

September 29th, 2006

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

RE: Water License NWB1JER0410 Monthly SNP Report – August 2006

Following is monthly report for August 2006 as required under Water Licence NWB1JER0410.

SNP Sampling

During the month of August 2006, 29 samples were collected as part of the SNP sampling program. Sampling occurred at 21 monitoring stations and included 2 field replicates, 2 field blanks and 2 travel blanks. The sample required at JER-WQ15 was not collected due to a lack of flow at the monitoring station. A summary of the August 2006 sampling is provided in Table 1

Samples at JER-WQ3, JER-WQ4, JER-WQ5, JER-WQ6, JER-WQ7, JER-WQ8, JER-WQ9, JER-WQ10, JER-WQ11, JER-WQ12, JER-WQ13, JER-WQ14, JER-WQ19 and JER-WQ20 were collected on behalf of Tahera by Mainstream Aquatics. A miscommunication between Tahera and Mainstream Aquatics over sample holding times resulted in the routine sample bottle not being collected. As a result the following parameters at the aforementioned stations are not available for the August 2006 sampling round (Nitrate, Nitrite, Ortho-Phosphate, Total Organic Carbon, Total Inorganic carbon, Turbidity, TSS, Hardness, Total Dissolved Solids, Alkalinity, Sulphate, pH, Hydroxide, Carbonate, Bicarbonate, Ion Balance and Acidity). To ensure a similar incident does not arise in the event one of Tahera's consultants is asked to conduct sampling on our behalf in the future pre-sampling meetings will be held to ensure all parties are clear on sampling requirements.

Acute Toxicity sampling was also conducted at JER-WQ2 as required under Part G 7, samples passed for both trout and daphnia...A copy of the laboratory report is included in Appendix A.

Highlighted values in Table 3: Flow and Volume Measurements are estimated values based on average monthly discharge. Recorded flow measurements on these days were erroneously low. Tahera determined that an intake screen on the outlet pipe was becoming clogged. Due to the restriction the pump could not maintain appropriate levels in the tank resulting in the tank overflowing into the discharge tank and bypassing the flow meter. To rectify this problem Tahera has implemented regular cleaning (every 2 days) of the screen to prevent future occurrences. As a contingency a flow meter has also been installed on the discharge pipe from the main lift station to the sewage

treatment plant. Typically outflows from the sewage treatment plant represent approximately 70-75% of influent.

Table 1: SNP Water Sampling Summary

SNP Station	Sampling Date	Lab#	Comment
JER-SW1	8/9/2006	06-9813	
JER-SW2	8/9/2006	06-9819	
JER-SW3	8/28/2006	06-10469	
JER-SW4	8/9/2006	06-9809	
	8/9/2006	06-9810	QA/QC, Field Replicate
JER-SW8	8/9/2006	06-9813	
JER-WQ1	8/9/2006	06-9811	
JER-WQ2	8/4/2006	06-9725	QA/QC, Field Replicate
	8/4/2006	06-9724	
	8/17/2006	06-10110	
	8/28/2006	06-10468	
JER-WQ3	8/6/2006	L420594-15	Missing Parameters from routine bottle
JER-WQ4	8/9/2009	L420594-16	Missing Parameters from routine bottle
JER-WQ5	8/6/2006	L420594-17	Missing Parameters from routine bottle
JER-WQ6	8/7/2006	L420594-18	Missing Parameters from routine bottle
JER-WQ7	8/7/2006	L420594-19	Missing Parameters from routine bottle
JER-WQ8	8/5/2006	L420594-20	Missing Parameters from routine bottle
JER-WQ9	8/5/2006	L420594-21	Missing Parameters from routine bottle
JER-WQ10	8/3/2006	L420594-22	Missing Parameters from routine bottle
JER-WQ11	8/4/2006	L420594-23	Missing Parameters from routine bottle
JER-WQ12	8/6/2006	L420594-24	Missing Parameters from routine bottle
JER-WQ13	8/6/2006	L420594-25	Missing Parameters from routine bottle
JER-WQ14	8/6/2006	L420594-26	Missing Parameters from routine bottle
JER-WQ15			No sample collected, no flow
JER-WQ19	8/7/2006	L420594-29	Missing Parameters from routine bottle
JER-WQ20	8/6/2006	L420594-30	Missing Parameters from routine bottle
SNPFB	8/4/2006	06-9728	QA/QC, Field Blank
	8/9/2006	06-9813	QA/QC, Field Blank
SNPTB	8/4/2006	06-9727	QA/QC, Travel Blank
	8/9/2006	06-9815	QA/QC, Travel Blank

Results

A) Water Sampling and Analysis Results

1. Table 2 provides the results for samples related to the SNP sampling requirements for the month of August 2006.

B) Flow and Volume Measurements

1. Table 3 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.

C) Toxicology Results

Results of the Toxicology sampling required under Part G 7 can be found in Appendix A

Should you have any questions regarding the monthly report for August 2006 please contact the undersigned at 780 644-9129 or environment@tahera.com.

Regards,

Mike Tanguay
HSE Manager



Water Sampling and Analysis Results

Table 2: Water Sampling and Analysis

JER-SW1		
Collect Date/Time		8/9/2006
Sample No.		06-9813
Sample Class		M
Water Temperature	Deg C	24.28
Field pH	pH	7.52
Field Conductivity	us/cm	677
Oxidation Reduction Potential	mV	315.40
Biochemical Oxygen Demand	mg/L	30
MF - Fecal Coliforms	CFU/100mL	60000
Ammonia - Nitrogen	mg/L	13.5
Nitrite - Nitrogen	mg/L	2.28
Nitrate - Nitrogen	mg/L	0.15
Phosphate - Ortho - Phosphoru	mg/L	7.59
Carbon (Total Organic)	mg/L	34.9
Carbon (Total Inorganic)	mg/L	40
Turbidity	NTU	16
Total Suspended Solids @105°C	mg/L	31
T-Hardness as CaCO3	mg/L	31
T-Dissolved Solids180°C	mg/L	384
T-Alkalinity as CaCO3	mg/L	166
Sulphate	mg/L	57.7
pH @ 25°C	pH	7.62
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.06
Conductivity @ 25°C	us/cm	633
Chloride	mg/L	42
Carbonate	mg/L	<1
Bicarbonate	mg/L	202
Balance (+ions/-ions)	Ratio	0.83
Acidity as CaCO3	mg/L	-144
Total Arsenic	mg/L	0.0002
Total Antimony	mg/L	0.00086
Total Aluminum	mg/L	0.0790
Total Barium	mg/L	0.00647
Total Beryllium	mg/L	<0.0001
Total Boron	mg/L	0.026
Total Cadmium	mg/L	<0.00002
Total Calcium	mg/L	8.75
Total Chromium	mg/L	0.0104
Total Cobalt	mg/L	0.00024
Total Copper	mg/L	0.0499
Total Iron	mg/L	1.03
Total Lead	mg/L	0.00082
Total Lithium	mg/L	0.006
Total Magnesium	mg/L	2.77
Total Manganese	mg/L	0.02
Total Mercury	mg/L	<0.00005
Total Molybdenum	mg/L	0.00082
Total Nickel	mg/L	0.0043

Total Phosphorus	mg/L	10.7
Total Potassium	mg/L	21.3
Total Selenium	mg/L	0.0011
Total Silicon	mg/L	3.19
Total Silver	mg/L	<0.0001
Total Sodium	mg/L	89.4
Total Strontium	mg/L	0.0152
Total Thallium	mg/L	<0.00005
Total Tin	mg/L	0.0003
Total Titanium	mg/L	<0.0005
Total Uranium	mg/L	0.00008
Total Vanadium	mg/L	0.0027
Total Zinc	mg/L	0.042
Dissolved Aluminum	mg/L	0.059
Dissolved Antimony	mg/L	0.00011
Dissolved Arsenic	mg/L	0.0009
Dissolved Barium	mg/L	0.00669
Dissolved Beryllium	mg/L	<0.0001
Dissolved Boron	mg/L	0.023
Dissolved Cadmium	mg/L	<0.00002
Dissolved Calcium	mg/L	8.2
Dissolved Chromium	mg/L	0.0104
Dissolved Cobalt	mg/L	0.00004
Dissolved Copper	mg/L	0.0445
Dissolved Iron	mg/L	0.82
Dissolved Lead	mg/L	0.00097
Dissolved Lithium	mg/L	0.0056
Dissolved Magnesium	mg/L	2.6
Dissolved Manganese	mg/L	0.019
Dissolved Mercury	mg/L	<0.00005
Dissolved Molybdenum	mg/L	0.00083
Dissolved Nickel	mg/L	0.00413
Dissolved Phosphorus	mg/L	10.6
Dissolved Potassium	mg/L	20.1
Dissolved Selenium	mg/L	0.0011
Dissolved Silicon	mg/L	3
Dissolved Silver	mg/L	<0.00005
Dissolved Sodium	mg/L	86
Dissolved Strontium	mg/L	0.0138
Dissolved Thallium	mg/L	<0.00005
Dissolved Tin	mg/L	0.0002
Dissolved Titanium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00009
Dissolved Vanadium	mg/L	0.0028
Dissolved Zinc	mg/L	0.044

JER-SW2

Collect Date/Time		8/9/2006
Sample No.		06-9819
Sample Class		M
Water Temperature	Deg C	9.9
Field pH	pH	7.53
Field Conductivity	us/cm	582
Oxidation Reduction Potential	mV	432.70
Ammonia - Nitrogen	mg/L	11.5
Nitrite - Nitrogen	mg/L	1.62
Nitrate - Nitrogen	mg/L	55.2
Phosphate - Ortho - Phosphoru	mg/L	<0.20
Carbon (Total Organic)	mg/L	3.3
Carbon (Total Inorganic)	mg/L	7.8
Turbidity	NTU	170
Total Suspended Solids @105°C	mg/L	127
T-Hardness as CaCO3	mg/L	173
T-Dissolved Solids180°C	mg/L	4
T-Alkalinity as CaCO3	mg/L	37
Sulphate	mg/L	21.1
pH @ 25°C	pH	7.60
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.13
Conductivity @ 25°C	us/cm	642
Chloride	mg/L	11.8
Carbonate	mg/L	<1
Bicarbonate	mg/L	45
Balance (+ions/-ions)	Ratio	0.77
Acidity as CaCO3	mg/L	9
Total Arsenic	mg/L	0.0011
Total Antimony	mg/L	0.00063
Total Aluminum	mg/L	3.02
Total Barium	mg/L	0.139
Total Beryllium	mg/L	0.0001
Total Boron	mg/L	0.036
Total Cadmium	mg/L	0.00018
Total Calcium	mg/L	41.6
Total Chromium	mg/L	0.0124
Total Cobalt	mg/L	0.00276
Total Copper	mg/L	0.0250
Total Iron	mg/L	3.24
Total Lead	mg/L	0.00192
Total Lithium	mg/L	0.008
Total Magnesium	mg/L	21.5
Total Manganese	mg/L	0.34
Total Mercury	mg/L	<0.00005
Total Molybdenum	mg/L	0.0133
Total Nickel	mg/L	0.0157
Total Phosphorus	mg/L	0.11
Total Potassium	mg/L	16.4
Total Selenium	mg/L	0.0016
Total Silicon	mg/L	7.32

Total Silver	mg/L	<0.0001
Total Sodium	mg/L	11.9
Total Strontium	mg/L	0.660
Total Thallium	mg/L	0.00009
Total Tin	mg/L	0.0007
Total Titanium	mg/L	0.180
Total Uranium	mg/L	0.00595
Total Vanadium	mg/L	0.0072
Total Zinc	mg/L	0.015
Dissolved Aluminum	mg/L	0.568
Dissolved Antimony	mg/L	0.00074
Dissolved Arsenic	mg/L	0.0015
Dissolved Barium	mg/L	0.130
Dissolved Beryllium	mg/L	<0.0001
Dissolved Boron	mg/L	0.037
Dissolved Cadmium	mg/L	0.00004
Dissolved Calcium	mg/L	38.2
Dissolved Chromium	mg/L	0.0024
Dissolved Cobalt	mg/L	0.00196
Dissolved Copper	mg/L	0.0167
Dissolved Iron	mg/L	0.53
Dissolved Lead	mg/L	0.00088
Dissolved Lithium	mg/L	0.0072
Dissolved Magnesium	mg/L	18.9
Dissolved Manganese	mg/L	0.248
Dissolved Mercury	mg/L	<0.00005
Dissolved Molybdenum	mg/L	0.0143
Dissolved Nickel	mg/L	0.0129
Dissolved Phosphorus	mg/L	0.03
Dissolved Potassium	mg/L	14.2
Dissolved Selenium	mg/L	0.0011
Dissolved Silicon	mg/L	4.03
Dissolved Silver	mg/L	<0.00005
Dissolved Sodium	mg/L	11.2
Dissolved Strontium	mg/L	0.653
Dissolved Thallium	mg/L	0.00006
Dissolved Tin	mg/L	0.0002
Dissolved Titanium	mg/L	0.0221
Dissolved Uranium	mg/L	0.00564
Dissolved Vanadium	mg/L	0.0022
Dissolved Zinc	mg/L	0.004

JER-SW3

Collect Date/Time		8/28/2006
Sample No.		06-10469
Sample Class		M
Water Temperature	Deg C	17.79
Field pH	pH	9.36
Field Conductivity	us/cm	223
Oxidation Reduction Potential	mV	424.70
Ammonia - Nitrogen	mg/L	4.45
Nitrite - Nitrogen	mg/L	0.29
Nitrate - Nitrogen	mg/L	9.17
Phosphate - Ortho - Phosphoru	mg/L	<0.20
Carbon (Total Organic)	mg/L	1.2
Carbon (Total Inorganic)	mg/L	7.7
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	63.7
T-Dissolved Solids180°C	mg/L	120
T-Alkalinity as CaCO3	mg/L	50
Sulphate	mg/L	7.8
pH @ 25°C	pH	9.32
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.39
Conductivity @ 25°C	us/cm	211
Chloride	mg/L	9.0
Carbonate	mg/L	14
Bicarbonate	mg/L	32
Balance (+ions/-ions)	Ratio	0.88
Acidity as CaCO3	mg/L	<1
Total Arsenic	mg/L	0.0004
Total Antimony	mg/L	0.00134
Total Aluminum	mg/L	0.0215
Total Barium	mg/L	0.135
Total Beryllium	mg/L	<0.0001
Total Boron	mg/L	0.051
Total Cadmium	mg/L	0.00002
Total Calcium	mg/L	7.61
Total Chromium	mg/L	0.0079
Total Cobalt	mg/L	<0.00005
Total Copper	mg/L	0.0022
Total Iron	mg/L	<0.10
Total Lead	mg/L	0.00015
Total Lithium	mg/L	<0.005
Total Magnesium	mg/L	10.4
Total Manganese	mg/L	<0.01
Total Mercury	mg/L	<0.00005
Total Molybdenum	mg/L	0.00416
Total Nickel	mg/L	0.0028
Total Phosphorus	mg/L	<0.02
Total Potassium	mg/L	9.5
Total Selenium	mg/L	<0.0010
Total Silicon	mg/L	4.79

Total Silver	mg/L	<0.0001
Total Sodium	mg/L	7.1
Total Strontium	mg/L	0.106
Total Thallium	mg/L	<0.00005
Total Tin	mg/L	<0.0001
Total Titanium	mg/L	<0.0005
Total Uranium	mg/L	<0.00005
Total Vanadium	mg/L	0.0017
Total Zinc	mg/L	0.004
Dissolved Aluminum	mg/L	0.024
Dissolved Antimony	mg/L	0.00105
Dissolved Arsenic	mg/L	0.0006
Dissolved Barium	mg/L	0.141
Dissolved Beryllium	mg/L	<0.0001
Dissolved Boron	mg/L	0.051
Dissolved Cadmium	mg/L	<0.00002
Dissolved Calcium	mg/L	7.9
Dissolved Chromium	mg/L	0.0072
Dissolved Cobalt	mg/L	0.00006
Dissolved Copper	mg/L	0.0009
Dissolved Iron	mg/L	<0.10
Dissolved Lead	mg/L	0.00008
Dissolved Lithium	mg/L	0.0047
Dissolved Magnesium	mg/L	10.7
Dissolved Manganese	mg/L	<0.010
Dissolved Mercury	mg/L	<0.00005
Dissolved Molybdenum	mg/L	0.00390
Dissolved Nickel	mg/L	0.00271
Dissolved Phosphorus	mg/L	<0.01
Dissolved Potassium	mg/L	9.8
Dissolved Selenium	mg/L	0.0015
Dissolved Silicon	mg/L	4.84
Dissolved Silver	mg/L	<0.00005
Dissolved Sodium	mg/L	7.7
Dissolved Strontium	mg/L	0.111
Dissolved Thallium	mg/L	0.00006
Dissolved Tin	mg/L	<0.0001
Dissolved Titanium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00005
Dissolved Vanadium	mg/L	0.0009
Dissolved Zinc	mg/L	0.001

JER-SW4

Collect Date/Time		8/9/2006	8/9/2006
Sample No.		06-9809	06-9810
Sample Class		M	F1
Water Temperature	Deg C	16.36	16.37
Field pH	pH	6.32	6.36
Field Conductivity	us/cm	144	144
Oxidation Reduction Potential	mV	497.60	497.40
Ammonia - Nitrogen	mg/L	0.03	0.03
Nitrite - Nitrogen	mg/L	0.09	0.08
Nitrate - Nitrogen	mg/L	4.95	4.90
Phosphate - Ortho - Phosphoru	mg/L	<0.20	<0.20
Carbon (Total Organic)	mg/L	4.1	4.1
Carbon (Total Inorganic)	mg/L	7.9	7.9
Turbidity	NTU	3	3
Total Suspended Solids @105°C	mg/L	4	<2
T-Hardness as CaCO3	mg/L	40.5	48.3
T-Dissolved Solids180°C	mg/L	84	84
T-Alkalinity as CaCO3	mg/L	36	36
Sulphate	mg/L	6.7	7.0
pH @ 25°C	pH	7.62	7.73
Hydroxide (as CaCO3)	mg/L	<1	<1
Fluoride	mg/L	0.11	0.10
Conductivity @ 25°C	us/cm	152	146
Chloride	mg/L	6.0	5.9
Carbonate	mg/L	<1	<1
Bicarbonate	mg/L	43	44
Balance (+ions/-ions)	Ratio	0.82	0.92
Acidity as CaCO3	mg/L	3	3
Total Arsenic	mg/L	<0.0002	<0.0002
Total Antimony	mg/L	0.00035	0.00034
Total Aluminum	mg/L	0.0205	0.0180
Total Barium	mg/L	0.0203	0.0207
Total Beryllium	mg/L	<0.0001	<0.0001
Total Boron	mg/L	0.014	0.014
Total Cadmium	mg/L	<0.00002	<0.00002
Total Calcium	mg/L	11.5	11.5
Total Chromium	mg/L	0.0032	0.0035
Total Cobalt	mg/L	0.00012	0.00010
Total Copper	mg/L	0.0027	0.0032
Total Iron	mg/L	<0.10	<0.10
Total Lead	mg/L	0.00078	0.00009
Total Lithium	mg/L	<0.005	<0.005
Total Magnesium	mg/L	5.62	5.58
Total Manganese	mg/L	0.03	0.03
Total Mercury	mg/L	<0.00005	<0.00005
Total Molybdenum	mg/L	0.00177	0.00176
Total Nickel	mg/L	0.0022	0.0018
Total Phosphorus	mg/L	<0.02	<0.02
Total Potassium	mg/L	3.6	3.6
Total Selenium	mg/L	<0.0010	<0.0010
Total Silicon	mg/L	1.10	1.08

Total Silver	mg/L	<0.0001	<0.0001
Total Sodium	mg/L	5.4	5.3
Total Strontium	mg/L	0.0773	0.0797
Total Thallium	mg/L	<0.00005	<0.00005
Total Tin	mg/L	<0.0001	<0.0001
Total Titanium	mg/L	<0.0005	<0.0005
Total Uranium	mg/L	0.00126	0.00133
Total Vanadium	mg/L	0.0018	0.0018
Total Zinc	mg/L	0.004	0.002
Dissolved Aluminum	mg/L	0.013	0.009
Dissolved Antimony	mg/L	0.00039	0.00034
Dissolved Arsenic	mg/L	0.0003	0.0004
Dissolved Barium	mg/L	0.0220	0.0219
Dissolved Beryllium	mg/L	<0.0001	<0.0001
Dissolved Boron	mg/L	0.015	0.014
Dissolved Cadmium	mg/L	0.00003	<0.00002
Dissolved Calcium	mg/L	8.6	10.6
Dissolved Chromium	mg/L	0.0030	0.0017
Dissolved Cobalt	mg/L	0.00019	0.00016
Dissolved Copper	mg/L	0.0027	0.0027
Dissolved Iron	mg/L	<0.10	<0.10
Dissolved Lead	mg/L	0.00006	0.00009
Dissolved Lithium	mg/L	0.0013	0.0014
Dissolved Magnesium	mg/L	4.6	5.3
Dissolved Manganese	mg/L	<0.010	0.013
Dissolved Mercury	mg/L	<0.00005	<0.00005
Dissolved Molybdenum	mg/L	0.00199	0.00174
Dissolved Nickel	mg/L	0.00198	0.00169
Dissolved Phosphorus	mg/L	0.01	<0.01
Dissolved Potassium	mg/L	3.5	3.3
Dissolved Selenium	mg/L	<0.0006	<0.0006
Dissolved Silicon	mg/L	1.02	1.03
Dissolved Silver	mg/L	<0.00005	<0.00005
Dissolved Sodium	mg/L	5.4	5.3
Dissolved Strontium	mg/L	0.0766	0.0778
Dissolved Thallium	mg/L	<0.00005	<0.00005
Dissolved Tin	mg/L	<0.0001	<0.0001
Dissolved Titanium	mg/L	<0.0005	0.0006
Dissolved Uranium	mg/L	0.00135	0.00132
Dissolved Vanadium	mg/L	0.0009	0.0005
Dissolved Zinc	mg/L	0.002	<0.001

JER-SW8

Collect Date/Time		8/9/2006
Sample No.		06-9812
Sample Class		M
Water Temperature	Deg C	15.35
Field pH	pH	6.54
Field Conductivity	us/cm	427
Oxidation Reduction Potential	mV	446.20
Ammonia - Nitrogen	mg/L	1.00
Nitrite - Nitrogen	mg/L	0.50
Nitrate - Nitrogen	mg/L	30.3
Phosphate - Ortho - Phosphoru	mg/L	<0.20
Carbon (Total Organic)	mg/L	4.3
Carbon (Total Inorganic)	mg/L	8.3
Turbidity	NTU	4
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	153
T-Dissolved Solids180°C	mg/L	312
T-Alkalinity as CaCO3	mg/L	39
Sulphate	mg/L	22.6
pH @ 25°C	pH	7.73
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.12
Conductivity @ 25°C	us/cm	425
Chloride	mg/L	18.9
Carbonate	mg/L	<1
Bicarbonate	mg/L	47
Balance (+ions/-ions)	Ratio	0.92
Acidity as CaCO3	mg/L	4
Total Arsenic	mg/L	0.0003
Total Antimony	mg/L	0.00027
Total Aluminum	mg/L	0.0943
Total Barium	mg/L	0.0789
Total Beryllium	mg/L	<0.0001
Total Boron	mg/L	0.035
Total Cadmium	mg/L	<0.00002
Total Calcium	mg/L	35.9
Total Chromium	mg/L	0.0061
Total Cobalt	mg/L	0.00054
Total Copper	mg/L	0.0022
Total Iron	mg/L	<0.10
Total Lead	mg/L	0.00013
Total Lithium	mg/L	<0.005
Total Magnesium	mg/L	18.2
Total Manganese	mg/L	0.04
Total Mercury	mg/L	<0.00005
Total Molybdenum	mg/L	0.00432
Total Nickel	mg/L	0.0057
Total Phosphorus	mg/L	<0.02
Total Potassium	mg/L	6.3
Total Selenium	mg/L	<0.0010
Total Silicon	mg/L	1.63

Total Silver	mg/L	<0.0001
Total Sodium	mg/L	10.5
Total Strontium	mg/L	0.254
Total Thallium	mg/L	<0.00005
Total Tin	mg/L	0.0001
Total Titanium	mg/L	0.0028
Total Uranium	mg/L	0.0126
Total Vanadium	mg/L	0.0018
Total Zinc	mg/L	0.002
Dissolved Aluminum	mg/L	0.052
Dissolved Antimony	mg/L	0.00029
Dissolved Arsenic	mg/L	0.0002
Dissolved Barium	mg/L	0.0722
Dissolved Beryllium	mg/L	<0.0001
Dissolved Boron	mg/L	0.033
Dissolved Cadmium	mg/L	0.00002
Dissolved Calcium	mg/L	33.4
Dissolved Chromium	mg/L	0.0020
Dissolved Cobalt	mg/L	0.00055
Dissolved Copper	mg/L	0.0021
Dissolved Iron	mg/L	<0.10
Dissolved Lead	mg/L	0.00016
Dissolved Lithium	mg/L	0.0042
Dissolved Magnesium	mg/L	16.9
Dissolved Manganese	mg/L	0.034
Dissolved Mercury	mg/L	<0.00005
Dissolved Molybdenum	mg/L	0.00441
Dissolved Nickel	mg/L	0.00573
Dissolved Phosphorus	mg/L	0.02
Dissolved Potassium	mg/L	5.9
Dissolved Selenium	mg/L	0.0008
Dissolved Silicon	mg/L	1.58
Dissolved Silver	mg/L	<0.00005
Dissolved Sodium	mg/L	10.5
Dissolved Strontium	mg/L	0.255
Dissolved Thallium	mg/L	<0.00005
Dissolved Tin	mg/L	<0.0001
Dissolved Titanium	mg/L	0.0030
Dissolved Uranium	mg/L	0.0120
Dissolved Vanadium	mg/L	0.0005
Dissolved Zinc	mg/L	0.001

JER-WQ1

Collect Date/Time		8/9/2006
Sample No.		06-9811
Sample Class		M
Water Temperature	Deg C	15.22
Field pH	pH	5.3
Field Conductivity	us/cm	13
Oxidation Reduction Potential	mV	495.70
MF - Fecal Coliforms	CFU/100mL	2
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0262
Total Barium	mg/L	0.00152
Total Beryllium	mg/L	<0.0001
Total Boron	mg/L	<0.001
Total Cadmium	mg/L	<0.00002
Total Calcium	mg/L	1.42
Total Chromium	mg/L	0.0019
Total Cobalt	mg/L	<0.00005
Total Copper	mg/L	0.0021
Total Iron	mg/L	<0.10
Total Lead	mg/L	<0.00005
Total Lithium	mg/L	<0.005
Total Magnesium	mg/L	0.61
Total Manganese	mg/L	<0.010
Total Mercury	mg/L	<0.00005
Total Molybdenum	mg/L	<0.00005
Total Nickel	mg/L	0.0002
Total Phosphorus	mg/L	<0.02
Total Potassium	mg/L	<0.5
Total Selenium	mg/L	<0.0010
Total Silicon	mg/L	0.26
Total Silver	mg/L	<0.0001
Total Sodium	mg/L	<0.5
Total Strontium	mg/L	0.0046
Total Thallium	mg/L	<0.00005
Total Tin	mg/L	<0.0001
Total Titanium	mg/L	<0.0005
Total Uranium	mg/L	0.00019
Total Vanadium	mg/L	0.0015
Total Zinc	mg/L	0.002
Dissolved Aluminum	mg/L	0.019
Dissolved Antimony	mg/L	<0.00005
Dissolved Arsenic	mg/L	0.0002
Dissolved Barium	mg/L	0.00164
Dissolved Beryllium	mg/L	<0.0001
Dissolved Boron	mg/L	0.001
Dissolved Cadmium	mg/L	<0.00002
Dissolved Calcium	mg/L	1.35
Dissolved Chromium	mg/L	0.0008

Dissolved Cobalt	mg/L	0.00004
Dissolved Copper	mg/L	0.0022
Dissolved Iron	mg/L	<0.10
Dissolved Lead	mg/L	<0.00005
Dissolved Lithium	mg/L	<0.0010
Dissolved Magnesium	mg/L	0.51
Dissolved Manganese	mg/L	<0.010
Dissolved Mercury	mg/L	<0.00005
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Nickel	mg/L	0.00025
Dissolved Phosphorus	mg/L	<0.01
Dissolved Potassium	mg/L	<0.5
Dissolved Selenium	mg/L	<0.0006
Dissolved Silicon	mg/L	0.26
Dissolved Silver	mg/L	<0.00005
Dissolved Sodium	mg/L	<0.5
Dissolved Strontium	mg/L	0.0048
Dissolved Thallium	mg/L	<0.00005
Dissolved Tin	mg/L	<0.0001
Dissolved Titanium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00019
Dissolved Vanadium	mg/L	0.0005
Dissolved Zinc	mg/L	0.002

JER-WQ2

Collect Date/Time		8/4/2006	8/4/2006	8/17/2006	8/28/2006
Sample No.		06-9725	06-9724	06-10110	06-10468
Sample Class		F1	M	M	M
Water Temperature	Deg C		16.3	13.24	11.02
Field pH	pH		7.34	6.9	6.04
Field Conductivity	us/cm		141	159	167
Oxidation Reduction Potential	mV		284.00	215.00	519.00
Biochemical Oxygen Demand	mg/L	<2	<2		
MF - Fecal Coliforms	CFU/100mL	<1	<1		
Oil & Grease (Infrared)	mg/L	<0.1	<0.1		
Ammonia - Nitrogen	mg/L	0.05	0.08	0.18	0.03
Nitrite - Nitrogen	mg/L	0.09	0.09	<0.05	<0.05
Nitrate - Nitrogen	mg/L	5.13	5.13	5.83	5.95
Phosphate - Ortho - Phosphoru	mg/L	<0.20	<0.20	<0.20	<0.20
Carbon (Total Organic)	mg/L	3.6	3.8	4.2	3.9
Carbon (Total Inorganic)	mg/L	4.6	4.6	8.9	8.8
Turbidity	NTU	2	2	2	2
Total Suspended Solids @105°C	mg/L	3	2	<2	<2
T-Hardness as CaCO3	mg/L	46.5	46.4	57.7	59.4
T-Dissolved Solids180°C	mg/L	96	60	92	116
T-Alkalinity as CaCO3	mg/L	34	35	36	39
Sulphate	mg/L	7.2	7.1	8.4	8.0
pH @ 25°C	pH	7.65	7.66	7.16	7.71
Hydroxide (as CaCO3)	mg/L	<1	<1	<1	<1
Fluoride	mg/L	0.10	0.10	0.12	0.10
Conductivity @ 25°C	us/cm	146	147	161	164
Chloride	mg/L	5.8	5.8	6.2	6.9
Carbonate	mg/L	<1	<1	<1	<1
Bicarbonate	mg/L	41	43	44	47
Balance (+ions/-ions)	Ratio	0.92	0.90	0.99	0.96
Acidity as CaCO3	mg/L	3	2	4	3
Total Arsenic	mg/L	0.0050	0.0006	0.0005	0.0004
Total Antimony	mg/L	0.00010	0.00008	0.00064	0.00105
Total Aluminum	mg/L	0.0224	0.0229	0.0113	0.0376
Total Barium	mg/L	0.0215	0.0217	0.0259	0.0280
Total Beryllium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Total Boron	mg/L	0.015	0.014	0.020	0.017
Total Cadmium	mg/L	<0.00002	<0.00002	<0.00002	0.00006
Total Calcium	mg/L	10.9	10.4	12.8	12.6
Total Chromium	mg/L	0.0033	0.0023	0.0042	0.0066
Total Cobalt	mg/L	0.00005	0.00005	0.00016	0.00014
Total Copper	mg/L	<0.0010	<0.0010	0.0025	0.0057
Total Iron	mg/L	<0.10	<0.10	<0.10	0.12
Total Lead	mg/L	0.00005	0.00006	0.00009	0.00040
Total Lithium	mg/L	<0.005	<0.005	<0.005	<0.005
Total Magnesium	mg/L	5.56	5.11	5.90	6.43
Total Manganese	mg/L	0.02	0.01	0.02	0.03
Total Mercury	mg/L	<0.00005	<0.00005	<0.00005	<0.00005
Total Molybdenum	mg/L	0.00199	0.00185	0.00225	0.00263
Total Nickel	mg/L	0.0022	0.0019	0.0024	0.0025
Total Phosphorus	mg/L	<0.02	<0.02	<0.02	<0.02

Total Potassium	mg/L	3.6	3.2	3.5	3.8
Total Selenium	mg/L	<0.0010	<0.0010	<0.0010	0.0015
Total Silicon	mg/L	1.23	1.14	1.17	1.25
Total Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Total Sodium	mg/L	6.2	5.4	5.0	5.0
Total Strontium	mg/L	0.0826	0.0809	0.0936	0.105
Total Thallium	mg/L	<0.00005	<0.00005	<0.00005	<0.00005
Total Tin	mg/L	<0.0001	<0.0001	<0.0001	0.0004
Total Titanium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005
Total Uranium	mg/L	0.00146	0.00146	0.00133	0.00122
Total Vanadium	mg/L	0.0012	0.0008	0.0016	0.0019
Total Zinc	mg/L	0.003	0.002	0.003	0.017
Dissolved Aluminum	mg/L	0.005	0.006	0.009	0.008
Dissolved Antimony	mg/L	<0.00005	<0.00005	0.00024	0.00033
Dissolved Arsenic	mg/L	0.0002	0.0002	0.0002	0.0005
Dissolved Barium	mg/L	0.0198	0.0186	0.0277	0.0283
Dissolved Beryllium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Dissolved Boron	mg/L	0.016	0.015	0.022	0.016
Dissolved Cadmium	mg/L	<0.00002	<0.00002	<0.00002	<0.00002
Dissolved Calcium	mg/L	10.2	10.2	12.8	
Dissolved Chromium	mg/L	0.0013	0.0010	0.0041	0.0062
Dissolved Cobalt	mg/L	0.00003	0.00003	0.00012	0.00017
Dissolved Copper	mg/L	<0.0001	<0.0001	0.0026	0.0064
Dissolved Iron	mg/L	<0.10	<0.10	<0.10	<0.10
Dissolved Lead	mg/L	<0.00005	<0.00005	<0.00005	0.00012
Dissolved Lithium	mg/L	0.0013	0.0013	0.0016	0.0015
Dissolved Magnesium	mg/L	5.1	5.1	6.3	6.6
Dissolved Manganese	mg/L	<0.010	0.011	0.019	0.019
Dissolved Mercury	mg/L	<0.00005	<0.00005	<0.00005	<0.00005
Dissolved Molybdenum	mg/L	0.00196	0.00207	0.00243	0.00208
Dissolved Nickel	mg/L	0.00156	0.00142	0.00180	0.00191
Dissolved Phosphorus	mg/L	<0.01	0.02	<0.01	<0.01
Dissolved Potassium	mg/L	3.5	3.5	3.7	3.8
Dissolved Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006
Dissolved Silicon	mg/L	0.99	0.98	1.20	1.16
Dissolved Silver	mg/L	<0.00005	<0.00005	<0.00005	<0.00005
Dissolved Sodium	mg/L	5.5	5.4	5.4	5.1
Dissolved Strontium	mg/L	0.0853	0.0844	0.0959	0.110
Dissolved Thallium	mg/L	<0.00005	<0.00005	<0.00005	<0.00005
Dissolved Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Dissolved Titanium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Uranium	mg/L	0.00095	0.00076	0.00139	0.00132
Dissolved Vanadium	mg/L	0.0020	0.0020	0.0014	0.0012
Dissolved Zinc	mg/L	<0.001	<0.001	0.001	0.001

JER-WQ3

Collect Date/Time		8/6/2006
Sample No.		L420594-15
Sample Class		M
Water Temperature	Deg C	12.5
Field pH	pH	7.8
Field Conductivity	us/cm	89
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000266
Total Antimony	mg/L	0.000128
Total Aluminum	mg/L	0.0251
Total Barium	mg/L	0.00869
Total Beryllium	mg/L	<0.000003
Total Boron	mg/L	0.113
Total Cadmium	mg/L	0.0000356
Total Calcium	mg/L	6.19
Total Chromium	mg/L	0.00055
Total Cobalt	mg/L	0.000108
Total Copper	mg/L	0.00185
Total Iron	mg/L	0.0182
Total Lead	mg/L	0.000292
Total Lithium	mg/L	0.00241
Total Magnesium	mg/L	2.68
Total Manganese	mg/L	0.00173
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.000433
Total Nickel	mg/L	0.000581
Total Phosphorus	mg/L	0.003
Total Potassium	mg/L	2.14
Total Selenium	mg/L	0.000216
Total Silicon	mg/L	1.06

Total Silver	mg/L	0.0000155
Total Sodium	mg/L	5.21
Total Strontium	mg/L	0.0303
Total Thallium	mg/L	0.0000102
Total Tin	mg/L	<0.0000300
Total Titanium	mg/L	0.000518
Total Uranium	mg/L	0.0000841
Total Vanadium	mg/L	0.000205
Total Zinc	mg/L	0.00299
Dissolved Aluminum	mg/L	0.021
Dissolved Antimony	mg/L	0.000125
Dissolved Arsenic	mg/L	0.000257
Dissolved Barium	mg/L	0.00864
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.094
Dissolved Cadmium	mg/L	0.0000353
Dissolved Calcium	mg/L	6.13
Dissolved Chromium	mg/L	0.000449
Dissolved Cobalt	mg/L	0.000106
Dissolved Copper	mg/L	0.00179
Dissolved Iron	mg/L	0.0172
Dissolved Lead	mg/L	0.000279
Dissolved Lithium	mg/L	0.00188
Dissolved Magnesium	mg/L	2.61
Dissolved Manganese	mg/L	0.00166
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.000425
Dissolved Nickel	mg/L	0.000527
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	2.12
Dissolved Selenium	mg/L	0.000168
Dissolved Silicon	mg/L	1.01
Dissolved Silver	mg/L	0.0000107
Dissolved Sodium	mg/L	5.14
Dissolved Strontium	mg/L	0.0299
Dissolved Thallium	mg/L	0.0000074
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000515
Dissolved Uranium	mg/L	0.0000833
Dissolved Vanadium	mg/L	0.000185
Dissolved Zinc	mg/L	0.00246

JER-WQ4

Collect Date/Time	8/6/2006	
Sample No.	L420594-16	
Sample Class	M	
Water Temperature	Deg C	16.6
Field pH	pH	7.7
Field Conductivity	us/cm	6
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.00018
Total Antimony	mg/L	0.0000063
Total Aluminum	mg/L	0.0255
Total Barium	mg/L	0.00163
Total Beryllium	mg/L	0.0000046
Total Boron	mg/L	0.0581
Total Cadmium	mg/L	0.0000073
Total Calcium	mg/L	1.01
Total Chromium	mg/L	0.000204
Total Cobalt	mg/L	0.0000284
Total Copper	mg/L	0.00164
Total Iron	mg/L	0.0237
Total Lead	mg/L	0.0000719
Total Lithium	mg/L	0.00
Total Magnesium	mg/L	0.472
Total Manganese	mg/L	0.00261
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000255
Total Nickel	mg/L	0.000307
Total Phosphorus	mg/L	0.003
Total Potassium	mg/L	0.314
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.264

Total Silver	mg/L	0.0000056
Total Sodium	mg/L	0.516
Total Strontium	mg/L	0.00449
Total Thallium	mg/L	0.0000008
Total Tin	mg/L	0.000052
Total Titanium	mg/L	0.000409
Total Uranium	mg/L	0.00014
Total Vanadium	mg/L	0.0000759
Total Zinc	mg/L	0.00376
Dissolved Aluminum	mg/L	0.0242
Dissolved Antimony	mg/L	0.0000063
Dissolved Arsenic	mg/L	0.000179
Dissolved Barium	mg/L	0.00161
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.05
Dissolved Cadmium	mg/L	0.0000073
Dissolved Calcium	mg/L	1.01
Dissolved Chromium	mg/L	0.000204
Dissolved Cobalt	mg/L	0.0000264
Dissolved Copper	mg/L	0.00164
Dissolved Iron	mg/L	0.0231
Dissolved Lead	mg/L	0.0000702
Dissolved Lithium	mg/L	0.00125
Dissolved Magnesium	mg/L	0.47
Dissolved Manganese	mg/L	0.00261
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000247
Dissolved Nickel	mg/L	0.000284
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.314
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.261
Dissolved Silver	mg/L	0.000004
Dissolved Sodium	mg/L	0.508
Dissolved Strontium	mg/L	0.00443
Dissolved Thallium	mg/L	0.0000008
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000304
Dissolved Uranium	mg/L	0.000136
Dissolved Vanadium	mg/L	0.0000759
Dissolved Zinc	mg/L	0.00329

JER-WQ5

Collect Date/Time	8/6/2006	
Sample No.	L420594-17	
Sample Class	M	
Water Temperature	Deg C	16.5
Field pH	pH	7.7
Field Conductivity	us/cm	6
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.00019
Total Antimony	mg/L	0.0000073
Total Aluminum	mg/L	0.0253
Total Barium	mg/L	0.0016
Total Beryllium	mg/L	<0.000003
Total Boron	mg/L	0.012
Total Cadmium	mg/L	0.0000128
Total Calcium	mg/L	0.994
Total Chromium	mg/L	0.000125
Total Cobalt	mg/L	0.0000267
Total Copper	mg/L	0.00151
Total Iron	mg/L	0.0231
Total Lead	mg/L	0.0000942
Total Lithium	mg/L	0.00091
Total Magnesium	mg/L	0.454
Total Manganese	mg/L	0.00285
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000425
Total Nickel	mg/L	0.000323
Total Phosphorus	mg/L	0.004
Total Potassium	mg/L	0.343
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.252

Total Silver	mg/L	0.0000047
Total Sodium	mg/L	0.511
Total Strontium	mg/L	0.00451
Total Thallium	mg/L	0.0000011
Total Tin	mg/L	<0.0000300
Total Titanium	mg/L	0.000294
Total Uranium	mg/L	0.000138
Total Vanadium	mg/L	0.0000732
Total Zinc	mg/L	0.00811
Dissolved Aluminum	mg/L	0.0196
Dissolved Antimony	mg/L	0.000007
Dissolved Arsenic	mg/L	0.00019
Dissolved Barium	mg/L	0.00157
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.0111
Dissolved Cadmium	mg/L	0.0000125
Dissolved Calcium	mg/L	0.991
Dissolved Chromium	mg/L	0.000121
Dissolved Cobalt	mg/L	0.0000267
Dissolved Copper	mg/L	0.00151
Dissolved Iron	mg/L	0.0218
Dissolved Lead	mg/L	0.000091
Dissolved Lithium	mg/L	0.00084
Dissolved Magnesium	mg/L	0.447
Dissolved Manganese	mg/L	0.00278
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000424
Dissolved Nickel	mg/L	0.000305
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.335
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.246
Dissolved Silver	mg/L	0.0000026
Dissolved Sodium	mg/L	0.51
Dissolved Strontium	mg/L	0.00447
Dissolved Thallium	mg/L	0.000001
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000292
Dissolved Uranium	mg/L	0.000134
Dissolved Vanadium	mg/L	0.0000717
Dissolved Zinc	mg/L	0.00374

JER-WQ6

Collect Date/Time	8/7/2006	
Sample No.	L420594-18	
Sample Class	M	
Water Temperature	Deg C	15.9
Field pH	pH	7.8
Field Conductivity	us/cm	6
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000171
Total Antimony	mg/L	0.0000059
Total Aluminum	mg/L	0.0217
Total Barium	mg/L	0.00161
Total Beryllium	mg/L	0.0000052
Total Boron	mg/L	0.0195
Total Cadmium	mg/L	0.0000048
Total Calcium	mg/L	0.998
Total Chromium	mg/L	0.000372
Total Cobalt	mg/L	0.0000149
Total Copper	mg/L	0.00152
Total Iron	mg/L	0.00583
Total Lead	mg/L	0.0000279
Total Lithium	mg/L	<0.00002
Total Magnesium	mg/L	0.473
Total Manganese	mg/L	0.00185
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000203
Total Nickel	mg/L	0.000298
Total Phosphorus	mg/L	0.002
Total Potassium	mg/L	0.302
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.243

Total Silver	mg/L	0.0000063
Total Sodium	mg/L	0.468
Total Strontium	mg/L	0.00443
Total Thallium	mg/L	0.0000114
Total Tin	mg/L	0.000063
Total Titanium	mg/L	<0.00004
Total Uranium	mg/L	0.000144
Total Vanadium	mg/L	0.000147
Total Zinc	mg/L	0.00297
Dissolved Aluminum	mg/L	0.0198
Dissolved Antimony	mg/L	0.0000058
Dissolved Arsenic	mg/L	0.000167
Dissolved Barium	mg/L	0.0016
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.0165
Dissolved Cadmium	mg/L	0.0000047
Dissolved Calcium	mg/L	0.993
Dissolved Chromium	mg/L	0.000366
Dissolved Cobalt	mg/L	0.0000144
Dissolved Copper	mg/L	0.00152
Dissolved Iron	mg/L	0.00583
Dissolved Lead	mg/L	0.0000279
Dissolved Lithium	mg/L	<0.00002
Dissolved Magnesium	mg/L	0.467
Dissolved Manganese	mg/L	0.00183
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000198
Dissolved Nickel	mg/L	0.000293
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.302
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.234
Dissolved Silver	mg/L	0.0000045
Dissolved Sodium	mg/L	0.467
Dissolved Strontium	mg/L	0.00437
Dissolved Thallium	mg/L	0.0000106
Dissolved Tin	mg/L	0.0000468
Dissolved Titanium	mg/L	<0.00004
Dissolved Uranium	mg/L	0.000135
Dissolved Vanadium	mg/L	0.000144
Dissolved Zinc	mg/L	0.00228

JER-WQ7

Collect Date/Time	8/7/2006	
Sample No.	L420594-19	
Sample Class	M	
Water Temperature	Deg C	15.8
Field pH	pH	7.7
Field Conductivity	us/cm	6
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000165
Total Antimony	mg/L	0.0000062
Total Aluminum	mg/L	0.0219
Total Barium	mg/L	0.00164
Total Beryllium	mg/L	<0.000003
Total Boron	mg/L	0.0291
Total Cadmium	mg/L	<0.000002
Total Calcium	mg/L	1.02
Total Chromium	mg/L	0.000268
Total Cobalt	mg/L	0.0000179
Total Copper	mg/L	0.00155
Total Iron	mg/L	0.00581
Total Lead	mg/L	0.0000172
Total Lithium	mg/L	0.00024
Total Magnesium	mg/L	0.473
Total Manganese	mg/L	0.00189
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000247
Total Nickel	mg/L	0.000302
Total Phosphorus	mg/L	0.003
Total Potassium	mg/L	0.298
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.265

Total Silver	mg/L	0.0000028
Total Sodium	mg/L	0.457
Total Strontium	mg/L	0.0045
Total Thallium	mg/L	0.0000074
Total Tin	mg/L	0.0000347
Total Titanium	mg/L	0.000043
Total Uranium	mg/L	0.000144
Total Vanadium	mg/L	0.000123
Total Zinc	mg/L	0.00395
Dissolved Aluminum	mg/L	0.0186
Dissolved Antimony	mg/L	0.0000058
Dissolved Arsenic	mg/L	0.000165
Dissolved Barium	mg/L	0.00159
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.0249
Dissolved Cadmium	mg/L	<0.000002
Dissolved Calcium	mg/L	1
Dissolved Chromium	mg/L	0.000261
Dissolved Cobalt	mg/L	0.0000153
Dissolved Copper	mg/L	0.00147
Dissolved Iron	mg/L	0.00572
Dissolved Lead	mg/L	0.0000085
Dissolved Lithium	mg/L	0.00006
Dissolved Magnesium	mg/L	0.473
Dissolved Manganese	mg/L	0.00184
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000247
Dissolved Nickel	mg/L	0.00027
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.292
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.261
Dissolved Silver	mg/L	0.0000014
Dissolved Sodium	mg/L	0.449
Dissolved Strontium	mg/L	0.00445
Dissolved Thallium	mg/L	0.0000074
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	<0.00004
Dissolved Uranium	mg/L	0.000138
Dissolved Vanadium	mg/L	0.000122
Dissolved Zinc	mg/L	0.00128

JER-WQ8

Collect Date/Time	8/5/2006	
Sample No.	L420594-20	
Sample Class	M	
Water Temperature	Deg C	15.3
Field pH	pH	7.9
Field Conductivity	us/cm	5
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000198
Total Antimony	mg/L	0.0000068
Total Aluminum	mg/L	0.0237
Total Barium	mg/L	0.00159
Total Beryllium	mg/L	0.0000032
Total Boron	mg/L	0.0341
Total Cadmium	mg/L	0.000007
Total Calcium	mg/L	0.99
Total Chromium	mg/L	0.000254
Total Cobalt	mg/L	0.0000262
Total Copper	mg/L	0.00178
Total Iron	mg/L	0.0159
Total Lead	mg/L	0.0000603
Total Lithium	mg/L	0.000152
Total Magnesium	mg/L	0.471
Total Manganese	mg/L	0.00275
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000393
Total Nickel	mg/L	0.000374
Total Phosphorus	mg/L	0.004
Total Potassium	mg/L	0.303
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.257

Total Silver	mg/L	0.0000634
Total Sodium	mg/L	0.449
Total Strontium	mg/L	0.00446
Total Thallium	mg/L	0.0000068
Total Tin	mg/L	0.0000303
Total Titanium	mg/L	<0.00004
Total Uranium	mg/L	0.000131
Total Vanadium	mg/L	0.000102
Total Zinc	mg/L	0.00405
Dissolved Aluminum	mg/L	0.0214
Dissolved Antimony	mg/L	0.0000068
Dissolved Arsenic	mg/L	0.000184
Dissolved Barium	mg/L	0.00158
Dissolved Beryllium	mg/L	0.0000032
Dissolved Boron	mg/L	0.0301
Dissolved Cadmium	mg/L	0.0000053
Dissolved Calcium	mg/L	0.982
Dissolved Chromium	mg/L	0.000237
Dissolved Cobalt	mg/L	0.0000229
Dissolved Copper	mg/L	0.00176
Dissolved Iron	mg/L	0.0138
Dissolved Lead	mg/L	0.0000572
Dissolved Lithium	mg/L	<0.00002
Dissolved Magnesium	mg/L	0.465
Dissolved Manganese	mg/L	0.00274
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000337
Dissolved Nickel	mg/L	0.000364
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.303
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.243
Dissolved Silver	mg/L	0.0000511
Dissolved Sodium	mg/L	0.443
Dissolved Strontium	mg/L	0.00444
Dissolved Thallium	mg/L	0.0000068
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	<0.00004
Dissolved Uranium	mg/L	0.000124
Dissolved Vanadium	mg/L	0.000102
Dissolved Zinc	mg/L	0.00302

JER-WQ9

Collect Date/Time	8/5/2006	
Sample No.	L420594-21	
Sample Class	M	
Water Temperature	Deg C	16.3
Field pH	pH	7.6
Field Conductivity	us/cm	5
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000188
Total Antimony	mg/L	0.0000091
Total Aluminum	mg/L	0.0205
Total Barium	mg/L	0.00201
Total Beryllium	mg/L	0.0000033
Total Boron	mg/L	0.0383
Total Cadmium	mg/L	0.0000281
Total Calcium	mg/L	1.05
Total Chromium	mg/L	0.0002
Total Cobalt	mg/L	0.0000402
Total Copper	mg/L	0.00166
Total Iron	mg/L	0.0219
Total Lead	mg/L	0.000194
Total Lithium	mg/L	0.00029
Total Magnesium	mg/L	0.48
Total Manganese	mg/L	0.00642
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000341
Total Nickel	mg/L	0.000258
Total Phosphorus	mg/L	0.004
Total Potassium	mg/L	0.312
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.269

Total Silver	mg/L	0.000122
Total Sodium	mg/L	0.47
Total Strontium	mg/L	0.00466
Total Thallium	mg/L	0.0000046
Total Tin	mg/L	<0.0000300
Total Titanium	mg/L	0.000242
Total Uranium	mg/L	0.000129
Total Vanadium	mg/L	0.000104
Total Zinc	mg/L	0.0106
Dissolved Aluminum	mg/L	0.0183
Dissolved Antimony	mg/L	0.000009
Dissolved Arsenic	mg/L	0.000188
Dissolved Barium	mg/L	0.002
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.0373
Dissolved Cadmium	mg/L	0.0000275
Dissolved Calcium	mg/L	1.04
Dissolved Chromium	mg/L	0.000184
Dissolved Cobalt	mg/L	0.0000401
Dissolved Copper	mg/L	0.00166
Dissolved Iron	mg/L	0.0205
Dissolved Lead	mg/L	0.000193
Dissolved Lithium	mg/L	0.00011
Dissolved Magnesium	mg/L	0.477
Dissolved Manganese	mg/L	0.00642
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000338
Dissolved Nickel	mg/L	0.000256
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.312
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.268
Dissolved Silver	mg/L	0.0000881
Dissolved Sodium	mg/L	0.468
Dissolved Strontium	mg/L	0.00466
Dissolved Thallium	mg/L	0.0000046
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000063
Dissolved Uranium	mg/L	0.000126
Dissolved Vanadium	mg/L	0.0000946
Dissolved Zinc	mg/L	0.00977

JER-WQ10

Collect Date/Time	8/3/2006	
Sample No.	L420594-22	
Sample Class	M	
Water Temperature	Deg C	16.2
Field pH	pH	7.5
Field Conductivity	us/cm	3
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000197
Total Antimony	mg/L	0.000009
Total Aluminum	mg/L	0.0259
Total Barium	mg/L	0.00184
Total Beryllium	mg/L	0.0000039
Total Boron	mg/L	0.0442
Total Cadmium	mg/L	0.0000222
Total Calcium	mg/L	0.902
Total Chromium	mg/L	0.000219
Total Cobalt	mg/L	0.0000317
Total Copper	mg/L	0.00201
Total Iron	mg/L	0.0188
Total Lead	mg/L	0.00025
Total Lithium	mg/L	<0.00002
Total Magnesium	mg/L	0.426
Total Manganese	mg/L	0.00214
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.000027
Total Nickel	mg/L	0.000302
Total Phosphorus	mg/L	0.002
Total Potassium	mg/L	0.297
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.271

Total Silver	mg/L	0.000338
Total Sodium	mg/L	0.434
Total Strontium	mg/L	0.00441
Total Thallium	mg/L	0.0000044
Total Tin	mg/L	0.0000439
Total Titanium	mg/L	0.000177
Total Uranium	mg/L	0.000142
Total Vanadium	mg/L	0.0000894
Total Zinc	mg/L	0.0077
Dissolved Aluminum	mg/L	0.0232
Dissolved Antimony	mg/L	0.000008
Dissolved Arsenic	mg/L	0.000192
Dissolved Barium	mg/L	0.00175
Dissolved Beryllium	mg/L	0.0000037
Dissolved Boron	mg/L	0.0384
Dissolved Cadmium	mg/L	0.0000196
Dissolved Calcium	mg/L	0.879
Dissolved Chromium	mg/L	0.000192
Dissolved Cobalt	mg/L	0.0000245
Dissolved Copper	mg/L	0.00198
Dissolved Iron	mg/L	0.0172
Dissolved Lead	mg/L	0.000231
Dissolved Lithium	mg/L	<0.00002
Dissolved Magnesium	mg/L	0.418
Dissolved Manganese	mg/L	0.00207
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000261
Dissolved Nickel	mg/L	0.00028
Dissolved Phosphorus	mg/L	0.001
Dissolved Potassium	mg/L	0.295
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.263
Dissolved Silver	mg/L	0.000334
Dissolved Sodium	mg/L	0.42
Dissolved Strontium	mg/L	0.00428
Dissolved Thallium	mg/L	0.000004
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000101
Dissolved Uranium	mg/L	0.000141
Dissolved Vanadium	mg/L	0.0000858
Dissolved Zinc	mg/L	0.00614

JER-WQ11

Collect Date/Time	8/4/2006	
Sample No.	L420594-23	
Sample Class	M	
Water Temperature	Deg C	14
Field pH	pH	7.7
Field Conductivity	us/cm	7
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000135
Total Antimony	mg/L	0.0000062
Total Aluminum	mg/L	0.0199
Total Barium	mg/L	0.00135
Total Beryllium	mg/L	0.0000032
Total Boron	mg/L	0.0449
Total Cadmium	mg/L	0.0000055
Total Calcium	mg/L	1.12
Total Chromium	mg/L	0.000211
Total Cobalt	mg/L	0.0000209
Total Copper	mg/L	0.0017
Total Iron	mg/L	0.0104
Total Lead	mg/L	0.0000311
Total Lithium	mg/L	0.000032
Total Magnesium	mg/L	0.44
Total Manganese	mg/L	0.00185
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000281
Total Nickel	mg/L	0.000197
Total Phosphorus	mg/L	0.003
Total Potassium	mg/L	0.317
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.288

Total Silver	mg/L	0.0000067
Total Sodium	mg/L	0.455
Total Strontium	mg/L	0.00445
Total Thallium	mg/L	0.0000048
Total Tin	mg/L	<0.0000300
Total Titanium	mg/L	0.000114
Total Uranium	mg/L	0.000121
Total Vanadium	mg/L	0.0000884
Total Zinc	mg/L	0.00445
Dissolved Aluminum	mg/L	0.0146
Dissolved Antimony	mg/L	0.0000045
Dissolved Arsenic	mg/L	0.000134
Dissolved Barium	mg/L	0.00135
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.0448
Dissolved Cadmium	mg/L	0.0000045
Dissolved Calcium	mg/L	1.12
Dissolved Chromium	mg/L	0.000211
Dissolved Cobalt	mg/L	0.0000208
Dissolved Copper	mg/L	0.00155
Dissolved Iron	mg/L	0.00819
Dissolved Lead	mg/L	0.0000268
Dissolved Lithium	mg/L	0.000031
Dissolved Magnesium	mg/L	0.436
Dissolved Manganese	mg/L	0.00178
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000239
Dissolved Nickel	mg/L	0.000189
Dissolved Phosphorus	mg/L	0.001
Dissolved Potassium	mg/L	0.308
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.281
Dissolved Silver	mg/L	0.0000067
Dissolved Sodium	mg/L	0.451
Dissolved Strontium	mg/L	0.00444
Dissolved Thallium	mg/L	0.0000047
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000068
Dissolved Uranium	mg/L	0.000126
Dissolved Vanadium	mg/L	0.0000859
Dissolved Zinc	mg/L	0.00415

JER-WQ12

Collect Date/Time		8/6/2006
Sample No.		L420594-24
Sample Class		M
Water Temperature	Deg C	10.1
Field pH	pH	8.0
Field Conductivity	us/cm	107
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	0.007
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000301
Total Antimony	mg/L	0.0000806
Total Aluminum	mg/L	0.0428
Total Barium	mg/L	0.0126
Total Beryllium	mg/L	0.0000076
Total Boron	mg/L	0.0673
Total Cadmium	mg/L	0.0000041
Total Calcium	mg/L	7.63
Total Chromium	mg/L	0.000462
Total Cobalt	mg/L	0.0000829
Total Copper	mg/L	0.00265
Total Iron	mg/L	0.0249
Total Lead	mg/L	0.000101
Total Lithium	mg/L	0.00097
Total Magnesium	mg/L	2.22
Total Manganese	mg/L	0.00721
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.000413
Total Nickel	mg/L	0.000938
Total Phosphorus	mg/L	0.003
Total Potassium	mg/L	1.04
Total Selenium	mg/L	0.000175
Total Silicon	mg/L	1.43

Total Silver	mg/L	0.0000062
Total Sodium	mg/L	2.2
Total Strontium	mg/L	0.0302
Total Thallium	mg/L	0.000015
Total Tin	mg/L	<0.0000300
Total Titanium	mg/L	0.000705
Total Uranium	mg/L	0.00144
Total Vanadium	mg/L	0.000309
Total Zinc	mg/L	0.00512
Dissolved Aluminum	mg/L	0.0372
Dissolved Antimony	mg/L	0.0000773
Dissolved Arsenic	mg/L	0.000296
Dissolved Barium	mg/L	0.0125
Dissolved Beryllium	mg/L	0.0000063
Dissolved Boron	mg/L	0.0514
Dissolved Cadmium	mg/L	0.0000028
Dissolved Calcium	mg/L	7.58
Dissolved Chromium	mg/L	0.000452
Dissolved Cobalt	mg/L	0.0000809
Dissolved Copper	mg/L	0.00253
Dissolved Iron	mg/L	0.0246
Dissolved Lead	mg/L	0.0000715
Dissolved Lithium	mg/L	0.00097
Dissolved Magnesium	mg/L	2.21
Dissolved Manganese	mg/L	0.00709
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.000409
Dissolved Nickel	mg/L	0.000918
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	1.04
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	1.4
Dissolved Silver	mg/L	0.0000054
Dissolved Sodium	mg/L	2.17
Dissolved Strontium	mg/L	0.03
Dissolved Thallium	mg/L	0.0000142
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000702
Dissolved Uranium	mg/L	0.00144
Dissolved Vanadium	mg/L	0.000306
Dissolved Zinc	mg/L	0.00255

JER-WQ13

Collect Date/Time	8/6/2006	
Sample No.	L420594-25	
Sample Class	M	
Water Temperature	Deg C	16.3
Field pH	pH	7.8
Field Conductivity	us/cm	34
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	0.013
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000193
Total Antimony	mg/L	0.0000279
Total Aluminum	mg/L	0.0293
Total Barium	mg/L	0.00376
Total Beryllium	mg/L	0.000007
Total Boron	mg/L	0.109
Total Cadmium	mg/L	0.0000043
Total Calcium	mg/L	3.04
Total Chromium	mg/L	0.000445
Total Cobalt	mg/L	0.000044
Total Copper	mg/L	0.00221
Total Iron	mg/L	0.0322
Total Lead	mg/L	0.0000642
Total Lithium	mg/L	0.00049
Total Magnesium	mg/L	1.38
Total Manganese	mg/L	0.00355
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000607
Total Nickel	mg/L	0.000411
Total Phosphorus	mg/L	0.003
Total Potassium	mg/L	0.424
Total Selenium	mg/L	0.000116
Total Silicon	mg/L	0.734

Total Silver	mg/L	0.000008
Total Sodium	mg/L	1.67
Total Strontium	mg/L	0.0103
Total Thallium	mg/L	0.0000092
Total Tin	mg/L	<0.0000300
Total Titanium	mg/L	0.000269
Total Uranium	mg/L	0.000485
Total Vanadium	mg/L	0.000173
Total Zinc	mg/L	0.00639
Dissolved Aluminum	mg/L	0.025
Dissolved Antimony	mg/L	0.0000273
Dissolved Arsenic	mg/L	0.000192
Dissolved Barium	mg/L	0.00375
Dissolved Beryllium	mg/L	0.0000057
Dissolved Boron	mg/L	0.09
Dissolved Cadmium	mg/L	0.0000043
Dissolved Calcium	mg/L	3.04
Dissolved Chromium	mg/L	0.000414
Dissolved Cobalt	mg/L	0.0000431
Dissolved Copper	mg/L	0.00221
Dissolved Iron	mg/L	0.0322
Dissolved Lead	mg/L	0.0000594
Dissolved Lithium	mg/L	0.00043
Dissolved Magnesium	mg/L	1.32
Dissolved Manganese	mg/L	0.00355
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000605
Dissolved Nickel	mg/L	0.000384
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.417
Dissolved Selenium	mg/L	0.000112
Dissolved Silicon	mg/L	0.729
Dissolved Silver	mg/L	0.0000059
Dissolved Sodium	mg/L	1.62
Dissolved Strontium	mg/L	0.0103
Dissolved Thallium	mg/L	0.0000091
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.00011
Dissolved Uranium	mg/L	0.000476
Dissolved Vanadium	mg/L	0.000168
Dissolved Zinc	mg/L	0.00533

JER-WQ14

Collect Date/Time	8/6/2006	
Sample No.	L420594-26	
Sample Class	M	
Water Temperature	Deg C	17
Field pH	pH	8.0
Field Conductivity	us/cm	11
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	0.009
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000213
Total Antimony	mg/L	0.0000131
Total Aluminum	mg/L	0.0324
Total Barium	mg/L	0.00203
Total Beryllium	mg/L	0.0000031
Total Boron	mg/L	0.112
Total Cadmium	mg/L	0.000012
Total Calcium	mg/L	1.84
Total Chromium	mg/L	0.000213
Total Cobalt	mg/L	0.0000407
Total Copper	mg/L	0.00202
Total Iron	mg/L	0.155
Total Lead	mg/L	0.0000762
Total Lithium	mg/L	<0.00002
Total Magnesium	mg/L	0.657
Total Manganese	mg/L	0.0054
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000445
Total Nickel	mg/L	0.000386
Total Phosphorus	mg/L	0.005
Total Potassium	mg/L	0.285
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.467

Total Silver	mg/L	0.000113
Total Sodium	mg/L	0.518
Total Strontium	mg/L	0.00482
Total Thallium	mg/L	0.0000016
Total Tin	mg/L	<0.0000300
Total Titanium	mg/L	0.000263
Total Uranium	mg/L	0.000214
Total Vanadium	mg/L	0.000202
Total Zinc	mg/L	0.00366
Dissolved Aluminum	mg/L	0.0273
Dissolved Antimony	mg/L	0.0000116
Dissolved Arsenic	mg/L	0.000195
Dissolved Barium	mg/L	0.00192
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.111
Dissolved Cadmium	mg/L	0.0000116
Dissolved Calcium	mg/L	1.79
Dissolved Chromium	mg/L	0.000209
Dissolved Cobalt	mg/L	0.0000379
Dissolved Copper	mg/L	0.00188
Dissolved Iron	mg/L	0.149
Dissolved Lead	mg/L	0.0000656
Dissolved Lithium	mg/L	<0.00002
Dissolved Magnesium	mg/L	0.644
Dissolved Manganese	mg/L	0.00521
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000433
Dissolved Nickel	mg/L	0.000345
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.275
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.42
Dissolved Silver	mg/L	0.0000697
Dissolved Sodium	mg/L	0.502
Dissolved Strontium	mg/L	0.00472
Dissolved Thallium	mg/L	0.0000016
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000147
Dissolved Uranium	mg/L	0.000212
Dissolved Vanadium	mg/L	0.000201
Dissolved Zinc	mg/L	0.00268

JER-WQ19

Collect Date/Time	8/7/2006
Sample No.	L420594-29
Sample Class	M

Water Temperature	Deg C	15.2
Field pH	pH	7.8
Field Conductivity	us/cm	6
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	<0.005
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000162
Total Antimony	mg/L	0.0000056
Total Aluminum	mg/L	0.0213
Total Barium	mg/L	0.00172
Total Beryllium	mg/L	<0.000003
Total Boron	mg/L	0.0204
Total Cadmium	mg/L	0.0000034
Total Calcium	mg/L	1.12
Total Chromium	mg/L	0.000141
Total Cobalt	mg/L	0.0000202
Total Copper	mg/L	0.00184
Total Iron	mg/L	0.0169
Total Lead	mg/L	0.00002
Total Lithium	mg/L	0.00084
Total Magnesium	mg/L	0.458
Total Manganese	mg/L	0.0023
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000246
Total Nickel	mg/L	0.000345
Total Phosphorus	mg/L	0.003
Total Potassium	mg/L	0.292
Total Selenium	mg/L	<0.0001
Total Silicon	mg/L	0.137
Total Silver	mg/L	0.000005
Total Sodium	mg/L	0.442
Total Strontium	mg/L	0.0046
Total Thallium	mg/L	<0.0000003

Total Tin	mg/L	<0.0000300
Total Titanium	mg/L	0.000539
Total Uranium	mg/L	0.000137
Total Vanadium	mg/L	0.0000817
Total Zinc	mg/L	0.00474
Dissolved Aluminum	mg/L	0.0177
Dissolved Antimony	mg/L	0.0000056
Dissolved Arsenic	mg/L	0.000146
Dissolved Barium	mg/L	0.00163
Dissolved Beryllium	mg/L	<0.0000003
Dissolved Boron	mg/L	0.0195
Dissolved Cadmium	mg/L	0.0000031
Dissolved Calcium	mg/L	1.1
Dissolved Chromium	mg/L	0.000112
Dissolved Cobalt	mg/L	0.0000151
Dissolved Copper	mg/L	0.0017
Dissolved Iron	mg/L	0.014
Dissolved Lead	mg/L	0.000013
Dissolved Lithium	mg/L	0.00084
Dissolved Magnesium	mg/L	0.441
Dissolved Manganese	mg/L	0.00223
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000229
Dissolved Nickel	mg/L	0.000286
Dissolved Phosphorus	mg/L	0.002
Dissolved Potassium	mg/L	0.285
Dissolved Selenium	mg/L	<0.0001
Dissolved Silicon	mg/L	0.115
Dissolved Silver	mg/L	0.0000042
Dissolved Sodium	mg/L	0.424
Dissolved Strontium	mg/L	0.00455
Dissolved Thallium	mg/L	<0.0000006
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000463
Dissolved Uranium	mg/L	0.000137
Dissolved Vanadium	mg/L	0.0000702
Dissolved Zinc	mg/L	0.00331

JER-WQ20

Collect Date/Time	8/6/2006	
Sample No.	L420594-30	
Sample Class	M	
Water Temperature	Deg C	16.3
Field pH	pH	7.7
Field Conductivity	us/cm	4
Oxidation Reduction Potential	mV	
Ammonia - Nitrogen	mg/L	0.006
Nitrite - Nitrogen	mg/L	
Nitrate - Nitrogen	mg/L	
Phosphate - Ortho - Phosphoru	mg/L	
Carbon (Total Organic)	mg/L	
Carbon (Total Inorganic)	mg/L	
Turbidity	NTU	
Total Suspended Solids @105°C	mg/L	
T-Hardness as CaCO3	mg/L	
T-Dissolved Solids180°C	mg/L	
T-Alkalinity as CaCO3	mg/L	
Sulphate	mg/L	
pH @ 25°C	pH	
Hydroxide (as CaCO3)	mg/L	
Fluoride	mg/L	
Conductivity @ 25°C	us/cm	
Chloride	mg/L	
Carbonate	mg/L	
Bicarbonate	mg/L	
Balance (+ions/-ions)	Ratio	
Acidity as CaCO3	mg/L	
Total Arsenic	mg/L	0.000202
Total Antimony	mg/L	0.0000075
Total Aluminum	mg/L	0.0397
Total Barium	mg/L	0.00185
Total Beryllium	mg/L	0.0000046
Total Boron	mg/L	0.0171
Total Cadmium	mg/L	0.0000068
Total Calcium	mg/L	1.12
Total Chromium	mg/L	0.000169
Total Cobalt	mg/L	0.00003
Total Copper	mg/L	0.00147
Total Iron	mg/L	0.0328
Total Lead	mg/L	0.0000451
Total Lithium	mg/L	0.00088
Total Magnesium	mg/L	0.471
Total Manganese	mg/L	0.00312
Total Mercury	mg/L	<0.00001
Total Molybdenum	mg/L	0.0000311
Total Nickel	mg/L	0.000297
Total Phosphorus	mg/L	0.003
Total Potassium	mg/L	0.329
Total Selenium	mg/L	0.000133

Total Silicon	mg/L	0.199
Total Silver	mg/L	0.0000045
Total Sodium	mg/L	0.526
Total Strontium	mg/L	0.00485
Total Thallium	mg/L	<0.0000003
Total Tin	mg/L	0.000031
Total Titanium	mg/L	0.00081
Total Uranium	mg/L	0.000137
Total Vanadium	mg/L	0.000136
Total Zinc	mg/L	0.00391
Dissolved Aluminum	mg/L	0.0197
Dissolved Antimony	mg/L	0.0000068
Dissolved Arsenic	mg/L	0.000192
Dissolved Barium	mg/L	0.00168
Dissolved Beryllium	mg/L	<0.000003
Dissolved Boron	mg/L	0.0162
Dissolved Cadmium	mg/L	0.0000063
Dissolved Calcium	mg/L	1.08
Dissolved Chromium	mg/L	0.000168
Dissolved Cobalt	mg/L	0.0000283
Dissolved Copper	mg/L	0.00143
Dissolved Iron	mg/L	0.0272
Dissolved Lead	mg/L	0.0000409
Dissolved Lithium	mg/L	0.0008
Dissolved Magnesium	mg/L	0.462
Dissolved Manganese	mg/L	0.00303
Dissolved Mercury	mg/L	<0.00001
Dissolved Molybdenum	mg/L	0.0000256
Dissolved Nickel	mg/L	0.000291
Dissolved Phosphorus	mg/L	0.001
Dissolved Potassium	mg/L	0.313
Dissolved Selenium	mg/L	0.000125
Dissolved Silicon	mg/L	0.143
Dissolved Silver	mg/L	0.0000033
Dissolved Sodium	mg/L	0.526
Dissolved Strontium	mg/L	0.0048
Dissolved Thallium	mg/L	<0.0000006
Dissolved Tin	mg/L	<0.00003
Dissolved Titanium	mg/L	0.000482
Dissolved Uranium	mg/L	0.000134
Dissolved Vanadium	mg/L	0.0000668
Dissolved Zinc	mg/L	0.00375

SNPFB

Collect Date/Time		8/4/2006	8/9/2006
Sample No.		06-9728	06-9814
Sample Class		M	M
Biochemical Oxygen Demand	mg/L	<2	
MF - Fecal Coliforms	CFU/100mL	<1	<1
Ammonia - Nitrogen	mg/L	0.01	0.11
Nitrite - Nitrogen	mg/L	<0.05	<0.05
Nitrate - Nitrogen	mg/L	<0.05	<0.05
Phosphate - Ortho - Phosphoru	mg/L	<0.20	<0.20
Carbon (Total Organic)	mg/L	<0.1	<0.1
Carbon (Total Inorganic)	mg/L	<0.1	0.6
Turbidity	NTU	<1	<1
Total Suspended Solids @105°C	mg/L	<2	<2
T-Hardness as CaCO3	mg/L	<6	<6
T-Dissolved Solids180°C	mg/L	<4	4
T-Alkalinity as CaCO3	mg/L	6	6
Sulphate	mg/L	<0.5	<0.5
pH @ 25°C	pH	6.57	6.10
Hydroxide (as CaCO3)	mg/L	<1	<1
Fluoride	mg/L	<0.02	0.02
Conductivity @ 25°C	us/cm	4	3
Chloride	mg/L	<0.1	<0.1
Carbonate	mg/L	<1	<1
Bicarbonate	mg/L	7	7
Balance (+ions/-ions)	Ratio	<0.01	<0.01
Acidity as CaCO3	mg/L	<1	<1
Total Arsenic	mg/L	<0.0002	<0.0002
Total Antimony	mg/L	<0.00005	<0.00005
Total Aluminum	mg/L	<0.0025	<0.0025
Total Barium	mg/L	<0.00005	<0.00005
Total Beryllium	mg/L	<0.0001	<0.0001
Total Boron	mg/L	<0.001	<0.001
Total Cadmium	mg/L	<0.00002	<0.00002
Total Calcium	mg/L	0.13	<0.05
Total Chromium	mg/L	<0.0005	<0.0005
Total Cobalt	mg/L	<0.00005	<0.00005
Total Copper	mg/L	<0.0010	<0.0010
Total Iron	mg/L	<0.10	<0.10
Total Lead	mg/L	<0.00005	<0.00005
Total Lithium	mg/L	<0.005	<0.005
Total Magnesium	mg/L	<0.05	<0.05
Total Manganese	mg/L	<0.01	<0.01
Total Mercury	mg/L	<0.00005	<0.00005
Total Molybdenum	mg/L	<0.00005	<0.00005
Total Nickel	mg/L	<0.0001	<0.0001
Total Phosphorus	mg/L	<0.02	<0.02
Total Potassium	mg/L	<0.5	<0.5
Total Selenium	mg/L	<0.0010	<0.0010
Total Silicon	mg/L	<0.01	<0.01
Total Silver	mg/L	<0.0001	<0.0001

Total Sodium	mg/L	<0.5	<0.5
Total Strontium	mg/L	<0.0005	<0.0005
Total Thallium	mg/L	<0.00005	<0.00005
Total Tin	mg/L	<0.0001	<0.0001
Total Titanium	mg/L	<0.0005	<0.0005
Total Uranium	mg/L	<0.00005	<0.00005
Total Vanadium	mg/L	<0.0005	<0.0005
Total Zinc	mg/L	<0.001	<0.001
Dissolved Aluminum	mg/L	<0.002	<0.002
Dissolved Antimony	mg/L	<0.00005	<0.00005
Dissolved Arsenic	mg/L	<0.0001	<0.0001
Dissolved Barium	mg/L	<0.00005	<0.00005
Dissolved Beryllium	mg/L	<0.0001	<0.0001
Dissolved Boron	mg/L	<0.001	<0.001
Dissolved Cadmium	mg/L	<0.00002	<0.00002
Dissolved Calcium	mg/L	<0	<0
Dissolved Chromium	mg/L	<0.0003	<0.0003
Dissolved Cobalt	mg/L	<0.00002	<0.00002
Dissolved Copper	mg/L	<0.0001	<0.0001
Dissolved Iron	mg/L	<0.10	<0.10
Dissolved Lead	mg/L	<0.00005	<0.00005
Dissolved Lithium	mg/L	<0.0010	<0.0010
Dissolved Magnesium	mg/L	<0	<0
Dissolved Manganese	mg/L	<0.010	<0.010
Dissolved Mercury	mg/L	<0.00005	<0.00005
Dissolved Molybdenum	mg/L	<0.00005	<0.00005
Dissolved Nickel	mg/L	<0.00005	<0.00005
Dissolved Phosphorus	mg/L	<0.01	<0.01
Dissolved Potassium	mg/L	<0.5	<0.5
Dissolved Selenium	mg/L	<0.0006	<0.0006
Dissolved Silicon	mg/L	<0.01	<0.01
Dissolved Silver	mg/L	<0.00005	<0.00005
Dissolved Sodium	mg/L	<0.5	<0.5
Dissolved Strontium	mg/L	<0.0001	<0.0001
Dissolved Thallium	mg/L	<0.00005	<0.00005
Dissolved Tin	mg/L	<0.0001	<0.0001
Dissolved Titanium	mg/L	<0.0005	<0.0005
Dissolved Uranium	mg/L	<0.00005	<0.00005
Dissolved Vanadium	mg/L	<0.0001	<0.0001
Dissolved Zinc	mg/L	<0.001	<0.001

SNPTB

Collect Date/Time		8/4/2006	8/9/2006
Sample No.		06-9727	06-9815
Sample Class		M	M
Biochemical Oxygen Demand	mg/L	<2	
MF - Fecal Coliforms	CFU/100mL	<1	<1
Ammonia - Nitrogen	mg/L	0.02	0.09
Nitrite - Nitrogen	mg/L	<0.05	<0.05
Nitrate - Nitrogen	mg/L	<0.05	<0.05
Phosphate - Ortho - Phosphoru	mg/L	<0.20	<0.20
Carbon (Total Organic)	mg/L	0.1	<0.1
Carbon (Total Inorganic)	mg/L	<0.1	0.4
Turbidity	NTU	<1	<1
Total Suspended Solids @105°C	mg/L	<2	<2
T-Hardness as CaCO3	mg/L	<6	<6
T-Dissolved Solids180°C	mg/L	4	<4
T-Alkalinity as CaCO3	mg/L	4	5
Sulphate	mg/L	<0.5	<0.5
pH @ 25°C	pH	6.22	6.06
Hydroxide (as CaCO3)	mg/L	<1	<1
Fluoride	mg/L	<0.02	<0.02
Conductivity @ 25°C	us/cm	2	2
Chloride	mg/L	<0.1	<0.1
Carbonate	mg/L	<1	<1
Bicarbonate	mg/L	5	6
Balance (+ions/-ions)	Ratio	<0.01	<0.01
Acidity as CaCO3	mg/L	<1	<1
Total Arsenic	mg/L	<0.0002	<0.0002
Total Antimony	mg/L	<0.00005	<0.00005
Total Aluminum	mg/L	<0.0025	<0.0025
Total Barium	mg/L	<0.00005	<0.00005
Total Beryllium	mg/L	<0.0001	<0.0001
Total Boron	mg/L	<0.001	<0.001
Total Cadmium	mg/L	<0.00002	<0.00002
Total Calcium	mg/L	<0.05	<0.05
Total Chromium	mg/L	<0.0005	<0.0005
Total Cobalt	mg/L	<0.00005	<0.00005
Total Copper	mg/L	<0.0010	<0.0010
Total Iron	mg/L	<0.10	<0.10
Total Lead	mg/L	<0.00005	<0.00005
Total Lithium	mg/L	<0.005	<0.005
Total Magnesium	mg/L	<0.05	<0.05
Total Manganese	mg/L	<0.01	<0.01
Total Mercury	mg/L	<0.00005	<0.00005
Total Molybdenum	mg/L	<0.00005	<0.00005
Total Nickel	mg/L	<0.0001	<0.0001
Total Phosphorus	mg/L	<0.02	<0.02
Total Potassium	mg/L	<0.5	<0.5
Total Selenium	mg/L	<0.0010	<0.0010
Total Silicon	mg/L	<0.01	<0.01
Total Silver	mg/L	<0.0001	<0.0001

Total Sodium	mg/L	<0.5	<0.5
Total Strontium	mg/L	<0.0005	<0.0005
Total Thallium	mg/L	<0.00005	<0.00005
Total Tin	mg/L	<0.0001	<0.0001
Total Titanium	mg/L	<0.0005	<0.0005
Total Uranium	mg/L	<0.00005	<0.00005
Total Vanadium	mg/L	<0.0005	<0.0005
Total Zinc	mg/L	<0.001	<0.001
Dissolved Aluminum	mg/L	<0.002	<0.002
Dissolved Antimony	mg/L	<0.00005	<0.00005
Dissolved Arsenic	mg/L	<0.0001	<0.0001
Dissolved Barium	mg/L	<0.00005	<0.00005
Dissolved Beryllium	mg/L	<0.0001	<0.0001
Dissolved Boron	mg/L	<0.001	<0.001
Dissolved Cadmium	mg/L	<0.00002	<0.00002
Dissolved Calcium	mg/L	<0	<0
Dissolved Chromium	mg/L	<0.0003	<0.0003
Dissolved Cobalt	mg/L	<0.00002	<0.00002
Dissolved Copper	mg/L	<0.0001	<0.0001
Dissolved Iron	mg/L	<0.10	<0.10
Dissolved Lead	mg/L	<0.00005	<0.00005
Dissolved Lithium	mg/L	<0.0010	<0.0010
Dissolved Magnesium	mg/L	<0	<0
Dissolved Manganese	mg/L	<0.010	<0.010
Dissolved Mercury	mg/L	<0.00005	<0.00005
Dissolved Molybdenum	mg/L	<0.00005	<0.00005
Dissolved Nickel	mg/L	<0.00005	<0.00005
Dissolved Phosphorus	mg/L	<0.01	<0.01
Dissolved Potassium	mg/L	<0.5	<0.5
Dissolved Selenium	mg/L	<0.0006	<0.0006
Dissolved Silicon	mg/L	<0.01	<0.01
Dissolved Silver	mg/L	<0.00005	<0.00005
Dissolved Sodium	mg/L	<0.5	<0.5
Dissolved Strontium	mg/L	<0.0001	<0.0001
Dissolved Thallium	mg/L	<0.00005	<0.00005
Dissolved Tin	mg/L	<0.0001	<0.0001
Dissolved Titanium	mg/L	<0.0005	<0.0005
Dissolved Uranium	mg/L	<0.00005	<0.00005
Dissolved Vanadium	mg/L	<0.0001	<0.0001
Dissolved Zinc	mg/L	<0.001	<0.001

|



Flow and Volume Measurements

Table 3: Flow and Volume Measurements-Part K Item 12 and 13

DATE	Carat Lake Freshwater Use (m3) (Camp and Emulsion Plant) - Daily	Treated Sewage Effluent to PKC (Long Lake) (m3) - Daily Calculated ¹	Sewage Sludge Removed (m3)	Pit Pond Water to East Sump (m3) - Daily	Road Watering from East Sump (m3) - Daily	East Sump pond to PKC (Long Lake) (m3) - Daily	Other waters to PKC (Long Lake) (m3)	Water Discharged from PKC (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-Aug	21.8	24.4	Monthly	314	135.0	1032	Monthly	6853.0	Monthly	1382.4	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
2-Aug	33.3	22.0		57	108.0	1032		6795.9		1608.8							
3-Aug	33.3	22.0		0	175.5	0		6247.0		1364.5							
4-Aug	18.0	9.2		110	229.5	0		6247.0		1557.0							
5-Aug	17.9	16.3		129	270.0	0		3141.2		1363.4							
6-Aug	17.5	19.6		430	202.5	0		6447.2		822.1							
7-Aug	28.7	18.1		387	175.5	0		6445.5		1248.5							
8-Aug	22.3	19.6		258	54.0	0		3240.0		1382.7							
9-Aug	18.9	25.6		129	0.0	0		3240.0		1443.3							
10-Aug	20.9	14.0		258	0.0	0		3183.7		1337.0							
11-Aug	20.9	19.1		258	0.0	0		3370.5		1251.3							
12-Aug	20.9	10.6		172	67.5	0		3370.5		1242.2							
13-Aug	18.8	19.4		151	202.5	0		2801.0		1213.5							
14-Aug	26.7	11.4		258	229.5	0		2845.0		1229.3							
15-Aug	20.2	17.9		129	162.0	0		2861.4		1305.8							
16-Aug	25.6	17.9		2000	40.5	0		2894.0		1373.3							
17-Aug	18.2	17.9		0		0		2921.7		1430.1							
18-Aug	15.4	17.9		1204		0		3313.8		1355.9							
19-Aug	17.8	17.9		387		0		2146.3		1406.4							
20-Aug	20.2	18.1		1635		0		2759.4		633.7							
21-Aug	27.4	4.1		0		0		2825.2		1413.9							
22-Aug	21.8	17.9		0		0		3360.0		1338.6							
23-Aug	21.5	17.9		0	27.0	0		3218.8		1349.6							
24-Aug	36.2	17.9		276	67.5	648		1879.1		1356.8							
25-Aug	17.7	17.9		750		648		3453.2		1353.2							
26-Aug	21.8	17.9		1449		648		2873.0		1389.3							
27-Aug	21.2	17.9		0		648		pump down for service		1346.2							
28-Aug	16.9	17.9		1767		648		2873.0		1391.6							
29-Aug	20.1	17.9		358		648		2629.3		1402.7							
30-Aug	20.1	20.2		429		648		3137.0		1401.3							
31-Aug	20.2	18.9		473		648		3076.8		1365.5							
Total	682.2	545.9	39.7	13,768.0	2,146.5	7,248.0	0.0	110,449.6	0.0	41,059.9	41,059.9	46,624.0	9,524.0	57,339.0	159,000.0	0.0	183,600.0

Appendix A



Result Summary

Client: TAH102
Reference: 06-1717-01-TRS

Client: Tahera Diamond Corporation; operation Yellowknife

Sample: PKCA Raw Water

Collection: collected on 2006/08/20 at 1730 by C. Wray

Receipt: received on 2006/08/23 at 1420 by J.Ernst

Containers: received 2 x 20L pails at 20 °C, in good condition with no seals and no initials

Description: type: effluent, collection method: grab

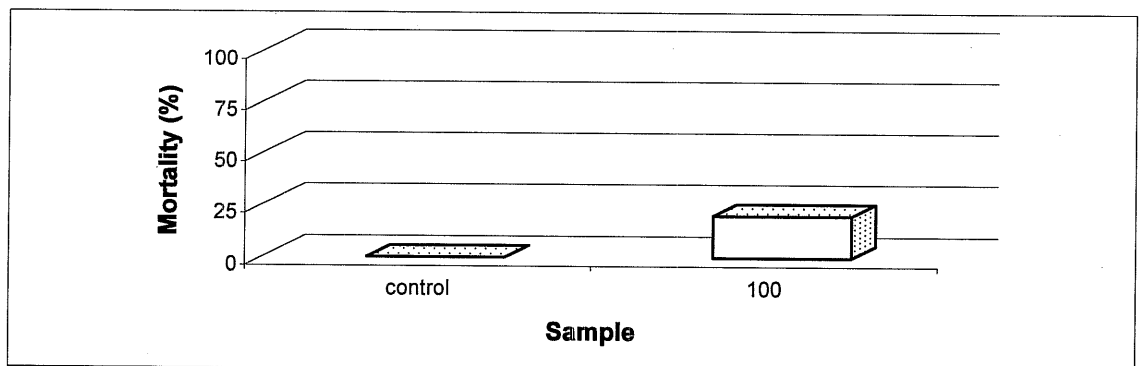
Test: started on 2006/08/24 ; ended on 2006/08/28

Result:

Sample	Client Code	Mortality (%)	Comment
control 1	lab control PKCA Raw Water	0 20	none

Contents

Result Summary.....	1
Test Conditions.....	2
Test Data.....	3
Comments/Statistics..	5
QA/QC.....	6



Authorized by K.Steele, B.Sc., Quality Assurance Officer
The test data and results are verified correct.

Test Conditions

Client: TAH102 Reference: 06-1717-01-TRS

Method: Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout, 1990. Environment Canada, EPS 1/RM/13. (amended 1996 and 2000)

Test type: Trout 96-h Static Acute Test (HQ 4.4.4.1)

Species: *Oncorhynchus mykiss*

Organism source: Ackenberry Trout Farms (Batch 20060815TR)

Acclimation: 9 days

Stock mortality: 0.24% (seven days preceeding testing)

Sample initial chemistry: pH: 7.4; EC: 242 (µS/cm); DO: 8.9 (mg/L); temperature: 21 °C
hardness (mg CaCO₃/L): 54; colour: colourless; odour: odourless

Sample holding time: 4 days (must be ≤ 5 days)

Sample storage: 4 ± 2°C in darkness

Test vessel: The test was conducted in 22 L plastic pails with polyethylene liners

Test volume: 18 Litres

Sample pre-treatment: All test solutions and controls were pre-aerated for 30 minutes
Dissolved oxygen in full strength sample was 8.4 mg/L after pre-aeration
The sample was not filtered or pH adjusted prior to or during testing

Loading density: 0.2g/Litre (must be ≤ 0.5 g/Litre)

Control water: Dechlorinated City of Calgary water acclimated to test conditions

Test concentrations: Undiluted sample plus a negative control

Test replicates: One replicate per treatment; 10 fish per replicate

Feeding: Fish are not fed 24 hours before test initiation and no feeding during test

Measurements: pH, conductivity, dissolved oxygen and temperature measured daily

Aeration: All treatments aerated at 6.5 (±1 mL/min/L)

Lighting: Overhead full spectrum fluorescent lights; 100-500 lux at surface

Photoperiod: 16h light:8h dark

Test temperature: 15 ± 1°C

Endpoint: Mortality, % mortality at 96-h

Test validity: The control had 100% survival (must ≥ 90%)

Reference toxicant: 96-h test with Phenol (C₆H₆O) initiated August 21, 2006; current results
(96-h LC₅₀ and 95% confidence limits) = 10.1 (9.5-10.8) mg/L Phenol

Note: Outlined sections are protocol deviations explained on the comment page; v/v, volume per volume

Test Data

Client: TAH102
Reference: 06-1717-01-TRS

Test Log:

Date	Day	Time	Technician	Comment/Observation
2006/08/24	0	1030	S. Krishnappa/A. Vogstad	test fish loaded at 1030 h
2006/08/25	1	0945	A. Vogstad/S. Ford	all test fish appear normal
2006/08/26	2	1030	B. Denny/M. Luong	all test fish appear normal
2006/08/27	3	0930	B. Denny/M. Luong	all test fish appear normal
2006/08/28	4	1000	M. Luong/S. Krishnappa	all test fish appear normal

Chemistry:

Sample	control	100						
--------	---------	-----	--	--	--	--	--	--

Day

pH (units)

0	7.6	7.6						
1	7.9	7.9						
2	7.9	7.9						
3	8.0	7.9						
4	7.9	7.7						

Conductivity (µS/cm)

0	446	246						
1	454	251						
2	456	252						
3	462	250						
4	459	246						

Dissolved Oxygen (mg/L)

0	8.7	8.4						
1	8.6	8.7						
2	8.4	8.5						
3	8.4	8.5						
4	8.8	8.8						

Temperature (°C)

0	15	16						
1	15	15						
2	15	15						
3	15	15						
4	15	15						

Test Data

Client: TAH102
Reference: 06-1717-01-TRS

Number Alive:

Sample	control	100						
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Day

0	10	10						
1	10	9						
2	10	9						
3	10	8						
4	10	8						

Mortality (%)

4	0	20						
---	---	----	--	--	--	--	--	--

Biology Summary Tables:

Control Fish	Length (cm)	Weight (g)
1	3.5	0.4
2	2.9	0.2
3	3.3	0.3
4	3.5	0.4
5	3.5	0.4
6	3.4	0.3
7	3.7	0.5
8	3.5	0.4
9	3.5	0.4
10	3.5	0.4

Sample	Group Weight (g)
control	3.6
100.0	4.5

average	3.4	0.4
sd	0.2	0.1
cv(%)	6.2	19.3

Notes: nd, not done; na, not applicable;
 sd, standard deviation; cv(%), coefficient
 of variation

Comments/Statistics

Client: TAH102 Reference: 06-1717-01-TRS

Test Result Comments:

None

Data Analysis:

None

Protocol Deviations:

The fish were held less than 14 days prior to test initiation.

Quality Assurance Information

Test Method: Trout 96h Static Acute Test. (LC50, five or more treatments plus a control)
HydroQual Test Method Manual, section: 4.4.4.1

Reference: Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout, 1990. Environment Canada, EPS 1/RM/13. including May 1996 and December 2000 amendments.

Test Organism:

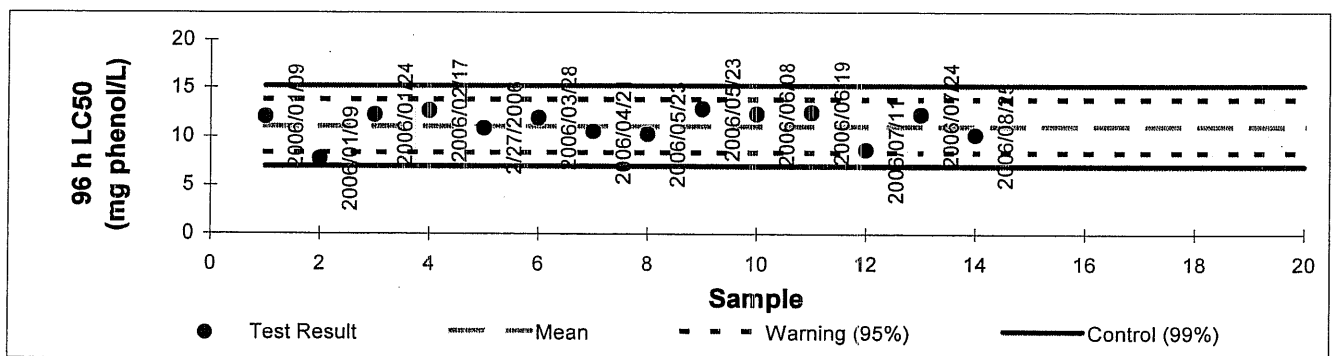
test species: *Oncorhynchus mykiss*
culture source: Ackenberry Trout Farms
temperature (°C): 15 ± 1
dissolved oxygen: saturated
stock mortality (last 7d): 0.3%
batch number: 20060815TR

Test Design:

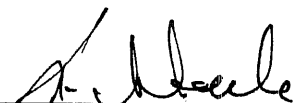
vol. of test vessel (L): 20
test volume depth: >15 cm
replicates per treatment: 1
fingerlings per replicate: 10
loading (g fish/L): <0.5
temperature (°C): 15 ± 1
photoperiod: 16h light: 8h dark
light level (water surface): 100-500 lux
control/dilution water: dechlorinated tap water

Warning Chart: mortality LC50 at 96 hours
toxicant: Phenol (C₆H₅OH)

Current Test: started on 2006/08/21 ended on 2006/08/25
result (96 h LC50): 10.1 (9.5-10.8) mg phenol/L (95% confidence limits are in brackets)
Historical: mean: 11.0 std.dev: 1.4 cv(%): 12
warning limits: 8.3 13.8 (lower and upper 95% confidence limit, two standard deviations)
control limits: 6.9 15.1 (lower and upper 99% confidence limit, three standard deviations)



Quality Assurance Unit:


Authorized by K. Steele, B.Sc., Quality Assurance Officer
The test data and results are verified correct.

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.

Result Summary

 Client: TAH102
 Reference: 06-1717-01-DAS

Client: Tahera Diamond Corporation; operation
 Yellowknife

Sample: PKCA Raw Water

Collection: collected on 2006/08/20 at 1730 by C. Wray

Receipt: received on 2006/08/23 at 1420 by J.Ernst

Containers: received 2 x 20L pails at 20 °C, in good condition
 with no seals and no initials

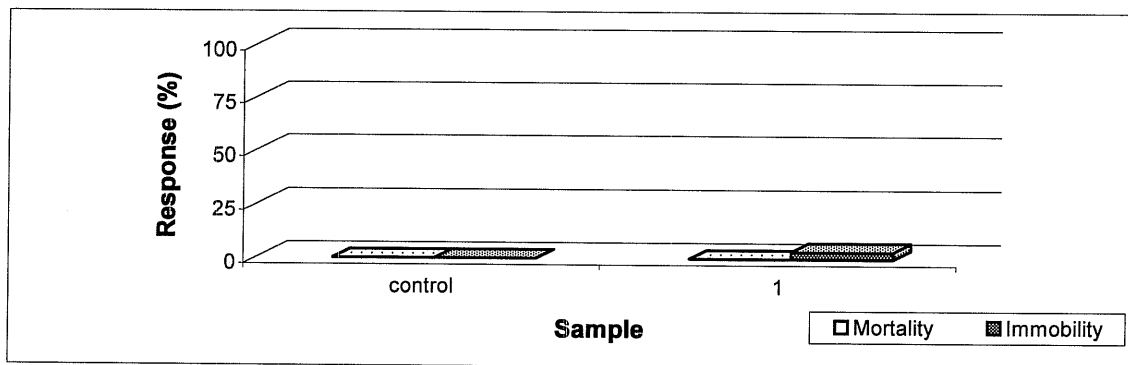
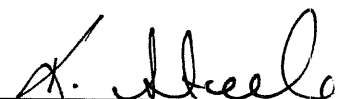
Description: type: effluent, collection method: grab

Test: started on 2006/08/24 ; ended on 2006/08/26

Result:

Sample	Client Code	Average Mortality (%)	Average Immobility (%)	Comment
control	lab control	0	0	
1	PKCA Raw Water	0	3	not toxic as tested

Notes: sd, sample standard deviation; cv, coefficient of variation; nd, not done; na, not applicable;



 Authorized by K. Steele, B.Sc., Quality Assurance Officer
 The test data and results are verified correct.

Test Conditions

Client: TAH102 Reference: 06-1717-01-DAS

Method: Biological Test method: Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna*, 1990. Environ. Can., EPS 1/RM/14. (amended 1996 and 2000)

Test type: *Daphnia* 48-h Static Acute Test (HQ 4.4.3.1)

Species: *Daphnia magna*

Age: < 24 hours old

Organism source: in-house culture

Stock mortality: 0%

Culture brood data: 9 days to first brood
16 neonates per average brood

Sample initial chemistry: pH: 7.4; EC: 242 ($\mu\text{S}/\text{cm}$); DO: 8.9 (mg/L); temperature: 21 °C
hardness (mg CaCO_3/L): 54; colour: colourless; odour: odourless

Sample holding time: 4 days (must be ≤ 5 days)

Sample storage: $4 \pm 2^\circ\text{C}$ in darkness

Test vessel: 385 mL plastic vessels

Test volume: 150 mL

Sample pre-treatment: The sample was not filtered or pH adjusted prior to or during testing
The sample was pre-aerated for 0 minutes (rate of $37.5 \pm 12.5 \text{ mL}/\text{min} \cdot \text{L}^{-1}$)
The hardness of the sample was not adjusted (mg CaCO_3/L) prior to or during testing

Loading density: One daphnid/15 mL (must ≤ 1 organism/15 mL)

Control water: Dechlorinated City of Calgary water acclimated to test conditions
The hardness of the control/dilution water was 154 mg CaCO_3/L

Test concentrations: Undiluted sample plus a negative control

Test replicates: Three replicates per treatment, 10 daphnids per replicate

Feeding: None

Aeration: None

Measurements: pH, conductivity, dissolved oxygen and temperature at test initiation and termination

Lighting: Overhead full spectrum fluorescent lights; 400-800 lux at surface

Photoperiod: 16h light:8h dark

Test temperature: $20 \pm 2^\circ\text{C}$

Note: Outlined sections are protocol deviations explained on the comment page

Test Conditions

Client: TAH102 Reference: 06-1717-01-DAS

Endpoint: Mortality, % mortality at 48-h

Immobility, % immobility at 48-h

Test validity: The control had 100% survival (must $\geq 90\%$)

Control had 0% abnormal behaviour (must $< 10\%$), e.g. immobility

Reference toxicant: 48-h test with NaCl initiated August 22, 2006; current results

(48-h LC50 and 95% confidence limits) = 5.4 (4.9-5.8) g/L NaCl

Note: Outlined sections are protocol deviations explained on the comment page

Test Data

 Client: TAH102
 Reference: 06-1717-01-DAS

Test Log:

Date	Day	Time	Technician	Comment/Observation
2006/08/24	0	1415	S. Ford	test <i>Daphnia</i> appear normal
2006/08/25	1	1200	S. Ford	test <i>Daphnia</i> appear normal
2006/08/26	2	1315	B.Denny	test <i>Daphnia</i> appear normal

Chemistry:

Sample	control			1		
replicate	a	b	c	a	b	c

Day	pH (units)					
0	7.8	7.8	7.8	7.4	7.4	7.4
2	7.8	7.9	7.9	7.6	7.7	7.6

	Conductivity ($\mu\text{S}/\text{cm}$)					
0	475	475	475	242	242	242
2	480	462	461	250	239	238

	Dissolved Oxygen (mg/L)					
0	9.2	9.2	9.2	8.9	8.9	8.9
2	8.1	8.1	8.2	8.1	8.2	8.2

	Temperature ($^{\circ}\text{C}$)					
0	21	21	21	21	21	21
2	19	20	19	20	20	20

Biology:

Sample	control			1		
replicate	a	b	c	a	b	c

Day	Number Alive and Behavior (behavior is in brackets)					
1	10 (1F, 1I)	10	10	10	10	10 (1I)
2	10	10	10	10	10	10 (1I)

Notes: F, floating; I, immobile; B, stuck on bubble; D, caught in debris

	Mortality (%)					
2	0	0	0	0	0	0

	Immobility (%)					
2	0	0	0	0	0	10

Comments/Statistics

Client: TAH102 Reference: 06-1717-01-DAS

Test Result Comments:

None

Data Analysis:

None

Protocol Deviations:

None

Quality Assurance Information

Test Method: *Daphnia* Static Acute Test (LC50, five or more treatments plus a control)
HydroQual Test Method Manual, section: 4.4.3.1

Reference: Biological Test Method: Reference Method for Determining the Acute Lethality of Effluents to *Daphnia magna*, 1990. Environment Canada, EPS 1/RM/14.
including May 1996 and December 2000 amendments.

Test Organism:

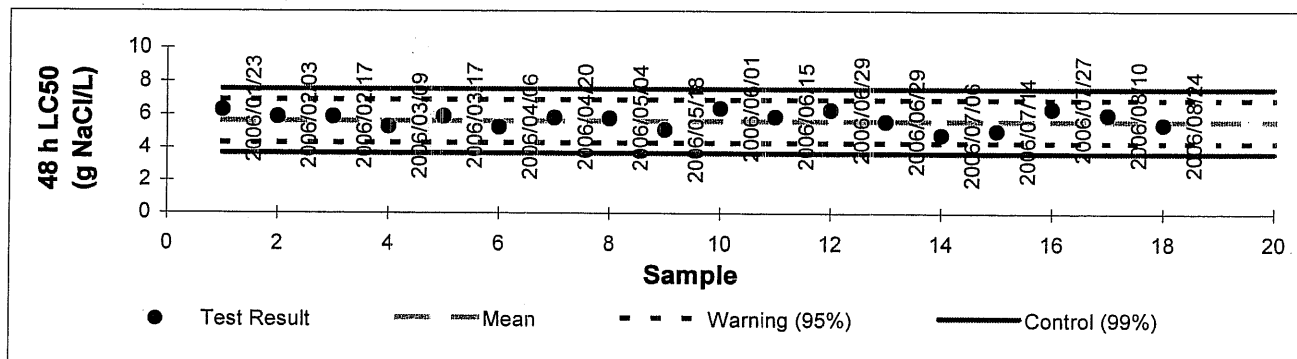
test species: *Daphnia magna*
culture source: in-house
original culture source: Environment Canada
days to first brood: 9
mean brood size: 16
ephippia in stock culture: no
age of test organisms: <24 hours old
culture mortality (%): 0

Test Design:

vol. of test vessel (mL): 500
toxicant: sodium chloride
test volume (mL): 150
replicates per treatment: 1
neonates per replicate: 10
volume per neonate (mL): 15
samples preaerated: no
hardness adjustment: no
temperature (°C): 20
photoperiod: 16h light:8h dark
light level (water surface): 400-800 lux
control/dilution water: dechlorinated tap water

Warning Chart: mortality LC50 at 48 hours
toxicant: Sodium Chloride (NaCl)

Current Test: started on 2006/08/22 ended on 2006/08/24
result (48 h LC50): 5.4 (4.9-5.8) g NaCl/L (95% confidence limits are in brackets)
Historical: mean: 5.6 std. dev: 0.6 cv (%): 12
warning limits: 4.3 6.9 (lower and upper 95% confidence limit, two standard deviations)
control limits: 3.7 7.6 (lower and upper 99% confidence limit, three standard deviations)



Quality Assurance Unit:

Authorized by K. Steele, B.Sc., Quality Assurance Officer
The test data and results are verified correct.

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.

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DA Ref. Tox.v 2.4