



May 31st, 2006

Chief Administrative Officer
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

RE: Water License NWB1JER0410 Monthly SNP Report – April 2006

General

During the month of April 2006, JER-SW1, JER-SW3, JER-SW4, JER-WQ4, JER-WQ6, JER-WQ8, JER-WQ10, JER-WQ11, JER-WQ13 and applicable QA/QC were collected as part of the Surveillance Network Program associated with Water License NWB1JER0410. JER-WQ14 and JER-WQ9 were not collected as sampling locations were frozen to the bottom.

Results

A) Water Sampling and Analysis Results

1. Table 1 provides the results for samples related to the SNP sampling requirements for the month of April 2006.

B) Flow and Volume Measurements

1. Table 2 provides a breakdown of flow and volume measurements and solid material moved as required under Part K, Item 12 and 13 of the water license. Volumes of treated sewage effluent reporting to the PKC are provided in a calculated value. The flow meter within the Waste Water Treatment Plant is not functioning properly a replacement meter has been ordered.

Regards,

Mike Tanguay
H,S&E Manager

Harold Gates
Operations Manager

Cc: George Taptuna, DIAND Land Use Inspector

Table 1 - Water Chemistry Results - April 2006

JER-SW1

Collect Date/Time

5/1/2006

Sample No.			6/1/5568 PKCA Discharge	
Sample Class		M	Criteria	
Air Temperature	Deg C			
Wind Speed	KM/H			
Wind Direction	unitless			
Water Temperature	Deg C		25.61	
Field pH	pH		7.81	
Field Conductivity	us/cm		1118	
Oxidation Reduction Potential	mV		173.60	
Biochemical Oxygen Demand	mg/L		49	25
MF - Fecal Coliforms	CFU/100mL		11000	20
Turbidity	NTU		39	
Total Suspended Solids @105°C	mg/L		15	25
T-Hardness as CaCO3	mg/L			
T-Dissolved Solids180°C	mg/L		420	4000
T-Alkalinity as CaCO3	mg/L		370	
Sulphate	mg/L		67.6	
Phosphate - Ortho - Phosphoru	mg/L		8.20	
pH @ 25°C	pH		7.73	6.0-8.8
Nitrite - Nitrogen	mg/L	<0.05		5
Nitrate - Nitrogen	mg/L	<0.05		56
Hydroxide (as CaCO3)	mg/L	<1		
Fluoride	mg/L		0.05	
Conductivity @ 25°C	us/cm		1090	
Chloride	mg/L		53.3	1000
Carbonate	mg/L	<1		
Bicarbonate	mg/L		451	
Balance (+ions/-ions)	Ratio			
Acidity as CaCO3	mg/L		-295	
Carbon (Total Organic)	mg/L		50.4	
Ammonia - Nitrogen	mg/L		110	12
Carbon (Total Inorganic)	mg/L		83.6	
Total Iron	mg/L		0.50	
Total Manganese	mg/L		0.03	
Total Zinc	mg/L		0.064	0.5
Total Vanadium	mg/L		0.0033	
Total Uranium	mg/L		0.00015	1
Total Thallium	mg/L	<0.00005		
Total Strontium	mg/L		0.0264	
Total Sodium	mg/L		89.9	
Total Silver	mg/L	<0.0002		
Total Silicon	mg/L		2.66	
Total Selenium	mg/L		0.0011	
Total Potassium	mg/L		21.5	
Total Phosphorus	mg/L			0.4
Total Nickel	mg/L		0.0054	0.1
Total Molybdenum	mg/L		0.00120	1.5
Total Mercury	mg/L	<0.00005		

Total Magnesium	mg/L	3.24	
Total Lead	mg/L	0.00143	0.02
Total Copper	mg/L	0.122	0.04
Total Cobalt	mg/L	0.00021	
Total Chromium	mg/L	0.0076	0.17
Total Calcium	mg/L	7.72	
Total Cadmium	mg/L	0.00011	0.0024
Total Boron	mg/L	0.022	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	0.0105	
Total Arsenic	mg/L	0.0013	0.1
Total Antimony	mg/L	0.00502	
Total Aluminum	mg/L	0.118	3
Dissolved Calcium	mg/L	5.9	
Dissolved Magnesium	mg/L	2.6	
Dissolved Potassium	mg/L	22.3	
Dissolved Sodium	mg/L	89	
Total Phosphorus	mg/L	9.43	
Dissolved Zinc	mg/L	0.028	
Dissolved Vanadium	mg/L	0.0023	
Dissolved Uranium	mg/L	0.00014	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	0.0272	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	2.62	
Dissolved Selenium	mg/L	0.0012	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	0.00444	
Dissolved Molybdenum	mg/L	0.00071	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	0.015	
Dissolved Lead	mg/L	0.00135	
Dissolved Iron	mg/L	0.43	
Dissolved Copper	mg/L	0.0564	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	0.0076	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	0.023	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	0.0106	
Dissolved Arsenic	mg/L	0.0014	
Dissolved Antimony	mg/L	0.0031	
Dissolved Aluminum	mg/L	0.042	2
MF - Fecal Coliforms	CFU/100mL	11000	20
Biochemical Oxygen Demand	mg/L	49	25

JER-SW3

Collect Date/Time

4/12/2006 10:35

Sample No.			6/1/5074 PKCA Discharge	
Sample Class		M	Criteria	
Air Temperature	Deg C		20	
Wind Speed	KM/H	N/A		
Wind Direction	unitless	N/A		
Water Temperature	Deg C		16.32	
Field pH	pH		9.48	
Field Conductivity	us/cm		198	
Oxidation Reduction Potential	mV		457.00	
Biochemical Oxygen Demand	mg/L			25
MF - Fecal Coliforms	CFU/100mL			20
Turbidity	NTU		29	
Total Suspended Solids @105°C	mg/L		19	25
T-Hardness as CaCO3	mg/L			
T-Dissolved Solids180°C	mg/L		124	4000
T-Alkalinity as CaCO3	mg/L		55	
Sulphate	mg/L		6	
Phosphate - Ortho - Phosphoru	mg/L	<0.20		
pH @ 25°C	pH		8.30	6.0-8.8
Nitrite - Nitrogen	mg/L		0.11	5
Nitrate - Nitrogen	mg/L		4.71	56
Hydroxide (as CaCO3)	mg/L	<1		
Fluoride	mg/L		0.26	
Conductivity @ 25°C	us/cm		203	
Chloride	mg/L		12.6	1000
Carbonate	mg/L	<1		
Bicarbonate	mg/L		67	
Balance (+ions/-ions)	Ratio			
Acidity as CaCO3	mg/L		2	
Carbon (Total Organic)	mg/L		1.3	
Ammonia - Nitrogen	mg/L		0.61	12
Carbon (Total Inorganic)	mg/L		9.5	
Total Iron	mg/L		0.71	
Total Manganese	mg/L		0.01	
Total Zinc	mg/L		0.005	0.5
Total Vanadium	mg/L		0.0016	
Total Uranium	mg/L		0.00032	1
Total Thallium	mg/L	<0.00005		
Total Strontium	mg/L		0.0473	
Total Sodium	mg/L		12.6	
Total Silver	mg/L	<0.0002		
Total Silicon	mg/L		10.4	
Total Selenium	mg/L	<0.0008		
Total Potassium	mg/L		5.1	
Total Phosphorus	mg/L			0.4
Total Nickel	mg/L		0.0096	0.1
Total Molybdenum	mg/L		0.00586	1.5
Total Mercury	mg/L	<0.00005		
Total Magnesium	mg/L		9.43	

Total Lead	mg/L	0.00035	0.02
Total Copper	mg/L	0.0036	0.04
Total Cobalt	mg/L	0.00088	
Total Chromium	mg/L	0.0025	0.17
Total Calcium	mg/L	9.16	
Total Cadmium	mg/L	<0.00010	0.0024
Total Boron	mg/L	0.030	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	0.130	
Total Arsenic	mg/L	0.0008	0.1
Total Antimony	mg/L	0.00109	
Total Aluminum	mg/L	0.357	3
Dissolved Calcium	mg/L	8.5	
Dissolved Magnesium	mg/L	7.9	
Dissolved Potassium	mg/L	5.1	
Dissolved Sodium	mg/L	12.4	
Total Phosphorus	mg/L	0.08	
Dissolved Zinc	mg/L	0.003	
Dissolved Vanadium	mg/L	0.0016	
Dissolved Uranium	mg/L	0.00009	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	0.0443	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	8.13	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	0.00148	
Dissolved Molybdenum	mg/L	0.00510	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	<0.010	
Dissolved Lead	mg/L	<0.00005	
Dissolved Iron	mg/L	<0.10	
Dissolved Copper	mg/L	0.0012	
Dissolved Cobalt	mg/L	0.00010	
Dissolved Chromium	mg/L	<0.0004	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	0.029	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	0.110	
Dissolved Arsenic	mg/L	0.0007	
Dissolved Antimony	mg/L	0.0010	
Dissolved Aluminum	mg/L	0.037	2
MF - Fecal Coliforms	CFU/100mL		20
Biochemical Oxygen Demand	mg/L		25

JER-SW4

Collect Date/Time

4/30/2006

Sample No.			6/1/5567 PKCA Discharge	
Sample Class		M	Criteria	
Air Temperature	Deg C			
Wind Speed	KM/H			
Wind Direction	unitless			
Water Temperature	Deg C		0.44	
Field pH	pH		6.44	
Field Conductivity	us/cm		149	
Oxidation Reduction Potential	mV		296.30	
Biochemical Oxygen Demand	mg/L			25
MF - Fecal Coliforms	CFU/100mL			20
Turbidity	NTU		2	
Total Suspended Solids @105°C	mg/L	<2		25
T-Hardness as CaCO3	mg/L			
T-Dissolved Solids180°C	mg/L		80	4000
T-Alkalinity as CaCO3	mg/L		30	
Sulphate	mg/L		4.3	
Phosphate - Ortho - Phosphoru	mg/L	<0.20		
pH @ 25°C	pH		7.25	6.0-8.8
Nitrite - Nitrogen	mg/L	<0.05		5
Nitrate - Nitrogen	mg/L		2.34	56
Hydroxide (as CaCO3)	mg/L	<1		
Fluoride	mg/L		0.04	
Conductivity @ 25°C	us/cm		117	
Chloride	mg/L		6.8	1000
Carbonate	mg/L	<1		
Bicarbonate	mg/L		37	
Balance (+ions/-ions)	Ratio			
Acidity as CaCO3	mg/L		5	
Carbon (Total Organic)	mg/L		4.7	
Ammonia - Nitrogen	mg/L		0.91	12
Carbon (Total Inorganic)	mg/L		7.3	
Total Iron	mg/L		0.12	
Total Manganese	mg/L		0.10	
Total Zinc	mg/L		0.004	0.5
Total Vanadium	mg/L		0.0006	
Total Uranium	mg/L		0.00036	1
Total Thallium	mg/L	<0.00005		
Total Strontium	mg/L		0.0281	
Total Sodium	mg/L		4.7	
Total Silver	mg/L	<0.0002		
Total Silicon	mg/L		0.95	
Total Selenium	mg/L	<0.0008		
Total Potassium	mg/L		1.4	
Total Phosphorus	mg/L			0.4
Total Nickel	mg/L	<0.0006		0.1
Total Molybdenum	mg/L	<0.00050		1.5
Total Mercury	mg/L	<0.00005		
Total Magnesium	mg/L		3.77	

Total Lead	mg/L	<0.00010	0.02
Total Copper	mg/L	0.0024	0.04
Total Cobalt	mg/L	0.00013	
Total Chromium	mg/L	<0.0009	0.17
Total Calcium	mg/L	8.85	
Total Cadmium	mg/L	<0.00010	0.0024
Total Boron	mg/L	<0.010	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	0.0119	
Total Arsenic	mg/L	0.0004	0.1
Total Antimony	mg/L	<0.00010	
Total Aluminum	mg/L	0.0191	3
Dissolved Calcium	mg/L	9.0	
Dissolved Magnesium	mg/L	3.8	
Dissolved Potassium	mg/L	1.2	
Dissolved Sodium	mg/L	4.5	
Total Phosphorus	mg/L	0.06	
Dissolved Zinc	mg/L	0.003	
Dissolved Vanadium	mg/L	0.0005	
Dissolved Uranium	mg/L	0.00028	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	0.0284	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	1.11	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	0.00052	
Dissolved Molybdenum	mg/L	<0.00030	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	0.077	
Dissolved Lead	mg/L	0.00008	
Dissolved Iron	mg/L	<0.10	
Dissolved Copper	mg/L	0.0024	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	0.0005	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	0.005	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	0.0129	
Dissolved Arsenic	mg/L	0.0004	
Dissolved Antimony	mg/L	<0.0001	
Dissolved Aluminum	mg/L	0.007	2
MF - Fecal Coliforms	CFU/100mL		20
Biochemical Oxygen Demand	mg/L		25

JER-WQ10

Collect Date/Time

4/8/2006 4/8/2006 11:37

Sample No.		06-4971-D		6/1/4971	PKCA Discharge
Sample Class		L1	M		Criteria
Air Temperature	Deg C			-11	
Wind Speed	KM/H			5	
Wind Direction	unitless		NNW		
Water Temperature	Deg C			0.71	
Field pH	pH			6.06	
Field Conductivity	us/cm			17	
Oxidation Reduction Potential	mV			414.20	
Biochemical Oxygen Demand	mg/L				25
MF - Fecal Coliforms	CFU/100mL				20
Turbidity	NTU		1	1	
Total Suspended Solids @105°C	mg/L			3	25
T-Hardness as CaCO3	mg/L	<6.0	<6.0		
T-Dissolved Solids180°C	mg/L		14	14	4000
T-Alkalinity as CaCO3	mg/L		9	9	
Sulphate	mg/L		0.6	0.6	
Phosphate - Ortho - Phosphoru	mg/L	<0.20	<0.20		
pH @ 25°C	pH		6.80	6.79	6.0-8.8
Nitrite - Nitrogen	mg/L	<0.05	<0.05		5
Nitrate - Nitrogen	mg/L	<0.05	<0.05		56
Hydroxide (as CaCO3)	mg/L	<1	<1		
Fluoride	mg/L		0.05	0.05	
Conductivity @ 25°C	us/cm		17	17	
Chloride	mg/L		0.4	0.4	1000
Carbonate	mg/L	<1	<1		
Bicarbonate	mg/L		11	10	
Balance (+ions/-ions)	Ratio		0.46	0.53	
Acidity as CaCO3	mg/L			2	
Carbon (Total Organic)	mg/L		3	3	
Ammonia - Nitrogen	mg/L	<0.1	<0.1		12
Carbon (Total Inorganic)	mg/L	<1	<1		
Total Iron	mg/L	<0.10	<0.10		
Total Manganese	mg/L	<0.01	<0.01		
Total Zinc	mg/L		0.002	0.002	0.5
Total Vanadium	mg/L		0.0003	0.0004	
Total Uranium	mg/L		0.00018	0.00018	1
Total Thallium	mg/L	<0.00005	<0.00005		
Total Strontium	mg/L		0.0064	0.0063	
Total Sodium	mg/L	<0.5	<0.5		
Total Silver	mg/L	<0.0002	<0.0002		
Total Silicon	mg/L		0.32	0.33	
Total Selenium	mg/L	<0.0008	<0.0008		
Total Potassium	mg/L	<0.5	<0.5		
Total Phosphorus	mg/L				0.4
Total Nickel	mg/L	<0.0006	<0.0006		0.1
Total Molybdenum	mg/L	<0.0005	<0.0005		1.5
Total Mercury	mg/L	<0.00005	<0.00005		

Total Magnesium	mg/L		0.66	0.67	
Total Lead	mg/L	<0.0001	<0.0001		0.02
Total Copper	mg/L	<0.0010	<0.0010		0.04
Total Cobalt	mg/L	<0.0001	<0.0001		
Total Chromium	mg/L	<0.0009	<0.0009		0.17
Total Calcium	mg/L		1.28	1.29	
Total Cadmium	mg/L	<0.0001	<0.0001		0.0024
Total Boron	mg/L	<0.010	<0.010		
Total Beryllium	mg/L	<0.0005	<0.0005		
Total Barium	mg/L	<0.005	<0.005		
Total Arsenic	mg/L	<0.0004	<0.0004		0.1
Total Antimony	mg/L	<0.0001	<0.0001		
Total Aluminum	mg/L		0.017	0.018	3
Dissolved Calcium	mg/L		0.6	0.6	
Dissolved Magnesium	mg/L	<0.5	<0.5		
Dissolved Potassium	mg/L	<0.5	<0.5		
Dissolved Sodium	mg/L	<0.5	<0.5		
Total Phosphorus	mg/L		0.02	<0.02	
Dissolved Zinc	mg/L	<0.002	<0.002		
Dissolved Vanadium	mg/L	<0.0005	<0.0005		
Dissolved Uranium	mg/L		0.00013	0.00013	
Dissolved Thallium	mg/L	<0.00002	<0.00002		
Dissolved Strontium	mg/L		0.0060	0.0061	
Dissolved Silver	mg/L	<0.00005	<0.00005		
Dissolved Silicon	mg/L		0.29	0.30	
Dissolved Selenium	mg/L	<0.0004	<0.0004		
Dissolved Phosphorus	mg/L				
Dissolved Nickel	mg/L	<0.0001	<0.0001		
Dissolved Molybdenum	mg/L	<0.0003	<0.0003		
Dissolved Mercury	mg/L	<0.00005	<0.00005		
Dissolved Manganese	mg/L	<0.010	<0.010		
Dissolved Lead	mg/L	<0.00005	<0.00005		
Dissolved Iron	mg/L	<0.10	<0.10		
Dissolved Copper	mg/L	<0.0010	<0.0010		
Dissolved Cobalt	mg/L	<0.00005	<0.00005		
Dissolved Chromium	mg/L	<0.0004	<0.0004		
Dissolved Cadmium	mg/L	<0.00005	<0.00005		
Dissolved Boron	mg/L	<0.004	<0.004		
Dissolved Beryllium	mg/L	<0.0001	<0.0001		
Dissolved Barium	mg/L	<0.003	<0.003		
Dissolved Arsenic	mg/L		0.0002	0.0002	
Dissolved Antimony	mg/L	<0.0001	<0.0001		
Dissolved Aluminum	mg/L		0.017	0.016	2
MF - Fecal Coliforms	CFU/100mL				20
Biochemical Oxygen Demand	mg/L				25

JER-WQ11

Collect Date/Time

4/10/2006 11:38

Sample No.			6/1/4976 PKCA Discharge	
Sample Class		M	Criteria	
Air Temperature	Deg C		-12	
Wind Speed	KM/H		15	
Wind Direction	unitless	N		
Water Temperature	Deg C		1.51	
Field pH	pH		6.06	
Field Conductivity	us/cm		17	
Oxidation Reduction Potential	mV		408.70	
Biochemical Oxygen Demand	mg/L			25
MF - Fecal Coliforms	CFU/100mL			20
Turbidity	NTU		1	
Total Suspended Solids @105°C	mg/L	<2		25
T-Hardness as CaCO3	mg/L	<6.0		
T-Dissolved Solids180°C	mg/L		16	4000
T-Alkalinity as CaCO3	mg/L		11	
Sulphate	mg/L	<0.5		
Phosphate - Ortho - Phosphoru	mg/L	<0.20		
pH @ 25°C	pH		6.99 6.0-8.8	
Nitrite - Nitrogen	mg/L	<0.05		5
Nitrate - Nitrogen	mg/L	<0.05		56
Hydroxide (as CaCO3)	mg/L	<1		
Fluoride	mg/L		0.05	
Conductivity @ 25°C	us/cm		19	
Chloride	mg/L		0.4	1000
Carbonate	mg/L	<1		
Bicarbonate	mg/L		13	
Balance (+ions/-ions)	Ratio		0.35	
Acidity as CaCO3	mg/L		3	
Carbon (Total Organic)	mg/L		3	
Ammonia - Nitrogen	mg/L	<0.1		12
Carbon (Total Inorganic)	mg/L	<1		
Total Iron	mg/L	<0.10		
Total Manganese	mg/L	<0.01		
Total Zinc	mg/L		0.021	0.5
Total Vanadium	mg/L		0.0004	
Total Uranium	mg/L		0.00015	1
Total Thallium	mg/L	<0.00005		
Total Strontium	mg/L		0.0069	
Total Sodium	mg/L	<0.5		
Total Silver	mg/L	<0.0002		
Total Silicon	mg/L		0.32	
Total Selenium	mg/L	<0.0008		
Total Potassium	mg/L	<0.5		
Total Phosphorus	mg/L			0.4
Total Nickel	mg/L	<0.0006		0.1
Total Molybdenum	mg/L	<0.0005		1.5
Total Mercury	mg/L	<0.00005		
Total Magnesium	mg/L		0.74	

Total Lead	mg/L	<0.0001	0.02
Total Copper	mg/L	<0.0010	0.04
Total Cobalt	mg/L	<0.0001	
Total Chromium	mg/L	<0.0009	0.17
Total Calcium	mg/L	1.66	
Total Cadmium	mg/L	<0.0001	0.0024
Total Boron	mg/L	<0.010	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	<0.005	
Total Arsenic	mg/L	<0.0004	0.1
Total Antimony	mg/L	<0.0001	
Total Aluminum	mg/L	0.010	3
Dissolved Calcium	mg/L	0.6	
Dissolved Magnesium	mg/L	<0.5	
Dissolved Potassium	mg/L	<0.5	
Dissolved Sodium	mg/L	<0.5	
Total Phosphorus	mg/L	0.06	
Dissolved Zinc	mg/L	<0.002	
Dissolved Vanadium	mg/L	<0.0005	
Dissolved Uranium	mg/L	0.00010	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	0.0064	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	0.30	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	<0.0001	
Dissolved Molybdenum	mg/L	<0.0003	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	<0.010	
Dissolved Lead	mg/L	<0.00005	
Dissolved Iron	mg/L	<0.10	
Dissolved Copper	mg/L	<0.0010	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	<0.0004	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	<0.004	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	<0.003	
Dissolved Arsenic	mg/L	0.0002	
Dissolved Antimony	mg/L	<0.0001	
Dissolved Aluminum	mg/L	0.009	2
MF - Fecal Coliforms	CFU/100mL		20
Biochemical Oxygen Demand	mg/L		25

JER-WQ13

Collect Date/Time

4/10/2006 13:19

Sample No.			6/1/4979 PKCA Discharge	
Sample Class		M	Criteria	
Air Temperature	Deg C		-12	
Wind Speed	KM/H		15	
Wind Direction	unitless	N		
Water Temperature	Deg C		1.57	
Field pH	pH		6.3	
Field Conductivity	us/cm		32	
Oxidation Reduction Potential	mV		427.40	
Biochemical Oxygen Demand	mg/L			25
MF - Fecal Coliforms	CFU/100mL			20
Turbidity	NTU	<1		
Total Suspended Solids @105°C	mg/L	<2		25
T-Hardness as CaCO3	mg/L		8.8	
T-Dissolved Solids180°C	mg/L			4000
T-Alkalinity as CaCO3	mg/L		14	
Sulphate	mg/L		0.6	
Phosphate - Ortho - Phosphoru	mg/L	<0.20		
pH @ 25°C	pH		7.03	6.0-8.8
Nitrite - Nitrogen	mg/L	<0.05		5
Nitrate - Nitrogen	mg/L		0.30	56
Hydroxide (as CaCO3)	mg/L	<1		
Fluoride	mg/L		0.04	
Conductivity @ 25°C	us/cm		33	
Chloride	mg/L		1.6	1000
Carbonate	mg/L	<1		
Bicarbonate	mg/L		17	
Balance (+ions/-ions)	Ratio		0.61	
Acidity as CaCO3	mg/L		3	
Carbon (Total Organic)	mg/L		4	
Ammonia - Nitrogen	mg/L	<0.1		12
Carbon (Total Inorganic)	mg/L		1	
Total Iron	mg/L	<0.10		
Total Manganese	mg/L	<0.01		
Total Zinc	mg/L	<0.002		0.5
Total Vanadium	mg/L		0.0003	
Total Uranium	mg/L		0.00072	1
Total Thallium	mg/L	<0.00005		
Total Strontium	mg/L		0.0100	
Total Sodium	mg/L		0.6	
Total Silver	mg/L	<0.0002		
Total Silicon	mg/L		0.90	
Total Selenium	mg/L	<0.0008		
Total Potassium	mg/L	<0.5		
Total Phosphorus	mg/L			0.4
Total Nickel	mg/L	<0.0006		0.1
Total Molybdenum	mg/L	<0.0005		1.5
Total Mercury	mg/L	<0.00005		
Total Magnesium	mg/L		1.46	

Total Lead	mg/L	<0.0001	0.02
Total Copper	mg/L	<0.0010	0.04
Total Cobalt	mg/L	<0.0001	
Total Chromium	mg/L	<0.0009	0.17
Total Calcium	mg/L	2.97	
Total Cadmium	mg/L	<0.0001	0.0024
Total Boron	mg/L	<0.010	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	<0.005	
Total Arsenic	mg/L	<0.0004	0.1
Total Antimony	mg/L	<0.0001	
Total Aluminum	mg/L	0.025	3
Dissolved Calcium	mg/L	1.7	
Dissolved Magnesium	mg/L	1.1	
Dissolved Potassium	mg/L	<0.5	
Dissolved Sodium	mg/L	0.8	
Total Phosphorus	mg/L	0.02	
Dissolved Zinc	mg/L	<0.002	
Dissolved Vanadium	mg/L	<0.0005	
Dissolved Uranium	mg/L	0.00061	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	0.0095	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	0.97	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	<0.0001	
Dissolved Molybdenum	mg/L	<0.0003	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	<0.010	
Dissolved Lead	mg/L	<0.00005	
Dissolved Iron	mg/L	<0.10	
Dissolved Copper	mg/L	<0.0010	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	<0.0004	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	<0.004	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	<0.003	
Dissolved Arsenic	mg/L	0.0002	
Dissolved Antimony	mg/L	<0.0001	
Dissolved Aluminum	mg/L	0.025	2
MF - Fecal Coliforms	CFU/100mL		20
Biochemical Oxygen Demand	mg/L		25

JER-WQ4

Collect Date/Time

4/8/2006 11:57

Sample No.			6/1/4972 PKCA Discharge	
Sample Class		M	Criteria	
Air Temperature	Deg C		-11	
Wind Speed	KM/H		5	
Wind Direction	unitless	NNW		
Water Temperature	Deg C		1.54	
Field pH	pH		5.19	
Field Conductivity	us/cm		22	
Oxidation Reduction Potential	mV		446.90	
Biochemical Oxygen Demand	mg/L			25
MF - Fecal Coliforms	CFU/100mL			20
Turbidity	NTU		2	
Total Suspended Solids @105°C	mg/L		3	25
T-Hardness as CaCO3	mg/L	<6.0		
T-Dissolved Solids180°C	mg/L	<10		4000
T-Alkalinity as CaCO3	mg/L		11	
Sulphate	mg/L		1.0	
Phosphate - Ortho - Phosphoru	mg/L	<0.20		
pH @ 25°C	pH		6.87 6.0-8.8	
Nitrite - Nitrogen	mg/L	<0.05		5
Nitrate - Nitrogen	mg/L	<0.05		56
Hydroxide (as CaCO3)	mg/L	<1		
Fluoride	mg/L		0.05	
Conductivity @ 25°C	us/cm		23	
Chloride	mg/L		0.5	1000
Carbonate	mg/L	<1		
Bicarbonate	mg/L		13	
Balance (+ions/-ions)	Ratio		0.43	
Acidity as CaCO3	mg/L		3	
Carbon (Total Organic)	mg/L		3	
Ammonia - Nitrogen	mg/L	<0.1		12
Carbon (Total Inorganic)	mg/L	<1		
Total Iron	mg/L	<0.10		
Total Manganese	mg/L	<0.01		
Total Zinc	mg/L		0.003	0.5
Total Vanadium	mg/L		0.0003	
Total Uranium	mg/L		0.00020	1
Total Thallium	mg/L	<0.00005		
Total Strontium	mg/L		0.0077	
Total Sodium	mg/L	<0.5		
Total Silver	mg/L	<0.0002		
Total Silicon	mg/L		0.39	
Total Selenium	mg/L	<0.0008		
Total Potassium	mg/L	<0.5		
Total Phosphorus	mg/L			0.4
Total Nickel	mg/L		0.0007	0.1
Total Molybdenum	mg/L	<0.0005		1.5
Total Mercury	mg/L	<0.00005		
Total Magnesium	mg/L		0.84	

Total Lead	mg/L	0.0001	0.02
Total Copper	mg/L	<0.0010	0.04
Total Cobalt	mg/L	<0.0001	
Total Chromium	mg/L	<0.0009	0.17
Total Calcium	mg/L	1.61	
Total Cadmium	mg/L	<0.0001	0.0024
Total Boron	mg/L	<0.010	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	<0.005	
Total Arsenic	mg/L	<0.0004	0.1
Total Antimony	mg/L	<0.0001	
Total Aluminum	mg/L	0.027	3
Dissolved Calcium	mg/L	0.7	
Dissolved Magnesium	mg/L	<0.5	
Dissolved Potassium	mg/L	<0.5	
Dissolved Sodium	mg/L	0.6	
Total Phosphorus	mg/L	0.02	
Dissolved Zinc	mg/L	0.002	
Dissolved Vanadium	mg/L	<0.0005	
Dissolved Uranium	mg/L	0.00017	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	0.0079	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	0.42	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	<0.0001	
Dissolved Molybdenum	mg/L	<0.0003	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	<0.010	
Dissolved Lead	mg/L	0.00006	
Dissolved Iron	mg/L	<0.10	
Dissolved Copper	mg/L	<0.0010	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	<0.0004	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	<0.004	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	<0.003	
Dissolved Arsenic	mg/L	0.0003	
Dissolved Antimony	mg/L	<0.0001	
Dissolved Aluminum	mg/L	0.022	2
MF - Fecal Coliforms	CFU/100mL		20
Biochemical Oxygen Demand	mg/L		25

JER-WQ6

Collect Date/Time

4/8/2006 12:16

Sample No.			6/1/4973 PKCA Discharge	
Sample Class		M	Criteria	
Air Temperature	Deg C		-11	
Wind Speed	KM/H		5	
Wind Direction	unitless	NNW		
Water Temperature	Deg C		0.39	
Field pH	pH		6.17	
Field Conductivity	us/cm		14	
Oxidation Reduction Potential	mV		390.80	
Biochemical Oxygen Demand	mg/L			25
MF - Fecal Coliforms	CFU/100mL			20
Turbidity	NTU	<1		
Total Suspended Solids @105°C	mg/L	<2		25
T-Hardness as CaCO3	mg/L	<6.0		
T-Dissolved Solids180°C	mg/L		13	4000
T-Alkalinity as CaCO3	mg/L		9	
Sulphate	mg/L		0.6	
Phosphate - Ortho - Phosphoru	mg/L	<0.20		
pH @ 25°C	pH		6.82	6.0-8.8
Nitrite - Nitrogen	mg/L	<0.05		5
Nitrate - Nitrogen	mg/L	<0.05		56
Hydroxide (as CaCO3)	mg/L	<1		
Fluoride	mg/L		0.04	
Conductivity @ 25°C	us/cm		17	
Chloride	mg/L		0.4	1000
Carbonate	mg/L	<1		
Bicarbonate	mg/L		11	
Balance (+ions/-ions)	Ratio		0.39	
Acidity as CaCO3	mg/L	<1		
Carbon (Total Organic)	mg/L		3	
Ammonia - Nitrogen	mg/L	<0.1		12
Carbon (Total Inorganic)	mg/L	<1		
Total Iron	mg/L	<0.10		
Total Manganese	mg/L	<0.01		
Total Zinc	mg/L	<0.002		0.5
Total Vanadium	mg/L		0.0003	
Total Uranium	mg/L		0.00014	1
Total Thallium	mg/L	<0.00005		
Total Strontium	mg/L		0.0056	
Total Sodium	mg/L	<0.5		
Total Silver	mg/L	<0.0002		
Total Silicon	mg/L		0.21	
Total Selenium	mg/L	<0.0008		
Total Potassium	mg/L	<0.5		
Total Phosphorus	mg/L			0.4
Total Nickel	mg/L		0.0008	0.1
Total Molybdenum	mg/L	<0.0005		1.5
Total Mercury	mg/L	<0.00005		
Total Magnesium	mg/L		0.64	

Total Lead	mg/L	<0.0001	0.02
Total Copper	mg/L	<0.0010	0.04
Total Cobalt	mg/L	<0.0001	
Total Chromium	mg/L	<0.0009	0.17
Total Calcium	mg/L	1.28	
Total Cadmium	mg/L	<0.0001	0.0024
Total Boron	mg/L	<0.010	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	<0.005	
Total Arsenic	mg/L	<0.0004	0.1
Total Antimony	mg/L	<0.0001	
Total Aluminum	mg/L	0.013	3
Dissolved Calcium	mg/L	0.6	
Dissolved Magnesium	mg/L	<0.5	
Dissolved Potassium	mg/L	<0.5	
Dissolved Sodium	mg/L	<0.5	
Total Phosphorus	mg/L	<0.02	
Dissolved Zinc	mg/L	<0.002	
Dissolved Vanadium	mg/L	<0.0005	
Dissolved Uranium	mg/L	0.00011	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	0.0055	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	0.19	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	<0.0001	
Dissolved Molybdenum	mg/L	<0.0003	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	<0.010	
Dissolved Lead	mg/L	<0.00005	
Dissolved Iron	mg/L	<0.10	
Dissolved Copper	mg/L	<0.0010	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	<0.0004	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	<0.004	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	<0.003	
Dissolved Arsenic	mg/L	0.0002	
Dissolved Antimony	mg/L	<0.0001	
Dissolved Aluminum	mg/L	0.013	2
MF - Fecal Coliforms	CFU/100mL		20
Biochemical Oxygen Demand	mg/L		25

JER-WQ8

Collect Date/Time

4/10/2006 12:39 4/10/2006 12:40

				6/1/4977	6/1/4978	PKCA
Sample No.						Discharge
Sample Class		F1	M			Criteria
Air Temperature	Deg C			-12	-12	
Wind Speed	KM/H			15	15	
Wind Direction	unitless	N	N			
Water Temperature	Deg C			3.09	3.13	
Field pH	pH			6.29	6.25	
Field Conductivity	us/cm			17	18	
Oxidation Reduction Potential	mV			410.00	410.90	
Biochemical Oxygen Demand	mg/L					25
MF - Fecal Coliforms	CFU/100mL					20
Turbidity	NTU			1	<1	
Total Suspended Solids @105°C	mg/L	<2	<2			25
T-Hardness as CaCO3	mg/L	<6.0	<6.0			
T-Dissolved Solids180°C	mg/L			17	16	4000
T-Alkalinity as CaCO3	mg/L			11	11	
Sulphate	mg/L			0.9	0.7	
Phosphate - Ortho - Phosphoru	mg/L	<0.20	<0.20			
pH @ 25°C	pH			6.94	6.93	6.0-8.8
Nitrite - Nitrogen	mg/L	<0.05	<0.05			5
Nitrate - Nitrogen	mg/L	<0.05	<0.05			56
Hydroxide (as CaCO3)	mg/L	<1	<1			
Fluoride	mg/L			0.05	0.05	
Conductivity @ 25°C	us/cm			21	20	
Chloride	mg/L			0.5	0.5	1000
Carbonate	mg/L	<1	<1			
Bicarbonate	mg/L			13	13	
Balance (+ions/-ions)	Ratio			0.38	0.42	
Acidity as CaCO3	mg/L			2	3	
Carbon (Total Organic)	mg/L			3	3	
Ammonia - Nitrogen	mg/L	<0.1	<0.1			12
Carbon (Total Inorganic)	mg/L	<1	<1			
Total Iron	mg/L	<0.10	<0.10			
Total Manganese	mg/L	<0.01	<0.01			
Total Zinc	mg/L	<0.002	<0.002			0.5
Total Vanadium	mg/L			0.0003	0.0002	
Total Uranium	mg/L			0.00014	0.00015	1
Total Thallium	mg/L	<0.00005	<0.00005			
Total Strontium	mg/L			0.0075	0.0074	
Total Sodium	mg/L	<0.5	<0.5			
Total Silver	mg/L	<0.0002	<0.0002			
Total Silicon	mg/L			0.24	0.24	
Total Selenium	mg/L	<0.0008	<0.0008			
Total Potassium	mg/L	<0.5	<0.5			
Total Phosphorus	mg/L					0.4
Total Nickel	mg/L	<0.0006	<0.0006			0.1
Total Molybdenum	mg/L	<0.0005	<0.0005			1.5
Total Mercury	mg/L	<0.00005	<0.00005			

Total Magnesium	mg/L		0.82	0.83	
Total Lead	mg/L	<0.0001	<0.0001		0.02
Total Copper	mg/L	<0.0010	<0.0010		0.04
Total Cobalt	mg/L	<0.0001	<0.0001		
Total Chromium	mg/L	<0.0009	<0.0009		0.17
Total Calcium	mg/L		1.68	1.70	
Total Cadmium	mg/L	<0.0001	<0.0001		0.0024
Total Boron	mg/L	<0.010	<0.010		
Total Beryllium	mg/L	<0.0005	<0.0005		
Total Barium	mg/L	<0.005	<0.005		
Total Arsenic	mg/L	<0.0004	<0.0004		0.1
Total Antimony	mg/L	<0.0001	<0.0001		
Total Aluminum	mg/L		0.011	0.012	3
Dissolved Calcium	mg/L		0.7	0.8	
Dissolved Magnesium	mg/L	<0.5	<0.5		
Dissolved Potassium	mg/L	<0.5	<0.5		
Dissolved Sodium	mg/L	<0.5	<0.5		
Total Phosphorus	mg/L	<0.02		0.02	
Dissolved Zinc	mg/L	<0.002	<0.002		
Dissolved Vanadium	mg/L	<0.0005	<0.0005		
Dissolved Uranium	mg/L		0.00011	0.00012	
Dissolved Thallium	mg/L	<0.00002	<0.00002		
Dissolved Strontium	mg/L		0.0072	0.0080	
Dissolved Silver	mg/L	<0.00005	<0.00005		
Dissolved Silicon	mg/L		0.23	0.23	
Dissolved Selenium	mg/L	<0.0004	<0.0004		
Dissolved Phosphorus	mg/L				
Dissolved Nickel	mg/L	<0.0001	<0.0001		
Dissolved Molybdenum	mg/L	<0.0003	<0.0003		
Dissolved Mercury	mg/L	<0.00005	<0.00005		
Dissolved Manganese	mg/L	<0.010	<0.010		
Dissolved Lead	mg/L	<0.00005	<0.00005		
Dissolved Iron	mg/L	<0.10	<0.10		
Dissolved Copper	mg/L	<0.0010	<0.0010		
Dissolved Cobalt	mg/L	<0.00005	<0.00005		
Dissolved Chromium	mg/L	<0.0004	<0.0004		
Dissolved Cadmium	mg/L	<0.00005	<0.00005		
Dissolved Boron	mg/L	<0.004	<0.004		
Dissolved Beryllium	mg/L	<0.0001	<0.0001		
Dissolved Barium	mg/L	<0.003	<0.003		
Dissolved Arsenic	mg/L		0.0002	0.0003	
Dissolved Antimony	mg/L	<0.0001	<0.0001		
Dissolved Aluminum	mg/L		0.013	0.014	2
MF - Fecal Coliforms	CFU/100mL				20
Biochemical Oxygen Demand	mg/L				25

SNPFB

Collect Date/Time

4/8/2006

Sample No.

6/1/4974 PKCA Discharge

Sample Class

M

Criteria

Air Temperature	Deg C			
Wind Speed	KM/H			
Wind Direction	unitless			
Water Temperature	Deg C			
Field pH	pH			
Field Conductivity	us/cm			
Oxidation Reduction Potential	mV			
Biochemical Oxygen Demand	mg/L			25
MF - Fecal Coliforms	CFU/100mL			20
Turbidity	NTU	<1		
Total Suspended Solids @105°C	mg/L	<2		25
T-Hardness as CaCO3	mg/L	<6.0		
T-Dissolved Solids180°C	mg/L	<10		4000
T-Alkalinity as CaCO3	mg/L		5	
Sulphate	mg/L	<0.5		
Phosphate - Ortho - Phosphoru	mg/L	<0.20		
pH @ 25°C	pH		6.11 6.0-8.8	
Nitrite - Nitrogen	mg/L	<0.05		5
Nitrate - Nitrogen	mg/L	<0.05		56
Hydroxide (as CaCO3)	mg/L	<1		
Fluoride	mg/L		0.02	
Conductivity @ 25°C	us/cm		2	
Chloride	mg/L	<0.1		1000
Carbonate	mg/L	<1		
Bicarbonate	mg/L		6	
Balance (+ions/-ions)	Ratio	<0.01		
Acidity as CaCO3	mg/L		1	
Carbon (Total Organic)	mg/L	<1		
Ammonia - Nitrogen	mg/L	<0.1		12
Carbon (Total Inorganic)	mg/L	<1		
Total Iron	mg/L	<0.10		
Total Manganese	mg/L	<0.01		
Total Zinc	mg/L	<0.002		0.5
Total Vanadium	mg/L	<0.0001		
Total Uranium	mg/L	<0.00005		1
Total Thallium	mg/L	<0.00005		
Total Strontium	mg/L	<0.0002		
Total Sodium	mg/L	<0.5		
Total Silver	mg/L	<0.0002		
Total Silicon	mg/L		0.02	
Total Selenium	mg/L	<0.0008		
Total Potassium	mg/L	<0.5		
Total Phosphorus	mg/L			0.4
Total Nickel	mg/L	<0.0006		0.1
Total Molybdenum	mg/L	<0.0005		1.5
Total Mercury	mg/L	<0.00005		
Total Magnesium	mg/L	<0.50		

Total Lead	mg/L	<0.0001	0.02
Total Copper	mg/L	<0.0010	0.04
Total Cobalt	mg/L	<0.0001	
Total Chromium	mg/L	<0.0009	0.17
Total Calcium	mg/L	<0.50	
Total Cadmium	mg/L	<0.0001	0.0024
Total Boron	mg/L	<0.010	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	<0.005	
Total Arsenic	mg/L	<0.0004	0.1
Total Antimony	mg/L	<0.0001	
Total Aluminum	mg/L	<0.005	3
Dissolved Calcium	mg/L	<0.5	
Dissolved Magnesium	mg/L	<0.5	
Dissolved Potassium	mg/L	<0.5	
Dissolved Sodium	mg/L	<0.5	
Total Phosphorus	mg/L	<0.02	
Dissolved Zinc	mg/L	<0.002	
Dissolved Vanadium	mg/L	<0.0005	
Dissolved Uranium	mg/L	<0.00005	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	<0.0001	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	<0.01	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	<0.0001	
Dissolved Molybdenum	mg/L	<0.0003	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	<0.010	
Dissolved Lead	mg/L	<0.00005	
Dissolved Iron	mg/L	<0.10	
Dissolved Copper	mg/L	<0.0010	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	<0.0004	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	<0.004	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	<0.003	
Dissolved Arsenic	mg/L	<0.0001	
Dissolved Antimony	mg/L	<0.0001	
Dissolved Aluminum	mg/L	<0.002	2
MF - Fecal Coliforms	CFU/100mL		20
Biochemical Oxygen Demand	mg/L		25

SNPTB

Collect Date/Time

4/8/2006

Sample No.

6/1/4975 PKCA Discharge

Sample Class

M

Criteria

Air Temperature

Deg C

Wind Speed

KM/H

Wind Direction

unitless

Water Temperature

Deg C

Field pH

pH

Field Conductivity

us/cm

Oxidation Reduction Potential

mV

Biochemical Oxygen Demand

mg/L

25

MF - Fecal Coliforms

CFU/100mL

20

Turbidity

NTU

<1

Total Suspended Solids @105°C

mg/L

<2

25

T-Hardness as CaCO3

mg/L

<6.0

T-Dissolved Solids180°C

mg/L

<10

4000

T-Alkalinity as CaCO3

mg/L

5

Sulphate

mg/L

<0.5

Phosphate - Ortho - Phosphoru

mg/L

<0.20

pH @ 25°C

pH

6.10 6.0-8.8

Nitrite - Nitrogen

mg/L

<0.05

5

Nitrate - Nitrogen

mg/L

<0.05

56

Hydroxide (as CaCO3)

mg/L

<1

Fluoride

mg/L

0.02

Conductivity @ 25°C

us/cm

2

Chloride

mg/L

<0.1

1000

Carbonate

mg/L

<1

Bicarbonate

mg/L

6

Balance (+ions/-ions)

Ratio

<0.01

Acidity as CaCO3

mg/L

1

Carbon (Total Organic)

mg/L

<1

Ammonia - Nitrogen

mg/L

<0.1

12

Carbon (Total Inorganic)

mg/L

<1

Total Iron

mg/L

<0.10

Total Manganese

mg/L

<0.01

Total Zinc

mg/L

<0.002

0.5

Total Vanadium

mg/L

<0.0001

Total Uranium

mg/L

<0.00005

1

Total Thallium

mg/L

<0.00005

Total Strontium

mg/L

<0.0002

Total Sodium

mg/L

<0.5

Total Silver

mg/L

<0.0002

Total Silicon

mg/L

<0.01

Total Selenium

mg/L

<0.0008

Total Potassium

mg/L

<0.5

Total Phosphorus

mg/L

0.4

Total Nickel

mg/L

<0.0006

0.1

Total Molybdenum

mg/L

<0.0005

1.5

Total Mercury

mg/L

<0.00005

Total Magnesium

mg/L

<0.50

Total Lead	mg/L	<0.0001	0.02
Total Copper	mg/L	<0.0010	0.04
Total Cobalt	mg/L	<0.0001	
Total Chromium	mg/L	<0.0009	0.17
Total Calcium	mg/L	<0.50	
Total Cadmium	mg/L	<0.0001	0.0024
Total Boron	mg/L	<0.010	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	<0.005	
Total Arsenic	mg/L	<0.0004	0.1
Total Antimony	mg/L	<0.0001	
Total Aluminum	mg/L	<0.005	3
Dissolved Calcium	mg/L	<0.5	
Dissolved Magnesium	mg/L	<0.5	
Dissolved Potassium	mg/L	<0.5	
Dissolved Sodium	mg/L	<0.5	
Total Phosphorus	mg/L	<0.02	
Dissolved Zinc	mg/L	<0.002	
Dissolved Vanadium	mg/L	<0.0005	
Dissolved Uranium	mg/L	<0.00005	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	<0.0001	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	<0.01	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L		
Dissolved Nickel	mg/L	<0.0001	
Dissolved Molybdenum	mg/L	<0.0003	
Dissolved Mercury	mg/L	<0.00005	
Dissolved Manganese	mg/L	<0.010	
Dissolved Lead	mg/L	<0.00005	
Dissolved Iron	mg/L	<0.10	
Dissolved Copper	mg/L	<0.0010	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	<0.0004	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	<0.004	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	<0.003	
Dissolved Arsenic	mg/L	<0.0001	
Dissolved Antimony	mg/L	<0.0001	
Dissolved Aluminum	mg/L	<0.002	2
MF - Fecal Coliforms	CFU/100mL		20
Biochemical Oxygen Demand	mg/L		25

Table 2. Flow Measurements - April 2006

DATE	Carat Lake Freshwater Use (m3) (Camp and Emulsion Plant) - Daily	Treated Sewage Effluent to PKC (Long Lake) (m3) - Daily Calculated	Sewage Sludge Removed (m3)	Pit Pond Water to East Sump (m3) - Daily	Other waters from East Sump (m3) * - Daily	East Sump pond to PKC (Long Lake) (m3) - Daily	Other waters to PKC (Long Lake) (m3)	PKC Water Recycled (m3)	Process Plant Fresh Water (m3)	Process Plant Water Discharged to PKC (m3)	Coarse Rejects (tonnes)	Fine Rejects to PKC (tonnes)	Ore Processed (tonnes)	Quantity of Waste Rock (tonnes)	Quantity of Esker (tonnes)	Quantity of till (tonnes)
1-Apr	24.0	16.8	Monthly	0	0	0	Monthly	Monthly	889.7	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
2-Apr	23.0	16.1		0	0	0			854.2							
3-Apr	25.0	17.5		0	0	0			980.2							
4-Apr	31.0	21.7		0	0	0			1025.6							
5-Apr	33.0	23.1		0	0	0			1128.0							
6-Apr	25.9	18.1		0	0	0			1136.2							
7-Apr	24.1	16.9		0	0	0			1163.8							
8-Apr	26.2	18.3		0	0	0			706.9							
9-Apr	23.9	16.7		0	0	0			650.8							
10-Apr	30.3	21.2		0	0	0			1208.8							
11-Apr	35.7	25.0		0	0	0			1128.0							
12-Apr	36.8	25.8		0	0	0			1196.8							
13-Apr	27.9	19.5		0	0	0			1268.3							
14-Apr	22.9	16.0		0	0	0			1283.9							
15-Apr	21.8	15.3		0	0	0			1416.0							
16-Apr	28.8	20.2		0	0	0			664.3							
17-Apr	21.9	15.3		0	0	0			1389.4							
18-Apr	34.8	24.4		0	0	0			1180.1							
19-Apr	24.8	17.4		0	0	0			1251.2							
20-Apr	24.2	16.9		0	0	0			1202.8							
21-Apr	21.0	14.7		0	0	0			1213.5							
22-Apr	18.0	12.6		0	0	0			1345.9							
23-Apr	19.0	13.3		0	0	0			1106.7							
24-Apr	20.0	14.0		0	0	0			1053.2							
25-Apr	26.0	18.2		0	0	0			1073.5							
26-Apr	25.0	17.5		0	0	0			1011.1							
27-Apr	38.0	26.6		0	0	0			762.8							
28-Apr	24.0	16.8		0	0	0			1019.0							
29-Apr	29.1	20.4		0	0	0			1136.2							
30-Apr	20.7	14.5		0	0	0			977.9							
Total	786.8	550.8	47.3	0	0	0	0.0	0.0	32424.6	32424.6	37286.0	7420.7	44707.3	118,600	0	38,600