

APPENDIX A

Table 4.1 Provisional Discharge Criteria

Parameter, mg/L, or specified	Carat Lake Background Conc. (mg/L)	Aquatic Thresholds (mg/L)	Provisional Discharge Limits for Jericho based on 10:1 minimum dilutions (mg/L)		Predicted PKCA Discharge Concentrations (mg/L)		Are the discharge limits achievable?	Other Licences in the North (mg/L)				Comparison		Conclusions/Suggested Modifications
			grab	avg	Max Source Conc.	Avg Source Conc.		Diavik	Recent Ekati	Snap Lake	Snap Lake	Diavik	Ekati	
								grab	avg	grab	avg			
pH	6.63		6-9				yes	6-9	6-9	6-9	6-9			
Total Dissolved Solids	11	400	7780	3890	1635	1074	yes	na	na	na	na	na	na	Consistent with other licenses in the North
Total Suspended Solids	1.4	150	25**	15**	7	6.3	yes	25**	15**	14**	7**	same	same	Unknown potential for acute toxicity, therefore propose lower value of 4000 mg/L (grab) and 2000 mg/L (average). These would still be achievable.
Chloride - Cl	3.38		2933	1466	647	487	yes					na	na	Consistent with other licenses in the North
Ammonia - N (total)	0.009	0.59	12	6	2.9	1.8	yes	4	2	2	na	higher	lower	Potential for toxic effects above 1000 mg/L, therefore propose 1000 mg/L grab and 500 mg/L average
Nitrate - as N	0.18	3	56	28	7.4	5.0	yes					na	na	Value is midway between other sites and protective.
Nitrite - as N	0.001	0.25	5.0	2.5	0.23	0.18	yes	2	1	2	1	higher	higher	Consistent with Snap Lake, reasonable and achievable.
Phosphorus - P	0.0077		0.4	0.2	0.09	0.09	yes	0.4	0.2	0.4	0.2	same	same	Limits at other mines would still be achievable.
Aluminum - Al	0.052	0.16	2.2	1.1	0.50	0.49	yes*	3	1.5	3	1.5	lower	higher	Consistent with other licenses in the North
Arsenic - As	0.00016	0.005	0.1	0.05	0.0021	0.0013	yes	0.1	0.050	0.1	0.05	same	higher	Although these values would be protective, for consistency with Ekati/Diavik Licenses, we propose a slightly more lenient value of 3 mg/L (grab), 1.5 mg/L (average) because the aluminum is most likely to be in particulate form and bound to silicates.
Cadmium - Cd	0.00005	0.00017	0.0024	0.0012	0.0011	0.0008	yes*	0.003	0.0015	0.003	0.0015	lower	higher	Should be easily achievable at these or lower Snap Lake values
Chromium - Cr	0.0002	0.0089	0.17	0.087	0.0099	0.0047	yes	0.040	0.020	0.040	0.020	higher	higher	May be challenging to meet, but acceptable at these levels.
Copper - Cu	0.0020	0.004	0.04	0.02	0.021	0.020	yes*	0.040	0.020	0.040	0.020	same	higher	Should be achievable at these values, even for kimberlite particulates.
Lead - Pb	0.00005	0.001	0.02	0.01	0.0040	0.0038	yes	0.020	0.010	0.020	0.010	same	higher	May be challenging to meet, but acceptable at these levels.
Molybdenum - Mo	0.00005	0.073	1.5	0.73	0.14	0.075	yes	na	na	na	na	na	na	Achievable, and consistent with Diavik and Ekati water licenses
Nickel - Ni	0.0005	0.025	0.5	0.25	0.052	0.042	yes	0.10	0.050	0.10	0.050	higher	higher	Achievable and reasonable
Uranium - U	0.0002	0.02	0.4	0.2	0.68	0.12	No	na	na			na	na	Proposed values are achievable, reasonable and protective. Values in other licenses could be challenging to meet
Zinc - Zn	0.002	0.03	0.56	0.28	0.034	0.015	yes	0.02	0.01	0.02	0.01	higher	higher	Concentrations only apply to human drinking water supplies that are used on a regular and sustained basis. Therefore the much higher dilutions in Carat Lake should be considered. At dilutions of 25, discharges could be 1 mg/L (grab) and 0.5 mg/L (average). These would be achievable, and would ensure a 2 to 4 times safety factor for the camp drinking water supply.

Notes: 1. Background concentrations are from the Baseline Summary Report in the EIS (Tahera 2000). However, the background chromium concentration was re-evaluated using data with appropriate detection limits

* Although these values would be achievable, they may be challenging. Provision for amending these values following site specific studies should be considered

** These values are proposed for the operations period. Water licenses for Diavik and Snap Lake included a provision for limits of 100 mg/L (grab) and 50 mg/L (average) TSS during the construction period. Similar consideration is requested for Jenico.

APPENDIX B

[illegible]

[illegible]

1.0
.63
.80

JER-WQ1

Sample ID	Units	PKCA Discharge Criteria	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1	JER-WQ1
Date Sampled			30-Jun-05	31-Jul-05	31-Aug-05	27-Jun-06	12-Jul-06	12-Jul-06	7-Aug-06	9-Aug-06	13-Aug-06	11-Sep-06	2-Jul-07	30-Jul-07	11-Aug-07	27-Aug-07	24-Sep-07
Fecal Coliform	CFU/100 mL	20	<1	<1	<1	<1	<1	<1	15.4	2	<1	<1	<1	<1	<1	<1	<1
Field Water Temperature	deg C					5.17	12.39	12.39	15.4	15.22	14.33	9.87	5.14	11.84		8.58	3.95
Field Conductivity	uS/cm					12	11.3	11.3	8	13	12	9	19	20		13	13
Field DO	%												143.2	115		93.7	98.4
Field DO	mg/L					14.19	10.56	10.56		10.42	10.79	10.80	18.6	12.38		10.92	12.93
Field pH						6.45	5.86	5.86	7.9	5.3	5.83	5.52	7.15	7.54		7.75	7.19
Field ORP	mV					256.30	280.20	280.20		495.70	361.20	292.00	165.8	216.7		293.4	217.4
Ion Balance	Ratio										0.50						

Sample ID	Units	PKCA Discharge Criteria	CL-25	CL-25	CL-25	1-Sep-99	30-Jun-99	JER-WQ2	JER-WQ2	JER-WQ2	31-Aug-05	JER-WQ2	19-Jun-06	JER-WQ2	12-Jul-06	JER-WQ2	19-Jul-06	JER-WQ2	26-Jul-06	JER-WQ2	4-Aug-06	JER-WQ2	17-Aug-06	JER-WQ2	28-Aug-06	JER-WQ2	1-Sep-06	JER-WQ2	8-Sep-06	
Date Sampled			5-Jul-99	2-Aug-99	OL-25	1-Sep-99	30-Jun-99	JER-WQ2	JER-WQ2	JER-WQ2	24-Jul-05	JER-WQ2	31-Aug-05	JER-WQ2	19-Jun-06	JER-WQ2	12-Jul-06	JER-WQ2	19-Jul-06	JER-WQ2	26-Jul-06	JER-WQ2	4-Aug-06	JER-WQ2	17-Aug-06	JER-WQ2	28-Aug-06	JER-WQ2	8-Sep-06	
Time Sampled																														
Lab Sample ID																														
Hardness (as CaCO3)	mg/L		5.85	5.96		6.02		6.1	7.2	30.2	36.9	39.6	35.8	46.5	57.7	59.4	57.9	59.4	57.9	59.4	57.9	59.4	57.9	59.4	57.9	59.4	57.9	59.4	57.9	
Conductivity	uS/cm		12	13		25		0.02	0.025	116	122	136	123	146	161	164	161	164	161	164	161	164	161	164	161	164	161	164	161	
pH		6.0 - 8.8	6.44	6.79		7.93		6.69	6.77	7.64	7.63	7.53	7.59	7.65	7.16	7.71	7.46	7.16	7.71	7.46	7.16	7.71	7.46	7.16	7.71	7.46	7.16	7.71	7.46	
Total Dissolved Solids	mg/L		11	11		12		<15.0	<15.0	72	76	100	104	96	92	116	108	92	116	108	92	116	108	92	116	108	92	116	108	
Total Suspended Solids	mg/L		<3	<3		<3		10	<2	4	4	4	4	3	4	4	4	3	4	4	3	4	4	3	4	4	3	4	4	
Turbidity	NTU							2	3	4	4	3	2	2	3	2	2	3	2	2	3	2	3	2	3	2	2	3	2	
Ammonia as N	mg/L		<0.005	<0.005		<0.005		<0.1	<0.1	1.46	0.82	0.35	0.26	3.05	0.18	0.03	0.03	0.18	0.03	0.03	0.18	0.03	0.18	0.03	0.18	0.03	0.03	0.03	0.03	
Acidity (as CaCO3)	mg/L							3	3	3	7	2	2	3	4	3	3	4	3	3	4	3	4	3	4	3	3	4	3	
Alkalinity, Bicarbonate (as CaCO3)	mg/L							12	10	15	39	40	38	41	44	47	50	44	47	50	44	47	50	44	47	50	44	47	50	
Alkalinity, Carbonate (as CaCO3)	mg/L							<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Alkalinity, Hydroxide (as CaCO3)	mg/L							<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Alkalinity, Total (as CaCO3)	mg/L		5	6		6		10	12	32	33	32	31	34	36	39	41	36	39	41	36	39	41	36	39	41	36	39	41	36
Chloride (Cl)	mg/L		<0.5	<0.5		0.6		0.7	0.9	1.2	3.2	4.8	5.5	4.8	5.2	6.8	7.2	5.2	6.8	7.2	5.2	6.8	7.2	5.2	6.8	7.2	5.2	6.8	7.2	5.2
Fluoride (F)	mg/L							0.04	0.06	0.02	0.08	0.09	0.08	0.10	0.12	0.10	0.10	0.12	0.10	0.10	0.12	0.10	0.12	0.10	0.12	0.10	0.10	0.12	0.10	0.10
Sulfate (SO4)	mg/L		1	1		2		3.9	<0.5	0.5	3.6	5.1	5.4																	

**No Nutrients
Preservatives**

	Date Sampled	5-Jul-99	2-Aug-99	1-Sep-99	30-Jun-00	24-Jul-00	31-Aug-00	19-Jun-00	12-Jul-06	19-Jul-06	28-Jul-06	4-Aug-06	17-Aug-06	28-Aug-06	1-Sep-06	8-Sep-06
Lithium (Li)-Total	mg/L	<0.001	<0.001	<0.001												
Magnesium (Mg)-Total	mg/L	0.7	0.7	0.7	0.61	0.7	0.81	3.32	3.55	4.56	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)-Total	mg/L	0.00367	0.00152	0.00238	0.006<0.01		0.003	0.02	<0.01	0.02	<0.01	5.56	5.90	6.43	6.62	7.16
Mercury (Hg)-Total	mg/L	<0.00005	<0.00005	<0.00005	<0.00022	<0.000200	<0.0001	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.014
Molybdenum (Mo)-Total	mg/L	<0.00005	<0.00005	<0.00005	<0.0005	<0.0005	<0.0005	0.00155	0.00145	<0.00005	0.00144	0.00199	0.00235	0.00263	0.00273	0.00352
Nickel (Ni)-Total	mg/L	0.0001	0.0001	0.0001	<0.0005	<0.0005	<0.0005	0.0021	0.0019	<0.0001	0.0020	0.0022	0.0024	0.0025	0.0023	0.0024
Potassium (K)-Total	mg/L	<2	<2	<2	<0.5	<0.5	<0.5	2.5	2.5	3.0	<0.010	3.6	3.5	3.8	3.9	4.1
Selenium (Se)-Total	mg/L	<0.001	<0.001	<0.001	<0.0008	<0.0008	<0.0008	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0015	0.0020	0.0022
Silicon (Si)-Total	mg/L	<0.00001	<0.00001	<0.00001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	0.0019	<0.0001	<0.0001	<0.0001	1.25	1.05	1.11
Silver (Ag)-Total	mg/L	<2	<2	<2	1	1.3	1.5	4.7	4.7	5.6	9.1	6.2	5.0	5.0	5.3	5.6
Sodium (Na)-Total	mg/L	<0.00001	<0.00001	<0.00001	<0.0005	<0.0005	<0.0005	0.0049	0.0522	<0.0005	0.0504	0.0826	0.0936	0.105	0.111	0.129
Strontium (Sr)-Total	mg/L	<0.00005	<0.00005	<0.00005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Thallium (Tl)-Total	mg/L	<0.00001	<0.00001	<0.00001					<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0004	0.0003	<0.0001
Tin (Sn)-Total	mg/L	<0.001	<0.001	<0.001					0.0009	0.0045	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0008
Titanium (Ti)-Total	mg/L	<0.001	<0.001	<0.001	0.00012	0.0001	0.00019	0.0003	0.00121	<0.0005	0.00087	0.00145	0.00133	0.00122	0.00134	0.00148
Uranium (U)-Total	mg/L	<0.001	<0.001	<0.001	<0.0001	0.0004	0.0004	0.0004	0.0007	<0.0005	0.0011	0.0012	0.0016	0.0019	0.0019	0.0042
Vanadium (V)-Total	mg/L	<0.001	<0.001	<0.001	<0.002	0.003	0.006	0.002	0.004	0.007	0.016	0.003	0.003	0.017	0.004	0.003
Zinc (Zn)-Total	mg/L	0.012	0.011	0.007	0.013	0.013	0.006	0.071	0.013	<0.002	0.016	0.005	0.009	0.008	0.003	0.003
Aluminum (Al)-Dissolved	mg/L	<0.00005	<0.00005	<0.00005	<0.0001	<0.0001	<0.0001	0.0003	0.00025	<0.00005	0.00027	<0.00005	0.00024	0.00033	0.00033	0.00045
Arsimony (Sb)-Dissolved	mg/L	0.0001	0.0001	0.0001	<0.0001	<0.0001	0.0002	0.0002	0.0006	<0.0001	0.0004	0.0002	0.0005	0.0005	0.0008	0.0008
Arsenic (As)-Dissolved	mg/L	0.00114	0.00128	0.00099	<0.003	<0.003	<0.003	0.0144	0.0261	<0.0005	0.00823	0.0277	0.0263	0.0263	0.0241	0.0358
Barium (Ba)-Dissolved	mg/L	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beryllium (Be)-Dissolved	mg/L	<0.0005	<0.0005	<0.0005												
Bismuth (Bi)-Dissolved	mg/L	<0.0005	<0.0005	<0.0005												
Boron (B)-Dissolved	mg/L	<0.001	<0.001	<0.001	0.006<0.004		<0.004	0.009	0.012	<0.001	0.010	0.016	0.022	0.016	0.012	0.017
Cadmium (Cd)-Dissolved	mg/L	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Calcium (Ca)-Dissolved	mg/L	1.23	<0.0005	1.2	1.23	1.26	1.79	6.1	8	8.7	7.4	10.2	12.8	13	12.7	11.4
Chromium (Cr)-Dissolved	mg/L	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	<0.0004	0.0006	<0.0003	<0.0003	0.0019	0.0013	0.0041	0.0062	0.0041	0.0073
Cobalt (Co)-Dissolved	mg/L	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	0.00011	0.00009	<0.00002	0.00015	0.00003	0.00012	0.00017	0.00010	0.00010
Copper (Cu)-Dissolved	mg/L	0.0006	0.0006	0.0006	0.0061	0.0044	0.0027	0.0012	0.0049	0.0017	0.0017	<0.0001	0.0026	0.0054	0.0018	<0.0001
Iron (Fe)-Dissolved	mg/L	<0.03	<0.03	<0.03	<0.03<0.01	0.12	0.027	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead (Pb)-Dissolved	mg/L	0.00014	<0.00005	<0.00005	<0.00005	0.00007	<0.00005	0.00008	0.00007	<0.00005	<0.00005	<0.00005	<0.00005	0.00012	0.00014	0.00013
Lithium (Li)-Dissolved	mg/L	<0.001	<0.001	<0.001												
Magnesium (Mg)-Dissolved	mg/L	0.7	0.7	0.7	0.6	0.7	0.66	3.6	4.1	4.3	4.2	5.1	6.3	6.6	6.4	6.4
Manganese (Mn)-Dissolved	mg/L	0.00287	0.00138	0.00113	0.001	0.002	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	0.019	0.019	0.015	<0.010
Mercury (Hg)-Dissolved	mg/L	<0.00005	<0.00005	<0.00005	<0.0002	<0.000200	<0.0001	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Molybdenum (Mo)-Dissolved	mg/L	<0.00005	<0.00005	<0.00005	<0.0003	<0.0003	<0.0003	0.00149	0.00165	<0.00005	0.00150	0.00196	0.00243	0.00208	<0.00005	<0.00249
Nickel (Ni)-Dissolved	mg/L	0.0002	0.0001	<0.0001	0.0004	<0.0001	0.0003	0.00204	0.00182	<0.00005	0.00146	0.00156	0.00180	0.00191	0.00172	0.00196
Potassium (K)-Dissolved	mg/L	<2	<2	<2	<0.5	<0.5	0.5	3.1	2.7	2.7	3.0	3.5	3.7	3.8	4.1	3.0
Selenium (Se)-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.0004	<0.0004	<0.0004	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Silicon (Si)-Dissolved	mg/L	0.35	0.2	0.22	0.18	0.21	0.12	1.44	1.13	1.19	1.04	0.99	1.20	1.16	1.03	1.09
Silver (Ag)-Dissolved	mg/L	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Sodium (Na)-Dissolved	mg/L	<2	<2	<2	0.8	1.4	0.7	5.4	4.9	4.5	5.8	5.5	5.4	5.1	5.3	5.2
Strontium (Sr)-Dissolved	mg/L	0.0037	0.0038	0.0037	<0.0002	<0.0002	0.0062	0.0572	0.0744	<0.0001	0.0457	0.0853	0.0959	0.110	0.0895	0.113
Thallium (Tl)-Dissolved	mg/L	<0.00005	<0.00005	<0.00005	<0.0002	<0.0002	<0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin (Sn)-Dissolved	mg/L	<0.0001	<0.0001	<0.0001					<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001
Titanium (Ti)-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Uranium (U)-Dissolved	mg/L	<0.001	<0.001	<0.001	0.0001	0.00013	0.00021	0.00002	0.00123	<0.00005	0.00068	0.00095	0.00132	0.00132	0.00108	0.00112

JER-WQ2

[illegible]

PKCA
discharge[illegible]

JER-WQ2

Sample ID	Units	PKCA Discharge Criteria	JER-WQ2																JER-WQ2	JER-WQ2	JER-WQ2										
			11-Sep-06	JER-WQ2	2-Oct-06	JER-WQ2	9-Oct-06	JER-WQ2	16-Oct-06	JER-WQ2	23-Oct-06	JER-WQ2	30-Oct-06	JER-WQ2	6-Nov-06	JER-WQ2	5-May-07	WO-02	JER-WQ2	9-Jun-07	JER-WQ2	15-Jul-07	JER-WQ2	23-Jul-07	JER-WQ2	30-Jul-07	JER-WQ2	8-Aug-07	JER-WQ2	11-Aug-07	
Lithium (Li)-Total	mg/L		<0.005	8.45	<0.005	8.43	8.43	8.89	<0.005	8.89	0.02	8.89	8.89	<0.005	9.30	9.30	11.1	6.69	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Magnesium (Mg)-Total	mg/L		7.40	8.45	<0.005	8.43	8.43	8.89	<0.005	8.89	0.02	8.89	8.89	<0.005	9.30	9.30	11.1	6.69	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Manganese (Mn)-Total	mg/L		0.01	0.06	<0.0005	<0.0005	0.02	0.02	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.001	<0.001	0.0689	0.0689	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Mercury (Hg)-Total	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Molybdenum (Mo)-Total	mg/L	1.50	0.00285	0.00250	0.00281	0.00281	0.00280	0.00281	0.00281	0.00281	0.00281	0.00281	0.00281	0.00281	0.00285	0.00285	0.00336	0.00336	0.00285	0.00285	0.00312	0.00288	0.00325	0.00325	0.00322	0.00322	0.00322	0.00322	0.00322	0.00322	
Nickel (Ni)-Total	mg/L	0.10	0.0021	0.00025	0.0006	0.0006	0.0019	0.0023	0.0014	0.0023	0.0014	0.0023	0.0014	0.0019	0.00399	0.00399	10.2	5.80	0.00247	0.00247	0.00270	0.00184	0.00164	0.00315	0.00315	0.00315	0.00315	0.00315	0.00315	0.00315	
Potassium (K)-Total	mg/L		4.2	4.8	5.1	5.1	5.0	5.4	5.3	5.3	5.4	5.4	5.7	5.7	10.2	10.2	5.80	5.80	0.00247	0.00247	0.00270	0.00184	0.00164	0.00315	0.00315	0.00315	0.00315	0.00315	0.00315	0.00315	
Selenium (Se)-Total	mg/L		0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Silicon (Si)-Total	mg/L		1.12	1.07	1	1	1.81	1.05	1.11	1.05	1.05	1.05	1.05	1.04	1.04	1.04	2.17	1.25	1.07	1.07	1.07	0.988	0.984	1.54	1.54	1.54	1.55	1.55	1.55	1.55	1.55
Silver (Ag)-Total	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Sodium (Na)-Total	mg/L		5.8	6.1	6.4	6.4	7.0	6.8	7.3	6.8	7.0	6.8	7.3	7.6	7.6	7.6	13.8	7.93	7.92	7.92	7.92	7.87	8								

[illegible][illegible]

JER-WQ2

Sample ID	Units	PKCA Discharge Criteria	JER-WQ2 15-Aug-07	JER-WQ2 20-Aug-07	JER-WQ2 27-Aug-07	JER-WQ2 4-Sep-07	JER-WQ2 9-Sep-07	JER-WQ2 24-Sep-07
Date Sampled			09:00	07:30	06:20	09:00	18:35	06:30
Time Sampled								
Lab Sample ID			L543212-1	L545480-4	L546749-18	L549862-1	L552076-1	L557895-14
Hardness (as CaCO3)	mg/L		81.7	85.9	82.2	78.6	87.6	92
Conductivity	uS/cm		291	286	313	325	325	327
pH		6.0 - 8.8	7.83	7.82	7.76	7.10	7.33	7.49
Total Dissolved Solids	mg/L	4000	202	212	216	217	231	203
Total Suspended Solids	mg/L	25	<3	<3	<3	<3	<3	<3
Turbidity	NTU		0.66	0.72	1.28	0.62	0.48	0.47
Ammonia as N	mg/L	12	0.113	0.169	0.297	0.338	0.354	0.0927
Acidity (as CaCO3)	mg/L		1.0	3.5	3.3	4.1	2.9	4.4
Alkalinity, Bicarbonate (as CaCO3)	mg/L		32.4	30.9	31.5	33.3	33.2	38.1
Alkalinity, Carbonate (as CaCO3)	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity, Hydroxide (as CaCO3)	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity, Total (as CaCO3)	mg/L		32.4	30.9	31.5	33.3	33.2	38.1
Chloride (Cl)	mg/L	1000	13.3	13.5	14.6	14.8	14.7	16.3
Fluoride (F)	mg/L							
Sulfate (SO4)	mg/L		22.5	22.5	25.0	26.1	26.0	26.0
Nitrate (as N)	mg/L	56	15.6	15.9	17.5	17.8	17.8	16.8
Nitrite (as N)	mg/L	5.0	0.111	0.117	0.169	0.185	0.176	0.0315
Total Kjeldahl Nitrogen	mg N/L		-	-	-	-	-	-
Ortho Phosphate as P	mg/L		<0.0010	<0.0010	0.0012	<0.0010	<0.0010	0.0011
Total Dissolved Phosphate As P	mg/L		0.0023	0.0028	0.0023	0.0021	0.0081	0.0021
Total Phosphate as P	mg/L	0.4	0.0050	0.0059	0.106	0.0035	0.0054	0.0068
Aluminum (Al)-Total	mg/L	3.0	0.0142	0.0128	0.0259	0.0248	0.0094	0.0094
Antimony (Sb)-Total	mg/L		0.00046	0.00048	0.00048	0.00045	0.00047	0.00028
Arsenic (As)-Total	mg/L	0.10	0.00046	0.00051	0.00050	0.00042	0.00041	0.00034
Barium (Ba)-Total	mg/L		0.0556	0.0607	0.0790	0.0770	0.0849	0.0678
Beryllium (Be)-Total	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Total	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron (B)-Total	mg/L		0.032	0.034	0.039	0.037	0.037	0.032
Cadmium (Cd)-Total	mg/L	0.0024	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Calcium (Ca)-Total	mg/L		18.5	20.0	20.5	20.3	21.9	21.4
Chromium (Cr)-Total	mg/L	0.170	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt (Co)-Total	mg/L		0.00015	0.00015	0.00019	0.00015	0.00015	0.00017
Copper (Cu)-Total	mg/L	0.04	0.00131	0.00203	0.00102	0.00089	0.00099	0.00161
Iron (Fe)-Total	mg/L		<0.030	<0.030	0.045	0.052	0.033	<0.030
Lead (Pb)-Total	mg/L	0.02	<0.00005	0.000100	0.000050	0.000171	<0.00005	0.000076

JER-WQ2

Sample ID	Units	PKCA Discharge Criteria	15-Aug-07	JER-WQ2	20-Aug-07	JER-WQ2	27-Aug-07	JER-WQ2	4-Sep-07	JER-WQ2	9-Sep-07	JER-WQ2	24-Sep-07
Lithium (Li)-Total	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Magnesium (Mg)-Total	mg/L		8.59	8.43	8.43	7.73	6.89	8.31	8.73	8.31	8.73	8.31	8.73
Manganese (Mn)-Total	mg/L		0.00639	0.00423	0.00423	0.00531	0.00810	0.00748	0.0258	0.00748	0.0258	0.00748	0.0258
Mercury (Hg)-Total	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum (Mo)-Total	mg/L	1.50	0.00667	0.00747	0.00747	0.00781	0.00780	0.00781	0.00233	0.00781	0.00233	0.00781	0.00233
Nickel (Ni)-Total	mg/L	0.10	0.00222	0.00267	0.00267	0.00380	0.00364	0.00331	0.00157	0.00331	0.00157	0.00331	0.00157
Potassium (K)-Total	mg/L		9.11	10.0	10.0	11.2	11.5	11.5	9.86	11.5	9.86	11.5	9.86
Selenium (Se)-Total	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		1.78	2.04	2.04	2.34	2.54	2.39	2.98	2.54	2.39	2.98	2.39
Silver (Ag)-Total	mg/L		<0.000010	0.000012	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	mg/L		14.4	15.0	15.0	16.4	17.1	17.5	16.4	17.1	17.5	16.4	17.5
Strontium (Sr)-Total	mg/L		0.379	0.424	0.424	0.511	0.501	0.568	0.447	0.501	0.568	0.447	0.501
Thallium (Tl)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		0.00409	0.0164	0.0164	0.00211	0.0042	0.00548	<0.00010	0.0042	0.00548	<0.00010	<0.00010
Titanium (Ti)-Total	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	mg/L	1.0	0.00129	0.00117	0.00117	0.00749	0.00767	0.00825	0.00607	0.00767	0.00825	0.00607	0.00607
Vanadium (V)-Total	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.50	0.0011	0.0029	0.0029	<0.001	<0.001	<0.001	0.0016	<0.001	<0.001	0.0016	<0.001
Aluminum (Al)-Dissolved	mg/L	2.0	0.0045	0.0036	0.0036	<0.002	<0.002	0.0077	0.0026	<0.002	0.0077	0.0026	<0.002
Antimony (Sb)-Dissolved	mg/L		0.00047	0.00048	0.00048	0.00047	0.00048	0.00046	0.00027	0.00048	0.00046	0.00027	0.00048
Arsenic (As)-Dissolved	mg/L		0.00048	0.00048	0.00048	0.00052	0.00041	0.00040	0.00031	0.00041	0.00040	0.00031	0.00041
Barium (Ba)-Dissolved	mg/L		0.0557	0.0608	0.0608	0.0777	0.0767	0.0828	0.0571	0.0767	0.0828	0.0571	0.0767
Beryllium (Be)-Dissolved	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Dissolved	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron (B)-Dissolved	mg/L		0.0033	0.0034	0.0034	0.0038	0.0038	0.0038	0.0033	0.0038	0.0038	0.0033	0.0038
Cadmium (Cd)-Dissolved	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Calcium (Ca)-Dissolved	mg/L		18.4	20.3	20.3	20.3	20.2	21.5	22.0	20.2	21.5	22.0	20.2
Chromium (Cr)-Dissolved	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Dissolved	mg/L		0.00012	0.00010	0.00010	0.00011	0.00011	0.00014	0.00012	0.00011	0.00014	0.00012	0.00011
Copper (Cu)-Dissolved	mg/L		<0.0011	0.00130	0.00130	<0.00080	<0.00070	0.00096	0.00204	<0.00070	0.00096	0.00204	<0.00070
Iron (Fe)-Dissolved	mg/L		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead (Pb)-Dissolved	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Lithium (Li)-Dissolved	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Magnesium (Mg)-Dissolved	mg/L		8.66	8.54	8.54	7.63	6.81	8.22	9.02	6.81	8.22	9.02	6.81
Manganese (Mn)-Dissolved	mg/L		<0.00050	0.000181	0.000181	0.000173	0.000188	0.000188	0.00201	0.000188	0.000188	0.00201	0.000188
Mercury (Hg)-Dissolved	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum (Mo)-Dissolved	mg/L		0.00683	0.00738	0.00738	0.00770	0.00789	0.00745	0.00213	0.00789	0.00745	0.00213	0.00789
Nickel (Ni)-Dissolved	mg/L		<0.0020	0.00222	0.00222	0.00297	0.00295	0.00323	0.00146	0.00295	0.00323	0.00146	0.00295
Potassium (K)-Dissolved	mg/L		9.28	10.2	10.2	11.2	11.5	11.4	10.0	11.5	11.4	10.0	11.5
Selenium (Se)-Dissolved	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Dissolved	mg/L		1.78	2.05	2.05	2.30	2.47	2.38	2.95	2.47	2.38	2.95	2.47
Silver (Ag)-Dissolved	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Dissolved	mg/L		14.6	16.1	16.1	16.5	17.3	16.9	16.7	16.1	16.9	16.7	16.1
Strontium (Sr)-Dissolved	mg/L		0.380	0.428	0.428	0.510	0.503	0.556	0.441	0.510	0.556	0.441	0.510
Thallium (Tl)-Dissolved	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Dissolved	mg/L		0.00149	0.00205	0.00205	0.00244	0.00048	0.00375	<0.00010	0.00244	0.00375	<0.00010	<0.00010
Titanium (Ti)-Dissolved	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	mg/L		0.00126	0.00111	0.00111	0.00715	0.00773	0.00772	0.00579	0.00773	0.00772	0.00579	0.00773

JER-WQ2

Sample ID	Units	PKCA Discharge Criteria	JER-WQ2	JER-WQ2	JER-WQ2	JER-WQ2	JER-WQ2	JER-WQ2	JER-WQ2
Date Sampled			15-Aug-07	20-Aug-07	27-Aug-07	4-Sep-07	9-Sep-07	24-Sep-07	
Vanadium (V)-Dissolved	mg/L		<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	
Zinc (Zn)-Dissolved	mg/L	5.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	
Oil and Grease	mg/L		6.18	6.59	6.37	5.95	5.28	7.59	
Total Inorganic Carbon	mg/L		2.70	2.85	2.70	2.76	2.47	2.89	
BOD	mg/L	25	<2	<2	<2	<2	-	<2	
Fecal Coliform	CFU/100 mL	20	<1	<1	<1	<1	-	<1	
Field Water Temperature	deg C		8.38	9.87	8.53	6.58	6.17	2.24	
Field Conductivity	uS/cm		289	270	251	264	343	288	
Field DO	%		124.1	95.1	99.0	--	67.7	73.9	
Field DO	mg/L		14.56	11.26	11.60	--	8.37	10.13	
Field pH			7.62	7.70	7.80	7.55	7.09	6.53	
Field ORP	mV		160.7	138.1	245.8	151.5	143.4	231.5	
Ion Balance	Ratio								

PKCA
Discharge

Sample ID	Units	PKCA Discharge Criteria	JER-WQ3 30-Jun-05	JER-WQ3 29-Jul-05	JER-WQ3 28-Aug-05	JER-WQ3 21-Jun-06	JER-WQ3 11-Jul-06	JER-WQ3 6-Aug-06	JER-WQ3 13-Aug-06	JER-WQ3 5-Sep-06	JER-WQ3 24-Jun-07	JER-WQ3 17-Jul-07	JER-WQ3 25-Aug-07
Date Sampled									Inspector Samples		15:17	00:00	13:30
Time Sampled													
Lab Sample ID						Jun-08	Jun-02	L420594-15	Jun-25	08-10854	L522053-1	L531523-11	L546749-5
Hardness (as CaCO3)	mg/L				9	11.8	10.1		19.4	32	28.1	46.8	70.8
Conductivity	uS/cm		8.9	23	6.54	16	34		84	106	98.9	166	245
pH		6.0 - 8.8				6.75	7.08		7.07	7.21	7.09	7.26	7.54
Total Dissolved Solids	mg/L	4000			7	11	20		60	30	72.0	93.0	173
Total Suspended Solids	mg/L	25			<15	<2	<2				<3	<3	<3
Turbidity	NTU		2	2	2	1	2		1	<1	0.87	0.27	0.24
Ammonia as N	mg/L	12			2	0.01	0.02	<0.005	0.01	<0.01	0.0128	0.0061	<0.005
Acidity (as CaCO3)	mg/L				<0.1	4	<1		1	2	3.1	3.0	3.3
Alkalinity, Bicarbonate (as CaCO3)	mg/L				2								
Alkalinity, Carbonate (as CaCO3)	mg/L				13	12	14	11	15	18	12.1	28.9	24.8
Alkalinity, Hydroxide (as CaCO3)	mg/L				<1	<1	<1	<1	<1	<1	<1.0	<1.0	<1.0
Alkalinity, Total (as CaCO3)	mg/L				<1	<1	<1	<1	<1	<1	<1.0	<1.0	<1.0
Chloride (Cl)	mg/L	1000			11	10	9	10	12	15	12.1	28.9	24.8
Fluoride (F)	mg/L		0.9	0.8	1.6	0.7	2.6	5.5	6.7	6.7	5.87	7.46	12.8
Sulfate (SO4)	mg/L		0.04	0.05	0.03	0.03	0.04		0.06	0.04			
Nitrate (as N)	mg/L	56			0.6	1.2	0.6		6.0	8.4	9.57	12.6	20.9
Nitrite (as N)	mg/L		2.6	<0.05	0.06	<0.05	0.32		2.53	4.52	4.20	5.85	12.7
Total Kjeldahl Nitrogen	mg N/L	5.0			<0.05	<0.05	<0.05	<0.05		<0.05	0.0023	0.0057	0.0062
Ortho Phosphate as P	mg/L				<0.2	<0.2	<0.2		<0.2	0.3	0.0013	<0.0010	<0.0010
Total Dissolved Phosphate As P	mg/L				<0.005	<0.005	<0.005		<0.005	<0.20	0.0039	<0.0020	<0.0020
Total Phosphate as P	mg/L	0.4			<0.02	<0.02					0.0069	0.0020	0.0039
Aluminum (Al)-Total	mg/L	3.0			0.031	0.035					0.0258	0.0136	0.0139
Antimony (Sb)-Total	mg/L				<0.0001	<0.0005	0.0543	0.0359	0.0368	0.0192	0.00005	0.00019	0.00021
Arsenic (As)-Total	mg/L	0.10			<0.0004	<0.0004	<0.0005	<0.000085	<0.00005	<0.00005	0.00012	0.00019	0.00021
Barium (Ba)-Total	mg/L				<0.005	<0.005	0.00204	0.00319	0.00874	0.0121	0.0110	0.0183	0.0266
Beryllium (Be)-Total	mg/L				<0.005	<0.005	<0.001	<0.0001	<0.0001	<0.0001	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Total	mg/L				<0.010	<0.010	0.003	0.001	0.004	0.006	<0.00050	0.022	0.025
Boron (B)-Total	mg/L				<0.0002	<0.0005	<0.00005	<0.00005	0.00002	<0.00002	<0.00005	<0.00005	<0.00005
Cadmium (Cd)-Total	mg/L	0.0024			<0.0002	<0.0005	<0.00005	<0.00005	0.00002	<0.00002	<0.00005	<0.00005	<0.00005
Calcium (Ca)-Total	mg/L		1.25	1.95	1.9	1.02	1.98	6.19	4.44	6.89	5.37	9.49	14.8
Chromium (Cr)-Total	mg/L	0.170			<0.0009	<0.0009	0.0006	0.00055	0.0018	0.0063	<0.0005	<0.0005	<0.0005
Cobalt (Co)-Total	mg/L		<0.0001	<0.0001	<0.0001	<0.0005	<0.00005	0.000108	0.00010	0.00006	<0.0010	<0.0010	0.00014
Copper (Cu)-Total	mg/L	0.04			<0.001	<0.001	0.0011	0.00185	0.0014	<0.001	0.00109	0.00097	0.00088
Iron (Fe)-Total	mg/L		<0.01	<0.10	<0.01	<0.10	<0.10	0.0182	<0.10	<0.10	<0.030	<0.030	<0.030
Lead (Pb)-Total	mg/L		<0.0001	<0.0001	0.0003	0.00006	<0.0005	0.000292	0.00011	<0.00005	<0.00005	<0.00005	<0.00005
Lithium (Li)-Total	mg/L						<0.005	0.00241	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Magnesium (Mg)-Total	mg/L		0.88	0.99	1.02	0.50	0.80	2.68	2.68	4.24	3.61	5.38	7.94
Manganese (Mn)-Total	mg/L		<0.002	<0.01	0.003	<0.01	<0.00173	<0.00173	<0.001	<0.001	0.000559	0.00135	0.00222
Mercury (Hg)-Total	mg/L	1.50			<0.0001	<0.0005	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050
Molybdenum (Mo)-Total	mg/L		<0.0005	<0.0005	<0.0005	0.00008	<0.00005	0.000433	<0.00005	0.00020	0.000315	0.00101	0.00167
Nickel (Ni)-Total	mg/L	0.10			<0.0006	<0.0006	0.0006	0.000581	0.00007	0.0008	0.00068	<0.0005	0.00055
Potassium (K)-Total	mg/L		<0.5	<0.5	<0.5	<0.5	<0.5	2.14	1.1	1.8	3.55	4.36	6.91

JER-WQ3

Sample ID	Units	PKCA Discharge Criteria	JER-WQ3 30-Jun-05	JER-WQ3 29-Jun-05	JER-WQ3 28-Aug-05	JER-WQ3 21-Jun-06	JER-WQ3 11-Jul-06	JER-WQ3 6-Aug-06	JER-WQ3 13-Aug-06	JER-WQ3 5-Sep-06	JER-WQ3 24-Jun-07	JER-WQ3 17-Jul-07	JER-WQ3 25-Aug-07
Selenium (Se)-Total	mg/L		<0.0008	<0.0008	<0.0008	<0.0010	<0.0010	0.000216	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		0.27	0.48	0.45	0.21	0.48	1.06	0.75	0.32	0.831	0.573	1.30
Silver (Ag)-Total	mg/L		<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	0.000155	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L		1	1.1	1.5	<0.5	1.6	5.21	3.7	4.4	5.97	7.57	12.8
Strontium (Sr)-Total	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000102	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Thallium (Tl)-Total	mg/L				0.0066	0.0042	0.0090	0.0303	0.0146	0.0247	0.0236	0.0908	0.157
Tin (Sn)-Total	mg/L							0.0000300	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total	mg/L							0.000518	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	1.0						0.0003841	<0.0005	<0.0005	0.000054	0.000069	0.000060
Vanadium (V)-Total	mg/L				0.00008	0.00022	0.00005	0.000205	<0.0005	0.00018	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.50	<0.0001	0.0003	0.0001	0.0003	0.004	0.00299	0.007	0.005	<0.001	<0.001	<0.001
Aluminum (Al)-Dissolved	mg/L	2.0	0.026	0.031	0.02	0.035	0.026	0.021		0.014	0.0251	0.0113	0.0145
Antimony (Sb)-Dissolved	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	0.000125		<0.0005	0.00014	0.00019	0.00022
Arsenic (As)-Dissolved	mg/L		0.0002	0.0001	0.0002	0.0002	0.0003	0.000257		0.0003	0.00022	0.00019	0.00023
Barium (Ba)-Dissolved	mg/L		<0.003	0.004	0.004	0.00286	0.00347	0.00864		0.0125	0.0109	0.0181	0.0271
Beryllium (Be)-Dissolved	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00003		<0.0001	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Dissolved	mg/L				<0.0001	<0.001	0.001	0.094		0.002	<0.00050	<0.00050	<0.00050
Boron (B)-Dissolved	mg/L		0.004	<0.004	<0.004	<0.0005	<0.0005	0.0000353		<0.00002	0.015	0.022	0.026
Cadmium (Cd)-Dissolved	mg/L		<0.0005	<0.0005	<0.0005	0.6	2.3	6.13	3.8	6.3	<0.00050	<0.00050	<0.00050
Calcium (Ca)-Dissolved	mg/L		1.4	1.9	1.90	<0.003	0.003	0.000449		0.0040	5.35	9.49	14.8
Chromium (Cr)-Dissolved	mg/L		<0.0004	<0.0004	<0.0004	<0.0002	0.0005	0.000106		0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Dissolved	mg/L		<0.0005	<0.0005	0.00007	<0.001	0.0064	0.00179		0.0005	<0.00010	<0.00010	<0.00010
Copper (Cu)-Dissolved	mg/L		0.0043	0.0044	<0.0010	<0.10	<0.10	0.0172		<0.10	0.00114	0.00092	<0.00070
Iron (Fe)-Dissolved	mg/L		0.01	0.03	0.06	0.00016	<0.0005	0.000279		<0.0005	<0.030	<0.030	<0.030
Lead (Pb)-Dissolved	mg/L		<0.0005	<0.0005	0.00012		<0.0010	0.00188		<0.0010	0.000084	<0.000050	<0.000050
Lithium (Li)-Dissolved	mg/L					2.5	1.1	2.61	2.4	4.0	<0.0050	<0.0050	<0.0050
Magnesium (Mg)-Dissolved	mg/L		0.7	1	1.02	<0.010	<0.010	0.00166		<0.010	3.59	5.60	8.18
Manganese (Mn)-Dissolved	mg/L		<0.001	0.003	<0.001	<0.0005	<0.0005	<0.0001		<0.0005	0.000357	0.000828	0.00136
Mercury (Hg)-Dissolved	mg/L		<0.0002	<0.0002	<0.0001	0.00010	0.00008	0.000425		<0.00005	<0.000050	<0.000050	<0.000050
Molybdenum (Mo)-Dissolved	mg/L		<0.0003	<0.0003	<0.0003	0.00021	0.00048	0.000527		0.00070	0.000347	0.00101	0.00176
Nickel (Ni)-Dissolved	mg/L		0.0004	0.0004	0.0004		<0.005	0.002		<0.01	0.00073	<0.00050	0.00059
Potassium (K)-Dissolved	mg/L		<0.5	<0.5	<0.5	<0.5	<0.5	2.12	1.1	1.7	3.53	4.39	7.09
Selenium (Se)-Dissolved	mg/L		<0.0004	<0.0004	<0.0004	<0.0006	<0.0006	0.000168		<0.0006	<0.0010	<0.0010	<0.0010
Silicon (Si)-Dissolved	mg/L		0.31	0.5	0.49	0.27	0.54	1.01		0.30	0.665	0.584	1.28
Silver (Ag)-Dissolved	mg/L		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0000107		<0.00005	0.000020	<0.000010	<0.000010
Sodium (Na)-Dissolved	mg/L		0.9	1.2	1.5	<0.5	1.6	5.14	4.4	5.4	5.94	7.63	13.1
Strontium (Sr)-Dissolved	mg/L				0.0060	0.0046	0.0099	0.0239		0.0229	0.0236	0.0921	0.160
Thallium (Tl)-Dissolved	mg/L		<0.00002	0.00007	<0.00002	<0.00005	<0.00005	0.0000074		<0.00005	<0.00010	<0.00010	<0.00010
Tin (Sn)-Dissolved	mg/L						<0.0001	<0.00003		<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	mg/L						<0.0005	0.000515		<0.0005	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	mg/L		0.0001	0.00013	0.00009	0.00013	0.00011	0.0000933		<0.00005	0.000050	0.000061	0.000053
Vanadium (V)-Dissolved	mg/L		<0.0005	<0.0005	<0.0005	<0.0001	0.0006	0.000185		0.0014	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Dissolved	mg/L		0.003	0.01	<0.002	<0.001	0.003	0.00246		0.006	<0.0010	<0.0010	<0.0010
Oil and Grease	mg/L											6.21	-
Total Inorganic Carbon	mg/L	5.0	1	4	2	0.1	0.7		3.0	3.5	2.50	4.84	-
Total Organic Carbon	mg/L		3	1	3	3.6	3.5		3.0	2.5	4.31	2.74	-
BOD	mg/L	25							<2				

JER-WQ3

Sample ID	Units	PKCA Discharge Criteria	JER-WQ3 30-Jun-05	JER-WQ3 28-Jul-05	JER-WQ3 28-Aug-05	JER-WQ3 21-Jun-05	JER-WQ3 11-Jul-05	JER-WQ3 6-Aug-05	JER-WQ3 13-Aug-06	JER-WQ3 5-Sep-06	JER-WQ3 24-Jun-07	JER-WQ3 17-Jul-07	JER-WQ3 25-Aug-07
Fecal Coliform	CFU/100 mL	20											
Field Water Temperature	deg C					12.43	14.36	12.5	<1	8.07	6.63	16.08	8.85
Field Conductivity	uS/cm				13	32	89	81	14.52	92	125	165	196
Field DO	%								81		152.8	90.4	-
Field DO	mg/L				11.24	9.60			11.04	10.57	15.24	8.79	-
Field pH					6.52	6.6	7.8		6.03	6.08	6.63	7.32	7.06
Field ORP	mV				192.50	333.60			404.10	255.00	123.1	148.8	231.1
Balance (Ions/Ions)	Ratio			1.03	1	1.02	0.89		0.86	0.93			

JER-WQ4

Sample ID	Units	PKCA Discharge Criteria	CL28	CL-28	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4	JER-WQ4
			2-Aug-99	1-Sep-99	18-May-05	28-Jun-05	29-Jul-05	29-Jul-05	29-Jul-05	29-Aug-05	8-Apr-06	21-Jun-06	11-Jul-06	6-Aug-06	5-Sep-06	17-Dec-06	28-Apr-07	16-Jul-07
Time Sampled																		
Lab Sample ID																		
Hardness (as CaCO3) Conductivity pH Total Dissolved Solids Total Suspended Solids Turbidity	mg/L	6.87	6.38	7 <6	<6	<6	<6	<6	Jun-72	Jun-27	Jun-03	L420594-16	06-10848	L4604946-3	17-24	09-40	L546749-4	L546749-4
	uS/cm	16	22	19.6	16	13	12	15	23	13	<6	<6	<6	8.17	9.79	5.48	6.64	6.64
	6.0 - 8.8	6.57	7.18	7	5.32	7.14	6.81	6.26	6.87	6.66	6.80	6.80	6.91	6.74	7.12	6.86	6.90	6.90
	mg/L	10	16	30	40	<15	<15	<15	<15	11	12	12	12	20	17.0	11.0	19.0	19.0
	25	<3	<3	<3	<2	<2	<2	<2	3	<2	<2	<2	<2	<2	<3	<3	<3	<3
Ammonia as N	mg/L	<0.005	<0.005	0.019	<0.1	1	1	<0.1	2	1	2	<0.005	1	0.63	0.22	0.41	0.51	0.51
Acidity (as CaCO3)	mg/L	<5	<5	<5	<0.1	2	3	<0.1	3	14	2	<0.005	<0.01	0.0085	0.0426	0.0080	0.0092	0.0092
Alkalinity, Bicarbonate (as CaCO3)	mg/L			8	11	7	6	12	13	9	9	8	8	7.4	7.9	4.1	4.9	4.9
Alkalinity, Carbonate (as CaCO3)	mg/L		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity, Hydroxide (as CaCO3)	mg/L		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity, Total (as CaCO3)	mg/L	5	6	6	9	5	5	10	11	7	8	7	7	7.4	7.9	4.1	4.9	4.9
Chloride (Cl)	mg/L	<0.5	0.8	<1	0.3	0.2	0.2	0.2	0.5	0.4	0.2	0.5	0.5	<0.5	0.83	<0.5	0.69	0.69
Fluoride (F)	mg/L				0.04	0.07	0.06	<0.02	0.05	0.03	0.03	0.04	0.04					
Sulfate (SO4)	mg/L	1	3	1.45	0.6	<0.5	<0.5	0.8	1.0	1.3	<0.5	1.7	1.83	1.83	2.04	1.08	1.59	1.59
Nitrate (as N)	mg/L	<0.005	0.008	0.01	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0619	0.277	0.0674	0.264	0.264
Nitrite (as N)	mg/L	<0.001	<0.001	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	<0.05	<0.001	0.0010	<0.001	<0.001	<0.001
Total Kjeldahl Nitrogen	mg N/L										<0.2	<0.2	0.3	<0.0010	<0.0010	-	-	-
Ortfo Phosphate as P	mg/L		<0.001	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Dissolved Phosphate As P	mg/L	0.003	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0029	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Total Phosphate as P	mg/L	0.004	0.003	0.005	<0.02	<0.02	<0.05	<0.02	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0039	0.0039
Aluminum (Al)-Total	mg/L	0.027	0.03	0.0181	0.046	0.022	0.021	0.015	0.027	0.0494	0.0340	0.0255	0.0177	0.0217	0.0192	0.0223	0.0154	0.0154
Antimony (Sb)-Total	mg/L	<0.00005	<0.00005	0.00007	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	0.00000683	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	mg/L	0.0002	0.00022	0.00022	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0002	<0.0002	0.00018	0.00025	0.00025	0.00021	0.00017	0.00017	0.00017
Barium (Ba)-Total	mg/L	0.00227	0.00213	0.00226	<0.005	<0.005	<0.005	<0.005	<0.005	0.00167	0.00175	0.00163	0.00171	0.00237	0.00232	0.00188	0.00182	0.00182
Beryllium (Be)-Total	mg/L	<0.0005	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	0.0000046	<0.0001	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Total	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron (B)-Total	mg/L	<0.001	<0.001	0.001	<0.016	<0.010	<0.010	<0.016	<0.010	0.003	<0.001	0.0581	0.002	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	<0.00005	<0.00005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.00005	<0.00005	0.0000073	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Calcium (Ca)-Total	mg/L	1.41	1.34	1.51	0.93	1.04	1.07	1	1.61	0.79	0.80	1.1	1.83	1.83	2.10	1.18	1.37	1.37
Chromium (Cr)-Total	mg/L	<0.0005	<0.0005	0.00012	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0005	0.0012	0.000204	0.0017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt (Co)-Total	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	0.0000284	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Copper (Cu)-Total	mg/L	0.0009	0.0011	0.0011	0.0013	0.0044	0.004	<0.001	<0.001	0.0012	<0.001	0.00164	<0.001	0.00303	0.00126	0.00094	0.00082	0.00082
Iron (Fe)-Total	mg/L	0.03	0.03	0.012	<0.01	<0.10	<0.10	0.02	<0.10	<0.10	<0.10	0.0237	<0.10	<0.030	0.075	<0.030	<0.030	<0.030
Lead (Pb)-Total	mg/L	<0.00005	<0.00005	<0.00005	<0.0001	0.0003	0.0003	<0.0001	0.0001	0.00008	<0.00005	0.0000719	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Lithium (Li)-Total	mg/L	<0.001	<0.001	0.799	<0.50	0.53	0.53	0.5	0.84	0.68	<0.005	0.10	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Magnesium (Mg)-Total	mg/L	0.8	0.7	0.769	<0.50	0.53	0.53	0.5	0.84	0.68	0.17	0.472	0.86	0.927	1.14	0.596	0.757	0.757
Manganese (Mn)-Total	mg/L	0.00271	0.00272	0.0025	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	0.00261	<0.01	0.00311	0.00255	0.00295	0.00295	0.00295
Mercury (Hg)-Total	mg/L	<0.00005	<0.00005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001	<0.00005	<0.00005	<0.00005	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Molybdenum (Mo)-Total	mg/L	<0.00005	<0.00005	<0.00006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00011	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Nickel (Ni)-Total	mg/L	0.0003	0.0003	0.00034	<0.0006	<0.0006	<0.0006	<0.0006	0.0007	0.0004	0.0004	0.000307	0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Potassium (K)-Total	mg/L	<2	<2	0.4	<0.5	<0.5	<0.5	<0.5	0.0007	<0.05	<0.05	0.314	<0.5	0.55	0.59	<0.50	<0.50	<0.50

JER-WQ4

Sample ID	Units	PKCA Discharge Criteria	CL-28		CL-28																						
			2-Aug-99	CL-28	1-Sep-99	JER-WQ4	JER-WQ4	28-Jun-05	JER-WQ4	JER-WQ4	29-Jul-05	JER-WQ4D	JER-WQ4	8-Apr-06	JER-WQ4	21-Jun-06	JER-WQ4	5-Sep-06	JER-WQ4	17-Dec-06	JER-WQ4	28-Apr-07	JER-WQ4	16-Jul-07	JER-WQ4	25-Aug-07	
Date Sampled			<0.01		<0.01	<0.0001	<0.0008	<0.0008	0.2	0.2	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
Selenium (Se)-Total	mg/L		0.32		0.65	<0.0001	<0.0001	<0.0002	0.29	0.2	0.2	0.2	0.2	0.39	0.17	0.14	<0.001	<0.0001	<0.0001	0.451	0.420	0.420	0.234	<0.0010	<0.0010	<0.0010	
Silicon (Si)-Total	mg/L		<0.0001		<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	0.0000696	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Silver (Ag)-Total	mg/L		<2		<2	0.67	0.7	0.6	0.6	0.6	0.6	0.8	<0.5	<0.5	<0.5	0.82	0.78	0.516	0.85	1.05	1.05	0.82	<0.0001	<0.0001	<0.0001	<0.0001	
Sodium (Na)-Total	mg/L		0.006		0.0058	0.0068						0.0049	0.0077	0.0040	0.0040	0.0047	0.00449	0.0054	0.00568	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	
Strontium (Sr)-Total	mg/L		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Thallium (Tl)-Total	mg/L		<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000052	<0.0001	<0.0001	0.00284	0.00284	0.00284	0.00284	0.00284	0.00284	
Tin (Sn)-Total	mg/L		<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.000409	<0.0005	<0.0005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Titanium (Ti)-Total	mg/L		<0.01		0.00019	0.00018	0.00015	0.00014	0.00012	0.00009	0.00009	0.00009	0.00009	0.00023	0.00015	0.00011	0.00014	0.00014	0.000284	0.000284	0.000284	0.000284	0.000284	0.000284	0.000284	0.000284	0.000284
Uranium (U)-Total	mg/L	1.0	<0.01		<0.01	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0000759	0.0015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Vanadium (V)-Total	mg/L		<0.01		<0.01	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0000759	0.0015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Zinc (Zn)-Total	mg/L	0.50	<0.01		<0.01	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0000759	0.0015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Aluminum (Al)-Dissolved	mg/L	2.0	0.023		0.025	0.02	0.044	0.016	0.015	0.014	0.022	0.024															

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JER-WQ4

Sample ID	Units	PKCA Discharge Criteria	JER-WQ4	
			23-Sep-07 10:00	08-Dec-07 12:00
Date Sampled				
Time Sampled				
Lab Sample ID			L5578955-4	L585854-8
Hardness (as CaCO3)	mg/L		7.55	7.14
Conductivity	uS/cm		21.6	18
pH		6.0 - 8.8	7.46	6.76
Total Dissolved Solids	mg/L	4000	14.0	18
Total Suspended Solids	mg/L	25	<3	<3
Turbidity	NTU		0.38	0.25
Ammonia as N	mg/L	12	0.0188	0.0202
Acidity (as CaCO3)	mg/L		2.3	2.1
Alkalinity, Bicarbonate (as CaCO3)	mg/L		5.0	5.4
Alkalinity, Carbonate (as CaCO3)	mg/L		<1.0	<1.0
Alkalinity, Hydroxide (as CaCO3)	mg/L		<1.0	<1.0
Alkalinity, Total (as CaCO3)	mg/L		5.0	5.4
Chloride (Cl)	mg/L	1000	1.13	0.57
Fluoride (F)	mg/L			
Sulfate (SO4)	mg/L		2.47	1.5
Nitrate (as N)	mg/L	56	0.313	0.167
Nitrite (as N)	mg/L	5.0	0.0013	<0.001
Total Kjeldahl Nitrogen	mg N/L		-	0.42
Ortho Phosphate as P	mg/L		<0.0010	<0.0010
Total Dissolved Phosphate As P	mg/L		<0.0020	<0.0020
Total Phosphate as P	mg/L	0.4	0.0027	0.0026
Aluminum (Al)-Total	mg/L	3.0	0.0124	0.0092
Antimony (Sb)-Total	mg/L		<0.00010	<0.00010
Arsenic (As)-Total	mg/L	0.10	0.00018	0.00023
Barium (Ba)-Total	mg/L		0.00299	0.00193
Beryllium (Be)-Total	mg/L		<0.00050	<0.00050
Bismuth (Bi)-Total	mg/L		<0.00050	<0.00050
Boron (B)-Total	mg/L		<0.010	<0.010
Cadmium (Cd)-Total	mg/L	0.0024	<0.00005	<0.00005
Calcium (Ca)-Total	mg/L		1.57	1.45
Chromium (Cr)-Total	mg/L	0.170	<0.0005	<0.0005
Cobalt (Co)-Total	mg/L		0.00032	<0.00010
Copper (Cu)-Total	mg/L	0.04	0.00078	0.00085
Iron (Fe)-Total	mg/L		0.051	<0.030
Lead (Pb)-Total	mg/L	0.02	<0.00005	0.00009
Lithium (Li)-Total	mg/L		<0.0050	<0.0050
Magnesium (Mg)-Total	mg/L		0.836	0.809
Manganese (Mn)-Total	mg/L		0.0152	0.000934
Mercury (Hg)-Total	mg/L		<0.00005	<0.00005
Molybdenum (Mo)-Total	mg/L	1.50	<0.00005	<0.00005
Nickel (Ni)-Total	mg/L	0.10	<0.0005	<0.0005
Potassium (K)-Total	mg/L		<0.50	<0.50

JER-WQ4

Sample ID	Units	PKCA Discharge Criteria	Date Sampled		JER-WQ4		JER-WQ4	
			23-Sep-07	08-Dec-07	JER-WQ4		JER-WQ4	
Selenium (Se)-Total	mg/L		<0.0010	<0.0010				
Silicon (Si)-Total	mg/L		0.227	0.143				
Silver (Ag)-Total	mg/L		<0.000010	<0.000010				
Sodium (Na)-Total	mg/L		1.11	0.76				
Strontium (Sr)-Total	mg/L		0.00759	0.00779				
Thallium (Tl)-Total	mg/L		<0.00010	<0.00010				
Tin (Sn)-Total	mg/L		<0.00010	0.00278				
Titanium (Ti)-Total	mg/L		<0.010	<0.010				
Uranium (U)-Total	mg/L	1.0	0.000109	0.000124				
Vanadium (V)-Total	mg/L		<0.0010	<0.0010				
Zinc (Zn)-Total	mg/L	0.50	0.0014	<0.001				
Aluminum (Al)-Dissolved	mg/L		0.0063	0.007				
Antimony (Sb)-Dissolved	mg/L	2.0	<0.00010	<0.00010				
Arsenic (As)-Dissolved	mg/L		0.00017	0.0002				
Barium (Ba)-Dissolved	mg/L		0.00307	0.00198				
Beryllium (Be)-Dissolved	mg/L		<0.00050	<0.00050				
Bismuth (Bi)-Dissolved	mg/L		<0.00050	<0.00050				
Boron (B)-Dissolved	mg/L		<0.010	<0.010				
Cadmium (Cd)-Dissolved	mg/L		<0.000050	<0.000050				
Calcium (Ca)-Dissolved	mg/L		1.82	1.5				
Chromium (Cr)-Dissolved	mg/L		<0.00050	<0.00050				
Cobalt (Co)-Dissolved	mg/L		<0.00010	<0.00010				
Copper (Cu)-Dissolved	mg/L		0.00064	0.00082				
Iron (Fe)-Dissolved	mg/L		<0.030	<0.030				
Lead (Pb)-Dissolved	mg/L		<0.000050	<0.000050				
Lithium (Li)-Dissolved	mg/L		<0.0050	<0.0050				
Magnesium (Mg)-Dissolved	mg/L		0.851	0.822				
Manganese (Mn)-Dissolved	mg/L		0.00645	0.000195				
Mercury (Hg)-Dissolved	mg/L		<0.000050	<0.000050				
Molybdenum (Mo)-Dissolved	mg/L		<0.000050	<0.000050				
Nickel (Ni)-Dissolved	mg/L		<0.00050	<0.00050				
Potassium (K)-Dissolved	mg/L		<0.50	<0.50				
Selenium (Se)-Dissolved	mg/L		<0.0010	<0.0010				
Silicon (Si)-Dissolved	mg/L		0.201	0.121				
Silver (Ag)-Dissolved	mg/L		<0.000010	<0.000010				
Sodium (Na)-Dissolved	mg/L		1.18	0.79				
Strontium (Sr)-Dissolved	mg/L		0.00810	0.00781				
Thallium (Tl)-Dissolved	mg/L		<0.00010	<0.00010				
Tin (Sn)-Dissolved	mg/L		<0.00010	0.00344				
Titanium (Ti)-Dissolved	mg/L		<0.010	<0.010				
Uranium (U)-Dissolved	mg/L		0.0000394	0.000107				
Vanadium (V)-Dissolved	mg/L		<0.0010	<0.0010				
Zinc (Zn)-Dissolved	mg/L		0.0014	0.0012				
Oil and Grease	mg/L	5.0	-	-				
Total Inorganic Carbon	mg/L		0.83	0.85				
Total Organic Carbon	mg/L		3.03	3.06				
BOD	mg/L	25	-	-				

JER-WQ4

Sample ID	Units	PKCA Discharge Criteria	JER-WQ4 23-Sep-07	JER-WQ4 08-Dec-07
Date Sampled	CFU/100 mL	20	-	-
Fecal Coliform				
Field Water Temperature	deg C		2.3	1.34
Field Conductivity	uS/cm		23	22
Field DO	%		108.2	108.4
Field DO	mg/L		14.83	15.29
Field pH			8.44	6.44
Field ORP	mV		146.6	158.3
Balance (Hons-Ions)	Ratio			

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Units	PKCA	Discharge
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
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92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Criteria	Date Sampled	CL-03																	
		15-Jul-95	19-Aug-95	12-Sep-95	23-Nov-95	16-Apr-96	15-Jul-96	10-Aug-96	3-Sep-98	CL-03	4-Dec-98	C--03	CL-03	31-Aug-98	JER-WQ5 28-Jun-05	JER-WQ5 28-Aug-05	JER-WQ5 21-Jun-06		
1.0	Silicon (Si)-Total	mg/L	0.278	0.252	0.227	0.431	0.33	0.23	0.23	<0.0001	<0.0001	0.39	0.71	0.37	<0.0001	0.19	0.24	0.18	
	Silver (Ag)-Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.001	
	Sodium (Na)-Total	mg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.5	0.8	<0.5	
	Strontium (Sr)-Total	mg/L	0.011	0.012	0.013	0.007	0.01	0.091	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.0038	
	Thallium (Tl)-Total	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
	Tin (Sn)-Total	mg/L	<0.03	<0.03	<0.03	<0.3	<0.03	0.003	0.003	0.003	0.002	<0.001	<0.01	<0.01	<0.001	<0.001	<0.001	<0.0005	
	Thiamium (Ti)-Total	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.0005	
	Uranium (U)-Total	mg/L	<0.0005	<0.0005	<0.0005	0.00016	0.00015	0.00016	<0.001	<0.001	0.00027	0.00027	0.00027	0.00027	0.00027	0.00027	0.00027	0.00015	
	Vanadium (V)-Total	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.001	<0.001	<0.001	0.0001	0.0001	<0.001	0.0001	0.0001	0.0001	0.0001	<0.0005	
	Zinc (Zn)-Total	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.002	0.002	0.001	0.001	0.002	0.0001	0.0001	0.0002	0.0001	<0.0005	
	Aluminum (Al)-Dissolved	mg/L	0.018	0.014	0.014	0.021	0.022	0.018	0.017	0.017	0.03	0.03	0.02	0.001	0.001	0.002	0.0001	<0.0005	
	Antimony (Sb)-Dissolved	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.007	0.062	0.014	0.011	<0.0001	
	Arsenic (As)-Dissolved	mg/L	0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.00019	0.0002	0.0002	0.00019	0.0002	0.0002	0.0002	0.0002	0.0003	<0.0001	0.0001	<0.0001
	Barium (Ba)-Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.00216	0.00202	0.00202	0.0019	0.0019	0.00244	0.00212	0.00142	<0.003	0.003	0.003	0.00256
	Beryllium (Be)-Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001
	Bismuth (Bi)-Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001
	Boron (B)-Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	0.002	0.002	0.003	0.003	<0.001	<0.001	<0.004	<0.004	<0.004	<0.001	<0.001
Cadmium (Cd)-Dissolved	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00037	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Calcium (Ca)-Dissolved	mg/L	0.945	0.978	0.988	1.29	1.61	0.98	1.03	1.03	1.03	1.33	0.95	1.13	1.24	1.1	0.98	<0.5	<0.0005	
Chromium (Cr)-Dissolved	mg/L	<0.015	<0.015	<0.015	<0.015	<0.01	0.001	0.002	0.002	0.0002	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	<0.0004	<0.0003	<0.0003	
Cobalt (Co)-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	
Copper (Cu)-Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.0009	0.001	0.001	0.0014	0.0014	0.0019	0.0019	0.0014	0.0049	0.0051	0.0015	<0.0015	
Iron (Fe)-Dissolved	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.03	0.02	<0.01	<0.01	<0.10	
Lead (Pb)-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00005	0.00005	<0.0005	<0.0005	0.00007	<0.0005	<0.0005	<0.0005	<0.0005	0.00022	0.00022	
Lithium (Li)-Dissolved	mg/L	<0.015	<0.015	<0.015	<0.015	<0.01	<0.01	0.001	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Magnesium (Mg)-Dissolved	mg/L	0.428	0.436	0.427	0.631	0.66	0.419	0.432	0.432	0.463	0.68	0.46	0.5	0.56	0.5	<0.50	<0.5	<0.5	
Manganese (Mn)-Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.00097	0.00046	0.00046	0.00102	0.00159	0.00372	0.00108	<0.001	<0.001	<0.001	<0.001	<0.001	
Mercury (Hg)-Dissolved	mg/L	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Molybdenum (Mo)-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003	0.0004	<0.0001	<0.0001	0.0002	0.00005	0.00005	
Nickel (Ni)-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0003	0.0003	0.0003	0.0004	0.0003	0.0004	<0.0001	<0.0001	0.0002	0.00005	0.00005	
Potassium (K)-Dissolved	mg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Selenium (Se)-Dissolved	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0004	<0.0004	<0.0004	<0.0006	<0.0006	
Silver (Si)-Dissolved	mg/L	0.252	0.252	0.209	0.425	0.33	0.22	0.21	0.21	0.37	0.71	0.37	0.29	0.28	0.19	0.23	0.23	0.23	
Silicon (Si)-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Sodium (Na)-Dissolved	mg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.8	<0.8	<0.8	
Strontium (Sr)-Dissolved	mg/L	0.009	0.01	0.013	0.007	0.01	0.0091	0.0051	0.0051	0.0056	0.0065	0.0052	0.0048	0.0048	0.0048	0.0043	0.0037	0.0037	
Thallium (Tl)-Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Tin (Sn)-Dissolved	mg/L	<0.03	<0.03	<0.03	<0.3	<0.03	0.003	0.003	0.003	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003	0.0003	0.0003	
Titanium (Ti)-Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Uranium (U)-Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.00015	0.00014	0.00015	<0.001	<0.001	0.00025	0.00025	0.00025	0.00023	0.00014	0.00012	0.00012	0.00012	0.00012	
Vanadium (V)-Dissolved	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Zinc (Zn)-Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.002	0.002	0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Oil and Grease	mg/L	4.3	2.8	2.4	3.7	4	3.8	3.1	3.1	0.62	4.4	4.4	<1	3	1	2	2	<0.1	
Total Inorganic Carbon	mg/L																	2.7	
Total Organic Carbon	mg/L																		
BOD	mg/L																		
Fecal Coliform	CFU/100 mL																		

Sample ID	Units	PKCA Discharge Criteria
Date Sampled	deg C	
Field Water Temperature	uS/cm	
Field Conductivity	%	
Field DO	mg/L	
Field pH	mV	
Field ORP		
Balance (+ions/-ions)	Ratio	

JER-WQ5

Sample ID	Units	PKCA Discharge Chilena	JER-WQ5 11-Jul-05	JER-WQ5 6-Aug-06	JER-WQ5 5-Sep-06	JER-WQ5 24-Jun-07	JER-WQ5 16-Jul-07	JER-WQ5 25-Aug-07	JER-WQ5 23-Sep-07
Date Sampled			Jun-04	L420594-17	06-10953	L522053-2	L531523-5	L546749-3	L557895-5
Time Sampled			M	M	M	14:14	00:00	13:00	10:10
Lab Sample ID									
Hardness (as CaCO3)	mg/L		<6		<6	6.44	5.15	6.57	6.4
Conductivity	uS/cm	6.0 - 8.8	12		15	18.1	17.4	19.4	18.5
pH			6.77		6.89	6.38	6.84	6.88	7.09
Total Dissolved Solids	mg/L	4000	<4		17	18.0	12.0	19.0	16.0
Total Suspended Solids	mg/L	25	<2		<2	<3	<3	<3	<3
Turbidity	NTU		2		1	1.15	0.51	0.39	0.43
Ammonia as N	mg/L	12	0.01	<0.005	<0.01	0.0116	0.0099	0.0062	0.0092
Acidity (as CaCO3)	mg/L		2		2	2.5	2.1	2.1	1.4
Alkalinity, Bicarbonate (as CaCO3)	mg/L		9		10	4.3	5.2	4.9	6.2
Alkalinity, Carbonate (as CaCO3)	mg/L		<1		<1	<1.0	<1.0	<1.0	<1.0
Alkalinity, Hydroxide (as CaCO3)	mg/L		<1		<1	<1.0	<1.0	<1.0	<1.0
Alkalinity, Total (as CaCO3)	mg/L		8		8	4.3	5.2	4.9	6.2
Chloride (Cl)	mg/L	1000	0.2		0.5	0.63	<0.5	0.60	0.65
Fluoride (F)	mg/L		0.03		0.04				
Sulfate (SO4)	mg/L		<0.5		2.0	1.60	1.06	1.50	1.74
Nitrate (as N)	mg/L	56	<0.05		0.06	0.280	0.0536	0.156	0.221
Nitrite (as N)	mg/L	5.0	<0.05		<0.05	<0.001	<0.001	<0.001	0.0013
Total Kjeldahl Nitrogen	mg/L		<0.2		<0.2	<0.0010	<0.0010	<0.0010	<0.0010
Ortho Phosphate as P	mg/L		<0.20		<0.20	0.0021	<0.0020	<0.0020	<0.0020
Total Dissolved Phosphate As P	mg/L					0.0059	0.0029	0.0031	0.0025
Total Phosphate as P	mg/L	0.4	0.0566	0.0253	0.0177	0.0361	0.0199	0.0151	0.0092
Aluminum (Al)-Total	mg/L	3.0	<0.00005	0.0000073	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010
Antimony (Sb)-Total	mg/L		<0.0002	0.00019	0.0002	0.00020	0.00019	0.00018	0.00018
Arsenic (As)-Total	mg/L	0.10	0.00168	0.0016	0.00155	0.00288	0.00171	0.00177	0.00157
Barium (Ba)-Total	mg/L		<0.0001	<0.000003	<0.0001	<0.00050	<0.00050	<0.00050	<0.00050
Beryllium (Be)-Total	mg/L		<0.001	0.012	0.001	<0.010	<0.010	<0.010	<0.010
Bismuth (Bi)-Total	mg/L		<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005
Boron (B)-Total	mg/L	0.0024	0.80	0.394	1.29	2.95	1.06	1.39	1.35
Cadmium (Cd)-Total	mg/L		0.0012	0.000125	0.0020	<0.0005	<0.0005	<0.0005	<0.0005
Calcium (Ca)-Total	mg/L	0.170	<0.00005	0.0000267	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.10	0.00151	<0.001	0.00096	0.00080	0.00089	0.00074
Cobalt (Co)-Total	mg/L	0.04	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Copper (Cu)-Total	mg/L		<0.00005	0.000091	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Iron (Fe)-Total	mg/L	0.02	0.17	0.454	0.66	0.780	0.579	0.773	0.731
Lead (Pb)-Total	mg/L		<0.01	0.00265	<0.01	0.00565	0.00272	0.00231	0.00157
Lithium (Li)-Total	mg/L		<0.00005	<0.00001	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050
Magnesium (Mg)-Total	mg/L	1.50	<0.00005	<0.00005	<0.00005	<0.000066	<0.000066	<0.000066	<0.000066
Manganese (Mn)-Total	mg/L	0.10	0.0003	0.000323	0.0003	<0.0005	<0.0005	<0.0005	<0.0005
Mercury (Hg)-Total	mg/L		<0.5	0.343	<0.5	0.57	<0.50	<0.50	<0.50
Molybdenum (Mo)-Total	mg/L		<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	mg/L								
Potassium (K)-Total	mg/L								
Selenium (Se)-Total	mg/L								

JER-WQS

Sample ID	Units	PKCA Discharge Criteria	JER-WQS 11-Jul-06	JER-WQS 6-Aug-06	JER-WQS 5-Sep-06	JER-WQS 24-Jun-07	JER-WQS 16-Jul-07	JER-WQS 25-Aug-07	JER-WQS 23-Sep-07
Date Sampled									
Silicon (Si)-Total	mg/L	0.14	<0.0001	0.252	0.28	0.332	0.213	0.149	0.149
Silver (Ag)-Total	mg/L	<0.5	<0.0001	0.0000047	<0.0001	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	mg/L	<0.5	0.511	0.511	0.511	1.21	0.56	0.80	0.76
Strontium (Sr)-Total	mg/L	0.0046	0.0046	0.00451	0.0054	0.00523	0.00523	0.00684	0.00692
Thallium (Tl)-Total	mg/L	<0.0005	<0.000011	0.0000011	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.0001	<0.0000300	<0.0000300	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total	mg/L	0.0008	0.000294	0.000294	<0.00005	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	mg/L	0.00011	0.000138	0.000138	0.00014	0.000160	0.000152	0.000132	0.000109
Vanadium (V)-Total	mg/L	<0.0005	0.0000732	0.00014	0.00014	<0.00010	<0.00010	<0.00010	<0.00010
Zinc (Zn)-Total	mg/L	0.007	0.00811	0.002	0.0058	0.0011	0.0020	<0.001	<0.001
Aluminum (Al)-Dissolved	mg/L	0.018	0.0196	0.014	0.0230	0.0201	<0.006	0.0061	0.0061
Antimony (Sb)-Dissolved	mg/L	<0.0005	0.000007	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Dissolved	mg/L	0.0002	0.00019	0.0003	0.00019	0.00017	0.00017	0.00016	0.00016
Barium (Ba)-Dissolved	mg/L	0.00701	0.00157	0.00132	0.00245	0.00162	0.00156	0.00152	0.00152
Beryllium (Be)-Dissolved	mg/L	<0.0001	<0.000003	<0.0001	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Dissolved	mg/L	<0.001	0.0111	0.0111	<0.001	<0.010	<0.010	<0.010	<0.010
Boron (B)-Dissolved	mg/L	<0.0005	0.000125	0.00002	0.00002	<0.00050	<0.00050	<0.00050	<0.00050
Cadmium (Cd)-Dissolved	mg/L	1.0	0.391	1.3	1.33	1.11	1.37	1.37	1.37
Calcium (Ca)-Dissolved	mg/L	<0.0003	0.000121	0.0011	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chromium (Cr)-Dissolved	mg/L	<0.0002	0.0000267	<0.00002	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Dissolved	mg/L	0.0027	0.00151	0.0010	0.00091	0.00088	<0.00080	0.00076	0.00076
Copper (Cu)-Dissolved	mg/L	<0.10	0.0218	<0.10	<0.030	<0.030	<0.030	<0.030	<0.030
Lead (Pb)-Dissolved	mg/L	<0.0005	0.000091	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Lithium (Li)-Dissolved	mg/L	<0.0010	0.00084	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
Magnesium (Mg)-Dissolved	mg/L	0.4	0.447	0.8	0.754	0.579	0.762	0.723	0.723
Manganese (Mn)-Dissolved	mg/L	<0.010	0.00278	<0.010	0.00189	0.000855	<0.000050	0.000165	0.000165
Mercury (Hg)-Dissolved	mg/L	<0.0005	<0.0001	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum (Mo)-Dissolved	mg/L	0.00020	0.0000424	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Nickel (Ni)-Dissolved	mg/L	0.00025	0.000305	0.00024	0.00051	<0.000050	<0.000050	<0.000050	<0.000050
Potassium (K)-Dissolved	mg/L	<0.5	0.335	<0.5	0.53	<0.50	<0.50	<0.50	<0.50
Selenium (Se)-Dissolved	mg/L	<0.0005	<0.0001	<0.0006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Dissolved	mg/L	0.14	0.246	0.29	0.286	0.219	0.131	0.127	0.127
Silver (Ag)-Dissolved	mg/L	<0.00005	0.0000028	<0.000005	0.000013	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Dissolved	mg/L	<0.5	0.51	0.7	0.81	0.58	0.79	0.76	0.76
Strontium (Sr)-Dissolved	mg/L	0.0060	0.00447	0.0053	0.00673	0.00530	0.00680	0.00685	0.00685
Thallium (Tl)-Dissolved	mg/L	<0.00005	0.000001	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Dissolved	mg/L	<0.0001	<0.00003	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	mg/L	<0.0005	0.000292	<0.0005	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	mg/L	0.00014	0.000134	0.00011	0.000156	0.000127	0.000101	0.000089	0.000089
Vanadium (V)-Dissolved	mg/L	0.0002	0.0000717	0.0007	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Dissolved	mg/L	0.002	0.00374	0.005	<0.0010	<0.0010	<0.0010	0.0011	0.0011
Oil and Grease	mg/L	<0.1		1.3	0.65	0.32	0.89	0.85	0.85
Total Inorganic Carbon	mg/L	2.7		2.4	3.85	-	3.55	3.22	3.22
Total Organic Carbon	mg/L								
BOD	mg/L								
Fecal Coliform	CFU/100 mL	20							

JER-WQ5

Sample ID	Units	PKCA Discharge Criteria	JER-WQ5 11-Jul-06	JER-WQ5 6-Aug-06	JER-WQ5 5-Sep-06	JER-WQ5 24-Jun-07	JER-WQ5 16-Jul-07	JER-WQ5 25-Aug-07	JER-WQ5 23-Sep-07
Data Sampled									
Field Water Temperature	deg C		14.21	16.5	8.97	6.88	17.96	8.01	2.08
Field Conductivity	uS/cm		11	6	11	32	16	15	17
Field DO	%					222.4	103.5	-	106.7
Field DO	mg/L		9.65		11.10	22.18	9.71	-	14.7
Field pH			6.02	7.7	6.39	6.57	7.15	7.06	8.46
Field ORP	mV		361.80		247.70	114.3	170.9	243.0	155.6
Balance (+ions/-ions)	Ratio		0.67		0.67				

Units	PKCA Discharge
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100	100

	Date Sampled	Criteria	CL-04 15-Jul-95 12:00	CL-04 19-Aug-95 11:27	CL-04 12-Sep-95 13:37	CL-04 23-Nov-95 11:35	CL-04 16-Apr-96 16:55	CL-04 14-Jul-96 14:03	CL-04 10-Aug-96 16:45	CL-04 3-Sep-96 13:19	CL-04 4-Dec-96 11:17	CL-04 8-Jul-97 18:12	CL-04 31-Aug-98 10:40	JER-WQ6 18-May-05	JER-WQ6 29-Jul-05	JER-WQ6 30-Aug-05	
	Time Sampled																
	Lab Sample ID																
Hardness (as CaCO3) Conductivity pH Total Dissolved Solids Total Suspended Solids NTU Turbidity Ammonia as N Acidity (as CaCO3)	mg/L		4.17	4.35	4.44	6	6.84	4.39	4.94	4.58	6.58	4.14	4.83	8	6 <6	<6	
	uS/cm		6.35	6.64	6.8	6.77	6.61	6.5	6.85	6.93	6.59	6.03	6.33	7.1	13	13	
	pH	6.0 - 8.3	10	8	10	14	15	8	7	8					7.5	6.25	
	mg/L	25	<1	<1	2	<1	<1	1	3	1	1	<1	<1	<3	<2	<2	
	mg/L		0.014	0.009	<0.005	0.012	0.028	0.007	<0.005	0.011	0.24	0.4	0.5	0.15	2	2	
	mg/L		1.7	3	1.9	3.5	1.8	1	1	2	2			0.037	<0.1	<0.1	
	mg/L		4.9	3.6	4.2	5.7	5.4	4	3.2	4.2	6			6	7	8	
	mg/L		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	
	Alkalinity, Bicarbonate (as CaCO3)																
	Alkalinity, Carbonate (as CaCO3)																
Alkalinity, Hydroxide (as CaCO3)																	
Alkalinity, Total (as CaCO3)																	
Chloride (Cl)		1000	4.9	4.2	4.2	5.7	5.4	4	3.2	4.2	6	4	4	5	6	7	
Fluoride (F)			0.9	<0.5	0.7	0.8	1.3	0.6	0.7	0.8	0.8	1.3	<0.5	<1	0.2	0.3	
Sulfate (SO4)			0.03	0.02	0.02	0.04	0.04	0.03	0.03	0.04	0.04				0.05	<0.02	
Nitrate (as N)		56	<1	<1	1.3	1.9	1.5	<1	<1	<1	1	<1	<1	1.27	<0.5	0.8	
Nitrite (as N)			0.011	<0.005	<0.005	0.02	0.011	<0.005	<0.005	0.066	0.025	0.021	0.008	<0.002	<0.05	0.09	
Total Kjeldahl Nitrogen		5.0	0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001	0.001			<0.006	<0.05	<0.05	
Ortho Phosphate as P			0.001	<0.001	0.002	<0.001	0.003	0.001	0.002	0.003	<0.001			<0.001	<0.2	<0.2	
Total Dissolved Phosphate As P																	
Total Phosphate as P			0.006	<0.001	0.002	<0.001	0.003	0.002	0.002	0.005	0.002			<0.005	<0.005	<0.005	
Aluminum (Al)-Total		0.4	0.006	<0.001	0.006	<0.001	0.004	0.005	0.004	0.007	0.005			0.004	<0.02	<0.02	
Arsenite (As)-Total		3.0	0.035	0.026	0.035	0.022	0.024	0.027	0.021	0.058	0.041	0.027	0.014	0.0137	0.021	0.019	
Barium (Ba)-Total			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00009	<0.0001	0.0002	
Beryllium (Be)-Total		0.10	<0.0001	<0.0001	<0.0001	0.001	0.0003	0.00018	0.000685	0.00016	0.00002	0.00002	0.00002	0.0002	<0.0004	<0.0004	
Bismuth (Bi)-Total			<0.01	<0.01	<0.01	<0.01	<0.01	0.00211	0.002026	0.00232	0.00277	0.00204	0.00138	0.00178	<0.005	<0.005	
Boron (B)-Total			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	<0.0005	<0.0005	
Cadmium (Cd)-Total			<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Calcium (Ca)-Total		0.0024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.001	<0.010	<0.010	
Chromium (Cr)-Total		0.170	<0.015	<0.015	<0.015	<0.015	1.71	0.98	1.08	1.06	1.52	0.95	1.1	1.34	<0.002	<0.002	
Cobalt (Co)-Total			<0.001	<0.001	<0.001	<0.001	<0.001	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0009	<0.0009	
Copper (Cu)-Total		0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.0009	0.0012	0.001	0.0017	0.001	0.0009	0.001	<0.001	<0.001	
Iron (Fe)-Total			<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.02	0.03	0.02	<0.03	0.04	<0.10	<0.001	0.02	
Lead (Pb)-Total		0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00005	<0.00005	<0.00005	<0.00007	<0.00005	<0.00005	<0.00005	<0.0001	<0.0001	
Lithium (Li)-Total			<0.015	<0.015	<0.015	<0.015	<0.01	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.0001	<0.001	<0.001	
Magnesium (Mg)-Total			0.445	0.439	0.467	0.646	0.7	0.425	0.434	0.524	0.74	0.47	0.5	0.588	0.56	0.53	
Manganese (Mn)-Total			<0.005	<0.005	<0.005	<0.005	<0.00005	0.003	0.00302	0.00209	<0.001	<0.001	<0.001	0.0023	0.0011	<0.01	
Mercury (Hg)-Total			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0002	<0.0001	
Molybdenum (Mo)-Total		1.50	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00006	<0.0005	<0.0005	
Nickel (Ni)-Total		0.10	<0.001	<0.001	<0.001	<0.001	<0.001	0.0003	0.0004	0.0003	0.0005	0.0003	0.0003	0.00029	<0.0006	<0.0006	
Potassium (K)-Total			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.36	<0.5	<0.5	

JER-WQ6

Sample ID	Units	PKCA Discharge Criteria
Date Sampled		CL-04 15-Jul-95 CL-04 19-Aug-95 CL-04 12-Sep-95 CL-04 23-Nov-95 CL-04 16-Apr-96 CL-04 14-Jul-96 CL-04 10-Aug-96 CL-04 3-Sep-96 CL-04 4-Dec-96 CL-04 8-Jul-97 CL-04 31-Aug-98 JER-WQ6 18-May-05 JER-WQ6 29-Jul-05 JER-WQ6 30-Aug-05
Focal Coliform	CFU/100 mL	20
Field Water Temperature	deg C	
Field Conductivity	uS/cm	
Field DO	%	
Field DO	mg/L	
Field pH	mV	
Field ORP		
Balance (Mons./Ions)	Ratio	Low EC 1.06

JER-WQ6

Sample ID	Units	PKCA Discharge Criteria	Date Sampled											
			Time Sampled											
			8-Apr-06	27-Jun-06	11-Jul-06	7-Aug-06	10-Sep-06	17-Dec-06	27-Apr-07	29-Jul-07	26-Aug-07	23-Sep-07	08-Dec-07	17-Dec-07
			M	M	M	M	M	M	M	M	M	M	M	M
Lab Sample ID			Jun-73	Jun-03	Jun-05	L420594-18	06-11253	L464346-4	L501255-7	L535988-2	L546749-15	L557895-10	L568547-7	L587850-1
Hardness (as CaCO3)	mg/L		<6.0	<6	<6		<6	8.53	5.63	5.5	5.13	6.07	5.75	6.89
Conductivity	uS/cm		17	15	14		14	22.3	15.3	15.0	15.4	16.1	13.8	18.9
pH		6.0 - 8.8	6.82	6.75	6.81		6.73	6.73	6.73	6.70	6.89	7.00	6.71	8.56
Total Dissolved Solids	mg/L	4000	13	13	4		8	17	<15	13.0	14.0	<15	17	16
Total Suspended Solids	mg/L	25	<2	<2	<2				<3	<3	<3	<3	<3	<3
Turbidity	NTU		<1	2	2		1	1.16	0.13	0.48	0.37	0.33	0.24	0.45
Ammonia as N	mg/L	12	<0.1	0.03	0.01		0.01	0.0199	0.0337	0.0080	0.0093	0.0131	0.0122	0.0244
Acidity (as CaCO3)	mg/L		<1	2	4		1	2.2	1.2	1.1	1.9	1.8	1.6	<1.0
Alkalinity, Bicarbonate (as CaCO3)	mg/L		11	9	9		11	10.2	4.7	4.8	4.4	4.6	4.4	5.6
Alkalinity, Carbonate (as CaCO3)	mg/L		<1	<1	<1		<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity, Hydroxide (as CaCO3)	mg/L		<1	<1	<1		<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity, Total (as CaCO3)	mg/L		9	7	7		9	10.2	4.7	4.8	4.4	4.6	4.4	5.6
Chloride (Cl)	mg/L	1000	0.4	0.2	0.2		0.2	0.64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoride (F)	mg/L		0.04	0.04	0.03		0.03							
Sulfate (SO4)	mg/L		0.6	1.2	<0.5		<0.5	1.66	1.14	1.09	1.11	1.77	1.11	1.76
Nitrate (as N)	mg/L	55	<0.05	<0.05	<0.05		<0.05	0.0917	0.0071	0.0223	0.0524	0.0598	0.0366	0.0395
Nitrite (as N)	mg/L	5.0	<0.05	<0.05	<0.05		<0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Kjeldahl Nitrogen	mg N/L		<0.20	<0.20	<0.20		<0.20	<0.010	0.0011	<0.010	<0.010	<0.010	<0.010	<0.010
Ortho Phosphate as P	mg/L		<0.20	<0.20	<0.20		<0.20	0.0024	0.0020	<0.020	<0.020	<0.020	<0.020	<0.020
Total Dissolved Phosphate As P	mg/L							0.0024	0.0020	<0.020	<0.020	<0.020	<0.020	<0.020
Total Phosphate as P	mg/L	0.4						0.0086	0.0042	0.0033	0.0023	0.0025	0.0025	0.0034
Aluminum (Al)-Total	mg/L	3.0	0.013	0.0332	0.0276	0.0217	0.0185	0.0162	0.0148	0.0183	0.0141	0.0128	0.0124	0.013
Antimony (Sb)-Total	mg/L		<0.0001	<0.00005	<0.00005	0.0000059	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	mg/L	0.10	<0.0004	<0.0002	<0.0002	0.000171	<0.0002	0.00021	0.00016	0.00016	0.00018	0.00015	0.00015	0.00017
Barium (Ba)-Total	mg/L		<0.005	0.00212	0.00167	0.00161	0.00182	0.0025	0.00174	0.00188	0.00179	0.00210	0.00171	0.00237
Beryllium (Be)-Total	mg/L		<0.0005	<0.0001	<0.0001	0.0000052	<0.0001	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Total	mg/L		<0.010	0.001	<0.001	0.0195	0.002	<0.010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron (B)-Total	mg/L		<0.0001	<0.00005	<0.00005	<0.00005	0.00003	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	0.0024	1.28	1.07	0.88	0.98	1.04	1.83	1.22	1.24	1.10	1.37	1.25	1.53
Calcium (Ca)-Total	mg/L		<0.0009	<0.0005	0.0011	0.000372	0.00033	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chromium (Cr)-Total	mg/L	0.170	<0.0001	<0.00005	<0.00005	0.0000149	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L		<0.0001	<0.00005	<0.00005	0.0000152	<0.0001	0.0014	0.00097	0.00093	0.00080	0.00083	0.00081	0.00115
Copper (Cu)-Total	mg/L	0.04	<0.001	0.0011	<0.001	0.00152	<0.001	0.0014	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Iron (Fe)-Total	mg/L		<0.10	<0.10	<0.10	0.00983	<0.10	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead (Pb)-Total	mg/L	0.02	<0.0001	0.00049	<0.00005	<0.00005	<0.00005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Lithium (Li)-Total	mg/L				<0.035	<0.00002	<0.005	<0.030	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Magnesium (Mg)-Total	mg/L		0.64	<0.50	0.20	0.473	0.54	0.906	0.642	0.582	0.614	0.659	0.636	0.823
Manganese (Mn)-Total	mg/L		<0.01	<0.01	<0.01	0.00185	<0.01	0.00216	0.00113	0.00435	0.00218	0.00187	0.000539	0.000716
Mercury (Hg)-Total	mg/L		<0.00005	<0.00005	<0.00005	<0.00001	<0.00005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Molybdenum (Mo)-Total	mg/L	1.50	<0.0005	0.00006	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000104	<0.00005	<0.00005	<0.00005
Nickel (Ni)-Total	mg/L	0.10	0.0008	0.0003	0.0003	0.000298	<0.0001	0.00071	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Potassium (K)-Total	mg/L		<0.5	<0.5	<0.5	0.302	<0.5	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

[illegible]

25

JER-WQ6

Sample ID	Units	PKCA Discharge Criteria	JER-WQ6 8-Apr-06	JER-WQ6 27-Jun-06	JER-WQ6 11-Jul-06	JER-WQ6 7-Aug-06	JER-WQ6 10-Sep-06	JER-WQ6 17-Dec-06	JER-WQ6 27-Apr-07	JER-WQ6 29-Jul-07	JER-WQ6 26-Aug-07	JER-WQ6 23-Sep-07	JER-WQ6 08-Dec-07	JER-WQ6 17-Dec-07
Date Sampled														
Fecal Coliform	CFU/100 mL	20	0.39	6.93	12.23	15.9	10.23	0.3	2.67	12.27	8.56	4.55	0.58	0.89
Field Water Temperature	deg C		14	12	11	6	9	22	15	14	12	15	17	17
Field Conductivity	uS/cm								124.8	103.2	-	110.8	104.5	107.2
Field DO	%		13.53	14.75	10.99		11.59	9.49	16.86	11.02	-	14.33	15.09	14.88
Field pH	mg/L		6.17	6.09	5.72	7.8	5.31	6.47	6.01	6.56	6.87	7.75	7.77	5.49
Field ORP	mV		390.80	264.60	423.70		291.70	329	62.9	323.0	---	188.2	145.1	43.6
Balance (+ions/-ions)	Ratio		0.39	0.88	0.73		0.30							

JER-WQ7

Sample ID	Units	PKCA Discharge Criteria	CL-05																CL-05								
			15-Jul-95	19-Aug-95	10-Sep-95	23-Nov-95	18:16	16-Apr-96	16:01	14-Jul-96	17:35	10-Aug-96	15:20	3-Sep-96	10:45	4-Dec-96	8-Jul-97	18:44	CL-05	31-Aug-98	10:30	7-Apr-99	8:30	CL-05	5-Jul-99	2-Aug-99	
Date Sampled			10:55	13:00	15:20	10:45	18:16	16-Apr-96	16:01	14-Jul-96	17:35	10-Aug-96	15:20	3-Sep-96	10:45	4-Dec-96	8-Jul-97	18:44	CL-05	31-Aug-98	10:30	7-Apr-99	8:30	CL-05	5-Jul-99	2-Aug-99	
Time Sampled			10:55	13:00	15:20	10:45	18:16	16-Apr-96	16:01	14-Jul-96	17:35	10-Aug-96	15:20	3-Sep-96	10:45	4-Dec-96	8-Jul-97	18:44	CL-05	31-Aug-98	10:30	7-Apr-99	8:30	CL-05	5-Jul-99	2-Aug-99	
Lab Sample ID																											
Hardness (as CaCO3)	mg/L	6.0 - 8.8 4000 25 NTU	4.18	4.33	4.29	6.33	6.76	4.49	4.8	4.59	6.68	4.51	61.4	7.48	5.23	5.58											
Conductivity	uS/cm																										
pH	pH		6.41	6.77	6.92	6.76	6.88	6.5	6.89	6.54	6.5	6.5	8.19	6.76	6.63	6.48	6.41										
Total Dissolved Solids	mg/L		11	9	10	15	15	8	8	8	8	13	5	1	16	11	11										
Total Suspended Solids	mg/L		2	<1	<1	<1	3	<1	3	4	4	5	<1	1	<3	<3	<3										
Turbidity	NTU																										
Ammonia as N	mg/L	12	0.013	0.005	<0.005	0.017	0.028	<0.005	<0.005	0.007	0.018	0.4	0.3	0.011	<0.005	<0.005											
Acidity (as CaCO3)	mg/L		1.9	2.4	1.9	4.3	1.8	2	1.7	2	2																
Alkalinity, Bicarbonate (as CaCO3)	mg/L		5.6	5	4.1	6.2	5.5	4.1	3.7	4	5																
Alkalinity, Carbonate (as CaCO3)	mg/L		<1	<1	<1	<1	<1	1	<1	<1	<1																
Alkalinity, Hydroxide (as CaCO3)	mg/L																										
Alkalinity, Total (as CaCO3)	mg/L		5.6	4	4.1	6.2	5.5	4.1	3.7	4	5	4	4	6	4	5											
Chloride (Cl)	mg/L	1000	0.9	0.5	0.7	0.8	1	0.6	0.7	0.8	1.3	1.2	39	1.3	0.5	<0.5											
Fluoride (F)	mg/L		0.03	0.02	0.02	0.03	0.06	<0.02	0.03	0.03	0.04																
Sulfate (SO4)	mg/L		<1	<1	1.6	2.1	1.3	<1	<1	<1	<1	1	2	2	1	1											
Nitrate (as N)	mg/L	56	0.013	<0.005	<0.005	0.028	0.009	<0.005	<0.005	0.007	0.018	0.018	2.5	0.022	0.024	<0.005											
Nitrite (as N)	mg/L	5.0	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	0.001	0.001																
Total Kjeldahl Nitrogen	mg N/L		<0.001	<0.001	<0.001	<0.001	0.006	0.002	0.006	0.004	0.001																
Ortho Phosphate as P	mg/L																										
Total Dissolved Phosphate As P	mg/L		0.002	0.003	<0.001	<0.001	0.006	0.002	0.006	0.004	0.002			0.027	0.003	0.004											
Total Phosphate as P	mg/L	0.4	0.005	0.005	0.003	<0.001	0.007	0.007	0.007	0.009	0.003			0.039	0.008	0.003											
Aluminum (Al)-Total	mg/L	3.0	0.034	0.026	0.38	0.022	0.028	0.027	0.033	0.051	0.031	0.026	0.031	0.015	0.023	0.018											
Antimony (Sb)-Total	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	0.00008	<0.00005	0.00008	<0.00005	<0.00005											
Arsenic (As)-Total	mg/L	0.10	<0.0001	<0.0001	<0.0001	0.0001	0.0002	0.00022	0.00023	0.00018	0.00021	0.00026	0.00018	0.0003	0.0002	0.0002											
Barium (Ba)-Total	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01	0.00226	0.00214	0.00236	0.00281	0.00191	0.0379	0.00267	0.00181	0.00196											
Beryllium (Be)-Total	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005											
Bismuth (Bi)-Total	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.003	0.001	<0.001	0.006	<0.005	<0.005	<0.005											
Boron (B)-Total	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	0.006	0.001	<0.001	0.005	0.001	<0.001	<0.001											
Cadmium (Cd)-Total	mg/L	0.0024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005											
Calcium (Ca)-Total	mg/L		1.01	1.08	1.72	1.4	1.7	1.01	1.07	1.09	1.47	0.93	18.2	1.68	1.15	1.24											
Chromium (Cr)-Total	mg/L	0.170	<0.015	<0.015	<0.015	<0.015	<0.01	0.0001	0.0002	0.0001	<0.0005	<0.0005	<0.0005	0.0009	<0.0005	<0.0005											
Cobalt (Co)-Total	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	0.0001	0.0002	<0.0001	<0.0001	<0.0001											
Copper (Cu)-Total	mg/L	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.0009	0.0009	0.001	0.0014	0.0011	0.0015	0.0016	0.0009	0.001											
Iron (Fe)-Total	mg/L		<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.02	0.03	<0.01	<0.03	0.03	0.11	<0.03	<0.03											
Lead (Pb)-Total	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	0.00006	<0.0005	0.00005	0.00029	0.00023	<0.0005											
Lithium (Li)-Total	mg/L	0.02	<0.015	<0.015	0.023	<0.015	<0.01	<0.001	0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001											
Magnesium (Mg)-Total	mg/L		0.448	0.458	0.466	0.7	0.66	0.435	0.465	0.467	0.69	0.43	4.7	0.81	0.6	0.6											
Manganese (Mn)-Total	mg/L		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0005	0.000318	0.00153	0.00577	0.6477	0.00266	0.00529	0.00267											
Mercury (Hg)-Total	mg/L		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005											
Molybdenum (Mo)-Total	mg/L	1.50	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0006	<0.0005	<0.0005											
Nickel (Ni)-Total	mg/L	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	0.0003	0.0003	0.0004	0.0004	0.0004	0.0012	0.0005	0.0004	0.0004											
Potassium (K)-Total	mg/L		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2											

[illegible]

PKCA
Discharge
C-100

Sample ID	Units	FPCA Discharge Criteria
Date Sampled		
Fecal Coliform	CFU/100 mL	20
Field Water Temperature	deg C	
Field Conductivity	uS/cm	
Field DO	%	
Field DO	mg/L	
Field pH		
Field ORP	mV	
Ion Balance	Ratio	

JER-WQ7

PKCA Discharge Criteria	Units	Sample ID	JER-WQ7													
			1-Sep-99	30-Jun-05	29-Jul-05	26-Aug-05	18-Jun-06	11-Jul-06	7-Aug-06	10-Sep-06	28-Jun-07	17-Jul-07	25-Aug-07	23-Sep-07		
Date Sampled																
Time Sampled																
Lab Sample ID																
6.0 - 6.8 4000 25	mg/L	Hardness (as CaCO3)	5.43	<6	<6	<6	<6	Jun-84	Jun-06	L420594-19	06-11254	L521057-3	L531523-12	L546749-12	L557895-6	
	uS/cm	Conductivity	13	20	13	14	14	14	<6		<6	5.35	5.31	5.37	5.37	
	pH	pH	6.73	5.72	5.66	6.91	6.76	6.81	6.81		6.75	6.45	6.89	6.86	7.09	
	mg/L	Total Dissolved Solids	12	<15	12	12	32	12	12	<2	8	10	<15	17.0	16.0	
	mg/L	Total Suspended Solids	<3	<2	2	<2	2	2	2	<2						
12	NTU	Turbidity	1	1	2	1	1	1	2		1	1.31	0.56	0.34	0.42	
	mg/L	Ammonia as N	<0.005	<0.1	<0.1	<0.1	0.02	0.01	<0.005	0.01	0.01	0.0108	0.0073	0.0090	0.0079	
	mg/L	Acidity (as CaCO3)		2	3	2	3	2			1	<1.0	1.7	1.6	2.0	
	mg/L	Alkalinity, Bicarbonate (as CaCO3)		11	7	7	8	10	10		11	3.9	5.4	4.3	4.4	
	mg/L	Alkalinity, Carbonate (as CaCO3)	<3	<1	<1	<1	<1	<1	<1		<1	<1.0	<1.0	<1.0	<1.0	
	mg/L	Alkalinity, Hydroxide (as CaCO3)														
1000	mg/L	Alkalinity, Total (as CaCO3)	<1	<1	<1	<1	<1	<1	<1		<1	<1.0	<1.0	<1.0	<1.0	
	mg/L	Chloride (Cl)	5	9	6	6	6	8	8		9	3.9	5.4	4.3	4.4	
	mg/L	Fluoride (F)	0.9	0.4	0.2	0.4	0.4	0.2	0.3	0.03	0.03	<0.5	<0.5	<0.5	<0.5	
	mg/L	Sulfate (SO4)	2	3.4	0.9	0.7	0.8	<0.5	<0.5	0.6	0.6	0.91	0.95	1.07	1.28	
	mg/L	Nitrate (as N)	0.007	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0408	0.0243	0.0237	0.0354	
	mg/L	Nitrite (as N)	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.001	<0.001	<0.001	0.0012	
	mg N/L	Total Kjeldahl Nitrogen														
	mg/L	Ortho Phosphate as P	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.20	<0.20	<0.010	<0.010	<0.010	<0.010	
	mg/L	Total Dissolved Phosphate As P														
	mg/L	Total Phosphate as P	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0020	<0.0020	<0.0021	<0.0020	
	mg/L	Aluminum (Al)-Total	0.004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.005	<0.005	0.0051	0.0022	0.0062	0.0026	
	mg/L	Antimony (Sb)-Total	0.021	<0.02	0.05	0.034	0.0211	0.0283	0.0219	0.0239	0.0391	0.0203	0.0246	0.0146	0.0146	
	mg/L	Arsenic (As)-Total	<0.0005	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	0.0000062	<0.00005	<0.00005	<0.00010	<0.00010	<0.00010	
	mg/L	Barium (Ba)-Total	0.0002	<0.0004	<0.0004	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00015	0.00015	0.00017	0.00017	
	mg/L	Beryllium (Be)-Total	0.0019	<0.005	<0.005	<0.005	0.00177	0.00163	0.00164	0.00202	0.00231	0.00178	0.00189	0.00169	0.00169	
	mg/L	Bismuth (Bi)-Total	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.00003	0.0002	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
	mg/L	Boron (B)-Total	<0.0001	<0.010	<0.010	<0.010	<0.001	<0.001	0.0291	0.001	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
	mg/L	Cadmium (Cd)-Total	<0.00005	<0.0002	<0.0002	<0.0001	<0.00005	<0.00005	<0.000002	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	0.0024	mg/L	Calcium (Ca)-Total	1.17	1.12	1.16	1.17	1.08	0.88	1.02	1.09	1.15	1.13	1.30	1.16	1.16
	0.170	mg/L	Calcium (Ca)-Total	<0.0005	<0.0009	<0.0009	<0.0009	0.0014	0.0013	0.000258	0.0034	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	mg/L	Cobalt (Co)-Total	<0.0001	<0.0001	<0.0001	<0.0001	0.00006	<0.00005	<0.00005	0.000179	<0.00005	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010
	0.04	mg/L	Copper (Cu)-Total	0.0013	<0.001	<0.001	0.0012	0.0076	<0.001	0.00155	<0.001	<0.001	0.00391	0.00098	0.00161	0.00086
0.02	mg/L	Iron (Fe)-Total	<0.03	0.05	<0.10	<0.10	<0.10	<0.10	0.00581	<0.10	0.041	<0.030	0.050	<0.030	<0.030	
	mg/L	Lead (Pb)-Total	<0.00005	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	mg/L	Lithium (Li)-Total	<0.001					<0.005	0.00024	<0.005	<0.0005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	mg/L	Magnesium (Mg)-Total	0.6	0.56	0.57	0.56	<0.50	0.19	0.473	0.55	0.52	0.560	0.620	0.578	0.578	0.578
	mg/L	Manganese (Mn)-Total	0.00201	0.007	<0.01	<0.01	<0.01	<0.01	0.00189	<0.01	0.00562	0.00521	0.00400	0.00246	0.00246	0.00246
1.50	mg/L	Mercury (Hg)-Total	<0.00005	<0.0002	<0.0002	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	mg/L	Molybdenum (Mo)-Total	<0.00005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	mg/L	Nickel (Ni)-Total	0.0003	<0.0006	<0.0006	<0.0006	0.0005	0.0004	0.000302	0.002	0.00059	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
0.10	mg/L	Potassium (K)-Total	<2	<0.5	<0.5	<0.5	<0.5	0.298	0.005	0.298	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50

Sample ID	Units	PKCA Discharge Criteria	JER-WQ7													JER-WQ7	JER-WQ7
			CL-05	3B-Jun-05	29-Jul-05	26-Aug-05	18-Jun-06	11-Jul-06	7-Aug-06	10-Sep-06	28-Jun-07	17-Jul-07	25-Aug-07	23-Sep-07			
Date Sampled			<0.001	<0.0008	<0.0008	<0.0008	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Selenium (Se)-Total	mg/L		0.30	0.2	0.26	0.21	0.15	0.12	0.265	0.18	0.300	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Silicon (Si)-Total	mg/L		<0.0001	<0.0002	<0.0002	<0.0002	<0.001	<0.001	0.000028	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Silver (Ag)-Total	mg/L		<2	0.8	0.6	<0.5	<0.001	<0.5	0.457	<0.5	<0.50	0.52	0.52	0.57	0.53	0.53	
Sodium (Na)-Total	mg/L		0.0053			0.0048	0.0044	0.0046	0.00045	0.0052	0.00538	0.00511	0.00546	0.00516	0.00516	0.00516	
Strontium (Sr)-Total	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000074	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Thallium (Tl)-Total	mg/L		<0.0001					<0.0001	0.000047	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Tin (Sn)-Total	mg/L		<0.01					<0.0005	0.000043	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Titanium (Ti)-Total	mg/L	1.0	0.0002	0.00012	0.00017	0.00016	0.00012	0.0010	0.000044	<0.0005	0.000207	0.000151	0.000165	0.000135	0.000135	0.000135	
Uranium (U)-Total	mg/L		<0.001	<0.0001	0.0002	0.0002	<0.0005	<0.0005	0.000123	0.0029	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Vanadium (V)-Total	mg/L		<0.001	<0.0001		0.004	0.007	0.003	0.00395	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc (Zn)-Total	mg/L	0.50	0.014	0.013	0.018	0.022	0.015	0.019	0.013	0.0204	0.0125	0.0186	0.0125	0.0080	0.0080	0.0080	
Aluminum (Al)-Dissolved	mg/L	2.0	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	0.0000058	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Antimony (Sb)-Dissolved	mg/L		0.0002	0.0002	<0.0001	0.0003	0.0002	0.0001	0.000165	<0.0001	0.00015	0.00017	0.00015	0.00015	0.00016	0.00016	
Arsenic (As)-Dissolved	mg/L		0.00184	<0.003	<0.003	<0.003	0.00156	0.00284	0.000159	0.00206	0.00205	0.00177	0.00169	0.00157	0.00157	0.00157	
Barium (Ba)-Dissolved	mg/L		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000003	<0.0001	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Beryllium (Be)-Dissolved	mg/L		<0.0005					<0.0001	0.000003	<0.0001	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Bismuth (Bi)-Dissolved	mg/L		<0.0005					<0.0001	0.000003	<0.0001	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Boron (B)-Dissolved	mg/L		<0.001	<0.004	<0.004	<0.004	<0.001	<0.001	0.0249	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Cadmium (Cd)-Dissolved	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000002	<0.000002	<-0.000050	<-0.000050	<-0.000050	<-0.000050	<-0.000050	<-0.000050	
Calcium (Ca)-Dissolved	mg/L		1.19	1.15	1.4	1.2	0.7	1.1	1	6.5	1.15	1.15	1.20	1.19	1.19	1.19	
Chromium (Cr)-Dissolved	mg/L		<0.0005	<0.0004	<0.0004	<0.0004	<0.0003	<0.0003	0.000261	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Cobalt (Co)-Dissolved	mg/L		<0.0001	<0.0005	<0.0005	<0.0005	0.00002	<0.0002	0.0000153	<0.0002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Copper (Cu)-Dissolved	mg/L		0.001	0.0039	0.0047	<0.0010	0.00002	0.0029	0.000147	<0.0001	0.00083	0.00083	<0.00070	0.00069	0.00069	0.00069	
Iron (Fe)-Dissolved	mg/L		<0.03	<0.01	<0.01	<0.1	<0.10	<0.10	0.00572	<0.10	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	
Lead (Pb)-Dissolved	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00006	0.000085	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Lithium (Li)-Dissolved	mg/L		<0.001					<0.0010	0.00006	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Magnesium (Mg)-Dissolved	mg/L		0.6	0.55	0.6	0.5	<0.5	<0.5	0.473	0.4	0.600	0.590	0.576	0.564	0.564	0.564	
Manganese (Mn)-Dissolved	mg/L		0.00058	0.0003	<0.001	0.005	<0.010	<0.010	0.00184	<0.010	0.00206	0.00242	0.000682	0.000683	0.000683	0.000683	
Mercury (Hg)-Dissolved	mg/L		<0.00005	<0.0002	<0.0002	<0.0001	<0.00005	<0.00005	<0.00001	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
Molybdenum (Mo)-Dissolved	mg/L		<0.00005	<0.0003	<0.0003	<0.0003	<0.00005	0.00006	0.0000247	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
Nickel (Ni)-Dissolved	mg/L		0.0003	0.0003	0.0003	0.0002	0.00025	0.00042	0.00027	0.00025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Potassium (K)-Dissolved	mg/L		<2	<0.5	<0.5	<0.5	<0.5	<0.5	0.292	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Selenium (Se)-Dissolved	mg/L		<0.001	<0.0004	<0.0004	<0.0004	<0.006	<0.006	<0.0001	<0.0006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Silicon (Si)-Dissolved	mg/L		0.3	0.21	0.25	0.25	0.26	0.14	0.261	0.15	0.216	0.164	0.143	0.138	0.138	0.138	
Silver (Ag)-Dissolved	mg/L		<0.00001	<0.00005	<0.00005	<0.00005	0.00006	<0.00005	0.0000014	<0.000005	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium (Na)-Dissolved	mg/L		<2	<0.5	<0.5	<0.5	<0.5	<0.5	0.449	<0.5	<0.50	0.54	0.55	0.55	0.55	0.55	
Strontium (Sr)-Dissolved	mg/L		0.0054			0.0047	0.0044	0.0061	0.00445	0.0052	0.00522	0.00524	0.00501	0.00516	0.00516	0.00516	
Thallium (Tl)-Dissolved	mg/L		<0.00005	<0.00002	<0.00002	<0.00002	<0.00005	<0.00005	0.0000074	<0.000005	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Tin (Sn)-Dissolved	mg/L		<0.001					<0.0001	0.000003	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Titanium (Ti)-Dissolved	mg/L		<0.01					<0.0005	<0.00004	<0.0005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Uranium (U)-Dissolved	mg/L		0.00019	0.00011	0.00012	0.00026	0.00011	0.00014	0.000138	0.00011	0.000161	0.000132	0.000118	0.000108	0.000108	0.000108	
Vanadium (V)-Dissolved	mg/L		<0.001	<0.0005	<0.0005	<0.0005	0.0002	0.00003	0.000122	0.00005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Zinc (Zn)-Dissolved	mg/L		<0.001	0.003	0.002	<0.002	<0.001	0.004	0.00128	0.002	<0.0010	<0.0010	0.0010	0.0011	0.0011	0.0011	
Oil and Grease	mg/L	5.0										0.64	-	-	-	-	
Total Inorganic Carbon	mg/L		3.3	1	1	2	0.1	<0.1		1	0.62	3.18	0.70	0.71	0.71	0.71	
Total Organic Carbon	mg/L			2	2		2.7	2.7		2.6	3.22	-	3.22	3.07	3.07	3.07	
BOD	mg/L	25															

Sample ID	Units	PKCA Discharge Criteria
Date Sampled	CI-05	
Fecal Coliform	CFU/100 mL	20
Field Water Temperature	deg C	
Field Conductivity	uS/cm	
Field DO	%	
Field DO	mg/L	
Field pH	mV	
Field ORP	Ratio	
Ion Balance		

Sample ID	Units	PKCA Discharge Criteria	JER-WQ8																		
			CL-06	CL-06	CL-06	CL-06	CL-06	CL-06	CL-06	CL-06	CL-06	CL-06	CL-06	CL-06	CL-06	CL-06					
Date Sampled			15-Jul-95	20-Aug-95	10-Sep-95	23-Nov-95	08:50	19-Aug-96	23-Jul-98	15:05	12-Aug-96	12:18	14-Sep-96	12:10	4-Dec-96	8-Jul-97	31-Aug-98	5-Jul-99	2-Aug-99	1-Sep-99	26-May-05
Time Sampled			9:15	16:20	10:30	13:30			21:49								10:20				
Lab Sample ID																					
Hardness (as CaCO3)	mg/L		4.3	4.35	4.19	6.45	7.8	4.54	4.85	6.97	5.14	6.86	4.46	5.15	4.99	4.93	5.07	7			
Conductivity	uS/cm																				
pH		6.0 - 8.8	6.38	6.76	6.56	6.85	6.25	6.41	6.76	5.14	6.06	6.06	12	9	13	11	16	20.5			
Total Dissolved Solids	mg/L	4000	10	8	10	14	16	7	8	9	12	12	8.16	6.23	6.29	6.72	6.95	6.7			
Total Suspended Solids	mg/L	25	<1	<1	1	2	<1	3	2	1	1	1	<1	<1	<15	12	12	40			
Turbidity	NTU																				
Ammonia as N	mg/L	12	0.013	<0.005	<0.005	0.017	0.033	0.005	0.023	<0.005	0.015	2	0.4	0.4	<0.005	<0.005	<0.005	0.15			
Acidity (as CaCO3)	mg/L		1.3	2.4	4.8	2.9	1.8	1.9	1.5	2	2						<5	0.023			
Alkalinity, Bicarbonate (as CaCO3)	mg/L		5.4	3.7	4.2	5.2	6.2	3.2	3.5	3.2	5										
Alkalinity, Carbonate (as CaCO3)	mg/L		<1	<1	<1	<1	<1	<1	<1	<1	<1										
Alkalinity, Hydroxide (as CaCO3)	mg/L																				
Alkalinity, Total (as CaCO3)	mg/L	1000	5.4	4	4.2	5.2	6.2	3.2	3.5	3.2	5	4	4	4	5	5	5	8			
Chloride (Cl)	mg/L		0.7	<0.5	0.5	1.1	1.6	0.7	0.7	0.7	1.2	0.9	0.9	0.7	0.5	0.5	1	<1			
Fluoride (F)	mg/L		0.03	0.02	0.02	0.03	0.03	<0.02	0.05	0.04	0.03										
Sulfate (SO4)	mg/L		<1	<1	1.5	1.4	1.6	<1	<1	<1	1	1	<1	1	1	1	2	1.38			
Nitrate (as N)	mg/L	56	<0.005	<0.005	<0.005	0.008	0.01	<0.005	0.042	0.007	0.011	0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.013			
Nitrite (as N)	mg/L	5.0	0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	<0.001						<0.001	<0.002			
Total Kjeldahl Nitrogen	mg N/L		0.001	<0.001	<0.001	<0.001	0.002	0.002	0.003	<0.001	0.001						<0.001	<0.002			
Ortho Phosphate as P	mg/L		0.003	0.002	0.002	<0.001	0.002	0.003	0.003	0.002	0.002						<0.001	<0.001			
Total Phosphate as P	mg/L	0.4	0.004	0.004	0.004	<0.001	0.005	0.005	0.005	0.003	0.005						<0.002	<0.002			
Aluminum (Al)-Total	mg/L	3.0	0.03	0.023	0.026	0.021	0.026	0.036	0.028	0.034	0.026						0.003	0.004			
Antimony (Sb)-Total	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005						0.015	0.015			
Arsenic (As)-Total	mg/L	0.10	<0.0001	<0.0001	<0.0001	0.0001	0.0003	0.00017	0.00021	0.00018	0.0002						<0.00005	<0.00005			
Barium (Ba)-Total	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01	0.00166	0.002	0.00215	0.00268						0.00173	0.0017			
Beryllium (Be)-Total	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005						<0.0005	<0.0005			
Bismuth (Bi)-Total	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.002	<0.001	0.001						<0.0005	<0.0005			
Boron (B)-Total	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1	0.003	0.002	<0.001	0.001						<0.001	<0.001			
Cadmium (Cd)-Total	mg/L	0.0024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00005	0.0001	<0.00005	<0.00005						<0.00005	<0.00005			
Calcium (Ca)-Total	mg/L		0.993	1.02	0.995	1.54	1.89	1.03	1.08	1.11	1.35						1.07	1.09			
Chromium (Cr)-Total	mg/L	0.170	<0.015	<0.015	<0.015	<0.015	<0.01	0.0001	0.0002	0.0001	<0.0005						<0.0005	<0.0005			
Cobalt (Co)-Total	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	0.0003	<0.0001	<0.0001						<0.0001	<0.0001			
Copper (Cu)-Total	mg/L	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.001	0.001	0.0011	0.0011						0.0009	0.0009			
Iron (Fe)-Total	mg/L		<0.03	<0.03	<0.03	<0.03	<0.03	0.02	0.03	0.03	<0.01						<0.03	<0.03			
Lead (Pb)-Total	mg/L	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00005	0.00005	<0.00005	<0.00005						<0.00005	<0.00005			
Lithium (Li)-Total	mg/L		<0.015	<0.015	<0.015	<0.015	<0.01	0.002	0.001	<0.001	<0.001						<0.001	<0.001			
Magnesium (Mg)-Total	mg/L		0.442	0.456	0.464	0.67	0.78	0.516	0.516	0.545	0.60406						0.6	0.6			
Manganese (Mn)-Total	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	0.00226	0.00288	0.00272	0.00108						0.00251	0.00245			
Mercury (Hg)-Total	mg/L		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005						<0.00005	<0.00005			
Molybdenum (Mo)-Total	mg/L	1.50	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00005	<0.00005	<0.00005	<0.00005						<0.00005	<0.00005			
Nickel (Ni)-Total	mg/L	0.10	<0.001	<0.001	0.003	<0.001	<0.001	0.0003	0.0003	0.0003	0.0004						0.0002	0.0003			
Potassium (K)-Total	mg/L		<2	<2	<2	<2	<2	<2	<2	<2	<2						<2	<2			

25

JER-WQ8

Sample ID	Units	PtCA Discharge Criteria
Date Sampled		
Fecal Coliform	CFU/100 mL	20
Field Water Temperature	deg C	
Field Conductivity	uS/cm	
Field DO	%	
Field DO	mg/L	
Field pH		
Field ORP	mV	

[illegible]