



**INAC-Water Resources
Field Operations
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December 12, 2003

**Roy Mullins
Senior Administrative Officer
Box 10
Hamlet of Chesterfield Inlet
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Re: Hamlet of Chesterfield Inlet Water Licence Inspection

In the course of the Water Licence Inspection, problems were identified with record keeping at the water treatment plant, improper waste disposal at the sewage wetland, potential contaminant migration at the landfill and hazardous waste management.

Potable Water Source - First Lake (Figure 1)

The Hamlet of Chesterfield Inlet needs to keep complete records of water use as well as recording daily chlorine levels. The water quality in First Lake does not appear threatened by any potential sources of contamination. Once a year, water is pumped out of First Lake to the Hamlet's reservoir which supplies the community with freshwater (figure 2). The reservoir is fenced in and a sign warning people to keep out is prominently displayed (figure 3). Samples were taken directly from the reservoir. All of the water sampled had results within the *Summary of Guidelines for Canadian Drinking Water Quality 2002*.

Sewage Lagoon

The wetland sewage treatment appears to be working quite well but the system could likely benefit from the addition of a sewage lagoon at the dumping point. The current system allows for a significant amount of solids migration that may impact the effluent quality (figure 4). According to Bryan Purdy with Community Government and Transportation (CG&T), a study is being conducted on the effectiveness of the wetlands treatment. The study should be completed in August 2004, with implementation of appropriate measures occurring in 2005.

Grab samples were taken downstream of the dumping point in a section of the wetland where water/effluent had collected (figure 5). The iron concentration of the effluent exceeded the *Canadian Water Quality Guidelines for the Protection of Aquatic Life 2003* (1183 ug/L >> 300 ug/L). All other parameters measured were within the *Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories 1992* and the *Canadian Water Quality Guidelines for the Protection of Aquatic Life 2002*. The quality of the effluent entering the marine environment is likely better than that in the area sampled. There is still a problem with accumulated solid waste adjacent to the sewage truck discharge point. CG&T is looking at options to determine the best way to deal with this waste.

Landfill

The landfill is completely fenced but there are problems with grading and contouring of the site, waste needs to be better segregated and no hazardous waste management structures are in place (figure 6). Waste appears to be covered regularly but the site is a collection zone for runoff and precipitation that could carry contaminants into the pond at the end of the wetland or into Hudson's Bay (figure 7). The Hamlet needs to implement measures to control runoff and precipitation and prevent it from transporting contaminants off the landfill site. Measures to store hazardous waste also need to be implemented. Please refer to the *Nunavut Hazardous Waste Management Manual 2003* for further information.

Waste Oil

Waste fuel and oil drums are improperly stored in the Hamlet of Chesterfield Inlet (figure 8) with patches of soil visibly contaminated with hydrocarbons. The drums should be stored upright on pallets to prevent the bottoms from rusting out. The drums should also be stored in an area that is well marked, bermed, lined and fenced to prevent accidental damage through concealment by snowdrifts. Ideally, a waste oil burner should be used to reduce the volume of waste and avoid the cost of shipping waste hydrocarbons south for disposal. Once again, please refer to the *Nunavut Hazardous Waste Management Manual 2003* for further information.

Non-compliance of the Act or Licence

The Hamlet of Chesterfield Inlet does not currently hold a water licence as required under the *Nunavut Land Claims Agreement 1993* and the *Nunavut Waters Nunavut Surface Rights Tribunal Act 2002*. However, the application process has been completed and the application is now in the hands of the Nunavut Water Board. The Hamlet needs to improve its waste management facility, waste hydrocarbon handling, record keeping and monitoring of waste discharges to comply with the Act. Despite these problems the Hamlet of Chesterfield Inlet is working hard to improve its level of compliance and I look forward to assisting them in their efforts.

If you have any questions or concerns please don't hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Scott Stewart".

Scott Stewart
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Figure 1. First Lake, the source of freshwater for the Hamlet of Chesterfield Inlet.



Figure 2. The freshwater reservoir for the Hamlet of chesterfield Inlet.



Figure 3. The fence around the Hamlet of Chesterfield Inlet's reservoir with warning sign.



Figure 4. Sewage discharge point for the Hamlet of Chesterfield Inlet.



Figure 5. A portion of the wetland treatment area in Chesterfield Inlet where the inspector took grab samples.



Figure 6. Unsegregated materials at the Hamlet of Chesterfield Inlet metal dump.



Figure 7. The Hamlet of Chesterfield Inlet wetland adjacent to the landfill.



Figure 8. Waste oil drums in Chesterfield Inlet with hydrocarbon contamination visible in the soil.



MUNICIPAL WATER USE INSPECTION REPORT

Date: August 15, 2003

Licensee Rep. (Name/Title): Roy Mullins/ SAO

Licensee: Hamlet of Chesterfield Inlet

Licence No.: Unlicensed

WATER SUPPLY

Source(s): First Lake

Quantity used:

Owner:/Operator: Hamlet of Chesterfield Inlet

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Intake Facilities: A

Storage Structure: A

Treatment Systems: A

Chemical Storage: A

Flow Meas. Device: NA

Conveyance Lines: NA

Pumping Stations: A

Comments: Water Intake Facility was operating and the chlorination system appeared to be well maintained. Complete records of water use and chlorine concentrations need to be kept. The reservoir was completely fenced in with a sign warning people to keep out..

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): Secondary; over land to ocean.

Natural Water Body: X

Continuous Discharge (land or water): water

Seasonal Discharge: X

Wetlands Treatment: X

Trench:

Solid Waste:

Owner/Operator: Hamlet of Chesterfield Inlet

Landfill:

Burn & Landfill: X

Other:

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Discharge Quality: Sampled

Decant Structure: NA

Erosion: A

Discharge Meas. Device: NIL

Dyke Inspection: NA

Seepages: A

Dams, Dykes: NA

Freeboard: NA

Spills: NIL

Construction: NA

O&M Plan: NA

A&R Plan: NA

Periods of Discharge: A

Effluent Discharge Rate: Not Measured

Comments: The Sewage Lagoon discharges to a large shallow wetland area prior to entering the ocean. There is considerable vegetation in this area that assists in the breakdown of the sewage. The Solid Waste Disposal Facility is segregated into several sections, bulky metal waste, waste oil and general garbage. The waste oil area has contaminated soil and a number of drums are tipped over. Drums should be placed upright on pallets to prevent further spillage from rusted out drums.

FUEL STORAGE

Owner/Operator:Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Berms & Liners: U

Water within Berms: A

Evidence of Leaks: A

Drainage Pipes: NI

Pump Station & Catchment Berm: NI

Pipeline Condition: NI

Not Applicable: NI

Condition of Tanks: NI

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected

Hamlet: NIL

INAC: potable water, sewage effluent

Signs Posted

SNP: *NONE*

Warning: at Reservoir

Records & Reporting: Not Applicable

Geotechnical Inspection: Not Applicable

Non-Compliance of Act or Licence: At the time of inspection the Hamlet of Chesterfield Inlet did not hold a Water Licence as required under both the *Nunavut Land Claims Agreement 1993* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act 2002* for the use of water and disposal of waste.

Scott Stewart

Inspector's Name

Peter Kusugak
Manager's Name

Inspector's Signature

Manager's Signature



Taiga

Environmental Laboratory

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Taiga Home		Client Sample ID		Sample Type		Sampling Location		Sample Collect Date		Sample Received Date		Test Group Name		Lab Section		Parameter Name		Result Flag		Reported Result		Units		Calc MDL		Sample Result Qualifier		Analysis Result Qualifier		Analysis Date		P Me	
About Us																																	
Analytical Capabilities		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		Nitrates+Nitrites as N		Nutrients		Nitrate+Nitrite as N		0.366		0.366		mg/L		0.008				9/2/03		none			
Service Price List		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		Organic Carbon, Total		Nutrients		Organic Carbon, Total		31.8		31.8		mg/L		0.2				9/11/03		none			
Rush Services		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		Colour		Physicals		Colour		50		50				5				8/27/03		none			
Sampling & Supplies		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		Conductivity, Specific		Physicals		Conductivity, Specific		586		586		µS/cm		0.3				8/27/03		none			
Consulting Services		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		pH		Physicals		pH		7.49		7.49		pH units		0.05				8/27/03		none			
Laboratory Assessments		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		Solids, Total Suspended		Physicals		Solids, Total Suspended		6		6		mg/L		3				8/21/03		GF/C			
Training		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		Turbidity		Physicals		Turbidity		5.6		5.6		NTU		0.1				9/8/03		none			
On-line Results		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		Phenols		Subcontracted Organics		Phenols		0.8		0.8		µg/L		0.5				9/4/03		none			
Resources & Links		lagoon seep WHA-3		sewage		Hamlet of Whale cove		8/14/03		8/20/03		Calcium		Major Ions		Calcium		5.39		5.39		mg/L		0.05				8/25/03		none			
Field Sheet		Reservoir CHE-1		freshwater		Hamlet of Chesterfield		8/15/03		8/20/03		Magnesium		Major Ions		Magnesium		1.80		1.80		mg/L		0.02				8/25/03		none			
Bottle/Order Form		Reservoir CHE-1		freshwater		Hamlet of Chesterfield		8/15/03		8/20/03		Potassium		Major Ions		Potassium		1.16		1.16		mg/L		0.03				8/26/03		none			
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232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Sodium	Major Ions	Sodium	13.5	mg/L	0.02	8/25/03	none	
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Sulphate	Major Ions	Sulphate	7	mg/L	3	8/21/03	none	
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Aluminum	<	30	µg/L	30	9/20/03	Micro
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Arsenic, Total in water	Metals, Total	Arsenic	<	1	µg/L	1	8/23/03	Micro
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Barium	4.0	µg/L	0.1	9/20/03	Micro	
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Beryllium	<	0.1	µg/L	0.1	9/20/03	Micro
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Cadmium	<	0.1	µg/L	0.1	9/20/03	Micro
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Cesium	<	0.1	µg/L	0.1	9/20/03	Micro
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Chromium	1.0	µg/L	0.3	9/20/03	Micro	



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Taiga Sample ID	Client Sample ID	Sample Type	Sampling Location	Sample Collect Date	Sample Received Date	Test Group Name	Lab Section	Parameter Name	Result Flag	Reported Result	Units	Calc MDL	Sample Result Qualifier	Analysis Result Qualifier	Analysis Date	Prep Method
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Cobalt	<	0.1	µg/L	0.1			9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Copper		17.7	µg/L	0.2			9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Iron, Total	Metals, Total	Iron		34	µg/L	30			9/4/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Lead		0.6	µg/L	0.1			9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Lithium		1.4	µg/L	0.3			9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Manganese		1.4	µg/L	0.1			9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Mercury, Total	Metals, Total	Mercury		0.02	µg/L	0.01			8/27/03	none
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Molybdenum		0.6	µg/L	0.1			9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Nickel		1.0	µg/L	0.1			9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Selenium	<	1	µg/L	1			9/20/03	Microwave
232798	Reservoir	freshwater	Hamlet of	8/15/03	8/20/03	Total Metals (24) by ICP-MS	Metals,	Silver	<	0.1	µg/L	0.1			9/20/03	Microwave

CHE-1		Chesterfield		water		Total Metals, Total				
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	23.6	µg/L	8/20/03	Hamlet of Chesterfield Ave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	0.1	µg/L	9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	2.2	µg/L	9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	4.8	µg/L	9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	< 0.1	µg/L	9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	42	µg/L	9/20/03	Microwave
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Ammonia	<	mg/L	8/29/03	none
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Nitrates+Nitrites as N	< 0.008	mg/L	9/2/03	none
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Organic Carbon, Total	1.9	mg/L	9/11/03	none



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232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Colour	Physicals	Colour	<	5		5			8/27/03	none
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Conductivity, Specific	Physicals	Conductivity, Specific		136	µS/cm	0.3			8/27/03	none
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	pH	Physicals	pH		7.36	pH units	0.05			8/27/03	none
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Solids, Total Suspended	Physicals	Solids, Total Suspended	<	3	mg/L	3			8/21/03	GF/C Filt.
232798	Reservoir CHE-1	freshwater	Hamlet of Chesterfield	8/15/03	8/20/03	Turbidity	Physicals	Turbidity		3.4	NTU	0.1			9/8/03	none
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Calcium	Major Ions	Calcium		32.3	mg/L	0.05			8/25/03	none
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Magnesium	Major Ions	Magnesium		6.26	mg/L	0.02			8/25/03	none
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Potassium	Major Ions	Potassium		11.9	mg/L	0.03			8/26/03	none
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Sodium	Major Ions	Sodium		60.7	mg/L	0.02			8/25/03	none
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Sulphate	Major Ions	Sulphate		56	mg/L	3			8/21/03	none
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Aluminum		81	µg/L	30			9/20/03	Microwave
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Arsenic, Total in water	Metals, Total	Arsenic		1	µg/L	1			8/23/03	Microwave
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Barium		7.2	µg/L	0.1			9/20/03	Microwave

232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP- MS water	Metals, Total	Beryllium	<	0.1	µg/L	0.1	9/20/03	Microwave	El
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP- MS water	Metals, Total	Cadmium		0.4	µg/L	0.1	9/20/03	Microwave	El
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP- MS water	Metals, Total	Cesium	<	0.1	µg/L	0.1	9/20/03	Microwave	El
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP- MS water	Metals, Total	Chromium		1.9	µg/L	0.3	9/20/03	Microwave	El
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP- MS water	Metals, Total	Cobalt		0.6	µg/L	0.1	9/20/03	Microwave	El
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP- MS water	Metals, Total	Copper		8.8	µg/L	0.2	9/20/03	Microwave	El
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Iron, Total	Metals, Total	Iron		1183	µg/L	30	9/4/03	Microwave	SI



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232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Lead		1.7	µg/L	0.1			9/20/03	Microwave E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Lithium		6.0	µg/L	0.3			9/20/03	Microwave E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Manganese		93.8	µg/L	0.1			11/18/03	Microwave E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Mercury, Total	Metals, Total	Mercury		0.02	µg/L	0.01			8/27/03	none S
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Molybdenum		1.0	µg/L	0.1			9/20/03	Microwave E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Nickel		4.3	µg/L	0.1			9/20/03	Microwave E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Selenium		2	µg/L	1			9/20/03	Microwave E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Silver	<	0.1	µg/L	0.1			9/20/03	Microwave E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Strontium		160	µg/L	0.1			11/18/03	Microwave E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Thallium	<	0.1	µg/L	0.1			9/20/03	Microwave E

Total Metals

232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	(24) by ICP-MS water	Metals, Total	Titanium	3.7	µg/L	0.1	9/20/03	Microwave	E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Uranium	2.8	µg/L	0.1	9/20/03	Microwave	E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Vanadium	0.3	µg/L	0.1	9/20/03	Microwave	E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Total Metals (24) by ICP-MS water	Metals, Total	Zinc	39	µg/L	10	9/20/03	Microwave	E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Ammonia	Nutrients	Ammonia as N	21.0	mg/L	0.005	8/29/03	none	S N
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N	0.186	mg/L	0.008	9/3/03	none	S N
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Organic Carbon, Total	Nutrients	Organic Carbon, Total	47.4	mg/L	0.2	9/11/03	none	E
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Colour	Physicals	Colour	120		5	8/27/03	none	S
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	Conductivity, Specific	Physicals	Conductivity, Specific	742	µS/cm	0.3	8/27/03	none	S
232799	Effluent CHE-3	sewage	Hamlet of Chesterfield	8/15/03	8/20/03	pH	Physicals	pH	7.41	pH units	0.05	8/27/03	none	S T

232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Metals (24) by ICP-MS water	Metals, Total	Beryllium	<	0.1	µg/L	0.1	9/20/03	Microwave
						Total								
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Metals (24) by ICP-MS water	Metals, Total	Cadmium	<	0.2	µg/L	0.1	9/20/03	Microwave
						Total								
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Metals (24) by ICP-MS water	Metals, Total	Cesium	<	0.1	µg/L	0.1	9/20/03	Microwave
						Total								
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Metals (24) by ICP-MS water	Metals, Total	Chromium		26.5	µg/L	0.3	9/20/03	Microwave
						Total								
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Metals (24) by ICP-MS water	Metals, Total	Cobalt	<	0.1	µg/L	0.1	9/20/03	Microwave
						Total								
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Metals (24) by ICP-MS water	Metals, Total	Copper		2.1	µg/L	0.2	9/20/03	Microwave
						Total								
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Iron, Total	Metals, Total	Iron		50	µg/L	30	9/4/03	Microwave
						Total								
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Metals (24) by ICP-MS water	Metals, Total	Lead		0.1	µg/L	0.1	9/20/03	Microwave
						Total								
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale cove	8/14/03	8/20/03	Metals (24) by ICP-MS water	Metals, Total	Lithium		1.5	µg/L	0.3	9/20/03	Microwave