59	395
	20:15	3.99	2766	0.1	0.55	0.58	391
	20:30	3.98	2759	0.1	0.55	0.58	391
	20:45	3.98	2765	0.1	0.55	0.58	389
	21:00	4.04	2804	0.1	0.55	0.58	391
	21:15	4.02	2790	0.1	0.55	0.59	392
	21:30	3.95	2741	0.1	0.55	0.59	395

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	21:45	3.97	2752	0.1	0.55	0.59	394
	22:00	3.96	2750	0.1	0.55	0.58	391
	22:15	3.9	2705	0.11	0.55	0.59	393
	22:30	4.06	2815	0.1	0.55	0.59	394
	22:45	3.81	2642	0.11	0.55	0.59	395
	23:00	3.95	2743	0.1	0.55	0.59	393
	23:15	3.78	2620	0.1	0.55	0.59	394
	23:30	3.98	2765	0.1	0.55	0.59	394
	23:45	3.82	2648	0.1	0.55	0.59	395
3/2/2014	0:00	3.84	2664	0.1	0.55	0.59	394
	0:15	4.12	2858	0.1	0.55	0.59	395
	0:30	3.84	2667	0.1	0.54	0.59	395
	0:45	3.79	2628	0.1	0.54	0.59	397
	1:00	3.91	2714	0.1	0.54	0.59	396
	1:15	3.78	2622	0.1	0.54	0.59	397
	1:30	3.82	2649	0.1	0.54	0.59	396
	1:45	3.86	2677	0.1	0.54	0.59	397
	2:00	3.85	2673	0.1	0.54	0.59	398
	2:15	3.87	2685	0.1	0.54	0.59	397
	2:30	3.86	2675	0.1	0.54	0.59	397
	2:45	3.83	2659	0.1	0.54	0.59	397
	3:00	3.84	2664	0.1	0.54	0.59	397
	3:15	3.82	2652	0.11	0.54	0.59	395
	3:30	3.83	2655	0.11	0.54	0.59	393
	3:45	3.83	2655	0.11	0.54	0.59	395
	4:00	3.72	2582	0.11	0.54	0.59	394
	4:15	4.01	2781	0.11	0.54	0.59	395
	4:30	3.81	2643	0.11	0.54	0.59	396
	4:45	3.76	2607	0.11	0.54	0.59	397
	5:00	3.75	2599	0.11	0.54	0.59	396
	5:15	3.74	2596	0.1	0.54	0.59	396
	5:30	3.74	2597	0.1	0.53	0.59	395
	5:45	3.84	2663	0.1	0.53	0.59	397
	6:00	3.8	2634	0.1	0.53	0.59	395
	6:15	3.75	2602	0.1	0.53	0.59	397

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	6:30	3.76	2609	0.1	0.53	0.59	397
	6:45	3.95	2739	0.1	0.53	0.6	400
	7:00	3.79	2629	0.11	0.53	0.59	398
	7:15	3.67	2544	0.11	0.53	0.6	399
	7:30	3.74	2593	0.1	0.53	0.6	400
	7:45	3.59	2494	0.1	0.53	0.59	397
	8:00	3.72	2578	0.1	0.53	0.6	401
	8:15	3.72	2584	0.11	0.53	0.6	400
	8:30	3.66	2543	0.11	0.53	0.59	398
	8:45	3.86	2677	0.11	0.53	0.6	399
	9:00	3.7	2568	0.11	0.53	0.6	399
	9:15	3.77	2613	0.11	0.53	0.6	399
	9:30	2.74	1904	0.11	0.53	0.6	399
	9:45	2.69	1867	0.11	0.53	0.59	397
	10:00	2.76	1912	0.11	0.53	0.6	401
	10:15	4.1	2843	0.1	0.53	0.6	401
	10:30	0.02	16.7	0.11	0.53	0.6	399
	10:45	0.07	48.6	0.11	0.53	0.6	401
	11:00	3.19	2215	0.11	0.53	0.6	399
	11:15	4.28	2971	0.11	0.53	0.6	399
	11:30	3.77	2618	0.11	0.54	0.6	399
	11:45	4.16	2886	0.11	0.54	0.6	401
	12:00	3.94	2734	0.11	0.53	0.6	399
	12:15	3.88	2690	0.11	0.53	0.6	399
	12:30	3.86	2675	0.11	0.53	0.6	399
	12:45	3.92	2723	0.11	0.52	0.59	398
	13:00	3.9	2707	0.11	0.52	0.6	399
	13:15	3.91	2714	0.1	0.52	0.59	398
	13:30	4	2778	0.1	0.52	0.6	399
	13:45	3.95	2740	0.1	0.52	0.59	397
	14:00	4.06	2814	0.1	0.52	0.59	398
	14:15	3.98	2765	0.1	0.52	0.59	398
	14:30	4.04	2800	0.1	0.52	0.59	398
	14:45	3.95	2740	0.1	0.52	0.59	398
	15:00	4.02	2793	0.1	0.52	0.6	401

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	15:15	3.98	2763	0.1	0.52	0.6	399
	15:30	3.91	2712	0.1	0.52	0.59	398
	15:45	3.94	2732	0.11	0.52	0.6	400
	16:00	4.01	2786	0.1	0.52	0.59	397
	16:15	3.93	2725	0.1	0.52	0.59	397
	16:30	3.97	2758	0.1	0.52	0.6	400
	16:45	3.96	2746	0.11	0.51	0.59	398
	17:00	4.02	2793	0.11	0.52	0.6	399
	17:15	3.92	2722	0.11	0.51	0.6	399
	17:30	4	2777	0.11	0.51	0.6	400
	17:45	3.76	2608	0.11	0.51	0.6	399
	18:00	3.86	2679	0.11	0.51	0.6	400
	18:15	3.88	2695	0.11	0.51	0.6	399
	18:30	3.99	2768	0.11	0.51	0.6	400
	18:45	3.93	2726	0.11	0.51	0.6	399
	19:00	3.96	2745	0.11	0.51	0.59	398
	19:15	3.89	2698	0.11	0.51	0.6	399
	19:30	4.03	2800	0.11	0.51	0.6	400
	19:45	3.89	2698	0.11	0.51	0.59	397
	20:00	3.92	2723	0.11	0.51	0.59	397
	20:15	3.96	2745	0.11	0.51	0.59	397
	20:30	4.04	2807	0.11	0.51	0.59	397
	20:45	3.98	2761	0.11	0.51	0.6	399
	21:00	3.99	2770	0.11	0.51	0.59	398
	21:15	3.88	2693	0.11	0.51	0.59	397
	21:30	3.83	2655	0.11	0.5	0.59	395
	21:45	3.88	2693	0.11	0.5	0.59	397
	22:00	3.83	2661	0.11	0.5	0.59	396
	22:15	3.88	2693	0.11	0.5	0.59	397
	22:30	3.85	2669	0.11	0.5	0.59	397
	22:45	3.75	2605	0.11	0.5	0.59	397
	23:00	3.74	2596	0.11	0.5	0.59	397
	23:15	3.8	2636	0.11	0.5	0.59	397
	23:30	3.86	2680	0.11	0.5	0.59	397
	23:45	3.88	2695	0.11	0.5	0.59	395

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
3/3/2014	0:00	3.89	2702	0.11	0.5	0.59	397
	0:15	3.89	2698	0.11	0.5	0.59	397
	0:30	3.92	2720	0.11	0.5	0.59	396
	0:45	3.95	2741	0.11	0.5	0.59	396
	1:00	3.92	2718	0.11	0.5	0.59	395
	1:15	4.18	2903	0.11	0.5	0.59	395
	1:30	4.14	2875	0.11	0.5	0.59	395
	1:45	3.95	2741	0.11	0.5	0.59	394
	2:00	3.93	2726	0.11	0.5	0.59	398
	2:15	4.02	2787	0.11	0.5	0.59	397
	2:30	3.9	2703	0.11	0.5	0.59	397
	2:45	3.82	2650	0.11	0.49	0.59	397
	3:00	3.94	2733	0.11	0.49	0.6	399
	3:15	3.97	2757	0.11	0.49	0.59	397
	3:30	3.92	2721	0.11	0.49	0.6	399
	3:45	3.96	2747	0.11	0.49	0.6	399
	4:00	3.9	2708	0.11	0.49	0.59	397
	4:15	4	2777	0.11	0.49	0.59	398
	4:30	4	2773	0.11	0.49	0.59	398
	4:45	3.79	2629	0.11	0.49	0.59	397
	5:00	3.81	2643	0.12	0.49	0.6	400
	5:15	3.96	2749	0.12	0.49	0.59	398
	5:30	3.96	2751	0.12	0.49	0.59	397
	5:45	3.93	2726	0.12	0.49	0.59	397
	6:00	3.94	2732	0.12	0.49	0.59	395
	6:15	3.81	2646	0.12	0.49	0.59	397
	6:30	3.83	2660	0.12	0.49	0.59	398
	6:45	3.88	2693	0.12	0.48	0.59	397
	7:00	3.89	2697	0.12	0.49	0.6	399
	7:15	3.87	2682	0.12	0.49	0.59	397
	7:30	3.84	2666	0.12	0.48	0.59	398
	7:45	3.88	2693	0.12	0.48	0.59	398
	8:00	3.71	2575	0.12	0.48	0.59	398
	8:15	3.64	2523	0.12	0.48	0.6	401
	8:30	3.78	2625	0.12	0.48	0.6	401

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	8:45	3.82	2651	0.12	0.48	0.6	401
	9:00	4.03	2798	0.12	0.48	0.6	401
	9:15	3.94	2736	0.12	0.48	0.6	401
	9:30	3.77	2615	0.12	0.48	0.6	401
	9:45	3.87	2684	0.12	0.48	0.6	403
	10:00	3.8	2636	0.13	0.48	0.6	403
	10:15	3.84	2666	0.13	0.48	0.6	404
	10:30	3.93	2728	0.13	0.48	0.6	403
	10:45	4.17	2895	0.13	0.48	0.6	402
	11:00	4.08	2834	0.13	0.48	0.6	404
	11:15	3.94	2733	0.13	0.47	0.61	407
	11:30	3.96	2749	0.13	0.47	0.61	405
	11:45	4.15	2882	0.13	0.48	0.61	405
	12:00	4.22	2927	0.13	0.47	0.61	406
	12:15	4.26	2953	0.13	0.47	0.61	406
	12:30	4.15	2878	0.13	0.47	0.61	406
	12:45	4.32	2999	0.13	0.47	0.61	409
	13:00	3.94	2734	0.13	0.47	0.6	405
	13:15	4.1	2847	0.13	0.47	0.61	409
	13:30	4.01	2782	0.13	0.47	0.61	406
	13:45	3.99	2767	0.13	0.47	0.61	407
	14:00	4.1	2844	0.13	0.47	0.61	407
	14:15	4.17	2891	0.13	0.47	0.61	407
	14:30	4.06	2818	0.13	0.47	0.61	408
	14:45	4.11	2854	0.12	0.47	0.61	409
	15:00	4.17	2892	0.12	0.47	0.61	407
	15:15	4.05	2809	0.12	0.47	0.61	409
	15:30	4.08	2833	0.11	0.47	0.61	409
	15:45	4.14	2871	0.11	0.47	0.61	407
	16:00	4.22	2929	0.11	0.47	0.61	409
	16:15	4.15	2881	0.11	0.47	0.61	408
	16:30	4.1	2845	0.11	0.47	0.61	409
	16:45	4.28	2973	0.11	0.46	0.61	409
	17:00	4.28	2973	0.12	0.46	0.61	409
	17:15	4.28	2973	0.12	0.46	0.61	409

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	17:30	4.28	2973	0.12	0.46	0.61	409
	17:45	4.28	2973	0.12	0.46	0.61	409
	18:00	4.28	2973	0.12	0.46	0.61	409
	18:15	4.28	2973	0.13	0.46	0.61	409
	18:30	4.28	2973	0.12	0.46	0.61	409
	18:45	4.28	2973	0.13	0.46	0.61	409
	19:00	4.28	2973	0.13	0.46	0.61	409
	19:15	4.28	2973	0.13	0.46	0.61	409
	19:30	4.28	2973	0.13	0.46	0.61	409
	19:45	4.28	2973	0.13	0.46	0.61	409
	20:00	4.28	2973	0.13	0.46	0.61	409
	20:15	4.28	2973	0.13	0.46	0.61	409
	20:30	4.28	2973	0.13	0.46	0.61	409
	20:45	4.28	2973	0.13	0.46	0.61	409
	21:00	4.28	2973	0.13	0.46	0.61	409
	21:15	4.28	2973	0.13	0.46	0.61	409
	21:30	4.28	2973	0.13	0.46	0.61	409
	21:45	4.28	2973	0.13	0.46	0.61	409
	22:00	4.28	2973	0.13	0.46	0.61	409
	22:15	4.28	2973	0.13	0.46	0.61	409
	22:30	4.28	2973	0.13	0.46	0.61	409
	22:45	4.28	2973	0.13	0.46	0.61	409
	23:00	4.28	2973	0.13	0.46	0.61	409
	23:15	4.28	2973	0.13	0.46	0.61	409
	23:30	4.28	2973	0.13	0.46	0.61	409
	23:45	4.28	2973	0.13	0.46	0.61	409
3/4/2014	0:00	4.28	2973	0.13	0.46	0.61	409
	0:15	4.28	2973	0.13	0.46	0.61	409
	0:30	4.28	2973	0.13	0.46	0.61	409
	0:45	4.28	2973	0.13	0.46	0.61	409
	1:00	4.28	2973	0.13	0.46	0.61	409
	1:15	4.28	2973	0.13	0.46	0.61	409
	1:30	4.28	2973	0.13	0.46	0.61	409
	1:45	4.28	2973	0.13	0.46	0.61	409
	2:00	4.28	2973	0.13	0.46	0.61	409

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	2:15	4.28	2973	0.13	0.46	0.61	409
	2:30	4.28	2973	0.13	0.46	0.61	409
	2:45	4.28	2973	0.13	0.46	0.61	409
	3:00	4.28	2973	0.13	0.46	0.61	409
	3:15	4.28	2973	0.13	0.46	0.61	409
	3:30	4.28	2973	0.13	0.46	0.61	409
	3:45	4.28	2973	0.13	0.46	0.61	409
	4:00	4.28	2973	0.13	0.46	0.61	409
	4:15	4.28	2973	0.13	0.46	0.61	409
	4:30	4.28	2973	0.13	0.46	0.61	409
	4:45	4.28	2973	0.13	0.46	0.61	409
	5:00	4.28	2973	0.13	0.46	0.61	409
	5:15	4.28	2973	0.13	0.46	0.61	409
	5:30	4.28	2973	0.13	0.46	0.61	409
	5:45	4.28	2973	0.13	0.46	0.61	409
	6:00	4.28	2973	0.13	0.46	0.61	409
	6:15	4.28	2973	0.13	0.46	0.61	409
	6:30	4.28	2973	0.13	0.46	0.61	409
	6:45	4.28	2973	0.13	0.46	0.61	409
	7:00	4.28	2973	0.13	0.46	0.61	409
	7:15	4.28	2973	0.13	0.46	0.61	409
	7:30	4.28	2973	0.13	0.46	0.61	409
	7:45	4.28	2973	0.13	0.46	0.61	409
	8:00	4.28	2973	0.13	0.46	0.61	409
	8:15	4.28	2973	0.13	0.46	0.61	409
	8:30	4.28	2973	0.13	0.46	0.61	409
	8:45	4.28	2973	0.13	0.46	0.61	409
	9:00	4.28	2973	0.13	0.46	0.61	409
	9:15	4.28	2973	0.13	0.46	0.61	409
	9:30	4.28	2973	0.13	0.46	0.61	409
	9:45	4.28	2973	0.13	0.46	0.61	409
	10:00	4.28	2973	0.13	0.46	0.61	409
	10:15	4.28	2973	0.13	0.46	0.61	409
	10:30	4.28	2973	0.13	0.46	0.61	409
	10:45	4.28	2973	0.13	0.46	0.61	409

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	11:00	4.28	2973	0.13	0.46	0.61	409
	11:15	4.28	2973	0.13	0.46	0.61	409
	11:30	4.28	2973	0.13	0.46	0.61	409
	11:45	4.28	2973	0.13	0.46	0.61	409
	12:00	4.28	2973	0.13	0.46	0.61	409
	12:15	4.28	2973	0.13	0.46	0.61	409
	12:30	4.28	2973	0.13	0.46	0.61	409
	12:45	4.28	2973	0.13	0.46	0.61	409
	13:00	4.28	2973	0.13	0.46	0.61	409
	13:15	4.28	2973	0.13	0.46	0.61	409
	13:30	4.28	2973	0.13	0.46	0.61	409
	13:45	4.28	2973	0.13	0.46	0.61	409
	14:00	4.28	2973	0.14	0.46	0.61	409
	14:15	4.28	2973	0.14	0.46	0.61	409
	14:30	4.28	2973	0.15	0.46	0.61	409
	14:45	4.28	2973	0.15	0.46	0.61	409
	15:00	4.28	2973	0.15	0.46	0.61	409
	15:15	4.28	2973	0.15	0.46	0.61	409
	15:30	4.28	2973	0.15	0.46	0.61	409
	15:45	4.28	2973	0.15	0.46	0.61	409
	16:00	4.28	2973	0.15	0.46	0.61	409
	16:15	4.28	2973	0.14	0.46	0.61	409
	16:30	4.28	2973	0.15	0.46	0.61	409
	16:45	4.28	2973	0.15	0.46	0.61	409
	17:00	4.28	2973	0.15	0.46	0.61	409
	17:15	4.28	2973	0.15	0.46	0.61	409
	17:30	4.28	2973	0.15	0.46	0.61	409
	17:45	4.28	2973	0.15	0.46	0.61	409
	18:00	4.28	2973	0.15	0.46	0.61	409
	18:15	4.28	2973	0.15	0.46	0.61	409
	18:30	4.28	2973	0.15	0.46	0.61	409
	18:45	4.28	2973	0.15	0.46	0.61	409
	19:00	4.28	2973	0.15	0.46	0.61	409
	19:15	4.28	2973	0.15	0.46	0.61	409
	19:30	4.28	2973	0.15	0.46	0.61	409

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	19:45	4.28	2973	0.15	0.46	0.61	409
	20:00	4.28	2973	0.15	0.46	0.61	409
	20:15	4.28	2973	0.15	0.46	0.61	409
	20:30	4.28	2973	0.15	0.46	0.61	409
	20:45	4.28	2973	0.15	0.46	0.61	409
	21:00	4.28	2973	0.15	0.46	0.61	409
	21:15	4.28	2973	0.15	0.46	0.61	409
	21:30	4.28	2973	0.15	0.46	0.61	409
	21:45	4.28	2973	0.15	0.46	0.61	409
	22:00	4.28	2973	0.15	0.46	0.61	409
	22:15	4.28	2973	0.15	0.46	0.61	409
	22:30	4.28	2973	0.15	0.46	0.61	409
	22:45	4.28	2973	0.15	0.46	0.61	409
	23:00	4.28	2973	0.15	0.46	0.61	409
	23:15	4.28	2973	0.15	0.46	0.61	409
	23:30	4.28	2973	0.15	0.46	0.61	409
	23:45	4.28	2973	0.15	0.46	0.61	409
3/5/2014	0:00	4.28	2973	0.15	0.46	0.61	409
	0:15	4.28	2973	0.15	0.46	0.61	409
	0:30	4.28	2973	0.15	0.46	0.61	409
	0:45	4.28	2973	0.15	0.46	0.61	409
	1:00	4.28	2973	0.15	0.46	0.61	409
	1:15	4.28	2973	0.15	0.46	0.61	409
	1:30	4.28	2973	0.15	0.46	0.61	409
	1:45	4.28	2973	0.15	0.46	0.61	409
	2:00	4.28	2973	0.15	0.46	0.61	409
	2:15	4.28	2973	0.15	0.46	0.61	409
	2:30	4.28	2973	0.15	0.46	0.61	409
	2:45	4.28	2973	0.15	0.46	0.61	409
	3:00	4.28	2973	0.15	0.46	0.61	409
	3:15	4.28	2973	0.15	0.46	0.61	409
	3:30	4.28	2973	0.15	0.46	0.61	409
	3:45	4.28	2973	0.15	0.46	0.61	409
	4:00	4.28	2973	0.15	0.46	0.61	409
	4:15	4.28	2973	0.15	0.46	0.61	409

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	4:30	4.28	2973	0.15	0.46	0.61	409
	4:45	4.28	2973	0.15	0.46	0.61	409
	5:00	4.28	2973	0.15	0.46	0.61	409
	5:15	4.28	2973	0.15	0.46	0.61	409
	5:30	4.28	2973	0.15	0.46	0.61	409
	5:45	4.28	2973	0.15	0.46	0.61	409
	6:00	4.28	2973	0.15	0.46	0.61	409
	6:15	4.28	2973	0.15	0.46	0.61	409
	6:30	4.28	2973	0.15	0.46	0.61	409
	6:45	4.28	2973	0.15	0.46	0.61	409
	7:00	4.28	2973	0.15	0.46	0.61	409
	7:15	4.28	2973	0.15	0.46	0.61	409
	7:30	4.28	2973	0.15	0.46	0.61	409
	7:45	4.28	2973	0.15	0.46	0.61	409
	8:00	4.28	2973	0.15	0.46	0.61	409
	8:15	4.28	2973	0.15	0.46	0.61	409
	8:30	4.28	2973	0.15	0.46	0.61	409
	8:45	4.28	2973	0.15	0.46	0.61	409
	9:00	4.28	2973	0.15	0.46	0.61	409
	9:15	4.28	2973	0.15	0.46	0.61	409
	9:30	4.28	2973	0.15	0.46	0.61	409
	9:45	4.28	2973	0.15	0.46	0.61	409
	10:00	4.19	2905	0.15	0.46	0.6	403
	10:15	4.2	2915	0.15	0.46	0.6	401
	10:30	4.36	3022	0.15	0.46	0.61	405
	10:45	4.38	3042	0.15	0.46	0.61	407
	11:00	4.3	2987	0.15	0.46	0.61	409
	11:15	3.7	2567	0.15	0.46	0.6	402
	11:30	4.36	3029	0.15	0.46	0.61	407
	11:45	4.2	2913	0.15	0.46	0.6	404
	12:00	4.14	2872	0.15	0.46	0.61	407
	12:15	0.12	81.2	0.15	0.46	0.61	408
	12:30	0.12	81.9	0.15	0.46	0.61	407
	12:45	5.51	3827	0.15	0.46	0.61	406
	13:00	3.83	2660	0.15	0.46	0.61	409

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	13:15	4.45	3090	0.15	0.46	0.61	408
	13:30	4.2	2912	0.15	0.46	0.61	407
	13:45	4.2	2915	0.15	0.46	0.61	407
	14:00	4.32	2998	0.15	0.46	0.61	408
	14:15	4.23	2938	0.15	0.46	0.61	408
	14:30	4.21	2920	0.15	0.46	0.61	408
	14:45	4.26	2956	0.15	0.46	0.6	405
	15:00	4.33	3006	0.15	0.46	0.61	405
	15:15	4.15	2878	0.15	0.46	0.61	407
	15:30	4.12	2861	0.15	0.46	0.61	408
	15:45	4.14	2876	0.15	0.46	0.61	408
	16:00	4.3	2987	0.15	0.46	0.61	410
	16:15	4.26	2959	0.15	0.46	0.61	409
	16:30	4.29	2978	0.15	0.46	0.61	410
	16:45	4.17	2894	0.15	0.46	0.61	408
	17:00	4.27	2963	0.15	0.46	0.61	407
	17:15	4.27	2963	0.15	0.46	0.61	409
	17:30	4.24	2940	0.15	0.46	0.61	409
	17:45	4.15	2879	0.15	0.46	0.61	409
	18:00	4.26	2954	0.15	0.46	0.61	411
	18:15	4.12	2860	0.15	0.46	0.61	411
	18:30	4.22	2930	0.15	0.46	0.61	409
	18:45	4.14	2871	0.15	0.46	0.61	409
	19:00	4.22	2925	0.15	0.46	0.61	409
	19:15	4.12	2860	0.15	0.46	0.61	410
	19:30	4.12	2861	0.15	0.46	0.61	410
	19:45	4.12	2861	0.15	0.46	0.61	409
	20:00	4.1	2844	0.15	0.46	0.61	411
	20:15	4.21	2925	0.15	0.46	0.61	409
	20:30	4.22	2929	0.15	0.46	0.61	410
	20:45	4.17	2891	0.15	0.46	0.61	410
	21:00	4.09	2839	0.15	0.46	0.61	411
	21:15	4.16	2889	0.15	0.46	0.61	410
	21:30	4.1	2847	0.15	0.46	0.61	411
	21:45	4.16	2888	0.15	0.46	0.61	411

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	22:00	4.13	2866	0.15	0.46	0.61	409
	22:15	4.12	2859	0.15	0.46	0.61	409
	22:30	4.09	2838	0.15	0.46	0.61	411
	22:45	4.17	2895	0.15	0.46	0.61	410
	23:00	4.17	2891	0.15	0.46	0.61	411
	23:15	4.16	2884	0.15	0.46	0.61	411
	23:30	4.13	2866	0.15	0.46	0.61	410
	23:45	4.07	2822	0.15	0.46	0.61	411
3/6/2014	0:00	4.18	2897	0.15	0.46	0.62	412
	0:15	4.13	2863	0.15	0.46	0.61	409
	0:30	4.08	2834	0.15	0.46	0.62	412
	0:45	4.01	2784	0.15	0.46	0.61	411
	1:00	4.04	2805	0.15	0.46	0.62	413
	1:15	4.15	2882	0.15	0.46	0.61	410
	1:30	4.09	2840	0.15	0.46	0.62	413
	1:45	4.13	2866	0.15	0.46	0.62	413
	2:00	4.07	2822	0.15	0.46	0.62	413
	2:15	4.1	2843	0.15	0.46	0.62	412
	2:30	4.12	2857	0.15	0.46	0.62	414
	2:45	4.1	2843	0.15	0.46	0.62	415
	3:00	4.06	2816	0.15	0.46	0.62	414
	3:15	4.16	2886	0.15	0.46	0.61	410
	3:30	4.1	2845	0.15	0.46	0.62	414
	3:45	4.12	2861	0.15	0.46	0.62	412
	4:00	4.09	2840	0.15	0.46	0.62	415
	4:15	4.17	2895	0.15	0.46	0.61	411
	4:30	4.08	2831	0.15	0.46	0.61	411
	4:45	4.15	2879	0.15	0.46	0.62	413
	5:00	4.13	2865	0.15	0.46	0.62	414
	5:15	4.12	2857	0.15	0.46	0.62	413
	5:30	4.11	2853	0.15	0.46	0.61	411
	5:45	4.06	2815	0.15	0.46	0.62	413
	6:00	4.13	2866	0.15	0.46	0.62	414
	6:15	4.07	2825	0.15	0.46	0.62	413
	6:30	4.01	2781	0.15	0.46	0.62	416

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	6:45	4.02	2790	0.15	0.46	0.62	413
	7:00	4.06	2816	0.15	0.46	0.62	412
	7:15	4.01	2781	0.15	0.46	0.61	410
	7:30	4.12	2860	0.15	0.46	0.61	411
	7:45	4.07	2823	0.15	0.46	0.61	411
	8:00	4.08	2832	0.15	0.46	0.61	409
	8:15	4.1	2843	0.15	0.46	0.62	413
	8:30	4.11	2852	0.15	0.46	0.61	410
	8:45	4.21	2920	0.15	0.46	0.62	416
	9:00	4.14	2873	0.15	0.46	0.62	417
	9:15	4.21	2918	0.15	0.46	0.62	417
	9:30	4.16	2890	0.15	0.46	0.62	418
	9:45	4.26	2959	0.15	0.46	0.62	416
	10:00	4.17	2893	0.15	0.46	0.62	414
	10:15	4.3	2984	0.15	0.46	0.62	413
	10:30	3.99	2770	0.15	0.46	0.62	415
	10:45	4.2	2913	0.15	0.46	0.62	415
	11:00	4.1	2846	0.15	0.46	0.62	413
	11:15	3	2081	0.15	0.46	0.62	415
	11:30	3	2085	0.15	0.46	0.62	415
	11:45	3.06	2125	0.15	0.46	0.62	415
	12:00	4.51	3128	0.15	0.46	0.62	416
	12:15	4.1	2846	0.15	0.46	0.62	415
	12:30	4.13	2866	0.15	0.46	0.62	413
	12:45	4.24	2940	0.15	0.46	0.62	415
	13:00	4.24	2939	0.15	0.46	0.62	413
	13:15	4.23	2932	0.15	0.46	0.62	415
	13:30	4.29	2979	0.15	0.46	0.62	414
	13:45	4.25	2952	0.14	0.46	0.62	414
	14:00	5.37	3727	0.14	0.46	0.62	413
	14:15	0.09	63.2	0.14	0.46	0.62	413
	14:30	0.08	52.7	0.14	0.46	0.62	415
	14:45	3.73	2588	0.14	0.46	0.62	413
	15:00	4.5	3122	0.15	0.46	0.62	414
	15:15	3.98	2764	0.15	0.46	0.62	414

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	15:30	4.27	2965	0.15	0.46	0.62	414
	15:45	4.28	2971	0.15	0.46	0.62	413
	16:00	4.36	3026	0.15	0.46	0.62	413
	16:15	4.21	2920	0.14	0.46	0.62	413
	16:30	4.12	2858	0.14	0.46	0.62	413
	16:45	4.28	2972	0.14	0.46	0.62	413
	17:00	4.18	2902	0.14	0.46	0.62	413
	17:15	4.24	2943	0.14	0.46	0.62	413
	17:30	4.28	2967	0.14	0.46	0.62	412
	17:45	4.23	2934	0.15	0.46	0.61	411
	18:00	4.33	3006	0.15	0.46	0.62	413
	18:15	4.26	2955	0.15	0.46	0.62	414
	18:30	4.22	2929	0.15	0.46	0.61	411
	18:45	4.17	2891	0.15	0.46	0.61	411
	19:00	4.18	2897	0.16	0.46	0.62	413
	19:15	4.08	2834	0.16	0.46	0.61	411
	19:30	4.14	2871	0.16	0.46	0.61	411
	19:45	4.21	2924	0.16	0.46	0.62	413
	20:00	4.15	2879	0.16	0.46	0.61	411
	20:15	4.14	2876	0.16	0.46	0.62	413
	20:30	4.19	2909	0.16	0.46	0.61	411
	20:45	4.17	2893	0.16	0.46	0.61	410
	21:00	4.1	2845	0.16	0.46	0.61	411
	21:15	4.17	2893	0.16	0.46	0.62	412
	21:30	4.16	2886	0.17	0.47	0.61	411
	21:45	4.1	2847	0.16	0.46	0.61	411
	22:00	4.1	2848	0.16	0.46	0.62	413
	22:15	4.13	2868	0.16	0.47	0.61	411
	22:30	4.12	2859	0.17	0.47	0.61	411
	22:45	4.14	2871	0.17	0.47	0.61	411
	23:00	4.11	2855	0.16	0.47	0.62	412
	23:15	4.12	2862	0.17	0.47	0.61	411
	23:30	4.17	2891	0.16	0.47	0.62	413
	23:45	4.09	2841	0.16	0.47	0.61	411
3/7/2014	0:00	4.07	2825	0.16	0.47	0.62	413

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	0:15	4.15	2882	0.16	0.47	0.62	413
	0:30	4.15	2877	0.16	0.47	0.61	411
	0:45	4.11	2852	0.16	0.47	0.62	413
	1:00	4.12	2860	0.16	0.47	0.62	413
	1:15	4	2773	0.17	0.47	0.62	413
	1:30	4.13	2868	0.16	0.47	0.62	413
	1:45	4.14	2874	0.17	0.47	0.62	413
	2:00	4.1	2844	0.16	0.47	0.62	413
	2:15	4.17	2891	0.16	0.47	0.62	413
	2:30	4.15	2883	0.16	0.47	0.62	414
	2:45	4.17	2897	0.16	0.47	0.62	413
	3:00	4.15	2882	0.17	0.47	0.62	415
	3:15	4.12	2861	0.17	0.47	0.62	414
	3:30	4.16	2890	0.16	0.47	0.62	413
	3:45	4.14	2872	0.17	0.47	0.62	414
	4:00	4.19	2909	0.16	0.47	0.62	414
	4:15	4.13	2864	0.16	0.47	0.62	413
	4:30	4.23	2935	0.16	0.47	0.62	413
	4:45	4.13	2865	0.17	0.47	0.62	413
	5:00	4.2	2911	0.17	0.47	0.62	413
	5:15	4.12	2861	0.16	0.47	0.62	412
	5:30	4.19	2910	0.16	0.47	0.62	412
	5:45	4.23	2933	0.16	0.47	0.62	416
	6:00	4.19	2909	0.16	0.47	0.62	413
	6:15	4.21	2918	0.16	0.47	0.62	415
	6:30	4.26	2953	0.16	0.47	0.62	413
	6:45	4.15	2881	0.17	0.47	0.62	414
	7:00	4.24	2940	0.16	0.47	0.62	415
	7:15	4.17	2896	0.16	0.47	0.62	415
	7:30	4.17	2895	0.16	0.47	0.62	414
	7:45	4.25	2946	0.16	0.47	0.62	413
	8:00	4.18	2904	0.16	0.47	0.62	414
	8:15	4.24	2940	0.16	0.47	0.62	415
	8:30	4.18	2901	0.16	0.47	0.62	415
	8:45	4.19	2909	0.16	0.47	0.62	413

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	9:00	4.18	2904	0.17	0.47	0.62	414
	9:15	4.08	2832	0.16	0.47	0.62	415
	9:30	4.21	2922	0.17	0.47	0.62	417
	9:45	4.32	3000	0.16	0.47	0.62	415
	10:00	4.29	2977	0.17	0.47	0.62	415
	10:15	4.32	2995	0.16	0.47	0.62	415
	10:30	4.29	2977	0.16	0.47	0.62	415
	10:45	4.26	2954	0.16	0.47	0.62	415
	11:00	4.21	2921	0.16	0.47	0.62	415
	11:15	4.21	2923	0.16	0.47	0.62	416
	11:30	4.32	3000	0.16	0.47	0.62	417
	11:45	4.23	2933	0.16	0.47	0.62	414
	12:00	4.37	3034	0.16	0.47	0.62	414
	12:15	4.17	2897	0.16	0.47	0.62	415
	12:30	4.25	2952	0.16	0.47	0.62	415
	12:45	4.27	2961	0.16	0.47	0.62	416
	13:00	4.36	3023	0.16	0.47	0.62	415
	13:15	4.25	2952	0.16	0.47	0.62	415
	13:30	4.27	2963	0.16	0.47	0.62	417
	13:45	4.31	2988	0.16	0.47	0.62	415
	14:00	4.28	2967	0.17	0.47	0.62	413
	14:15	4.25	2946	0.16	0.47	0.62	416
	14:30	4.3	2981	0.16	0.47	0.62	415
	14:45	4.31	2990	0.16	0.47	0.62	416
	15:00	4.21	2923	0.16	0.47	0.62	415
	15:15	4.4	3054	0.16	0.47	0.62	413
	15:30	4.36	3022	0.16	0.47	0.62	414
	15:45	4.3	2987	0.17	0.47	0.62	417
	16:00	4.33	3007	0.16	0.47	0.62	417
	16:15	4.37	3035	0.16	0.47	0.62	417
	16:30	4.3	2984	0.16	0.47	0.62	417
	16:45	4.35	3020	0.16	0.47	0.62	417
	17:00	4.33	3004	0.16	0.47	0.62	415
	17:15	4.43	3071	0.16	0.47	0.62	416
	17:30	4.35	3019	0.16	0.47	0.62	417

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	17:45	4.38	3042	0.16	0.47	0.62	417
	18:00	4.38	3040	0.16	0.47	0.62	417
	18:15	4.34	3014	0.16	0.47	0.62	417
	18:30	4.33	3008	0.16	0.47	0.62	417
	18:45	4.27	2963	0.16	0.48	0.62	417
	19:00	4.3	2984	0.16	0.47	0.62	416
	19:15	4.35	3018	0.16	0.47	0.62	417
	19:30	4.33	3002	0.16	0.47	0.62	415
	19:45	4.21	2918	0.16	0.47	0.62	417
	20:00	4.32	2999	0.16	0.47	0.62	418
	20:15	4.32	2995	0.16	0.47	0.62	415
	20:30	4.23	2935	0.16	0.47	0.62	417
	20:45	4.28	2968	0.16	0.47	0.62	417
	21:00	4.27	2964	0.16	0.47	0.62	415
	21:15	4.31	2989	0.16	0.48	0.62	415
	21:30	4.29	2980	0.16	0.47	0.62	417
	21:45	4.33	3004	0.16	0.47	0.62	418
	22:00	4.33	3002	0.16	0.47	0.62	418
	22:15	4.26	2958	0.16	0.48	0.62	417
	22:30	4.28	2969	0.16	0.47	0.62	415
	22:45	4.31	2989	0.16	0.48	0.62	417
	23:00	4.14	2870	0.16	0.48	0.62	418
	23:15	4.34	3009	0.16	0.48	0.62	416
	23:30	4.26	2953	0.16	0.48	0.62	417
	23:45	4.25	2949	0.16	0.49	0.62	418
3/8/2014	0:00	4.26	2953	0.16	0.5	0.63	420
	0:15	4.27	2961	0.16	0.51	0.62	417
	0:30	4.27	2965	0.16	0.52	0.63	419
	0:45	4.27	2965	0.15	0.54	0.63	420
	1:00	4.25	2947	0.16	0.56	0.63	419
	1:15	4.3	2984	0.16	0.59	0.63	421
	1:30	4.31	2991	0.15	0.61	0.63	424
	1:45	4.33	3003	0.16	0.63	0.63	423
	2:00	4.28	2970	0.15	0.66	0.63	423
	2:15	4.3	2986	0.15	0.68	0.63	423

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	2:30	4.32	2999	0.15	0.69	0.63	425
	2:45	4.24	2944	0.16	0.73	0.64	427
	3:00	4.3	2984	0.16	0.75	0.63	423
	3:15	4.23	2938	0.15	0.78	0.64	427
	3:30	4.29	2979	0.15	0.8	0.64	429
	3:45	4.22	2929	0.15	0.83	0.64	428
	4:00	4.26	2959	0.15	0.85	0.64	430
	4:15	4.22	2925	0.15	0.88	0.64	428
	4:30	4.28	2971	0.15	0.9	0.64	431
	4:45	4.25	2950	0.15	0.92	0.65	433
	5:00	4.26	2954	0.15	0.95	0.65	438
	5:15	4.13	2867	0.15	0.97	0.65	436
	5:30	4.26	2955	0.15	0.99	0.65	437
	5:45	4.12	2859	0.15	1.01	0.65	438
	6:00	4.16	2890	0.15	1.03	0.65	435
	6:15	4.16	2884	0.15	1.04	0.65	437
	6:30	4.24	2942	0.15	1.05	0.65	438
	6:45	4.12	2860	0.15	1.05	0.65	438
	7:00	4.41	3057	0.15	1.05	0.65	437
	7:15	4.12	2860	0.15	1.05	0.66	440
	7:30	4.23	2938	0.15	1.05	0.66	440
	7:45	4.19	2909	0.15	1.04	0.66	439
	8:00	4.16	2885	0.15	1.03	0.65	436
	8:15	4.27	2963	0.15	1.02	0.65	438
	8:30	4.13	2863	0.15	1	0.65	436
	8:45	4.2	2917	0.15	1	0.65	436
	9:00	4.13	2868	0.15	0.99	0.65	438
	9:15	4.22	2929	0.15	0.99	0.65	436
	9:30	4.28	2972	0.15	0.99	0.65	438
	9:45	4.1	2846	0.15	0.98	0.65	438
	10:00	4.27	2962	0.15	0.98	0.65	438
	10:15	4.21	2920	0.15	0.98	0.65	437
	10:30	4.18	2900	0.15	0.98	0.65	437
	10:45	4.23	2937	0.15	0.98	0.65	436
	11:00	4.22	2925	0.15	0.99	0.66	440

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	11:15	4.18	2900	0.15	0.99	0.65	437
	11:30	4.34	3012	0.15	0.99	0.66	440
	11:45	4.31	2989	0.15	1	0.66	440
	12:00	4.25	2950	0.15	1.01	0.65	435
	12:15	4.3	2984	0.15	1.03	0.65	436
	12:30	4.26	2959	0.15	1.04	0.66	441
	12:45	4.32	2997	0.15	1.05	0.66	443
	13:00	4.26	2958	0.15	1.06	0.66	439
	13:15	4.25	2949	0.15	1.08	0.66	440
	13:30	4.3	2984	0.15	1.09	0.66	442
	13:45	4.32	2995	0.15	1.1	0.66	442
	14:00	4.25	2947	0.15	1.12	0.65	438
	14:15	4.28	2968	0.15	1.13	0.66	439
	14:30	4.33	3005	0.15	1.14	0.66	440
	14:45	4.32	2997	0.15	1.15	0.66	440
	15:00	4.34	3009	0.15	1.16	0.66	440
	15:15	4.25	2950	0.15	1.18	0.67	446
	15:30	4.3	2984	0.15	1.18	0.67	446
	15:45	4.27	2966	0.15	1.19	0.66	441
	16:00	4.27	2963	0.15	1.2	0.67	446
	16:15	4.35	3018	0.15	1.21	0.66	444
	16:30	4.42	3070	0.15	1.22	0.66	444
	16:45	4.27	2962	0.15	1.24	0.67	446
	17:00	4.35	3018	0.15	1.25	0.67	448
	17:15	4.3	2982	0.15	1.26	0.67	448
	17:30	4.3	2986	0.15	1.28	0.67	448
	17:45	4.38	3040	0.15	1.29	0.66	445
	18:00	4.21	2918	0.15	1.3	0.66	445
	18:15	4.3	2984	0.15	1.31	0.67	446
	18:30	4.19	2904	0.15	1.33	0.67	448
	18:45	4.24	2942	0.15	1.34	0.67	446
	19:00	4.2	2918	0.15	1.35	0.67	450
	19:15	4.14	2872	0.15	1.36	0.67	446
	19:30	4.19	2906	0.15	1.37	0.67	448
	19:45	4.15	2879	0.15	1.37	0.67	449

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	20:00	4.13	2863	0.15	1.39	0.67	448
	20:15	4.19	2909	0.15	1.39	0.67	450
	20:30	4.15	2878	0.15	1.4	0.67	451
	20:45	4.19	2904	0.15	1.41	0.67	451
	21:00	4.25	2947	0.15	1.41	0.67	452
	21:15	4.15	2879	0.15	1.42	0.67	452
	21:30	4.1	2846	0.15	1.42	0.67	450
	21:45	4.17	2893	0.15	1.43	0.67	450
	22:00	4.19	2906	0.15	1.43	0.67	451
	22:15	4.14	2870	0.15	1.44	0.67	451
	22:30	4.2	2912	0.15	1.45	0.68	452
	22:45	4.23	2932	0.15	1.45	0.67	450
	23:00	4.17	2892	0.15	1.46	0.68	454
	23:15	4.27	2960	0.15	1.46	0.68	452
	23:30	4.28	2973	0.15	1.47	0.67	451
	23:45	4.23	2937	0.15	1.47	0.68	453
3/9/2014	0:00	4.28	2967	0.15	1.48	0.67	452
	0:15	4.28	2971	0.15	1.49	0.67	450
	0:30	4.26	2953	0.15	1.5	0.68	458
	0:45	4.24	2943	0.15	1.5	0.67	450
	1:00	4.21	2919	0.15	1.51	0.68	454
	1:15	4.31	2989	0.15	1.51	0.68	453
	1:30	4.29	2974	0.15	1.52	0.68	454
	1:45	4.24	2945	0.15	1.53	0.68	454
	2:00	4.27	2963	0.15	1.53	0.68	453
	2:15	4.32	2996	0.15	1.54	0.68	455
	2:30	4.25	2949	0.15	1.54	0.68	455
	2:45	4.27	2965	0.16	1.55	0.68	456
	3:00	4.28	2970	0.15	1.55	0.68	458
	3:15	4.24	2939	0.15	1.55	0.68	454
	3:30	4.3	2984	0.15	1.55	0.68	457
	3:45	4.28	2970	0.15	1.55	0.68	458
	4:00	4.37	3030	0.15	1.55	0.68	458
	4:15	4.39	3047	0.16	1.54	0.68	457
	4:30	4.22	2925	0.16	1.53	0.68	456

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	4:45	4.22	2929	0.15	1.53	0.68	458
	5:00	4.25	2952	0.16	1.52	0.68	458
	5:15	4.28	2972	0.16	1.51	0.68	454
	5:30	4.26	2955	0.16	1.5	0.68	456
	5:45	4.28	2970	0.16	1.49	0.68	456
	6:00	4.28	2973	0.15	1.48	0.68	456
	6:15	4.29	2976	0.15	1.48	0.68	454
	6:30	4.33	3003	0.16	1.46	0.68	457
	6:45	4.3	2985	0.16	1.46	0.68	456
	7:00	4.23	2937	0.15	1.45	0.68	455
	7:15	4.24	2943	0.16	1.44	0.68	454
	7:30	4.22	2926	0.15	1.43	0.68	454
	7:45	4.18	2902	0.16	1.42	0.68	454
	8:00	4.26	2955	0.16	1.41	0.68	455
	8:15	4.27	2962	0.15	1.4	0.68	454
	8:30	4.15	2878	0.16	1.39	0.68	456
	8:45	4.24	2943	0.16	1.39	0.68	454
	9:00	4.22	2927	0.15	1.37	0.68	452
	9:15	4.28	2967	0.15	1.36	0.68	452
	9:30	4.28	2973	0.15	1.35	0.67	452
	9:45	4.27	2961	0.16	1.34	0.67	452
	10:00	4.37	3031	0.16	1.33	0.67	451
	10:15	4.4	3054	0.16	1.32	0.68	452
	10:30	4.37	3031	0.16	1.31	0.67	448
	10:45	4.26	2953	0.16	1.3	0.67	450
	11:00	4.36	3022	0.15	1.29	0.67	451
	11:15	4.34	3014	0.15	1.28	0.67	450
	11:30	4.34	3013	0.16	1.27	0.67	450
	11:45	4.28	2970	0.15	1.26	0.67	451
	12:00	4.35	3019	0.15	1.25	0.67	450
	12:15	4.4	3056	0.15	1.25	0.67	446
	12:30	4.34	3013	0.15	1.25	0.67	448
	12:45	4.4	3053	0.15	1.24	0.67	449
	13:00	4.37	3031	0.15	1.24	0.67	452
	13:15	4.36	3027	0.15	1.25	0.67	450

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	13:30	4.36	3027	0.15	1.25	0.67	450
	13:45	4.36	3027	0.15	1.25	0.67	450
	14:00	4.36	3027	0.15	1.25	0.67	450
	14:15	4.36	3027	0.15	1.25	0.67	450
	14:30	4.48	3111	0.15	1.25	0.68	453
	14:45	4.32	2997	0.15	1.25	0.67	452
	15:00	4.44	3081	0.15	1.26	0.68	454
	15:15	2.99	2072	0.15	1.26	0.68	454
	15:30	3.01	2090	0.15	1.27	0.68	452
	15:45	4.82	3343	0.15	1.27	0.68	453
	16:00	4.21	2920	0.15	1.29	0.68	453
	16:15	4.5	3121	0.15	1.29	0.68	453
	16:30	4.32	2999	0.16	1.3	0.68	456
	16:45	4.39	3045	0.16	1.31	0.68	456
	17:00	4.31	2990	0.15	1.32	0.68	455
	17:15	4.37	3035	0.16	1.31	0.68	454
	17:30	4.44	3078	0.17	1.26	0.67	451
	17:45	4.38	3040	0.17	1.25	0.67	450
	18:00	4.4	3056	0.17	1.27	0.67	452
	18:15	4.43	3077	0.17	1.3	0.67	449
	18:30	4.39	3046	0.15	1.34	0.67	450
	18:45	4.46	3092	0.15	1.36	0.67	452
	19:00	4.35	3015	0.15	1.37	0.67	450
	19:15	4.37	3033	0.15	1.37	0.67	447
	19:30	4.43	3077	0.16	1.38	0.67	450
	19:45	4.28	2973	0.16	1.38	0.67	452
	20:00	4.41	3058	0.16	1.39	0.67	448
	20:15	4.23	2934	0.16	1.39	0.67	451
	20:30	4.35	3019	0.16	1.4	0.67	451
	20:45	4.25	2950	0.16	1.4	0.68	452
	21:00	4.31	2988	0.16	1.41	0.68	454
	21:15	4.3	2984	0.16	1.42	0.68	454
	21:30	4.19	2905	0.17	1.43	0.68	454
	21:45	4.27	2961	0.17	1.43	0.68	453
	22:00	4.26	2954	0.16	1.44	0.68	455

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	22:15	4.32	2997	0.17	1.45	0.68	455
	22:30	4.29	2979	0.17	1.45	0.68	453
	22:45	4.18	2902	0.17	1.45	0.68	455
	23:00	4.31	2989	0.17	1.45	0.68	454
	23:15	4.24	2943	0.17	1.45	0.68	454
	23:30	4.22	2930	0.17	1.45	0.68	458
	23:45	4.25	2951	0.17	1.45	0.68	458
3/10/2014	0:00	4.25	2952	0.17	1.45	0.68	456
	0:15	4.21	2925	0.17	1.45	0.68	457
	0:30	4.26	2954	0.17	1.46	0.68	458
	0:45	4.25	2951	0.17	1.46	0.68	458
	1:00	4.3	2987	0.17	1.47	0.68	458
	1:15	4.21	2921	0.17	1.47	0.68	458
	1:30	4.27	2965	0.17	1.48	0.68	457
	1:45	4.22	2931	0.17	1.48	0.68	457
	2:00	4.19	2906	0.17	1.49	0.68	457
	2:15	4.18	2901	0.17	1.49	0.69	459
	2:30	4.23	2933	0.17	1.5	0.69	461
	2:45	4.21	2922	0.17	1.5	0.69	460
	3:00	4.16	2886	0.17	1.51	0.69	460
	3:15	4.22	2927	0.17	1.52	0.69	462
	3:30	4.26	2955	0.17	1.52	0.69	461
	3:45	4.26	2955	0.17	1.53	0.69	460
	4:00	4.16	2886	0.17	1.53	0.69	460
	4:15	4.23	2936	0.17	1.53	0.68	458
	4:30	4.26	2955	0.17	1.54	0.69	460
	4:45	4.24	2940	0.17	1.55	0.69	460
	5:00	4.2	2915	0.17	1.55	0.69	459
	5:15	4.16	2884	0.17	1.55	0.69	459
	5:30	4.29	2976	0.17	1.55	0.69	460
	5:45	4.21	2921	0.17	1.55	0.69	460
	6:00	4.28	2968	0.17	1.55	0.69	460
	6:15	4.17	2895	0.17	1.54	0.69	460
	6:30	4.19	2906	0.17	1.53	0.69	460
	6:45	4.2	2913	0.17	1.52	0.69	459

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	7:00	4.23	2935	0.17	1.51	0.69	460
	7:15	4.27	2965	0.17	1.5	0.69	461
	7:30	4.26	2959	0.17	1.48	0.68	458
	7:45	4.19	2904	0.17	1.47	0.68	456
	8:00	4.25	2950	0.17	1.46	0.68	457
	8:15	4.19	2905	0.17	1.45	0.68	456
	8:30	4.14	2874	0.17	1.43	0.68	457
	8:45	4.17	2891	0.17	1.42	0.68	458
	9:00	4.23	2935	0.16	1.41	0.68	458
	9:15	4.25	2948	0.17	1.4	0.68	458
	9:30	4.19	2906	0.17	1.38	0.68	454
	9:45	4.26	2954	0.17	1.37	0.68	455
	10:00	4.33	3008	0.17	1.36	0.68	453
	10:15	0.09	62.5	0.17	1.35	0.68	454
	10:30	7.32	5079	0.17	1.34	0.68	453
	10:45	3.13	2174	0.17	1.32	0.68	452
	11:00	4.75	3294	0.16	1.31	0.67	452
	11:15	4.06	2820	0.16	1.3	0.67	452
	11:30	4.4	3055	0.16	1.28	0.68	454
	11:45	4.28	2972	0.16	1.27	0.68	453
	12:00	4.31	2994	0.16	1.26	0.67	450
	12:15	4.25	2946	0.16	1.25	0.68	452
	12:30	4.14	2873	0.16	1.24	0.67	452
	12:45	2.85	1979	0.16	1.23	0.68	452
	13:00	3.25	2258	0.16	1.22	0.68	452
	13:15	4.82	3342	0.16	1.21	0.67	451
	13:30	4.31	2994	0.16	1.2	0.67	450
	13:45	4.49	3113	0.16	1.18	0.67	451
	14:00	4.34	3011	0.16	1.17	0.67	448
	14:15	4.35	3018	0.16	1.17	0.67	450
	14:30	4.35	3016	0.16	1.17	0.67	450
	14:45	4.43	3076	0.17	1.13	0.67	448
	15:00	4.44	3083	0.16	1.11	0.67	448
	15:15	4.45	3088	0.16	1.1	0.67	446
	15:30	4.39	3043	0.17	1.09	0.67	446

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	15:45	4.3	2986	0.17	1.08	0.67	447
	16:00	4.27	2960	0.16	1.07	0.67	446
	16:15	4.44	3083	0.16	1.06	0.66	445
	16:30	4.36	3022	0.16	1.06	0.67	446
	16:45	4.28	2973	0.16	1.06	0.66	445
	17:00	4.32	3001	0.16	1.07	0.67	446
	17:15	4.36	3029	0.17	1.07	0.67	446
	17:30	4.51	3130	0.16	1.08	0.67	446
	17:45	4.29	2977	0.16	1.09	0.67	448
	18:00	4.31	2991	0.16	1.1	0.67	452
	18:15	4.3	2987	0.16	1.12	0.67	448
	18:30	4.27	2960	0.16	1.13	0.67	448
	18:45	4.26	2959	0.16	1.14	0.67	451
	19:00	4.29	2979	0.17	1.16	0.67	450
	19:15	3.87	2687	0.16	1.17	0.67	450
	19:30	0.09	59.7	0.16	1.19	0.67	450
	19:45	9.7	6731	0.16	1.2	0.68	452
	20:00	8.48	5882	0.17	1.21	0.67	452
	20:15	2.98	2070	0.16	1.23	0.67	452
	20:30	4.65	3226	0.17	1.25	0.67	450
	20:45	4.25	2949	0.18	1.25	0.67	452
	21:00	4.27	2963	0.17	1.25	0.68	452
	21:15	4.32	2997	0.16	1.26	0.67	452
	21:30	4.29	2975	0.16	1.28	0.68	452
	21:45	4.3	2984	0.16	1.3	0.67	450
	22:00	4.36	3027	0.17	1.3	0.68	456
	22:15	4.24	2945	0.17	1.32	0.68	454
	22:30	4.28	2969	0.17	1.34	0.68	453
	22:45	4.33	3005	0.17	1.35	0.68	453
	23:00	4.29	2979	0.18	1.36	0.68	453
	23:15	4.24	2939	0.17	1.37	0.68	454
	23:30	4.3	2987	0.17	1.39	0.68	454
	23:45	4.22	2926	0.17	1.4	0.68	456
3/11/2014	0:00	4.31	2988	0.17	1.41	0.68	454
	0:15	4.23	2938	0.18	1.41	0.68	456

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	0:30	4.3	2982	0.17	1.42	0.68	455
	0:45	4.16	2889	0.17	1.43	0.68	455
	1:00	4.25	2948	0.18	1.44	0.68	454
	1:15	4.29	2977	0.17	1.44	0.68	455
	1:30	4.31	2994	0.17	1.45	0.68	454
	1:45	4.27	2965	0.17	1.45	0.68	454
	2:00	4.25	2951	0.17	1.46	0.68	456
	2:15	4.19	2904	0.17	1.46	0.68	454
	2:30	4.22	2927	0.17	1.47	0.68	458
	2:45	4.22	2929	0.17	1.47	0.68	454
	3:00	4.23	2935	0.17	1.48	0.68	456
	3:15	4.2	2914	0.17	1.48	0.68	455
	3:30	4.19	2910	0.17	1.49	0.68	454
	3:45	4.21	2925	0.17	1.49	0.68	453
	4:00	4.27	2964	0.16	1.5	0.68	454
	4:15	4.2	2913	0.17	1.51	0.68	456
	4:30	4.17	2892	0.16	1.51	0.68	455
	4:45	4.25	2950	0.17	1.52	0.68	453
	5:00	4.25	2949	0.17	1.53	0.68	454
	5:15	4.21	2919	0.16	1.54	0.68	454
	5:30	4.18	2902	0.17	1.55	0.68	456
	5:45	4.19	2909	0.16	1.56	0.68	456
	6:00	4.29	2977	0.16	1.57	0.68	454
	6:15	4.19	2909	0.16	1.59	0.68	455
	6:30	4.21	2920	0.16	1.6	0.68	457
	6:45	4.26	2954	0.16	1.61	0.68	455
	7:00	4.2	2915	0.16	1.62	0.68	458
	7:15	4.19	2909	0.16	1.63	0.68	458
	7:30	4.22	2931	0.16	1.63	0.68	456
	7:45	4.21	2923	0.16	1.63	0.68	456
	8:00	4.26	2953	0.16	1.62	0.68	457
	8:15	4.19	2908	0.17	1.62	0.68	457
	8:30	4.22	2927	0.16	1.61	0.68	457
	8:45	4.21	2919	0.16	1.59	0.68	458
	9:00	4.21	2922	0.16	1.57	0.68	458

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

15 minute data

Date	Time	TCEQ-40J					
		Flow (MGD)	Flow (gpm)	NTU	Nitrate (ppm)	Conductivity (ms/cm)	TDS (ppm)
	9:15	4.21	2923	0.16	1.55	0.68	454
	9:30	4.24	2945	0.16	1.53	0.68	453
	9:45	4.34	3009	0.16	1.51	0.68	454
	10:00	4.39	3049	0.16	1.49	0.68	452
	10:15	4.28	2972	0.16	1.46	0.67	452
	10:30	4.23	2938	0.16	1.45	0.67	446
	10:45	4.23	2932	0.16	1.42	0.67	451
	11:00	4.27	2962	0.15	1.4	0.68	452
	11:15	4.28	2967	0.16	1.38	0.67	451
	11:30	4.4	3053	0.16	1.37	0.66	441
	11:45	4.3	2982	0.16	1.35	0.67	448

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Daily data

	TCEQ-40J									
Date	<i>E. coli</i> (MPN)	<i>Giardia</i>	<i>Cryptosporidium</i>	Fluoride Residual (ppm)	Quantity Water Treated MGD	Chlorine Dioxide (ppm)	Min. Total Chlorine Residual (ppm)	Chlorite (ppm)	Color	Odor
1/27/2014	0	0	0	0.44	4.06	0.2	3.28	0.25	0	0
1/28/2014	0	0	0	0.42	3.87	0.34	3.34	0.25	0	0
1/29/2014	0	0	0	0.42	3.89	0.04	3.25	0.24	0	0
1/30/2014	0	0	0	0.39	3.53	0.05	3.3	0.24	0	0
1/31/2014	0	0	0	0.42	3.74	0.15	3.03	0.24	0	1
2/1/2014	0	0	0	0.74	3.34	0.14	3.14	0.18	0	1
2/2/2014	0	0	0	0.44	3.74	0.35	3.11	0.25	0	1
2/3/2014	0	0	0	0.45	3.6	0.02	3.1	0.25	0	1
2/4/2014	0	0	0	0.42	3.73	0.04	3.06	0.24	0	1
2/5/2014	0	0	0	0.45	3.76	0	3.09	0.26	0	1
2/6/2014	0	0	0	0.41	3.63	0.06	3.28	0.26	0	1
2/7/2014	0	0	0	0.39	3.75	0	3.4	0.25	0	1
2/8/2014	0	0	0	0.36	4.03	0	3.4	0.28	0	1
2/9/2014	0	0	0	0.36	3.96	0.05	2.98	0.3	0	1
2/10/2014	0	0	0	0.33	4.01	0	3.17	0.28	8	1
2/11/2014	0	0	0	0.35	3.93	0.04	3.25	0.27	0	1
2/12/2014	0	0	0	0.35	4	0	3.2	0.28	0	1
2/13/2014	0	0	0	0.36	3.91	0.06	3.23	0.28	0	1
2/14/2014	0	0	0	0.39	4.06	0.05	3.04	0.27	3	1
2/15/2014	0	0	0	0.34	4.05	0	3.17	0.26	0	1
2/16/2014	0	0	0	0.34	4.24	0	2.57	0.26	1	1
2/17/2014	0	0	0	0.44	4.1	0.07	2.67	0.31	3	1
2/18/2014	0	0	0	0.46	4.06	0	2.42	0.32	1	1
2/19/2014	0	0	0	0.47	3.89	0	2.4	0.29	1	1
2/20/2014	0	0	0	0.37	4.01	0	1.74	0.32	1	1
2/21/2014	0	0	0	0.4	3.63	0	2.75	0.29	1	1
2/22/2014	0	0	0	0.42	3.89	0	2.92	0.31	2	1
2/23/2014	0	0	0	0.42	3.97	0	0.67	0.28	1	1
2/24/2014	0	0	0	0.44	3.73	0	2.92	0.25	2	1
2/25/2014	0	0	0	0.44	3.91	0	2.92	0.24	1	1
2/26/2014	0	0	0	0.42	3.87	0.1	3.39	0.23	2	1

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Daily data

	TCEQ-40J									
Date	<i>E. coli</i> (MPN)	<i>Giardia</i>	<i>Cryptosporidium</i>	Fluoride Residual (ppm)	Quantity Water Treated MGD	Chlorine Dioxide (ppm)	Min. Total Chlorine Residual (ppm)	Chlorite (ppm)	Color	Odor
2/27/2014	0	0	0	0.5	3.77	0	3.77	0.26	2	1
2/28/2014	0	0	0	0.48	3.82	0	3.09	0.27	1	1
3/1/2014	0	0	0	0.47	3.86	0	3.46	0.26	< 1	1
3/2/2014	0	0	0	0.44	3.82	0	3.53	0.25	< 1	1
3/3/2014	0	0	0	0.46	3.83	0	3.46	0.26	2	1
3/4/2014	0	0	0	<0.5	3.98	0	3.9	0.29	2	1
3/5/2014	0	0	0	0.5	4.03	0	3.56	0.3	1	1
3/6/2014	0	0	0	0.5	4.14	0.03	3.79	0.29	1	1
3/7/2014	0	0	0	0.6	4.21	0	3.51	0.31	2	1
3/8/2014	0	0	0	0.5	4.05	0	3.82	0.29	1	1
3/9/2014	0	0	0	0.6	4.22	0	3.71	0.31	4	1
3/10/2014	0	0	0	0.6	4.1	0	3.46	0.31	< 1	1
3/11/2014	0	0	0	0.6	4.14	0	3.55	0.3	3	1

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Weekly data

	Date	TCEQ-40J					
		Alkalinity (ppm)	Hardnes as CaCO3	Langlier S.I.	TTHM (ug/L)	HAA5 (ug/L)	Bromate (ppm)
Week 1	1/27/2014			-0.6			
	1/28/2014						
	1/29/2014	53	63		12.1	8.4	<1
	1/30/2014						
	1/31/2014						
	2/1/2014						
	2/2/2014						
Week 2	2/3/2014	40	51		12.2	6.9	<1
	2/4/2014						
	2/5/2014			-0.1			
	2/6/2014						
	2/7/2014						
	2/8/2014						
	2/9/2014						
Week 3	2/10/2014	52	46	-0.3	14.9	8.8	<1
	2/11/2014						
	2/12/2014						
	2/13/2014						
	2/14/2014						
	2/15/2014						
	2/16/2014						
Week 4	2/17/2014	67	66	1.01	16.7	9.1	<1
	2/18/2014			0.62			
	2/19/2014			0.67			
	2/20/2014						
	2/21/2014						
	2/22/2014						
	2/23/2014						
Week 5	2/24/2014	48	66	0.18	13.8	7.7	1.2
	2/25/2014						
	2/26/2014	38	32	0.02	14.1	7.8	
	2/27/2014						
	2/28/2014						
	3/1/2014						
	3/2/2014						
	3/3/2014	58	71	-0.1	15.7	9.3	<1
	3/4/2014						

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Weekly data

		TCEQ-40J						
		Date	Alkalinity (ppm)	Hardnes as CaCO3	Langlier S.I.	TTHM (ug/L)	HAA5 (ug/L)	Bromate (ppm)
Week 6	3/5/2014							
	3/6/2014							
	3/7/2014	57	78					
	3/8/2014							
	3/9/2014							
Week 7	3/10/2014	62	81		16.5	10	<1	
	3/11/2014	63	83	0.38	14.8	9.9	0.57	

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	<i>E. coli</i> off-site	<i>Giardia</i> off-site (Cysts/L)	<i>Cryptosporidium</i> off-site (Oocysts/L)	TCV off-site MPN/L	Perchlorate (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Asbestos
1/27/2014		0	0	0	0	0	0	0
2/26/2014	0	0	0		0	0	0	0
3/11/2014	0	0	0		0	0	1.3	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	Barium (ug/L)	Beryllium (ug/L)	Cadmium (ug/L)	Chromium (ug/L0	Cyanide (mg/L)	Fluoride (mg/L)	Lead (ug/L)	Mercury (ug/)
1/27/2014	21	0	0	0	0	0.69	0	0
2/26/2014	18	0	0	0	0	0.5	0	0
3/11/2014	21	0	0	0	0	0.7	0	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	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)	Benzopyrene (ug/L)
1/27/2014	1.1	0	1.1	0	0	0	0	0
2/26/2014	0.5	0.01	0.51	2	0	0	0	0
3/11/2014	1.5	0.02	1.52	2.2	0	0	0	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	Carbofuran (ug/L)	Chlordane (ug/L)	Dalapon (ug/L)	Dibromochloropropane (ug/L)	Di(2-ethylhexyl)adipate (ug/L)	Di(2-ethylhexyl)phthalate (ug/L)	Dinoseb (ug/L)	Diquat (ug/L)
1/27/2014	0	0	0	0	0	0	0	0
2/26/2014	0	0	0	0	0	0	0	0
3/11/2014	0	0	0	0	0	0	0	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	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)
1/27/2014	0	0	0	0	0	0	0	0
2/26/2014	0	0	0	0	0	0	0	0
3/11/2014	0	0	0	0	0	0	0	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	Lindane (ug/L)	Methoxychlor (ug/L)	Oxamyl (Vydate) (ug/L)	Pentachlorophenol (ug/L)	Picloram (ug/L)	Polychlorinated biphenyls (PCB) (ug/L)	Simazine (ug/L)	Toxaphene (ug/L)
	TCEQ-40J							
1/27/2014	0	0	0	0	0	0	0	0
2/26/2014	0	0	0	0	0	0	0	0
3/11/2014	0	0	0	0	0	0	0	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	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)	1,2-Dichloropropane (ug/L)
1/27/2014	0	0	0	0	0	0	0	0
2/26/2014	0	0	0	0	0	0	0	0
3/11/2014	0	0	0	0	0	0	0	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	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)
1/27/2014	0	0	0	0	0	0	0	0
2/26/2014	0	0	0	0	0	0	0	0
3/11/2014	0	0	0	0	0	0	0	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	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)	Xylenes (total) (ug/L)
1/27/2014	0	0	0	0	0	0	0	0
2/26/2014	0	0	0	0	0	0	0	0
3/11/2014	0	0	0	0	0	0	0	0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	Aluminum (ug/L)	Chloride (mg/L)	Color	Copper (ug/L)	Corrosivity (Aggressive Index)	Foaming agents	Hydrogen sulfide (mg/L)	Iron (mg/L)
1/27/2014	0	94	0	0	12	0	0	0.022
2/26/2014	8.8	100	0	1.3	12.2	0	0	0
3/11/2014	26	120	0	1.3	12.1	0		0

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	Manganese (ug/L)	Odor	pH	Silver (ug/L)	Sulfate (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Uranium (UG/L)
1/27/2014	0	2	8.8	0	29	0	0	0
2/26/2014	0	0	8.9	0	29	0	0	0.14
3/11/2014	0	2	8.8	0	30			

TCEQ-40J: Conventional 2010 SWTP Clearwell Effluent Water Quality

(after 2010 clearwell transfer pumps and prior to GSTs)

Start, Day 3, End data

Date	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	9.4	0	0.77	260	0
2/26/2014	0	8.4	0	0	260	0
3/11/2014					320	0

TCEQ 40J Offsite Laboratory Data Summary

Sample Number:
063633 '14 JAN 27

PLEASE Print Below with BALLPOINT Pen or TYPEWRITER
2430001 CITY OF WICHITA FALLS

Water System ID Nbr. Name of Water System
Transfer Pump **WICHITA**
Point of Collection County

Submitter ID Nbr: Submitter Phone Nbr: **(940) 691-1153**

SEND **Blair Ramon**
Name
RESULTS **4801 Big Ed Neal Dr**
Street Address
TO **Wichita Falls, TX 76310**
City, State, Zip

TYPE OF SYSTEM ☒ Public ☐ Dairy ☐ Private ☐ Bottled ☐ School ☐ Pool

SAMPLE IS ☒ Distribution ☐ Raw ☐ River ☐ Lake ☐ Construction

WATER SOURCE ☐ Repeat ☐ Special ☐ Well ☐ Depth

Other Special Information: ARRIVAL TEMP. **44°C ON ICE**

Date & Time of Collection **01 / 27 / 14** **8:15** **AM** Collected by:

Received for Delivery by Month - Day - Year Time AM - PM Received by:

Received by Laboratory **1 / 27 / 2014** **9:40** **AM** Received by: **JMC**

FREE CI- **0** TOTAL CI- **0**

LABORATORY REPORT (Do Not Write in this Space)

~~FECAL COLIFORM ORGANISMS:~~ Test Method: ☒ Colilert ☐ MFT

Performed by: **J. Powers** on **1 / 27 / 2014** at **11:00** **AM**

Reported by: **J. Hays / JMC** on **1 / 28 / 2014** at **11:30** **AM**

RESULTS: **<1.0** MPN per 100 ml as ~~Fecal Coliforms~~ (E. Coli)
DUPLICATE **<1.0** MPN/100ml as E. Coli
Unsuitable for Analysis - PLEASE Resubmit. Reason:
BLANK **<1.0** MPN/100ml as E. Coli

604#1308355 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

Sample Number: **063826 '14 FEB 26**

PLEASE Print Below with BALLPOINT Pen

2430001

CITY OF WICHITA FALLS

Water System ID Nbr.

Name of Water System

Cleanwell EAP.
Point of Collection

WICHITA

County

Submitter Phone Nbr:

Submitter Fax Nbr:

(940)691-1153

SEND

Blair Ramon
Name

RESULTS

4801 Big Ed Neal Dr.
Street Address

TO

Wichita Falls, TX 76310
City, State, Zip

TYPE OF SYSTEM ☒ Public ☐ Individual/Private

Distr.

SAMPLE IS ☐ Raw Effluent ☐ Raw

WATER SOURCE ☐ River ☐ Lake ☐ Both River and Lake ☐ Well: ☐ Depth

Chlorine Residual:

Free: 0

Total: 0

Other Special Information:

Arrival Temperature:

91°C
min

Date & Time
of Collection

02/26/14
Month - Day - Year

6:57
Time

AM PM

Collected by:

Received for
Delivery by

02/26/14
Month - Day - Year

09:22
Time

AM PM

Received by:

Received by
Laboratory

02/26/14
Month - Day - Year

09:22
Time

AM PM

Received by:

LABORATORY REPORT (Do Not Write in this Space)

~~FECAL COLIFORM~~ ORGANISMS:

Test Method: Colilert

Performed by:

J. Hays
Jessica

on

02/26/14
Month - Day - Year

at

10:30 AM
Time PM

Reported by:

on

02/27/14
Month - Day - Year

at

1:50 PM
Time PM

RESULTS: <1.0

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

Unsuitable for Analysis - PLEASE Resubmit. Reason:

DUPLICATE <1.0 MPN/100ml as E. Coli

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

Lot #: 1308355
Exp: 09-2015

Sample Number:

063922 '14 MAR 11

PLEASE Print Below with BALLPOINT Pen

2430001

CITY OF WICHITA FALLS

Water System ID Nbr.

Name of Water System

Clearwell Effluent

WICHITA

Point of Collection

County

Submitter Phone Nbr:

940-691-1153

Submitter Fax Nbr:

940-691-4121

SEND

Blair Raman

RESULTS

4801 Big Ed Neal Drive

Street Address

TO

Wichita Falls, TX 76310

City, State, Zip

TYPE OF SYSTEM ☒ Public ☐ Individual/Private

DIST

SAMPLE IS ☐ Raw Effluent ☐ Raw

WATER SOURCE ☐ River ☐ Lake ☐ Both River and Lake ☐ Well: ☐ Depth

Chlorine Residual:

Free:

Total:

Other Special Information:

Arrival Temperature:

76°C ON ICE

Date & Time
of Collection

03/11/14

7:17

AM - PM

MLC

Received for
Delivery by

Month - Day - Year

Time

AM - PM

Received by:

Received by
Laboratory

3/11/2014 9:40

Time

AM - PM

Received by:

LABORATORY REPORT (Do Not Write in this Space)

~~FECAL COLIFORM ORGANISMS:~~

Test Method: Colilert

Performed by:

on

3/11/14

at

10:45 AM

Reported by:

on

3/12/14

at

11:15 AM

RESULTS:

<1.0

MPN per 100 ml as Fecal Coliforms (E. Coli)

Unsuitable for Analysis - PLEASE Resubmit. Reason:

DUPLICATE <1.0

MPN/100ml as E. Coli

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

Lot no: 1308355
Exp: 09-2015



BioVir Laboratories, Inc



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

REPORT NO.: 140046
PAGE NO.: 1 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
140046-001	Treated Wastewater	Microfilter	Total Culturable Virus	<0.011	MPN/L
Collector Blair Ramon CollectDate 1/27/2014 CollectTime: 11:40:00 AM ReceiveDate 1/28/2014 10:00:00 AM Matrix: Waste Water, treated Temp 3.3 C Volume: 302.8 L Analysis Start Date: 1/28/2014 Analysis Start Time: 1151 Analyst: ValentinaL Analysis End: 3/4/2014 Comment					
140046-002	Treated Wastewater	Clearwell/Transfer Pump	Total Culturable Virus	<0.002	MPN/L
Collector Blair Ramon CollectDate 1/27/2014 CollectTime: 12:50:00 PM ReceiveDate 1/28/2014 10:00:00 AM Matrix: Waste Water, treated Temp 3.3 C Volume: 1510.37 L Analysis Start Date: 1/28/2014 Analysis Start Time: 1225 Analyst: ValentinaL Analysis End: 3/4/2014 Comment					
140046-003	WW Eff-treated thru MF & RO	RO Permeate	Total Culturable Virus	<0.011	MPN/L
Collector Blair Ramon CollectDate 1/27/2014 CollectTime: 5:45:00 AM ReceiveDate 1/28/2014 10:00:00 AM Matrix: Waste Water, treated Temp 1.8 C Volume: 302.8 L Analysis Start Date: 1/28/2014 Analysis Start Time: 1252 Analyst: ValentinaL Analysis End: 3/4/2014 Comment From label: sampler-Blair Ramon-not listed on COC. Client contacted for vol. Per Blair Ramon, vol. is 80 Gallons.					
140046-004	Blended SW & Treated WW Effluent	Splitter Box Effluent	Total Culturable Virus	<0.014	MPN/L
Collector Misty Klein CollectDate 1/27/2014 CollectTime: 6:45:00 AM ReceiveDate 1/28/2014 10:00:00 AM Matrix: Waste Water, treated Temp 1.8 C Volume: 230.9 L Analysis Start Date: 1/28/2014 Analysis Start Time: 1320 Analyst: ValentinaL Analysis End: 3/4/2014 Comment Sampler: Misty Klein per Blair Ramon					



LAB Sample ID: 140046-013

Page 1 of 1

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: Clearwell Effluent

Client Contact: Mark Sutherland,

Client Phone: 940-691-1153

SAMPLE INFORMATION:

Name of Sampler: Yessica Dominguez Customer Sample No.: HVF Clearwell Effluent
Matrix: Waste Water, treated Date/Time Received: 1/28/2014 10:00:00 AM
Sample Point ID: Clearwell Effluent Check-in Temp. (0-20C) 1.8
Sample Collection Date: 1/27/2014 Container Type: HV Envirochek
Sample Time: 6:31:00 AM
Comments: Turbidity = 0.15 NTU Calculated Results: <0.07 Oocysts / Liter (Crypto), <0.07 Cysts / Liter (Giardia)

ASSAY RESULTS: 1623 EPA 821-R-01-025**Sample Preparation**

Analysis Date / Time	1/29/14-1631	Filter Type	Envirochek HV
Filter Serial #		Sample Vol Filtered	15.1 L
Sample Vol Examined	15.1 L	Number of Filters	1
Resuspended Conc. Vol.	5 mL	Pellet Volume	0.5 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	0

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. BioVir 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 may 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

Signature

Quality
Checked

LBarriga

Client Name: City of Wichita Falls

Report #: 312658

Sampling Point: TCEQ 23J-Secondary Reservoir

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	2981720
---	Cryptosporidium \$	1623	---	0.067	< 0.067	oocysts/L	---	02/28/14 09:00	2981720

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 28J-Splitter Box Effluent

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	2981721
---	Cryptosporidium \$	1623	---	0.067	< 0.067	oocysts/L	---	02/28/14 09:00	2981721

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 40J-Clearwell Effluent

PWS ID: TX2430001

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Giardia \$	1623	---	0.053	< 0.053	cysts/L	---	02/28/14 08:30	2981722
---	Cryptosporidium \$	1623	---	0.053	< 0.053	oocysts/L	---	02/28/14 08:30	2981722

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.

† 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 #: 313488

Sampling Point: Clearwell Effluent

PWS ID: TX2430001

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Giardia \$	1623	---	6.667	< 6.667	cysts/100L	---	03/13/14 10:20	2989598
---	Cryptosporidium \$	1623	---	6.667	< 6.667	oocysts/100L	---	03/13/14 10:20	2989598

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: Splitter Box Effluent

PWS ID: TX2430001

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Giardia \$	1623	---	0.059	< 0.059	cysts/L	---	03/13/14 10:20	2989599
---	Cryptosporidium \$	1623	---	0.059	0.059	oocysts/L	---	03/13/14 10:20	2989599

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: RRWWTP Effluent

PWS ID: TX2430001

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Giardia \$	1623	---	4.237	203.390	cysts/L	---	03/13/14 10:20	2989600
---	Cryptosporidium \$	1623	---	4.237	4.237	oocysts/L	---	03/13/14 10:20	2989600

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.

† 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:	*	^	!

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 466106

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
201401280128 Clearwell Effluent						
02/14/2014 03:08	Agressiveness Index-Calculated		12		None	0.1
01/29/2014 19:19	Alkalinity in CaCO3 units		39		mg/L	2
02/14/2014 03:08	Anion Sum - Calculated		4.2		meq/L	0.001
02/03/2014 18:02	Barium Total ICAP/MS		21	2000	ug/L	2
01/30/2014 12:59	Bicarb.Alkalinity as HCO3calc		47		mg/L	2
02/07/2014 07:39	Bromide		430		ug/L	10
01/30/2014 13:26	Bromochloroacetic acid		2.8		ug/L	1
02/04/2014 10:38	Bromodichloromethane		2.8		ug/L	0.5
02/04/2014 10:38	Bromoform		5.7		ug/L	0.5
01/28/2014 21:19	Calcium Total ICAP		14		mg/L	1
01/29/2014 09:51	Cation Sum - Calculated		4.2		meq/L	0.001
02/06/2014 01:28	Chlorate by IC		120		ug/L	10
01/30/2014 09:37	Chloride		94	250	mg/L	2
02/04/2014 10:38	Chlorodibromomethane		4.7		ug/L	0.5
02/01/2014 16:40	Chloroform (Trichloromethane)		1.1		ug/L	0.5
01/30/2014 13:26	Dibromoacetic acid		3.3		ug/L	1
01/30/2014 13:26	Dichloroacetic acid		1.3		ug/L	1
02/09/2014 18:00	Dissolved Organic Carbon		3.5		mg/L	0.3
01/29/2014 22:22	Fluoride		0.69	4	mg/L	0.05
01/28/2014 21:19	Iron Total ICAP		0.022	0.3	mg/L	0.02
02/14/2014 03:08	Langelier Index - 25 degree		0.21		None	
02/14/2014 03:08	Langelier Index at 60 degrees C		0.62		None	
01/28/2014 21:19	Magnesium Total ICAP		6.8		mg/L	0.1
01/28/2014 20:52	Nitrate as Nitrogen by IC		1.1	10	mg/L	0.1
01/28/2014 20:52	Nitrate as NO3 (calc)		4.8	45	mg/L	0.44
01/28/2014 21:41	PH (H3=past HT not compliant)		8.8		Units	0.1
02/14/2014 03:08	pH of CaCO3 saturation(25C)		8.6		Units	0.1
01/29/2014 09:51	pH of CaCO3 saturation(60C)		8.2		Units	0.1
01/28/2014 21:19	Potassium Total ICAP		9.4		mg/L	1
01/28/2014 21:19	Silica		2.7		mg/L	0.5
01/28/2014 21:19	Sodium Total ICAP		61		mg/L	1
01/28/2014 20:52	Sulfate		29	250	mg/L	0.5
02/02/2014 16:39	Total Dissolved Solids (TDS)		260	500	mg/L	10
01/30/2014 13:26	Total Haloacetic Acids (HAA5)		4.6	60	ug/L	2
01/29/2014 09:51	Total Hardness as CaCO3 by ICP (calc)		63		mg/L	3
01/28/2014 20:52	Total Nitrate, Nitrite-N, CALC		1.1		mg/L	0.1

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 466106

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
02/04/2014 16:51	Total Organic Carbon		1.5		mg/L	0.3
	201401280140	<u>Clearwell Effluent</u>				
01/28/2014 11:02	Odor at 60 C (TON)		2.0	3	TON	1

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466106

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
Clearwell Effluent (201401280128)					Sampled on 01/27/2014 0700			
EPA 200.8 - ICPMS Metals								
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Aluminum Total ICAP/MS	ND	ug/L	20	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Barium Total ICAP/MS	21	ug/L	2	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Manganese Total ICAP/MS	ND	ug/L	2	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/28/2014	02/05/2014	13:45 750000	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/28/2014	02/03/2014	18:02 749652	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 200.7 - ICP Metals								
1/28/2014	01/28/2014	21:19 748594	(EPA 200.7)	Calcium Total ICAP	14	mg/L	1	1
1/28/2014	01/28/2014	21:19 748594	(EPA 200.7)	Iron Total ICAP	0.022	mg/L	0.02	1
1/28/2014	01/28/2014	21:19 748594	(EPA 200.7)	Magnesium Total ICAP	6.8	mg/L	0.1	1
1/28/2014	01/28/2014	21:19 748594	(EPA 200.7)	Potassium Total ICAP	9.4	mg/L	1	1
1/28/2014	01/28/2014	21:19 748594	(EPA 200.7)	Silica	2.7	mg/L	0.5	1
1/28/2014	01/28/2014	21:19 748594	(EPA 200.7)	Sodium Total ICAP	61	mg/L	1	1
EPA 245.1 - Mercury Total								
2/4/2014	02/05/2014	11:35 749972	(EPA 245.1)	Mercury	ND	ug/L	0.2	1
SM5310C/E415.3 - Total Organic Carbon								
	02/04/2014	16:51 749585	(SM5310C/E415.3)	Total Organic Carbon	1.5 (Q5)	mg/L	0.3	1
SM 5310C - Dissolved Organic Carbon								
1/28/2014	02/09/2014	18:00 750795	(SM 5310C)	Dissolved Organic Carbon	3.5	mg/L	0.3	1
SM2330B - Hydroxide as OH, Calculated								
	01/29/2014	13:00	(SM2330B)	Hydroxide as OH Calculated	ND	mg/L	2	1
SM 2330B - pH of CaCO3 saturation(60C)								
	01/29/2014	09:51	(SM 2330B)	pH of CaCO3 saturation(60C)	8.2	Units	0.1	1
SM4500-CO2-D - Carbon Dioxide,Free(25C)-Calc.								
	01/29/2014	13:00	(SM4500-CO2-D)	Carbon Dioxide,Free(25C)-Calc.	ND	mg/L	2	1

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466106

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
SM 2330B - Langelier Index - 25 degree								
	02/14/2014	03:08	(SM 2330B)	Langelier Index - 25 degree	0.21	None		1
SM2330B - Carbonate as CO3, Calculated								
	02/14/2014	03:08	(SM2330B)	Carbonate as CO3, Calculated	ND	mg/L	2	1
SM 2340B - Total Hardness as CaCO3 by ICP								
	01/29/2014	09:51	(SM 2340B)	Total Hardness as CaCO3 by ICP (calc)	63	mg/L	3	1
SM 1030E - Anion Sum - Calculated								
	02/14/2014	03:08	(SM 1030E)	Anion Sum - Calculated	4.2	meq/L	0.001	1
SM 1030E - Cation Sum - Calculated								
	01/29/2014	09:51	(SM 1030E)	Cation Sum - Calculated	4.2	meq/L	0.001	1
SM 2330B - pH of CaCO3 saturation(25C)								
	02/14/2014	03:08	(SM 2330B)	pH of CaCO3 saturation(25C)	8.6	Units	0.1	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/30/2014	12:59	(SM2330B)	Bicarb.Alkalinity as HCO3calc	47	mg/L	2	1
SM 2330 - Aggressiveness Index-Calculated								
	02/14/2014	03:08	(SM 2330)	Aggressiveness Index-Calculated	12	None	0.1	1
SM 2330B - Langlier Index at 60 degrees C								
	02/14/2014	03:08	(SM 2330B)	Langlier Index at 60 degrees C	0.62	None		1
SM 1030E - Cation/Anion Difference								
	02/14/2014	03:08	(SM 1030E)	Cation/Anion Difference	0.021	%		1
EPA 505 - Organochlorine Pesticides/PCBs								
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Alachlor (Alanex)	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Aldrin	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Chlordane	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Dieldrin	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Endrin	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Heptachlor	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Heptachlor Epoxide	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.01	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	Methoxychlor	ND	ug/L	0.05	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.08	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:47	748939 (EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.1	1

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466106

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
1/28/2014	01/29/2014	04:47 748939	(EPA 505)	Total PCBs	ND	ug/L	0.1	1
1/28/2014	01/29/2014	04:47 748939	(EPA 505)	Toxaphene	ND	ug/L	0.5	1
1/28/2014	01/29/2014	04:47 748939	(EPA 505)	Tetrachlorometaxylene	98	%		1
EPA 515.4 - Chlorophenoxy Herbicides								
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	2,4,5-T	ND	ug/L	0.2	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.2	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	2,4-D	ND	ug/L	0.1	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	2,4-DB	ND	ug/L	2	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.5	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Acifluorfen	ND	ug/L	0.2	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Bentazon	ND	ug/L	0.5	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Dalapon	ND	ug/L	1	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Dicamba	ND	ug/L	0.1	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Dichlorprop	ND	ug/L	0.5	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Dinoseb	ND	ug/L	0.2	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Pentachlorophenol	ND	ug/L	0.04	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Picloram	ND	ug/L	0.1	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.1	1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	106	%		1
2/2/2014	02/04/2014	12:55 749449	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	88	%		1
SM 6251B - Haloacetic Acids								
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	Bromochloroacetic acid	2.8	ug/L	1	1
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	Dibromoacetic acid	3.3	ug/L	1	1
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	Dichloroacetic acid	1.3	ug/L	1	1
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	Total Haloacetic Acids (HAA5)	4.6	ug/L	2	1
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	1,2,3-Trichloropropane	99	%		1
1/29/2014	01/30/2014	13:26 749150	(SM 6251B)	2,3-Dibromopropionic acid	115	%		1
EPA 504.1 - EPA Method 504.1								
2/6/2014	02/06/2014	18:03 750566	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
2/6/2014	02/06/2014	18:03 750566	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
2/6/2014	02/06/2014	18:03 750566	(EPA 504.1)	1,2-Dibromopropane	100	%		1
EPA 525.2 - Semivolatiles by GCMS								
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466106

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
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	108	%		1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Acenaphthene-d10	74	%		1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Chrysene-d12	85	%		1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Perylene-d12	84	%		1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Phenanthrene-d10	79	%		1
2/5/2014	02/08/2014	20:57 750931	(EPA 525.2)	Triphenylphosphate	120	%		1
EPA 548.1 - Endothall								
1/28/2014	01/30/2014	12:33 749348	(EPA 548.1)	Endothall	ND	ug/L	5	1
EPA 1613B - 2,3,7,8-TCDD_Dioxin								
2/5/2014	02/08/2014	03:14 750890	(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5	1
2/5/2014	02/08/2014	03:14 750890	(EPA 1613B)	C12-2,3,7,8-TCDD	91	%		1
EPA 547 - Glyphosate								
	01/31/2014	19:34 749538	(EPA 547)	Glyphosate	ND	ug/L	6	1
EPA 531.2 - Aldicarb								
	01/30/2014	03:08 748895	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	01/30/2014	03:08 748895	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
EPA 549.2 - Diquat and Paraquat								
1/29/2014	01/30/2014	19:01 749304	(EPA 549.2)	Diquat	ND	ug/L	0.4	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/28/2014	20:52 748869	(EPA 300.0)	Nitrate as Nitrogen by IC	1.1	mg/L	0.1	1
	01/28/2014	20:52 748869	(EPA 300.0)	Nitrate as NO3 (calc)	4.8	mg/L	0.44	1
	01/28/2014	20:52 748869	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
	01/28/2014	20:52 748869	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	1.1	mg/L	0.1	1
EPA 300.0 - Disinfection ByProducts by 300.0								
	02/07/2014	07:39 750608	(EPA 300.0)	Bromide	430	ug/L	10	2
	02/06/2014	01:28 750535	(EPA 300.0)	Chlorate by IC	120	ug/L	10	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/30/2014	09:37 749114	(EPA 300.0)	Chloride	94	mg/L	2	2
	01/28/2014	20:52 748872	(EPA 300.0)	Sulfate	29	mg/L	0.5	1

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466106

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
MWH/LCMS-MS - Bromate by LCMS								
	01/30/2014	00:00 749291	(MWH/LCMS-MS)	Bromate by LCMS	ND	ug/L	1	1
EPA 331.0 - Perchlorate by EPA 331.0								
	01/28/2014	18:05 748627	(EPA 331.0)	Perchlorate	ND	ug/L	2	1
EPA 335.4 - Cyanide by manual distillation								
1/30/2014	01/30/2014	18:14 749300	(EPA 335.4)	Cyanide by manual distillation	ND (B1)	mg/L	0.005	1
EPA 524.2 - Volatile Organics by GCMS								
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/1/2014	02/04/2014	10:38 749971	(EPA 524.2)	Bromodichloromethane	2.8	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/1/2014	02/04/2014	10:38 749971	(EPA 524.2)	Bromoform	5.7	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (LK)	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Carbon Tetrachloride	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/1/2014	02/04/2014	10:38 749971	(EPA 524.2)	Chlorodibromomethane	4.7	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Chloroethane	ND (LK)	ug/L	0.5	1

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466106

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
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Chloroform (Trichloromethane)	1.1	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	cis-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Dichlorodifluoromethane	ND (LK,LE)	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Styrene	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Total THM	NA	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	trans-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466106

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
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	1,2-Dichloroethane-d4	104	%		1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	4-Bromofluorobenzene	107	%		1
2/1/2014	02/01/2014	16:40 749540	(EPA 524.2)	Toluene-d8	94	%		1
SM 4500F-C - Fluoride								
	01/29/2014	22:22 748989	(SM 4500F-C)	Fluoride	0.69	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	01/29/2014	19:19 748855	(SM 2320B)	Alkalinity in CaCO3 units	39	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
2/2/2014	02/02/2014	16:39 749469	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	260	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/28/2014	21:41 748738	(SM4500-HB)	PH (H3=past HT not compliant)	8.8	Units	0.1	1
SM 2120B - Apparent Color								
	01/28/2014	13:29 748707	(SM 2120B)	Apparent Color	ND	ACU	3	1
Travel Blank (201401280129)								
EPA 504.1 - EPA Method 504.1								
2/6/2014	02/06/2014	18:37 750566	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
2/6/2014	02/06/2014	18:37 750566	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
2/6/2014	02/06/2014	18:37 750566	(EPA 504.1)	1,2-Dibromopropane	107	%		1
EPA 524.2 - Volatile Organics by GCMS								
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466106

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
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Bromodichloromethane	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Bromoform	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (LK)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Carbon Tetrachloride	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Chlorodibromomethane	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Chloroethane	ND (LK)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	cis-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Dichlorodifluoromethane	ND (LK,LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

**Laboratory Data
Report: 466106**

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
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Styrene	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	trans-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	1,2-Dichloroethane-d4	100	%		1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	4-Bromofluorobenzene	100	%		1
2/1/2014	02/01/2014	17:04 749540	(EPA 524.2)	Toluene-d8	96	%		1

Clearwell Effluent (201401280140)

Sampled on 01/27/2014 1400

SM 2150B - Odor at 60 C (TON)

01/28/2014	11:02	748720	(SM 2150B)	Odor at 60 C (TON)	2.0	TON	1	1
------------	-------	--------	------------	--------------------	-----	-----	---	---

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 466137

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
<u>Clearwell Effluent (201401280173)</u>						Sampled on 01/27/2014 1730		
NONE - No test by MWH Labs								
			(NONE)	No test by MWH Labs	NA	--		1
<u>RO Feed (201401280174)</u>						Sampled on 01/27/2014 1730		
EPA 200.7 - ICP Metals								
1/29/2014	01/31/2014	19:59 749388	(EPA 200.7)	Silica	6.2	mg/L	5	10
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/28/2014	21:56 748869	(EPA 300.0)	Nitrate as Nitrogen by IC	10	mg/L	0.5	5
	01/28/2014	21:56 748869	(EPA 300.0)	Nitrate as NO3 (calc)	46	mg/L	2.2	5
	01/28/2014	21:56 748869	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.25	5
	01/28/2014	21:56 748869	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	10	mg/L	0.1	1
<u>Lagoon Effluent (201401280175)</u>						Sampled on 01/27/2014 1730		
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/28/2014	22:09 748869	(EPA 300.0)	Nitrate as Nitrogen by IC	1.8	mg/L	0.1	1
	01/28/2014	22:09 748869	(EPA 300.0)	Nitrate as NO3 (calc)	7.8	mg/L	0.44	1
	01/28/2014	22:09 748869	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
	01/28/2014	22:09 748869	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	1.8	mg/L	0.1	1

Client Name: City of Wichita Falls

Report #: 310692

Sampling Point: Clearwell Effluent

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
15541-45-4	Bromate	317.0	10 *	1.0	< 1.0	ug/L	---	02/12/14 16:36	2964792

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	3.2	ug/L	---	02/04/14 23:01	2964791
75-25-2	Bromoform	524.2	---	0.5	3.6	ug/L	---	02/04/14 23:01	2964791
67-66-3	Chloroform	524.2	---	0.5	1.1	ug/L	---	02/04/14 23:01	2964791
124-48-1	Dibromochloromethane	524.2	---	0.5	4.2	ug/L	---	02/04/14 23:01	2964791
---	Total Trihalomethanes	524.2	80 *	0.5	12.1	ug/L	---	02/04/14 23:01	2964791
631-64-1	Dibromoacetic acid	552.2	---	1.0	4.5	ug/L	02/03/14 07:45	02/04/14 02:17	2964790
79-43-6	Dichloroacetic acid	552.2	---	1.0	3.9	ug/L	02/03/14 07:45	02/04/14 02:17	2964790
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/03/14 07:45	02/04/14 02:17	2964790
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	02/03/14 07:45	02/04/14 02:17	2964790
76-03-9	Trichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	02/03/14 07:45	02/04/14 02:17	2964790
---	Total HAA5	552.2	60 *	2.0	8.4	ug/L	02/03/14 07:45	02/04/14 02:17	2964790

Client Name: City of Wichita Falls

Report #: 311351

Sampling Point: 40J-ClearwellEffluent/Transfer

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
15541-45-4	Bromate	317.0	10 *	1.0	< 10.0	ug/L	---	02/17/14 17:17	2970393

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	3.6	ug/L	---	02/12/14 22:34	2970391
75-25-2	Bromoform	524.2	---	0.5	4.5	ug/L	---	02/12/14 22:34	2970391
67-66-3	Chloroform	524.2	---	0.5	1.3	ug/L	---	02/12/14 22:34	2970391
124-48-1	Dibromochloromethane	524.2	---	0.5	5.5	ug/L	---	02/12/14 22:34	2970391
---	Total Trihalomethanes	524.2	80 *	0.5	14.9	ug/L	---	02/12/14 22:34	2970391
631-64-1	Dibromoacetic acid	552.2	---	1.0	6.0	ug/L	02/14/14 09:00	02/15/14 02:46	2970392
79-43-6	Dichloroacetic acid	552.2	---	1.0	2.8	ug/L	02/14/14 09:00	02/15/14 02:46	2970392
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/14/14 09:00	02/15/14 02:46	2970392
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	02/14/14 09:00	02/15/14 02:46	2970392
76-03-9	Trichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	02/14/14 09:00	02/15/14 02:46	2970392
---	Total HAA5	552.2	60 *	2.0	8.8	ug/L	02/14/14 09:00	02/15/14 02:46	2970392

Client Name: City of Wichita Falls

Report #: 311986

Sampling Point: TCEQ 40J-Clearwell Effluent

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
15541-45-4	Bromate	317.0	10 *	1.0	< 1.0	ug/L	---	02/28/14 15:20	2975620

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	3.8	ug/L	---	02/21/14 18:50	2975618
75-25-2	Bromoform	524.2	---	0.5	5.1	ug/L	---	02/21/14 18:50	2975618
67-66-3	Chloroform	524.2	---	0.5	1.5	ug/L	---	02/21/14 18:50	2975618
124-48-1	Dibromochloromethane	524.2	---	0.5	6.3	ug/L	---	02/21/14 18:50	2975618
---	Total Trihalomethanes	524.2	80 *	0.5	16.7	ug/L	---	02/21/14 18:50	2975618
631-64-1	Dibromoacetic acid	552.2	---	1.0	6.3	ug/L	02/24/14 08:00	02/25/14 19:44	2975619
79-43-6	Dichloroacetic acid	552.2	---	1.0	2.8	ug/L	02/24/14 08:00	02/25/14 19:44	2975619
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/24/14 08:00	02/25/14 19:44	2975619
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	02/24/14 08:00	02/25/14 19:44	2975619
76-03-9	Trichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	02/24/14 08:00	02/25/14 19:44	2975619
---	Total HAA5	552.2	60 *	2.0	9.1	ug/L	02/24/14 08:00	02/25/14 19:44	2975619

Client Name: City of Wichita Falls

Report #: 312458

Sampling Point: TCEQ 40J-Clearwell Effluent

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
15541-45-4	Bromate	317.0	10 *	1.0	1.2	ug/L	---	02/28/14 16:22	2979784

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	3.9	ug/L	---	02/26/14 23:06	2979782
75-25-2	Bromoform	524.2	---	0.5	3.7	ug/L	---	02/26/14 23:06	2979782
67-66-3	Chloroform	524.2	---	0.5	1.4	ug/L	---	02/26/14 23:06	2979782
124-48-1	Dibromochloromethane	524.2	---	0.5	4.8	ug/L	---	02/26/14 23:06	2979782
---	Total Trihalomethanes	524.2	80 *	0.5	13.8	ug/L	---	02/26/14 23:06	2979782
631-64-1	Dibromoacetic acid	552.2	---	1.0	5.0	ug/L	02/28/14 07:30	02/28/14 18:13	2979783
79-43-6	Dichloroacetic acid	552.2	---	1.0	2.7	ug/L	02/28/14 07:30	02/28/14 18:13	2979783
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/28/14 07:30	02/28/14 18:13	2979783
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	02/28/14 07:30	02/28/14 18:13	2979783
76-03-9	Trichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	02/28/14 07:30	02/28/14 18:13	2979783
---	Total HAA5	552.2	60 *	2.0	7.7	ug/L	02/28/14 07:30	02/28/14 18:13	2979783

Client Name: City of Wichita Falls

Report #: 312661

Sampling Point: RO Feed

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
14797-55-8	Nitrate	353.2	10 *	0.1	15	mg/L	---	02/28/14 17:28	2981732
14797-65-0	Nitrite	353.2	1 *	0.01	0.01	mg/L	---	02/27/14 15:19	2981732

Metals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
7631-86-9	Silica, Total	200.7	---	0.1	5.3	mg/L	---	03/04/14 10:57	2981733

Sampling Point: Lagoon Effluent

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
14797-55-8	Nitrate	353.2	10 *	0.1	0.9	mg/L	---	02/27/14 16:20	2981734

Sampling Point: 40J Clearwell 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	250	mg/L	---	02/28/14 16:26	2981735

† 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:	*	^	!

Sampling Point: TCEQ 40J-Clearwell 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	8.9	pH units	---	02/26/14 06:20	2981754
---	Color (Apparent) \$	2120 B	15 ^	5.0	< 5.0	Pt/Co units	---	02/27/14 15:14	2981759
---	Color (True) \$	2120 B	15 ^	5.0	< 5.0	Pt/Co units	---	02/27/14 15:14	2981759
---	Odor \$	2150 B	3 ^	1.00	< 1.00	TON	---	02/27/14 15:33	2981770
---	Alkalinity, Total	2320 B	---	1.00	37.6	mg/L as CaCO3	---	03/04/14 15:38	2981754
---	Saturation (Langlier) Index \$	2330 B	---	N/A	-0.26	N/A	---	03/05/14 10:47	2981754
---	Hardness, Calcium \$	2340 B	---	0.25	32	mg/L as CaCO3	---	03/04/14 14:09	2981769
---	Solids, Dissolved	2540 C	500 ^	10	260	mg/L	---	02/28/14 16:29	2981754
---	Temperature \$	2550 B	---	N/A	7.2	°C	---	02/26/14 06:20	2981754
24959-67-9	Bromide	300.0	---	0.010	0.50	mg/L	---	02/27/14 18:09	2981756
16887-00-6	Chloride	300.0	250 ^	2.0	100	mg/L	---	03/01/14 02:34	2981754
14808-79-8	Sulfate	300.0	250 ^	5.0	29	mg/L	---	02/28/14 12:19	2981754
14797-73-0	Perchlorate \$	331.0	---	0.05	< 0.05	ug/L	---	02/27/14 20:13	2981771
57-12-5	Cyanide, Total	335.4	0.2 *	0.01	< 0.01	mg/L	03/03/14 11:00	03/03/14 14:39	2981760
14797-55-8	Nitrate	353.2	10 *	0.1	0.5	mg/L	---	02/27/14 16:09	2981754
14797-65-0	Nitrite	353.2	1 *	0.01	0.01	mg/L	---	02/27/14 15:08	2981754
16984-48-8	Fluoride	4500-F- C	4 *	0.1	0.5	mg/L	---	03/04/14 12:40	2981754
---	Dissolved Organic Carbon \$	5310 C	---	0.500	4.00	mg/L	02/27/14 17:30	02/28/14 17:57	2981763

Metals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
7440-70-2	Calcium	200.7	---	0.1	13	mg/L	---	03/04/14 11:00	2981769
7439-89-6	Iron	200.7	0.3 ^	0.020	< 0.020	mg/L	---	03/04/14 11:00	2981769
7439-95-4	Magnesium	200.7	---	0.1	8.3	mg/L	---	03/04/14 11:00	2981769
7440-09-7	Potassium	200.7	---	0.2	10	mg/L	---	03/04/14 11:00	2981769
7631-86-9	Silica, Total	200.7	---	0.1	1.9	mg/L	---	03/04/14 11:00	2981769
7440-23-5	Sodium	200.7	---	0.1	67	mg/L	---	03/04/14 11:00	2981769
7429-90-5	Aluminum	200.8	50 ^	2.0	8.8	ug/L	---	03/04/14 22:03	2981769
7440-36-0	Antimony	200.8	6 *	1.0	< 1.0	ug/L	---	03/04/14 22:03	2981769
7440-38-2	Arsenic	200.8	10 *	1.0	< 1.0	ug/L	---	03/04/14 22:03	2981769
7440-39-3	Barium	200.8	2000 *	2.0	18	ug/L	---	03/04/14 22:03	2981769
7440-41-7	Beryllium	200.8	4 *	0.3	< 0.3	ug/L	---	03/04/14 22:03	2981769
7440-43-9	Cadmium	200.8	5 *	1.0	< 1.0	ug/L	---	03/04/14 22:03	2981769
7440-47-3	Chromium	200.8	100 *	0.9	< 0.9	ug/L	---	03/04/14 22:03	2981769
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L	---	03/04/14 22:03	2981769
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/04/14 22:03	2981769
7439-96-5	Manganese	200.8	50 ^	2.0	< 2.0	ug/L	---	03/04/14 22:03	2981769
7440-02-0	Nickel	200.8	---	1.0	< 1.0	ug/L	---	03/04/14 22:03	2981769
7782-49-2	Selenium	200.8	50 *	2.0	2.0	ug/L	---	03/04/14 22:03	2981769
7440-22-4	Silver	200.8	100 ^	2.0	< 2.0	ug/L	---	03/04/14 22:03	2981769
7440-28-0	Thallium	200.8	2 *	0.3	< 0.3	ug/L	---	03/04/14 22:03	2981769
7440-66-6	Zinc	200.8	5000 ^	5.0	< 5.0	ug/L	---	03/04/14 22:03	2981769
7439-97-6	Mercury	245.1	2 *	0.1	< 0.1	ug/L	03/03/14 10:12	03/03/14 14:43	2981769

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	5.0	ug/L	02/28/14 07:00	02/28/14 19:47	2981768
79-43-6	Dichloroacetic acid	552.2	---	1.0	2.8	ug/L	02/28/14 07:00	02/28/14 19:47	2981768
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	02/28/14 07:00	02/28/14 19:47	2981768
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	02/28/14 07:00	02/28/14 19:47	2981768
76-03-9	Trichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	02/28/14 07:00	02/28/14 19:47	2981768
---	Total HAA5	552.2	60 *	2.0	7.8	ug/L	02/28/14 07:00	02/28/14 19:47	2981768

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 04:23	2981775
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 04:23	2981775
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	02/28/14 15:42	03/01/14 11:15	2981774
94-75-7	2,4-D	515.3	70 *	0.1	< 0.1	ug/L	03/03/14 09:00	03/03/14 20:45	2981758
75-99-0	Dalapon	515.3	200 *	1.0	< 1.0	ug/L	03/03/14 09:00	03/03/14 20:45	2981758
88-85-7	Dinoseb	515.3	7 *	0.1	< 0.1	ug/L	03/03/14 09:00	03/03/14 20:45	2981758
87-86-5	Pentachlorophenol	515.3	1 *	0.04	< 0.04	ug/L	03/03/14 09:00	03/03/14 20:45	2981758
1918-02-1	Picloram	515.3	500 *	0.1	< 0.1	ug/L	03/03/14 09:00	03/03/14 20:45	2981758
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 20:45	2981758
15972-60-8	Alachlor	525.2	2 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
1912-24-9	Atrazine	525.2	3 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
58-89-9	gamma-BHC (Lindane)	525.2	0.2 *	0.02	< 0.02	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	< 0.6	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
72-20-8	Endrin	525.2	2 *	0.01	< 0.01	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
76-44-8	Heptachlor	525.2	0.4 *	0.04	< 0.04	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
1024-57-3	Heptachlor epoxide	525.2	0.2 *	0.02	< 0.02	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
118-74-1	Hexachlorobenzene	525.2	1 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
77-47-4	Hexachlorocyclopentadiene	525.2	50 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
72-43-5	Methoxychlor	525.2	40 *	0.1	< 0.1	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
122-34-9	Simazine	525.2	4 *	0.07	< 0.07	ug/L	02/28/14 08:30	03/01/14 10:35	2981773
1563-66-2	Carbofuran	531.2	40 *	0.9	< 0.9	ug/L	03/03/14 09:20	03/03/14 19:06	2981757
23135-22-0	Oxamyl	531.2	200 *	1.0	< 1.0	ug/L	03/03/14 09:20	03/03/14 19:06	2981757
1071-83-6	Glyphosate	547	700 *	6.0	< 6.0	ug/L	03/03/14 12:10	03/03/14 23:42	2981767
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	03/03/14 09:00	03/04/14 14:54	2981765
85-00-7	Diquat	549.2	20 *	0.4	< 0.4	ug/L	02/28/14 10:45	03/03/14 14:39	2981762

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 15:40	2981772
108-86-1	Bromobenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
74-97-5	Bromochloromethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
75-27-4	Bromodichloromethane	524.2	---	0.5	3.5	ug/L	---	02/27/14 15:40	2981772
75-25-2	Bromoform	524.2	---	0.5	4.1	ug/L	---	02/27/14 15:40	2981772
74-83-9	Bromomethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
104-51-8	n-Butylbenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
135-98-8	sec-Butylbenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
98-06-6	tert-Butylbenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
56-23-5	Carbon tetrachloride	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
108-90-7	Chlorobenzene	524.2	100 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
75-00-3	Chloroethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
67-66-3	Chloroform	524.2	---	0.5	1.3	ug/L	---	02/27/14 15:40	2981772
74-87-3	Chloromethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
95-49-8	2-Chlorotoluene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
106-43-4	4-Chlorotoluene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
124-48-1	Dibromochloromethane	524.2	---	0.5	5.2	ug/L	---	02/27/14 15:40	2981772
---	Total Trihalomethanes	524.2	80 *	0.5	14.1	ug/L	---	02/27/14 15:40	2981772
96-12-8	1,2-Dibromo-3-chloropropane (DBCP) \$	524.2	---	0.2	< 0.2	ug/L	---	02/27/14 15:40	2981772
106-93-4	1,2-Dibromoethane (EDB) \$	524.2	---	0.2	< 0.2	ug/L	---	02/27/14 15:40	2981772
74-95-3	Dibromomethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
95-50-1	1,2-Dichlorobenzene	524.2	600 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
541-73-1	1,3-Dichlorobenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
106-46-7	1,4-Dichlorobenzene	524.2	75 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
75-71-8	Dichlorodifluoromethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
75-34-3	1,1-Dichloroethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
107-06-2	1,2-Dichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
75-35-4	1,1-Dichloroethylene	524.2	7 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
156-59-2	cis-1,2-Dichloroethylene	524.2	70 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
156-60-5	trans-1,2-Dichloroethylene	524.2	100 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
75-09-2	Dichloromethane	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
78-87-5	1,2-Dichloropropane	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
142-28-9	1,3-Dichloropropane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
594-20-7	2,2-Dichloropropane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
563-58-6	1,1-Dichloropropylene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
10061-01-5	cis-1,3-Dichloropropylene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
10061-02-6	trans-1,3-Dichloropropylene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
542-75-6	1,3-Dichloropropylene, cis & trans \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
100-41-4	Ethylbenzene	524.2	700 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
87-68-3	Hexachlorobutadiene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
98-82-8	Isopropylbenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
99-87-6	4-Isopropyltoluene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
1634-04-4	Methyl-t-butyl ether (MTBE) \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
91-20-3	Naphthalene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
103-65-1	n-Propylbenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
100-42-5	Styrene	524.2	100 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772

Client Name: City of Wichita Falls

Report #: 312663

630-20-6	1,1,1,2-Tetrachloroethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
79-34-5	1,1,2,2-Tetrachloroethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
127-18-4	Tetrachloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
108-88-3	Toluene	524.2	1000 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
87-61-6	1,2,3-Trichlorobenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
120-82-1	1,2,4-Trichlorobenzene	524.2	70 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
71-55-6	1,1,1-Trichloroethane	524.2	200 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
79-00-5	1,1,2-Trichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
79-01-6	Trichloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
75-69-4	Trichlorofluoromethane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
96-18-4	1,2,3-Trichloropropane \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
95-63-6	1,2,4-Trimethylbenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
108-67-8	1,3,5-Trimethylbenzene \$	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
75-01-4	Vinyl chloride	524.2	2 *	0.2	< 0.2	ug/L	---	02/27/14 15:40	2981772
95-47-6	1,2-Xylene	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
179601-23-1	1,3 + 1,4-Xylene	524.2	---	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772
1330-20-7	Xylenes, Total	524.2	10000 *	0.5	< 0.5	ug/L	---	02/27/14 15:40	2981772

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 *	0.2	< 0.2	mf/L	02/27/14 11:24	03/05/14 15:01	2981755
1746-01-6	Dioxin	1613	30 *	5	< 5	pg/L	---	03/05/14 09:30	2981761
---	Foaming Agents (MBAS)	5540 C	0.5 *	0.2	< 0.2	mg/L	---	02/27/14 15:35	2981766

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

Sampling Point: TCEQ 40J-Clearwell 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	8.6	pH units	---	02/27/14 16:50	2981759

† 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 #: 312921

Sampling Point: TCEQ 40J-Clearwell Effluent

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
15541-45-4	Bromate	317.0	10 *	1.0	< 10.0	ug/L	---	03/04/14 20:57	2984302

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	3.8	ug/L	---	03/05/14 13:16	2984300
75-25-2	Bromoform	524.2	---	0.5	5.0	ug/L	---	03/05/14 13:16	2984300
67-66-3	Chloroform	524.2	---	0.5	1.3	ug/L	---	03/05/14 13:16	2984300
124-48-1	Dibromochloromethane	524.2	---	0.5	5.6	ug/L	---	03/05/14 13:16	2984300
---	Total Trihalomethanes	524.2	80 *	0.5	15.7	ug/L	---	03/05/14 13:16	2984300
631-64-1	Dibromoacetic acid	552.2	---	1.0	6.9	ug/L	03/06/14 07:40	03/07/14 01:08	2984301
79-43-6	Dichloroacetic acid	552.2	---	1.0	2.4	ug/L	03/06/14 07:40	03/07/14 01:08	2984301
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	03/06/14 07:40	03/07/14 01:08	2984301
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	03/06/14 07:40	03/07/14 01:08	2984301
76-03-9	Trichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	03/06/14 07:40	03/07/14 01:08	2984301
---	Total HAA5	552.2	60 *	2.0	9.3	ug/L	03/06/14 07:40	03/07/14 01:08	2984301

Client Name: City of Wichita Falls

Report #: 313344

Sampling Point: TCEQ 32J-2010ClarifierEffluent

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Dissolved Organic Carbon §	5310 C	---	0.500	4.73	mg/L	03/11/14 17:30	03/12/14 22:14	2988249

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

Sampling Point: TCEQ 40J-Clearwell Effluent

PWS ID: TX2430001

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
15541-45-4	Bromate	317.0	10 *	1.0	< 1.0	ug/L	---	03/13/14 21:43	2988252

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	3.9	ug/L	---	03/12/14 01:01	2988250
75-25-2	Bromoform	524.2	---	0.5	5.6	ug/L	---	03/12/14 01:01	2988250
67-66-3	Chloroform	524.2	---	0.5	1.3	ug/L	---	03/12/14 01:01	2988250
124-48-1	Dibromochloromethane	524.2	---	0.5	5.7	ug/L	---	03/12/14 01:01	2988250
---	Total Trihalomethanes	524.2	80 *	0.5	16.5	ug/L	---	03/12/14 01:01	2988250
631-64-1	Dibromoacetic acid	552.2	---	1.0	7.0	ug/L	03/14/14 08:30	03/14/14 22:46	2988251
79-43-6	Dichloroacetic acid	552.2	---	1.0	3.0	ug/L	03/14/14 08:30	03/14/14 22:46	2988251
79-08-3	Monobromoacetic acid	552.2	---	1.0	< 1.0	ug/L	03/14/14 08:30	03/14/14 22:46	2988251
79-11-8	Monochloroacetic acid	552.2	---	2.0	< 2.0	ug/L	03/14/14 08:30	03/14/14 22:46	2988251
76-03-9	Trichloroacetic acid	552.2	---	1.0	< 1.0	ug/L	03/14/14 08:30	03/14/14 22:46	2988251
---	Total HAA5	552.2	60 *	2.0	10.0	ug/L	03/14/14 08:30	03/14/14 22:46	2988251

† 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:	*	^	!

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: City of Wichita Falls
Project: DPR Verification
Sample ID: Clearwell Effluent
Legal Location:
Collection Date: 1/27/2014 07:00

Date: 07-Feb-14
Work Order: 1401337
Lab ID: 1401337-2
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 (+/- 26)	U	45	pCi/l	NA	1/30/2014 08:32
Ag-110m	ND (+/- 4.7)	U	8.4	pCi/l	NA	1/30/2014 08:32
Al-26	ND (+/- 7.4)	U	12.6	pCi/l	NA	1/30/2014 08:32
Am-241	ND (+/- 50)	U	82	pCi/l	NA	1/30/2014 08:32
Be-7	ND (+/- 35)	U	61	pCi/l	NA	1/30/2014 08:32
Bi-212	ND (+/- 73)	U	113	pCi/l	NA	1/30/2014 08:32
Bi-214	ND (+/- 12)	U,J	20	pCi/l	NA	1/30/2014 08:32
Ce-139	ND (+/- 3.4)	U	5.7	pCi/l	NA	1/30/2014 08:32
Ce-144	ND (+/- 23)	U	39	pCi/l	NA	1/30/2014 08:32
Co-56	ND (+/- 8.8)	U	15.4	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 (+/- 5)	U	9.1	pCi/l	NA	1/30/2014 08:32
Co-60	ND (+/- 5.8)	U	9.8	pCi/l	NA	1/30/2014 08:32
Cr-51	ND (+/- 37)	U	63	pCi/l	NA	1/30/2014 08:32
Cs-134	ND (+/- 5.5)	U	9.5	pCi/l	NA	1/30/2014 08:32
Cs-137	ND (+/- 5.3)	U	9	pCi/l	NA	1/30/2014 08:32
Eu-152	ND (+/- 32)	U	58	pCi/l	NA	1/30/2014 08:32
Eu-154	ND (+/- 27)	U	50	pCi/l	NA	1/30/2014 08:32
Eu-155	ND (+/- 15)	U	26	pCi/l	NA	1/30/2014 08:32
Fe-59	ND (+/- 11)	U	20	pCi/l	NA	1/30/2014 08:32
I-131	ND (+/- 5.4)	U	8.7	pCi/l	NA	1/30/2014 08:32
K-40	ND (+/- 99)	U	179	pCi/l	NA	1/30/2014 08:32
Mn-54	ND (+/- 5.3)	U	9.1	pCi/l	NA	1/30/2014 08:32
Na-22	ND (+/- 5.1)	U	9.2	pCi/l	NA	1/30/2014 08:32
Nb-94	ND (+/- 5.7)	U	10.2	pCi/l	NA	1/30/2014 08:32
Nb-95	ND (+/- 4.8)	U	8.7	pCi/l	NA	1/30/2014 08:32
Pa-234m	ND (+/- 830)	U	1450	pCi/l	NA	1/30/2014 08:32
Pb-212	ND (+/- 9.1)	U	15.5	pCi/l	NA	1/30/2014 08:32
Pb-214	ND (+/- 12)	U,J	22	pCi/l	NA	1/30/2014 08:32
Ru-106	ND (+/- 41)	U	71	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	21	pCi/l	NA	1/30/2014 08:32
Sc-46	ND (+/- 5)	U	8.8	pCi/l	NA	1/30/2014 08:32
Th-227	ND (+/- 23)	U	38	pCi/l	NA	1/30/2014 08:32
Th-234	ND (+/- 91)	U	158	pCi/l	NA	1/30/2014 08:32
Tl-208	ND (+/- 7.5)	U	12.6	pCi/l	NA	1/30/2014 08:32
U-235	ND (+/- 39)	U	65	pCi/l	NA	1/30/2014 08:32
Zn-65	ND (+/- 12)	U	22	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 (+/- 1.1)	U	2.7	pCi/l	NA	1/31/2014 13:22
GROSS BETA	9.4 (+/- 2.4)		3.1	pCi/l	NA	1/31/2014 13:22
ICPMS METALS			SW6020		Prep Date: 2/4/2014	PrepBy: NAQ

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: City of Wichita Falls
Project: DPR Verification
Sample ID: Clearwell Effluent
Legal Location:
Collection Date: 1/27/2014 07:00

Date: 07-Feb-14
Work Order: 1401337
Lab ID: 1401337-2
Matrix: WATER
Percent Moisture: 100.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
URANIUM	ND		0.1	UG/L	10	2/5/2014 14:35
RA-226 BY RADON EMANATION - METHOD 903.1						
Ra-226	ND (+/- 0.1)	U	0.12	pCi/l	NA	2/6/2014 15:05
Carr: BARIUM	93.6		40-110	%REC	NA	2/6/2014 15:05
RADIUM-228 ANALYSIS BY GFPC						
Ra-228	ND (+/- 0.31)	U	0.62	pCi/l	NA	2/3/2014 11:13
Carr: BARIUM	97.1		40-110	%REC	NA	2/3/2014 11:13
STRONTIUM-90 ANALYSIS BY GFPC						
Sr-90	0.77 (+/- 0.35)	LT	0.58	pCi/l	NA	2/3/2014 13:35
Carr: STRONTIUM	75.1		40-110	%REC	NA	2/3/2014 13:35
SULFIDE						
SULFIDE	ND		2	MG/L	1	1/31/2014
TRITIUM ANALYSIS BY LIQUID SCINTILLATION						
H-3	ND (+/- 220)	U	380	pCi/l	NA	1/31/2014 16:47

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: City of Wichita Falls
Project: DPR Verification
Sample ID: TCEQ 40J-Clearwell Eff.
Legal Location:
Collection Date: 2/26/2014 06:00

Date: 12-Mar-14
Work Order: 1402418
Lab ID: 1402418-4
Matrix: WATER
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 (+/- 30)	U	52	pCi/l	NA	3/3/2014 13:26
Ag-110m	ND (+/- 4.2)	U	7.5	pCi/l	NA	3/3/2014 13:26
Al-26	ND (+/- 6.6)	U	11.7	pCi/l	NA	3/3/2014 13:26
Am-241	ND (+/- 23)	U	37	pCi/l	NA	3/3/2014 13:26
Be-7	ND (+/- 33)	U	57	pCi/l	NA	3/3/2014 13:26
Bi-212	ND (+/- 58)	U	99	pCi/l	NA	3/3/2014 13:26
Bi-214	ND (+/- 13)	U,J	22	pCi/l	NA	3/3/2014 13:26
Ce-139	ND (+/- 2.8)	U	4.7	pCi/l	NA	3/3/2014 13:26
Ce-144	ND (+/- 18)	U	30	pCi/l	NA	3/3/2014 13:26
Co-56	ND (+/- 8.6)	U	14.8	pCi/l	NA	3/3/2014 13:26
Co-57	ND (+/- 2.3)	U	4.1	pCi/l	NA	3/3/2014 13:26
Co-58	ND (+/- 4.3)	U	6.9	pCi/l	NA	3/3/2014 13:26
Co-60	ND (+/- 5.3)	U	9.6	pCi/l	NA	3/3/2014 13:26
Cr-51	ND (+/- 33)	U	56	pCi/l	NA	3/3/2014 13:26
Cs-134	ND (+/- 4.6)	U	8.4	pCi/l	NA	3/3/2014 13:26
Cs-137	ND (+/- 4.5)	U	7.7	pCi/l	NA	3/3/2014 13:26
Eu-152	ND (+/- 27)	U	48	pCi/l	NA	3/3/2014 13:26
Eu-154	ND (+/- 27)	U	45	pCi/l	NA	3/3/2014 13:26
Eu-155	ND (+/- 11)	U	19	pCi/l	NA	3/3/2014 13:26
Fe-59	ND (+/- 9.6)	U	15	pCi/l	NA	3/3/2014 13:26
I-131	ND (+/- 5.4)	U	9.4	pCi/l	NA	3/3/2014 13:26
K-40	ND (+/- 92)	U	157	pCi/l	NA	3/3/2014 13:26
Mn-54	ND (+/- 4.7)	U	8	pCi/l	NA	3/3/2014 13:26
Na-22	ND (+/- 5.1)	U	8.9	pCi/l	NA	3/3/2014 13:26
Nb-94	ND (+/- 4.7)	U	8.4	pCi/l	NA	3/3/2014 13:26
Nb-95	ND (+/- 4.5)	U	7.5	pCi/l	NA	3/3/2014 13:26
Pa-234m	ND (+/- 870)	U	1510	pCi/l	NA	3/3/2014 13:26
Pb-212	ND (+/- 9.1)	U	15.3	pCi/l	NA	3/3/2014 13:26
Pb-214	ND (+/- 13)	U,J	22	pCi/l	NA	3/3/2014 13:26
Ru-106	ND (+/- 40)	U	71	pCi/l	NA	3/3/2014 13:26
Sb-124	ND (+/- 4.3)	U	6.9	pCi/l	NA	3/3/2014 13:26
Sb-125	ND (+/- 11)	U	18	pCi/l	NA	3/3/2014 13:26
Sc-46	ND (+/- 4.5)	U	8.2	pCi/l	NA	3/3/2014 13:26
Th-227	ND (+/- 28)	U	46	pCi/l	NA	3/3/2014 13:26
Th-234	ND (+/- 90)	U	150	pCi/l	NA	3/3/2014 13:26
Tl-208	ND (+/- 5.8)	U	9.7	pCi/l	NA	3/3/2014 13:26
U-235	ND (+/- 18)	U	30	pCi/l	NA	3/3/2014 13:26
Zn-65	ND (+/- 11)	U	20	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 (+/- 0.84)	U	1.97	pCi/l	NA	3/8/2014 11:05
GROSS BETA	8.4 (+/- 2)		2.6	pCi/l	NA	3/8/2014 11:05
ICPMS METALS			SW6020		Prep Date: 2/28/2014	PrepBy: BAS

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: City of Wichita Falls
Project: DPR Verification
Sample ID: TCEQ 40J-Clearwell Eff.
Legal Location:
Collection Date: 2/26/2014 06:00

Date: 12-Mar-14
Work Order: 1402418
Lab ID: 1402418-4
Matrix: WATER
Percent Moisture: 100.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
URANIUM	0.14		0.1	UG/L	10	2/28/2014 15:11
RA-226 BY RADON EMANATION - METHOD 903.1						
Ra-226	ND (+/- 0.091)	U	0.107	pCi/l	NA	3/11/2014 13:33
Carr: BARIUM	91.3		40-110	%REC	NA	3/11/2014 13:33
RADIUM-228 ANALYSIS BY GFPC						
Ra-228	ND (+/- 0.22)	U	0.49	pCi/l	NA	3/7/2014 11:41
Carr: BARIUM	95.5		40-110	%REC	NA	3/7/2014 11:41
STRONTIUM-90 ANALYSIS BY GFPC						
Sr-90	ND (+/- 0.27)	U	0.55	pCi/l	NA	3/10/2014 09:45
Carr: STRONTIUM	78.5		40-110	%REC	NA	3/10/2014 09:45
SULFIDE						
SULFIDE	ND		EPA376.1	2 MG/L	1	3/4/2014
TRITIUM ANALYSIS BY LIQUID SCINTILLATION						
H-3	ND (+/- 220)	U	370	pCi/l	NA	3/4/2014 05:35

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: 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*

Date Printed: Monday, March 03, 2014

ALS Environmental -- FC

LIMS Version: 6.697

Page 1 of 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*

Date Printed: Monday, March 17, 2014

ALS Environmental -- FC

LIMS Version: 6.701

Page 1 of 1

TCEQ 40J Online Equipment Calibration Summary

Online Equipment List

TCEQ-40J		
Parameter:	Manufacturer:	Part #:
Nitrate	Hach sc200/Nitratax sc	LZX914.99.12400
conductivity	ATI Model Q46C4	Sensor #:03-0029
turbidity	Hach sc200/1720E	Cat #: 60100-18

Online Equipment Calibration

Startup Month #1			30 day cal.		
1/26/2014			02/25/14		
TCEQ-39J	unit/cal.	standard	TCEQ-39J	unit/cal.	standard
Nitrate	0.5 / 0.47	lab	Nitrate	0.50.43	lab
conductivity	0.5/0.360	lab	conductivity	0.5/0.464	lab
turbidity	20.00 / 18.49	20.00 / lot A2046 exp Feb 14	turbidity	20.00/18.13	20.00 / lot A2270 exp Sept 14

Online Equipment Verification

	Week #1	Week #2	Week #3	Week #4	Week #5	Week #6	Week #7
	1/27/2014	02/03/14	02/10/14	02/17/14	02/24/14	3/3/14	3/10/14
TCEQ-40J	unit/sample	unit/sample	unit/sample	unit/sample	unit/sample	unit/sample	unit/sample
Nitrate	0.5/0.47	0.5/0.44	0.5/0.4	0.4/0.37	0.5/0.43	0.4/0.4	1.1/1.2
conductivity	05/046	05/036	05/0468	06/0507	0.5/0.464	0.5/0.502	0.6/0.572
turbidity	20.00/18.49	20.00/21.25	20.00/21.36	20.00/19.93	20.00/18.13	20.00/19.93	20.00/19.09

TCEQ 40J Flow Meter Calibration Summary

Cypress Discharge Flow Verification

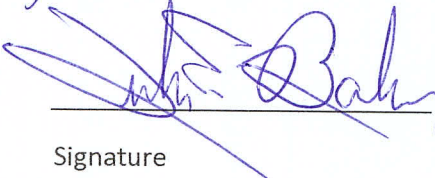
The Eastech flow meter being used to send flow information to the SCADA system at the Cypress Water Treatment Plant has been verified to be reading the correct flow on February 11, 2014. The verification meter being used was a Greyline Instruments Inc. model PTFM 1.0 A-1, serial number 56729 with sensor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

Eastech Flow Reading: 4.2 mgd Time: 13:10

Greyline Flow Reading: 4.4 mgd Time: 13:10

Luke Baker

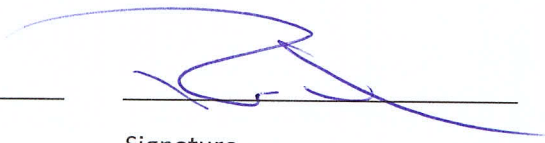
Name of Reader



Signature

Rusty Park

Name of Reader



Signature

Model: PTFM 1.0 A-1

Manufacturer: Greyline Instruments Inc.

SN: 56729

Sensor: SE16B

Calibration Date: January 24, 2014

Sensor SNs: 14A28932, 14A28933

Cal Constant: 0.984

TEST CONDITIONS

Pipe Material: PVC

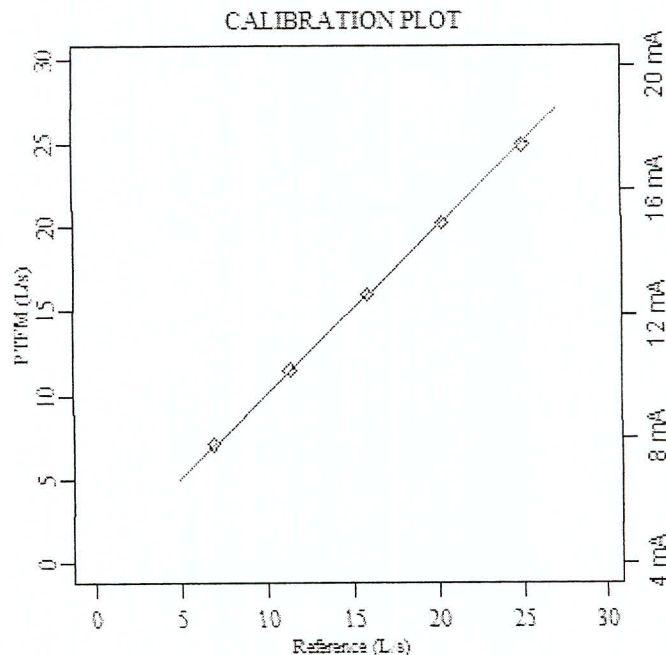
Pipe OD: 114.3 mm

Pipe Wall: 6.35 mm

Water Temp: 20.3 °C

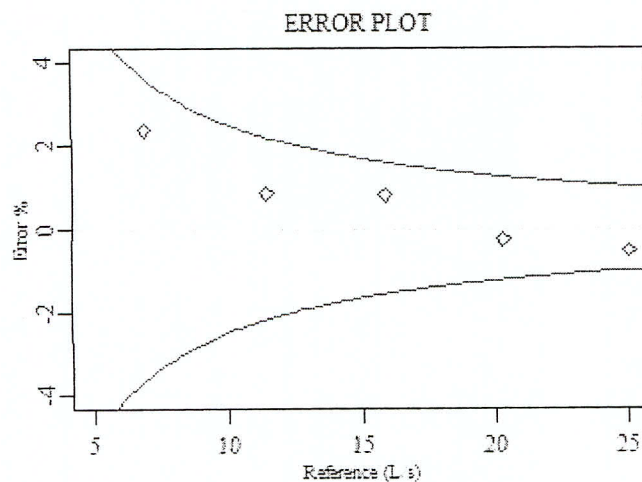
Sensor Spacing : 67.3 mm

Pipe Configuration : Horizontal, straight,
6.1m long, mounted
1.2m from inlet.



CALIBRATION DATA

Ref Meter (L/s)	TTFM (L/s)	TTFM (4-20mA)	Error (L/s)	Error %
6.91	7.07	7.81	0.16	2.3
11.42	11.51	10.21	0.09	0.8
15.85	15.97	12.62	0.12	0.8
20.29	20.24	14.92	-0.05	-0.2
25.08	24.94	17.46	-0.14	-0.6

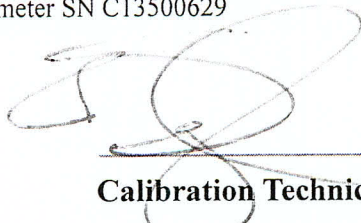


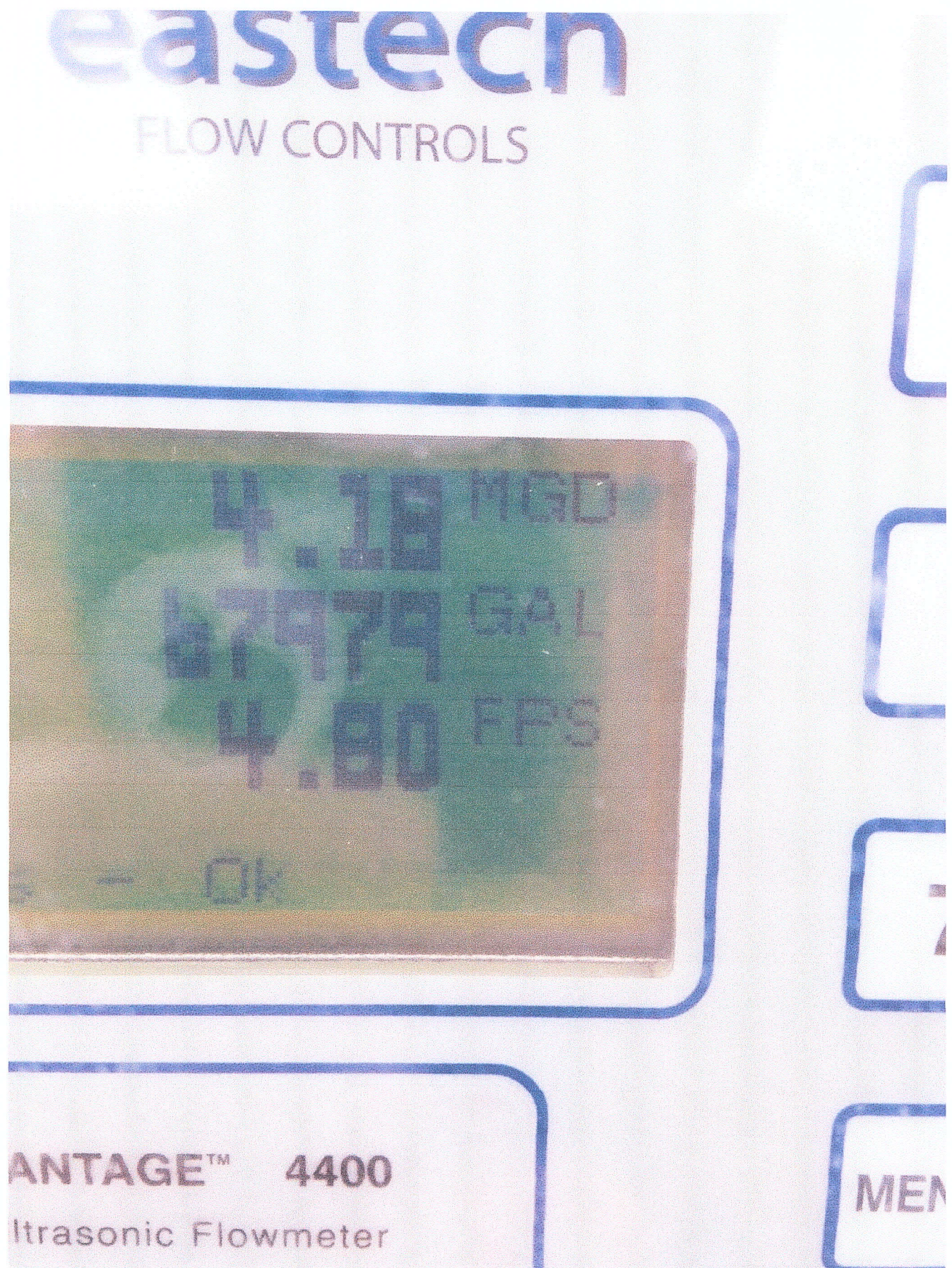
NOTES:

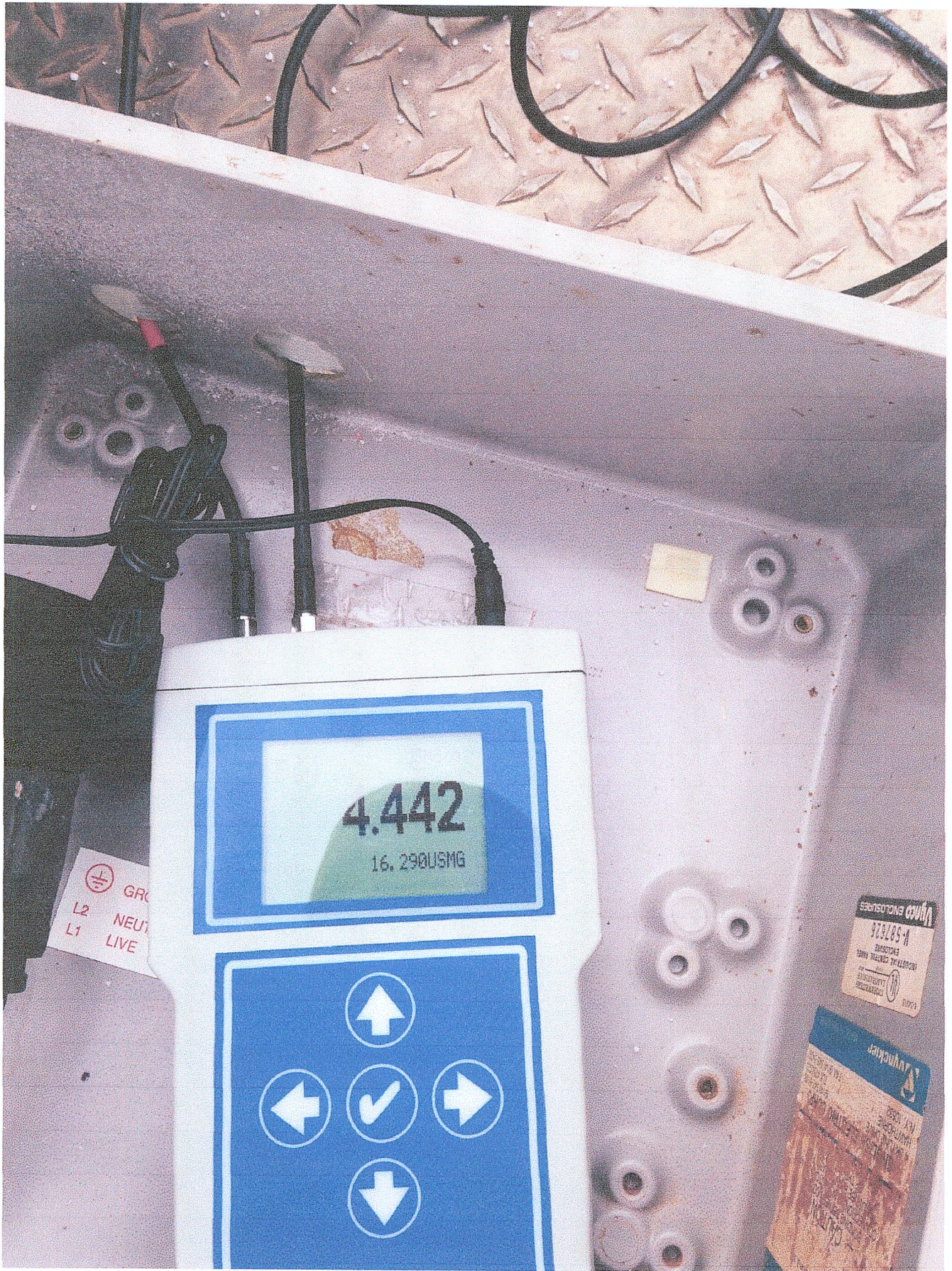
- Specified tolerance +/- 1% of reading or 0.03 m/s whichever is greater.
- Reference is 4" magmeter with known accuracy and maintains NIST traceability.
- Model: Krohne OPTIFLUX KC 2000F/6 4" magmeter SN C13500629

January 24, 2014

Print Date


Calibration Technician





Cypress 2010 Plant Discharge Flow Verification

The Eastech flow meter being used to send flow information to the SCADA system at the Cypress Water Treatment Plant has been verified to be reading the correct flow on February 28, 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.

Eastech Flow Reading: 3.77 mgd Time: 1:08 pm

Greyline PTFM 1.0 Flow Reading: 4.19 mgd Time: 1:08 pm

Luke E. Baker

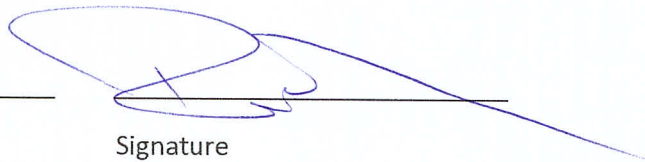
Name of Reader



Signature

Rusty Park

Name of Reader



Signature

Model: PTFM 1.0 A-1

Manufacturer: Greyline Instruments Inc.

SN: 56729

Sensor: SE16B

Calibration Date: January 24, 2014

Sensor SNs: 14A28932, 14A28933

Cal Constant: 0.984

TEST CONDITIONS

Pipe Material: PVC

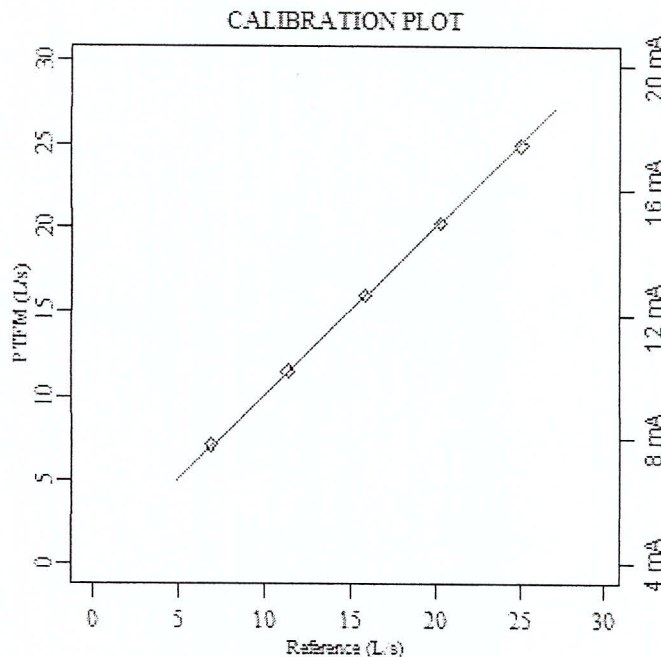
Pipe OD: 114.3 mm

Pipe Wall: 6.35 mm

Water Temp: 20.3 °C

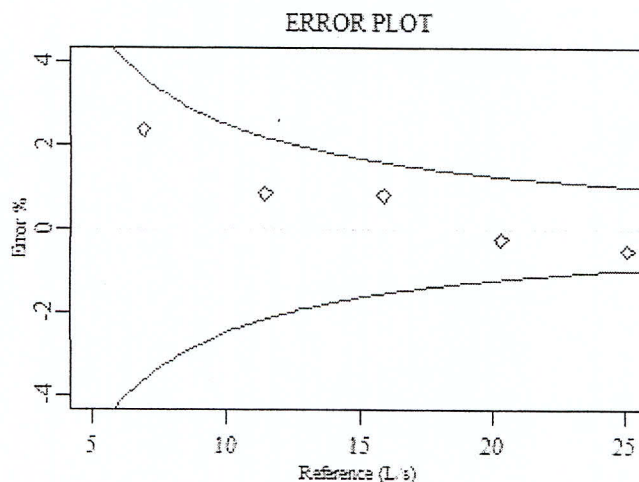
Sensor Spacing : 67.3 mm

Pipe Configuration : Horizontal, straight,
6.1m long, mounted
1.2m from inlet.



CALIBRATION DATA

Ref Meter (L/s)	TTFM (L/s)	TTFM (4-20mA)	Error (L/s)	Error %
6.91	7.07	7.81	0.16	2.3
11.42	11.51	10.21	0.09	0.8
15.85	15.97	12.62	0.12	0.8
20.29	20.24	14.92	-0.05	-0.2
25.08	24.94	17.46	-0.14	-0.6



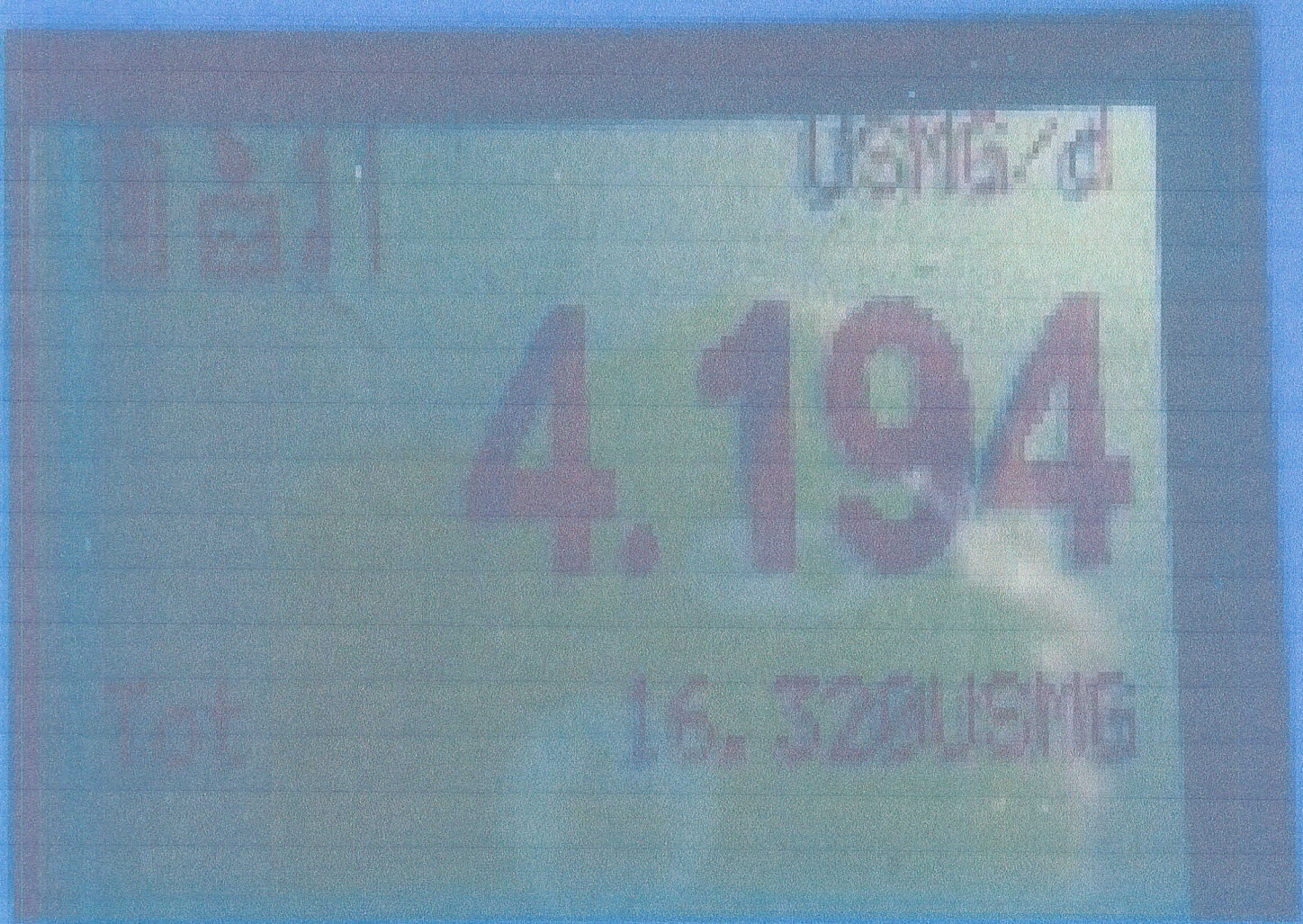
NOTES:

- Specified tolerance +/- 1% of reading or 0.03 m/s whichever is greater.
- Reference is 4" magmeter with known accuracy and maintains NIST traceability.
- Model: Krohne OPTIFLUX KC 2000F/6 4" magmeter SN C13500629

January 24, 2014

Print Date

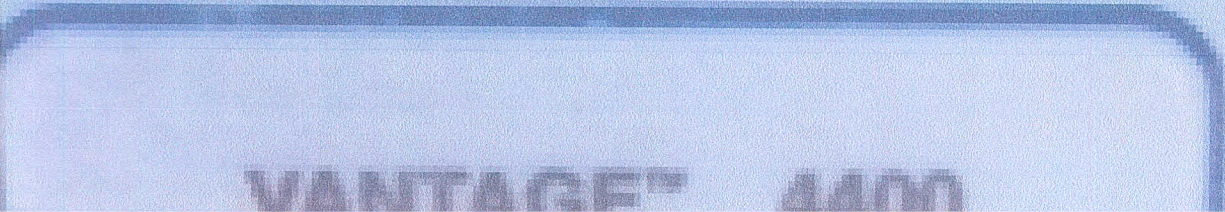
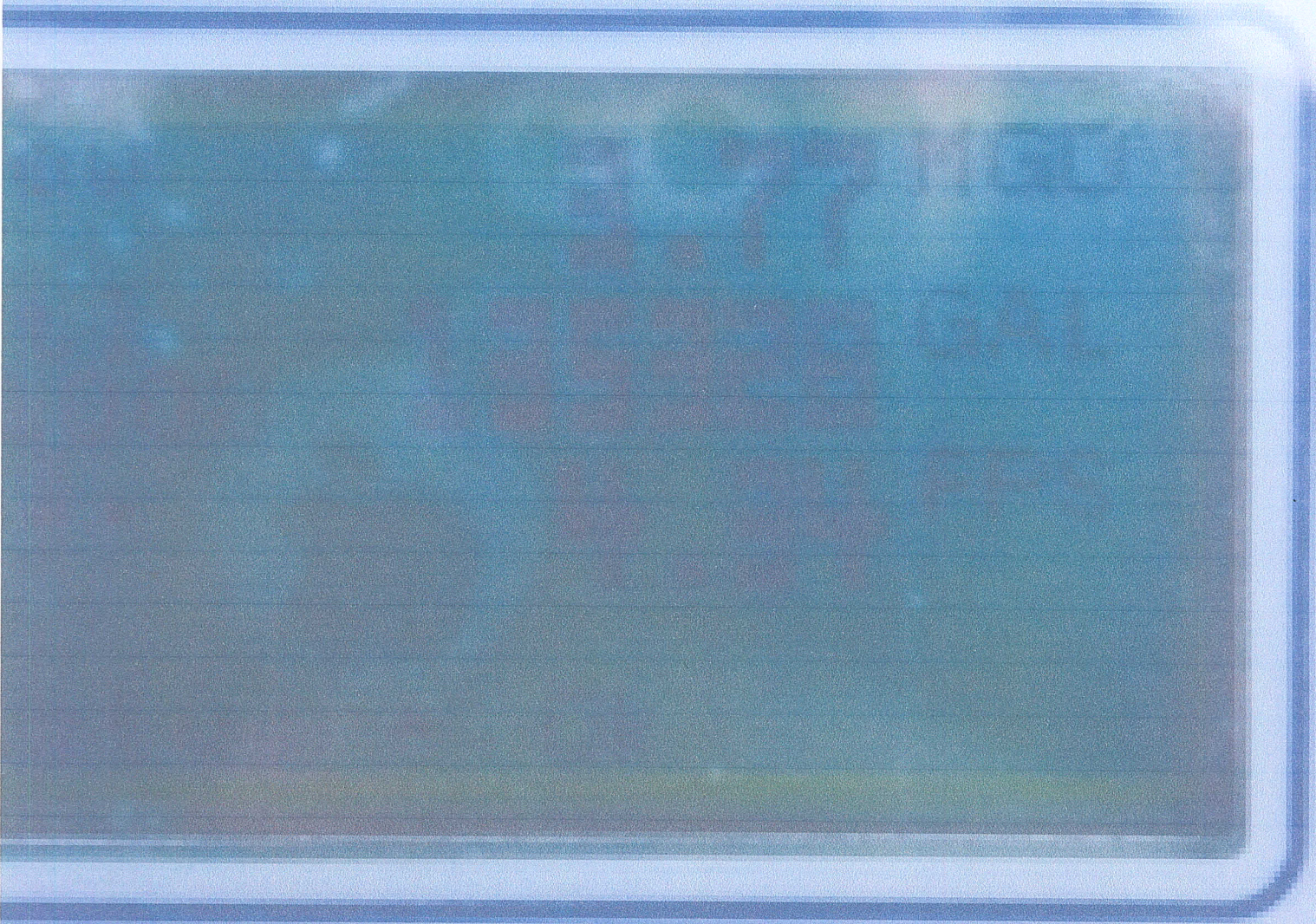
[Signature]
Calibration Technician





eastech

FLOW CONTROLS



VANTAGE™ 4400

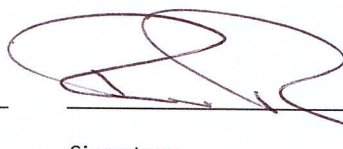
Cypress 2010 Plant Discharge Flow Verification

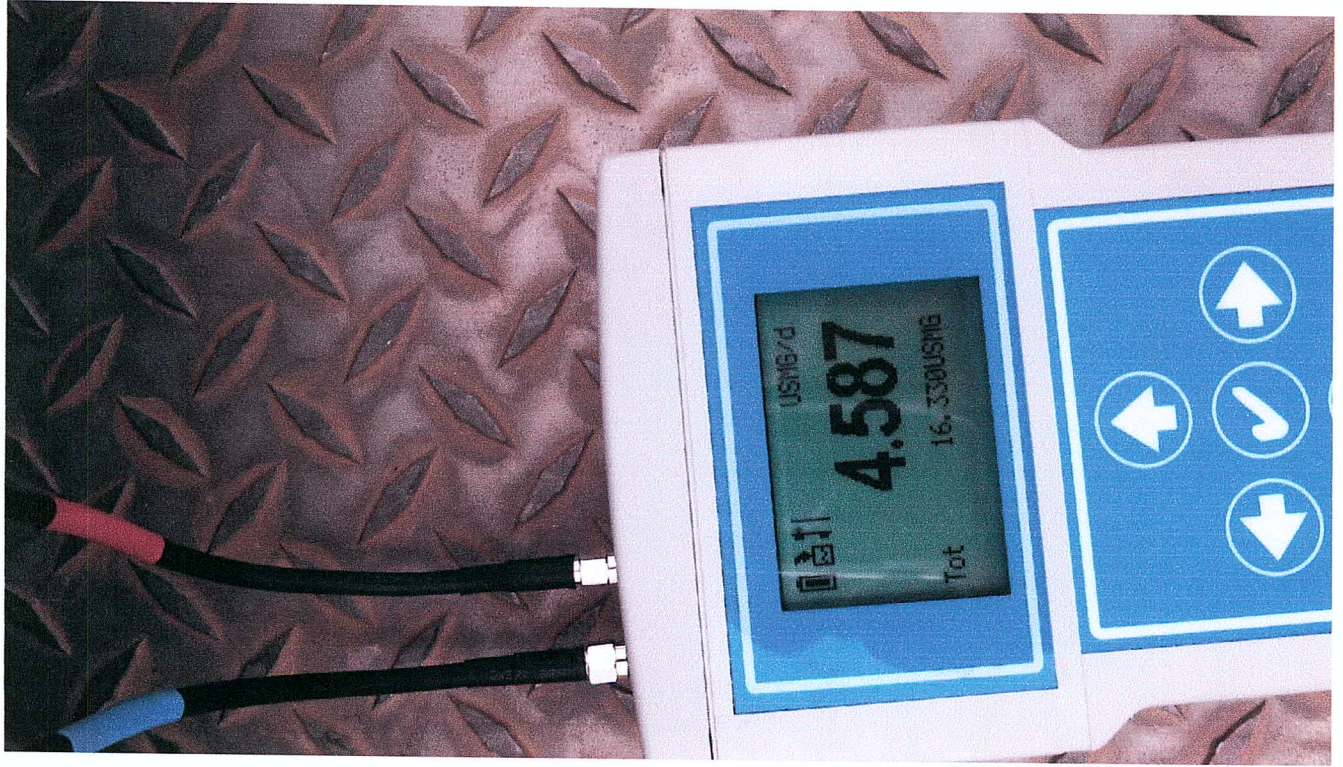
The Eastech flow meter being used to send flow information to the SCADA system at the Cypress Water Treatment Plant has been verified to be reading the correct flow on March 7, 2014. The verification meter being used was a Greyline Instruments Inc. model PTFM 1.0 A-1, serial number 56729 with sensor serial numbers 14A28932 and 14A28933. The calibration certificate for said Greyline instrument is attached to this document.

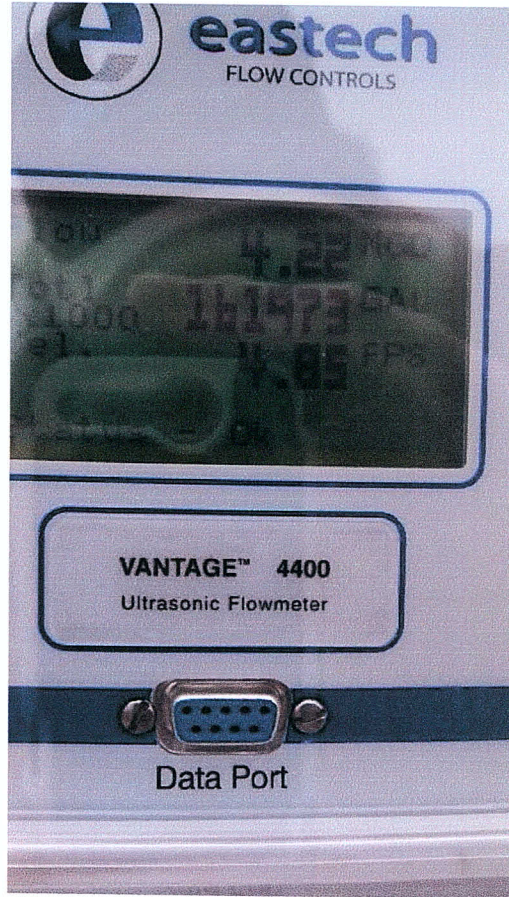
Eastech Flow Reading: 4.22 MGD Time: 8:30 AM

Greyline PTFM 1.0 Flow Reading: 4.587 Time: 8:30 AM

STEVE Willett 
Name of Reader Signature

Wooty Park 
Name of Reader Signature





IMG_20140307_082127_492.jpg
1 of 1



Open with

Model: PTFM 1.0 A-1

SN: 56729

Sensor: SE16B

Sensor SNs: 14A28932, 14A28933

Manufacturer: Greyline Instruments Inc.

Calibration Date: January 24, 2014

Cal Constant: 0.984

TEST CONDITIONS

Pipe Material: PVC

Pipe OD: 114.3 mm

Pipe Wall: 6.35 mm

Water Temp: 20.3 °C

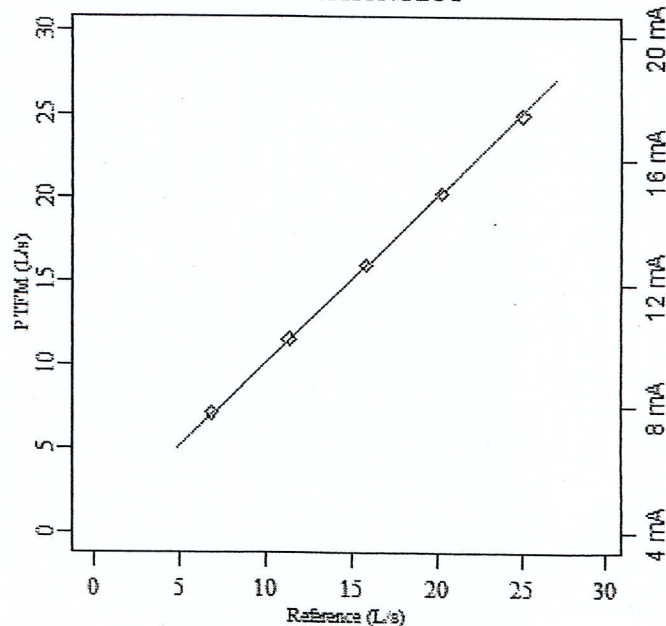
Sensor Spacing : 67.3 mm

Pipe Configuration : Horizontal, straight,
6.1m long, mounted
1.2m from inlet.

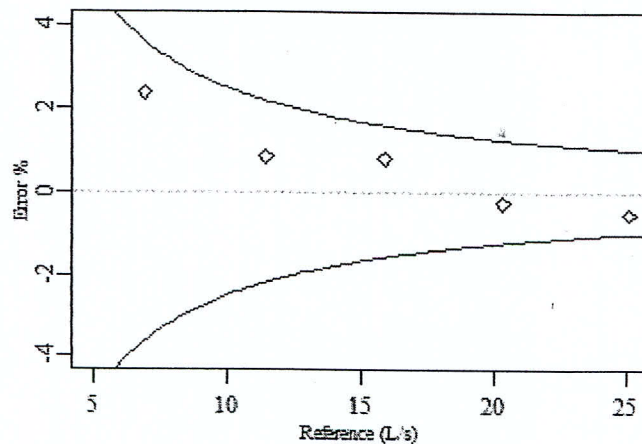
CALIBRATION DATA

Ref Meter (L/s)	TTFM (L/s)	TTFM (4-20mA)	Error (L/s)	Error %
6.91	7.07	7.81	0.16	2.3
11.42	11.51	10.21	0.09	0.8
15.85	15.97	12.62	0.12	0.8
20.29	20.24	14.92	-0.05	-0.2
25.08	24.94	17.46	-0.14	-0.6

CALIBRATION PLOT



ERROR PLOT

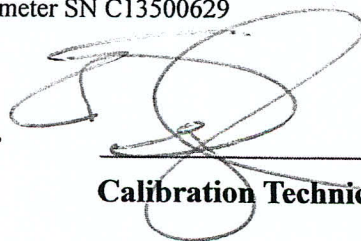


NOTES:

- Specified tolerance +/- 1% of reading or 0.03 m/s whichever is greater.
- Reference is 4" magmeter with known accuracy and maintains NIST traceability.
- Model: Krohne OPTIFLUX KC 2000F/6 4" magmeter SN C13500629

January 24, 2014

Print Date


Calibration Technician