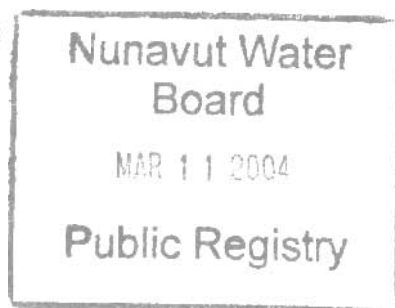




INAC-Water Resources
Field Operations
Box 100
Iqaluit, Nunavut
X0A 0H0

March 3, 2004

Roy Mullins
Senior Administrative Officer
Box 10
Hamlet of Chesterfield Inlet
X0C 0B0
Ph: (867) 898-9926
Fax: (867) 898-9108



Unlicensed

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Re: Updated sample results for the Hamlet of Chesterfield Inlet freshwater reservoir

I am writing to notify you of updated sample results from Taiga Lab. The updated results revealed elevated turbidity for samples of the freshwater source for the community of chesterfield Inlet (3.4 NTU > 1.0 NTU). The elevated turbidity levels could reduce the effectiveness of chlorination in eliminating bacteria from the water supply. The turbidity levels need to be monitored to determine whether or not turbidity is consistently elevated in the reservoir. Care should be taken to ensure that the reservoir is not filled when the freshwater source is highly turbid. If you have any questions or concerns please don't hesitate to contact me.

Sincerely,

Scott Stewart
Water Resource Officer
Field Operations
Nunavut Regional Office
Iqaluit, NU X0A 0H0
Ph: (867) 975-4289
Fax: (867) 979-6445
stewarts@inac.gc.ca

cc:

NWB (Jim Wall)
CG&T Rankin Inlet (Bryan Purdy)
EC Baffin Region (Sid Bruinsma)
Baffin Health and Social Services (Bruce Trotter)



Taiga Environmental Laboratory
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3

Tel: (867)-669-2788
Fax: (867)-669-2718

- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Reservoir CHE-1

Taiga Sample ID: 232798

Client Project:

Sample Type: freshwater

Received Date: 20-Aug-03

Location: Hamlet of Chesterfield

Sampling Date: 15-Aug-03

Report Status: Final

Approved by:

Helene Harper

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Colour	<5		5	27-Aug-03
Conductivity, Specific	136	µS/cm	0.3	27-Aug-03
pH	7.36	pH units	0.05	27-Aug-03
Solids, Total Suspended	<3	mg/L	3	21-Aug-03
Turbidity	3.4	NTU	0.1	08-Sep-03
<u>Nutrients</u>				
Ammonia as N	<0.005	mg/L	0.005	29-Aug-03
Nitrate+Nitrite as N	<0.008	mg/L	0.008	02-Sep-03
Organic Carbon, Total	1.9	mg/L	0.2	11-Sep-03
<u>Major Ions</u>				
Calcium	5.39	mg/L	0.05	25-Aug-03
Magnesium	1.80	mg/L	0.02	25-Aug-03
Potassium	1.16	mg/L	0.03	26-Aug-03
Sodium	13.5	mg/L	0.02	25-Aug-03

INTERNAL	
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Nunavut Water
Board

MA

Public Registry

Report Date: Wednesday, October 29, 2003

Page 1 of 3



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Reservoir CHE-1

Taiga Sample ID: 232798

Sulphate	7	mg/L	3	21-Aug-03
<u>Metals, Total</u>				
Aluminum	< 30	µg/L	30	20-Sep-03
Arsenic	< 1	µg/L	1	23-Aug-03
Barium	4.0	µg/L	0.1	20-Sep-03
Beryllium	< 0.1	µg/L	0.1	20-Sep-03
Cadmium	< 0.1	µg/L	0.1	20-Sep-03
Cesium	< 0.1	µg/L	0.1	20-Sep-03
Chromium	1.0	µg/L	0.3	20-Sep-03
Cobalt	< 0.1	µg/L	0.1	20-Sep-03
Copper	17.7	µg/L	0.2	20-Sep-03
Iron	34	µg/L	30	04-Sep-03
Lead	0.6	µg/L	0.1	20-Sep-03
Lithium	1.4	µg/L	0.3	20-Sep-03
Manganese	1.4	µg/L	0.1	20-Sep-03
Mercury	0.02	µg/L	0.01	27-Aug-03
Molybdenum	0.6	µg/L	0.1	20-Sep-03
Nickel	1.0	µg/L	0.1	20-Sep-03
Selenium	< 1	µg/L	1	20-Sep-03
Silver	< 0.1	µg/L	0.1	20-Sep-03
Strontium	23.6	µg/L	0.1	20-Sep-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Reservoir CHE-1

Taiga Sample ID: 232798

Thallium	<0.1	µg/L	0.1	20-Sep-03
Titanium	2.2	µg/L	0.1	20-Sep-03
Uranium	4.8	µg/L	0.1	20-Sep-03
Vanadium	<0.1	µg/L	0.1	20-Sep-03
Zinc	42	µg/L	10	20-Sep-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Effluent CHE-3

Taiga Sample ID: 232799

Client Project:

Sample Type: sewage

Received Date: 20-Aug-03

Location: Hamlet of Chesterfield

Sampling Date: 15-Aug-03

Report Status: Final

Approved by:

Helene Harper

Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
<u>Physicals</u>					
Colour	120		5	27-Aug-03	
Conductivity, Specific	742	µS/cm	0.3	27-Aug-03	
pH	7.41	pH units	0.05	27-Aug-03	
Solids, Total Suspended	20	mg/L	3	21-Aug-03	
Turbidity	4.8	NTU	0.1	08-Sep-03	
<u>Nutrients</u>					
Ammonia as N	21.0	mg/L	0.005	29-Aug-03	
Chemical Oxygen Demand		mg/L			
Nitrate+Nitrite as N	0.186	mg/L	0.008	03-Sep-03	
Organic Carbon, Total	47.4	mg/L	0.2	11-Sep-03	
<u>Major Ions</u>					
Calcium	32.3	mg/L	0.05	25-Aug-03	
Magnesium	6.26	mg/L	0.02	25-Aug-03	
Potassium	11.9	mg/L	0.03	26-Aug-03	
Sodium	60.7	mg/L	0.02	25-Aug-03	



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Effluent CHE-3

Taiga Sample ID: 232799

Sulphate	56	mg/L	3	21-Aug-03
<u>Metals, Total</u>				
Aluminum	81	µg/L	30	20-Sep-03
Arsenic	1	µg/L	1	25-Aug-03
Barium	7.2	µg/L	0.1	20-Sep-03
Beryllium	<0.1	µg/L	0.1	20-Sep-03
Cadmium	0.4	µg/L	0.1	20-Sep-03
Cesium	<0.1	µg/L	0.1	20-Sep-03
Chromium	1.9	µg/L	0.3	20-Sep-03
Cobalt	0.6	µg/L	0.1	20-Sep-03
Copper	8.8	µg/L	0.2	20-Sep-03
Iron	1183	µg/L	30	04-Sep-03
Lead	1.7	µg/L	0.1	20-Sep-03
Lithium	6.0	µg/L	0.3	20-Sep-03
Manganese	93.8	µg/L	0.1	18-Nov-03
Mercury	0.02	µg/L	0.01	27-Aug-03
Molybdenum	1.0	µg/L	0.1	20-Sep-03
Nickel	4.3	µg/L	0.1	20-Sep-03
Selenium	2	µg/L	1	20-Sep-03
Silver	<0.1	µg/L	0.1	20-Sep-03
Strontium	160	µg/L	0.1	18-Nov-03
Thallium	<0.1	µg/L	0.1	20-Sep-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Effluent CHE-3

Taiga Sample ID: 232799

Titanium	3.7	µg/L	0.1	20-Sep-03
Uranium	2.8	µg/L	0.1	20-Sep-03
Vanadium	0.3	µg/L	0.1	20-Sep-03
Zinc	39	µg/L	10	20-Sep-03

Subcontracted Organics

Phenols	1.4	µg/L	0.5	04-Sep-03
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Data Qualifier Descriptions:

11 *Holding time exceeded before sample analysis*