

APPENDIX P

PILOT PLANT WATER QUALITY TESTING DATA

Lopez Project - Pilot Plant Data				Lopez Lake	Temp	pH (Field)	Free Chlorine Residual	Total Chlorine Residual	Chlorite	Chlorate	Alkalinity (as CaCO ₃)	Total Algae	Blue-greens	Diatoms	Flagellates	Greens	Apparent Color	True Color	Odor	Turbidity	Al	Fe	Mn	TOC	UV ₂₅₄ Abs	Total THMs	HCCl ₃	HCCl ₂ Br	HCClBr ₂	HCCl ₃	THAA	MCAA	DCAA	TCAA	MBAA	DBAA	Comments						
Analysis #	Sampler	Collected	Sample Site	Intake#	°C		mg/L	mg/L	mg/L	mg/L	mg/L	Orgs/mm ²	Orgs/mm ²	Orgs/mm ²	Orgs/mm ²	Orgs/mm ²	CU	CU	TON	NTU	ug/L	ug/L	ug/L	mg/L	1/cm	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L				
20010928002	Beaton	09/28/2001 9:00	Filter Effluent SDS - 24 hours																							41.2	35.8	5.4	<0.50	<0.50	18.4	<1.0	15.1	3.3	<1.0	<1.0	Feeding 25ppm JC1647, (Cl2R-Field=0.03mg/L, Cl2R-T-Field=0.18mg/L)						
20011001007	Beaton	09/29/2001 9:08	Filter Effluent SDS - 48 hours																							40.3	33.8	5	<0.50	1.5	28.8	<1.0	24	4.8	<1.0	<1.0	Feeding 25ppm JC1679						
20011001002	Beaton	09/28/2001 13:45	DAF Effluent									11	0	11	0	0																								Feeding 30ppm JC1679, 1.5ppm ClO2			
20011001003	Beaton	09/28/2001 13:45	Filtered Water						0.71	<0.10								3	2	0.2				4.6	0.09																Feeding 30ppm JC1679, 1.5ppm ClO2		
20011001004	Beaton	09/28/2001 13:45	Filtered Water																																								
20011001001	Beaton	09/28/2001 14:20	Lopez Lake Intake	3							222	220	11	64	71	71					150	<5	<5	5.7	0.134																		
20011001005	Beaton	09/28/2001 15:45	Filter Effluent SDS - 02 hours						0.62	1.6																																Feeding 30ppm JC1679, 1.5ppm ClO2	
20011001006	Beaton	09/28/2001 15:45	Filter Effluent SDS - 02 hours																							47	35.8	8	0.7	2.5	36.9	<1.0	24.2	5.8	6.9	<1.0						Feeding 30ppm JC1679, 1.5ppm ClO2	
20011001008	Beaton	09/29/2001 14:00	Filter Effluent SDS - 24 hours						0.62	1.5																																Feeding 30 ppm JC1679, 1.5ppm ClO2	
20011001009	Beaton	09/29/2001 14:00	Filter Effluent SDS - 24 hours																							53.1	39.1	9.5	1.3	3.2	41.9	<1.0	27	6.3	8.6	<1.0						Feeding 30ppm JC1679, 1.5ppm ClO2	
20011001010	Beaton	09/30/2001 13:45	Filter Effluent SDS - 48 hours						0.59	1.4																																Feeding 30ppm JC1679, 1.5ppm ClO2	
20011001011	Beaton	09/30/2001 13:45	Filter Effluent SDS - 48 hours																							37.3	28.4	6.9	2	<0.50	34.4	<1.0	23.7	4.4	6.3	<1.0						Feeding 30ppm JC1679, 1.5ppm ClO2	
20011001012	Beaton	10/01/2001 10:30	Lopez Lake Intake	3							224	330	4	54	260	11									5.6	0.133																	
20011001013	Beaton	10/01/2001 10:30	DAF Effluent									29	0	25	0	4																										Feeding 35ppm JC1679, 1.25ppm ClO2	
20011001014	Beaton	10/01/2001 10:30	Filtered Water		22				0.41	<0.10								3	2.5	0.25				4.6	0.089																	Feeding 35ppm JC1679, 1.25ppm ClO2	
20011001015	Beaton	10/01/2001 10:30	Filtered Water																		210	<5	<5																			Feeding 35ppm JC1679, 1.25ppm ClO2	
20011001016	Beaton	10/01/2001 12:10	Filter Effluent SDS - 02 hours						0.43	1.5																																Feeding 35ppm JC1679, 1.25ppm ClO2	
20011001017	Beaton	10/01/2001 12:10	Filter Effluent SDS - 02 hours																							29.5	23.4	4.9	1.2	<0.50	40.4	<1.0	26.1	7	7.3	<1.0						Feeding 35ppm JC1679, 1.25ppm ClO2	
20011002094	Beaton	10/02/2001 10:10	Filter Effluent SDS - 24 hours						0.35	1.4																																Feeding 35ppm JC1647, 1.25ppm ClO2	
20011002095	Beaton	10/02/2001 10:10	Filter Effluent SDS - 24 hours																							47	35.7	8	0.9	2.4	42.5	<1.0	27.2	7.6	7.7	<1.0						Feeding 35ppm JC1647, 1.25ppm ClO2	
20011003032	Beaton	10/03/2001 10:10	Filter Effluent SDS - 48 hours				0.05	0.14	0.41	1.4																																Feeding 1.25ppm ClO2, 35ppm JC1647	
20011003033	Beaton	10/03/2001 10:10	Filter Effluent SDS - 48 hours																							39.3	30.5	7.6	1.2	<0.50	50.8	<1.0	12.2	22.3	11.4	4.9						Feeding 1.25ppm ClO2, 35ppm JC1647	
20011002096	Beaton	10/02/2001 10:30	Lopez Lake Intake								222														5.9																		
20011002097	Beaton	10/02/2001 10:30	DAF Effluent									69	4	11	54	0																										Feeding 25ppm JC1647, 2ppm Cl2 before filters	
20011002098	Beaton	10/02/2001 10:30	Filtered Water		22		1.48											2	2.5	0.19	220	<5	<5	4.8	0.072	43	32	6	4	<1												Feeding 25ppm JC1647, 2ppm Cl2 before filters	
20011002099	Beaton	10/02/2001 13:05	Filter Effluent SDS - 02 hours																							72	49.4	17.7	2.7	2.2	54.1	<1.0	32.3	18.1	3.7	<1.0						Feeding 25ppm JC1647, 2ppm Cl2 before filter	
20011003034	Beaton	10/03/2001 11:05	Filter Effluent SDS - 24 hours																							68.9	52.6	13.8	2.5	<0.50	58	<1.0	35.5	20.5	2	<1.0						Feeding 2ppm Cl2 before filters, 25ppm JC1647	
20011004005	Litzenberger	10/04/2001 11:05	Filter Effluent SDS - 48 hours																							78	59.6	15.6	2.8	<0.5	43.7	<1.0	24.5	9.7	9.5	<1.0						Feeding 25ppm JC1647, 2ppm chlorine before filters	
20011003030	Beaton	10/03/2001 9:25	Lopez Lake Intake	3							222														5.5	0.131																	
20011003031	Beaton	10/03/2001 9:25	Filtered Water		17		0.06											3	1.4	0.13	170	<5	<5	4.7	0.093	14	11	3	<1	<1													Feeding 2ppm Chlorine, 15-25ppm JC1647, (JC1647 dose reduced from 25 to 15 about 8:30AM)
20011003035	Beaton	10/03/2001 11:10	Filter Effluent SDS - 02 hours																							57.5	46.5	9.8	1.2	<0.50	48.8	<1.0	31.5	10.3	7	<1.0						Feeding 2ppm Chlorine before DAF, 15-25ppm JC1647	
20011004001	Beaton	10/04/2001 9:10	Filter Effluent SDS - 24 hours																							71.1	55.2	13.7	2.2	<0.50	44.4	<1.0	31.9	10.9	1.6	<1.0						Feeding approx 15-25ppm JC1647, 2ppm Chlorine before DAF	
20011005001	Beaton	10/05/2001 8:00	Filter Effluent SDS - 48 hours																							73	56.6	14.1	2.3	<0.50	58.3	<1.0	40.1	15.5	1.3	1.4						Feeding 2ppm chlorine before DAF, approximately 15-25ppm JC1647	