

R E P O R T

NAMGIS FIRST NATION

Assessment Studies of Water and Wastewater Systems and Associated Water Management Practices at Selected First Nation Communities



RESULTS OF ANALYSIS - Water

File No. M7133

Sample ID	Nimpkish Band
Sample Date	01 02 22

Physical Tests

Colour	(CU)	<5
Conductivity	(umhos/cm)	204
Total Dissolved Solids		109
Hardness	CaCO3	72.6
pH		7.73
Turbidity	(NTU)	0.3

Dissolved Anions

Alkalinity-Total		CaCO3	83
Chloride	Cl		9.0
Fluoride	F		0.02
Sulphate	SO4		5

Nutrients

Nitrate Nitrogen		N	1.1
Nitrite Nitrogen		N	<0.1

Total Metals

Aluminum	T-Al	<0.005
Arsenic	T-As	0.0003
Barium	T-Ba	0.001
Boron	T-B	<0.05
Cadmium	T-Cd	<0.0002
Calcium	T-Ca	21.1
Chromium	T-Cr	<0.001
Copper	T-Cu	0.045
Iron	T-Fe	<0.03
Lead	T-Pb	<0.001
Magnesium	T-Mg	4.86
Manganese	T-Mn	<0.001
Mercury	T-Hg	<0.00005
Potassium	T-K	1.09
Selenium	T-Se	<0.001
Sodium	T-Na	9.60
Uranium	T-U	0.00007
Zinc	T-Zn	<0.005

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except for pH, Colour (CU),
 Conductivity (umhos/cm), and Turbidity (NTU).
 < = Less than the detection limit indicated.

Centre for
Disease Control
Authority

BCCDC LABORATORY SERVICES
655 12th Avenue West
Vancouver, B.C. V5Z 4R4

Fax: (604)660-6073

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed :2001 FEB 24

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Requisition :A0WW050636
Submitter Ref :

Specimen Submitter

:342-HEALTH CANADA (CAMPBELL RI*

Specimen Information

File/Name :92B4140 - 92B4140
Site Desc :NIMPkish HEALTH CENTRE, TAP, DRINKING
City/Area : Type :COM.W.S.
Source :Well

Specimen

Treatment :UNTREATED Ph Level :Free Chlorine Level :ppm
Nature :WATER Exams Req :Total Coliform

MO :D. HAYES :Fecal Coliform

Collected :2001 FEB 22
Received :2001 FEB 23

RESULTS

Reported on 2001 FEB 24

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L:LESS THAN		

DON'T WAIT FOR THESE RESULTS TO ARRIVE IN THE MAIL!

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For inquiries from medical personnel regarding laboratory results, please contact the Central Inquiry Line at 604-660-5100.

Specimen was 24 hours in transit

BCCDC LABORATORY SERVICES

The Province's centre of expertise in communicable disease control and provider of specialty health support services.

RESULTS OF ANALYSIS - Water



Sample ID		SG001 Cluxewe Campsite	SG002- Kwakuit- al	SG003- Namgis Health	SG004- Quatsino Band
Sample Date		01 09 18	01 09 18	01 09 18	01 09 18
ALS ID		1	2	3	4
Physical Tests					
Colour	(CU)	9	<5	<5	23
Conductivity	(umhos/cm)	111	168	210	72
Total Dissolved Solids		73	95	125	56
Hardness	CaCO3	23.1	50.3	77.1	17.9
pH		7.73	8.18	8.30	7.48
Turbidity	(NTU)	0.7	0.6	1.5	1.6
Dissolved Anions					
Alkalinity-Total	CaCO3	36	52	84	12
Chloride	Cl	8.5	3.7	9.9	10.8
Fluoride	F	<0.02	<0.02	<0.02	0.02
Sulphate	SO4	2	24	5	1
Nutrients					
Nitrate Nitrogen	N	0.2	<0.1	1.2	<0.1
Nitrite Nitrogen	N	<0.1	<0.1	<0.1	<0.1
Total Metals					
Aluminum	T-Al	0.11	0.02	<0.01	0.21
Antimony	T-Sb	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic	T-As	<0.001	<0.001	<0.001	<0.001
Barium	T-Ba	<0.02	<0.02	<0.02	<0.02
Boron	T-B	<0.1	<0.1	<0.1	<0.1
Cadmium	T-Cd	<0.0002	<0.0002	<0.0002	<0.0002
Calcium	T-Ca	6.5	19.1	21.2	6.2
Chromium	T-Cr	<0.002	<0.002	<0.002	<0.002
Copper	T-Cu	0.07	0.36	0.02	0.11
Iron	T-Fe	0.12	<0.03	0.11	0.22
Lead	T-Pb	0.002	<0.001	<0.001	0.003
Magnesium	T-Mg	1.7	0.6	5.8	0.6
Manganese	T-Mn	0.088	0.005	0.002	0.009
Mercury	T-Hg	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	T-K	0.3	<0.1	1.1	<0.1
Selenium	T-Se	<0.001	<0.001	<0.001	<0.001
Sodium	T-Na	11.0	11.8	9.2	5.7
Uranium	T-U	0.0002	<0.0001	<0.0001	<0.0001
Zinc	T-Zn	<0.05	<0.05	<0.05	<0.05

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except for pH, Colour (CU),
 Conductivity (umhos/cm), and Turbidity (NTU).
 < = Less than the detection limit indicated.

For 24' ---

B.C. Centre for
Disease Control
Society

BCCDC LABORATORY SERVICES
655 12th Avenue West
Vancouver, B.C. V5Z 4R4

Fax: (604)660-6073

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed :2001 SEP 24

Requisition :A1WW034996
Submitter Ref :

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Specimen Submitter

:342-HEALTH CANADA (CAMPBELL RI*

Site Information

Code/Name :02Q6191 - 02Q6191
Site Desc :NAMGIS HEALTH CENTRE
City/Area :
Source :Well Type :COM.W.S.

Specimen

Treatment:UNTREATED Ph Level: Free Chlorine Level: ppm
Nature :WATER Exams Req :Total Coliform
IO :S. GREEN :Fecal Coliform

Collected:2001 SEP 19
Received :2001 SEP 20

RESULTS

Reported on 2001 SEP 24

Test	Result	Units
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L:LESS THAN		

For inquiries from medical personnel regarding laboratory results,
please contact the Central Inquiry Line at 604-660-5100.

Specimen was 24 hours in transit

BCCDC LABORATORY SERVICES

The Province's centre of expertise in communicable disease control and provider of specialty health support services.

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed : 2001 DEC 10

Requisition : A1WW048250

Submitter Ref :

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Specimen Submitter

: 342-HEALTH CANADA (CAMPBELL RI

Site Information

Code/Name : 02R8312 - 02R8312
Site Desc : NAINGIS BAND
City/Area : Type :
Source :
Specimen : s.19(1)

Treatment: Ph Level: Free Chlorine Level: ppm
Nature : WATER Exams Req : Total Coliform

EHO : S. GREEN : Fecal Coliform

Collected:
Received : 2001 DEC 6

RESULTS

Reported on 2001 DEC 10

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L: LESS THAN		
3. NO REQUISITION FORM RECEIVED WITH SAMPLE. ALL INFORMATION COPIED FROM SAMPLE BOTTLE LABEL		
4. NO DATE COLLECTED GIVEN		

For inquiries from medical personnel regarding laboratory results,
please contact the Central Inquiry Line at 604-660-5100.

Coliform test may NOT be valid if specimen was more than 30 hrs in transit

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed :2001 DEC 10

Requisition :A1WW048249
Submitter Ref :

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Specimen Submitter
:342-HEALTH CANADA (CAMPBELL RI

Site Information

Code/Name :02R8311 - 02R8311
Site Desc : ██████████ ALERT BAY
City/Area : Type :
Source : s.19(1)

Specimen

Treatment: Ph Level: Free Chlorine Level: ppm
Nature :WATER Exams Req :Total Coliform
EHO :S. GREEN :Fecal Coliform

Collected:
Received :2001 DEC 6

RESULTS

Reported on 2001 DEC 10

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L:LESS THAN		
3. NO REQUISITION FORM RECEIVED WITH SAMPLE. ALL INFORMATION COPIED FROM SAMPLE BOTTLE LABEL		
4. NO DATE COLLECTED GIVEN		

For inquiries from medical personnel regarding laboratory results,
please contact the Central Inquiry Line at 604-660-5100.

Coliform test may NOT be valid if specimen was more than 30 hrs in transit

RESULTS OF ANALYSIS - Water



Sample ID	SG001 Cluxewe Campsite	SG002- Kwakuit- al	SG003- Namgis Health	SG004- Quatsino Band
Sample Date	01 09 18	01 09 18	01 09 18	01 09 18
ALS ID	1	2	3	4

Physical Tests

Colour	(CU)	9	<5	<5	23
Conductivity	(umhos/cm)	111	168	210	72
Total Dissolved Solids		73	95	125	56
Hardness	CaCO3	23.1	50.3	77.1	17.9
pH		7.73	8.18	8.30	7.48
Turbidity	(NTU)	0.7	0.6	1.5	1.6

Dissolved Anions

Alkalinity-Total		CaCO3	36	52	84	12
Chloride	Cl		8.5	3.7	9.9	10.8
Fluoride	F		<0.02	<0.02	<0.02	0.02
Sulphate	SO4		2	24	5	1

Nutrients

Nitrate Nitrogen		N	0.2	<0.1	1.2	<0.1
Nitrite Nitrogen		N	<0.1	<0.1	<0.1	<0.1

Total Metals

Aluminum	T-Al		0.11	0.02	<0.01	0.21
Antimony	T-Sb		<0.0005	<0.0005	<0.0005	<0.0005
Arsenic	T-As		<0.001	<0.001	<0.001	<0.001
Barium	T-Ba		<0.02	<0.02	<0.02	<0.02
Boron	T-B		<0.1	<0.1	<0.1	<0.1
Cadmium	T-Cd		<0.0002	<0.0002	<0.0002	<0.0002
Calcium	T-Ca		6.5	19.1	21.2	6.2
Chromium	T-Cr		<0.002	<0.002	<0.002	<0.002
Copper	T-Cu		0.07	0.36	0.02	0.11
Iron	T-Fe		0.12	<0.03	0.11	0.22
Lead	T-Pb		0.002	<0.001	<0.001	0.003
Magnesium	T-Mg		1.7	0.6	5.8	0.6
Manganese	T-Mn		0.088	0.005	0.002	0.009
Mercury	T-Hg		<0.0002	<0.0002	<0.0002	<0.0002
Potassium	T-K		0.3	<0.1	1.1	<0.1
Selenium	T-Se		<0.001	<0.001	<0.001	<0.001
Sodium	T-Na		11.0	11.8	9.2	5.7
Uranium	T-U		0.0002	<0.0001	<0.0001	<0.0001
Zinc	T-Zn		<0.05	<0.05	<0.05	<0.05

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except for pH, Colour (CU),
 Conductivity (umhos/cm), and Turbidity (NTU).
 < = Less than the detection limit indicated.

BC Centre for
Disease Control
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BCCDC LABORATORY SERVICES
655 12th Avenue West
Vancouver, B.C. V5Z 4R4

Fax: (604) 660-6073

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed : 2000 SEP 25

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Requisition : A0WW027487
Submitter Ref :

Specimen Submitter

: 342-HEALTH CANADA (CAMPBELL RI

Site Information

Code/Name : 02L3242 - 02L3242
Site Desc : 4250, WHE-LA-LA-U OFFICE, KITCHEN TAP, ALERT BAY
City/Area : Type : COM.W.S.
Source : Well

Specimen

Treatment : UNTREATED Ph Level : Free Chlorine Level : ppm
Nature : WATER Exams Req : Total Coliform
): CAROL MACRAE : Fecal Coliform

Collected : 2000 SEP 20
Received : 2000 SEP 21

RESULTS

Reported on 2000 SEP 25

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L: LESS THAN		

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For inquiries from medical personnel regarding laboratory results, please contact the Central Inquiry Line at 604-660-5100.

Specimen was 24 hours in transit

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The Province's centre of expertise in communicable disease control and provider of special support services.

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed :2000 SEP 25

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Requisition :A0WW027486
Submitter Ref :

Specimen Submitter

:342-HEALTH CANADA (CAMPBELL RI

Site Information

Code/Name :02L3238 - 02L3238
Site Desc :4146, NIMPKISH BAND OFFICE, BATHROOM TAP, ALERT BAY
City/Area : Type :COM.W.S.
Source :Well

Specimen

Treatment :UNTREATED Ph Level :Free Chlorine Level :ppm
Nature :WATER Exams Req :Total Coliform
 : CAROL MACRAE :Fecal Coliform

Collected :2000 SEP 20
Received :2000 SEP 21

RESULTS

Reported on 2000 SEP 25

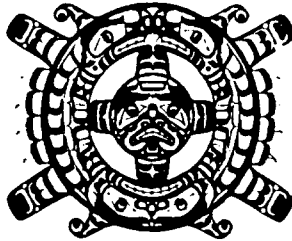
<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L:LESS THAN		

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please contact the Central Inquiry Line at 604-660-5100.

Specimen was 24 hours in transit

First Nations Health Centre
Kwakiutl District Council
8755 Granville Street
P.O. Box 831
Port Hardy, BC VON 2P0
Telephone: 250-949-7373 Fax: 250-949-2374



Faxed.
Nov 16
C.M.

Facimile Transmission

Date: Nov. 16, 2000 No. of pages to follow: 3

Confidential: Yes No

Urgent: Yes No

Sent to: Cyril Mountain
Housing Officer
Alert Bay Fax: 974-5900

From: Carol MacLae
Environmental Health

Comments:

For your information. Water
results for bacteriological
analysis: Satisfactory.

***Not counting cover sheet, if you do not receive ALL PAGES, please telephone us immediately at 250-949-7373, thank you.

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed : 2000 SEP 25

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Requisition : A0WW027487
Submitter Ref :

Specimen Submitter

: 342-HEALTH CANADA (CAMPBELL RI*

Site Information

Code/Name : 02L3242 - 02L3242

Site Desc : 4250, WHE-LA-LA-U OFFICE, KITCHEN TAP, ALERT BAY

Locality/Area : Type : COM.W.S.

Source : Well

Specimen

Treatment : UNTREATED

Nature : WATER

Ph Level : Free Chlorine Level : ppm
Exams Req : Total Coliform

Collector : CAROL MACRAE : Fecal Coliform

Collected : 2000 SEP 20

Received : 2000 SEP 21

SULTS

Reported on 2000 SEP 25

Test

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml

L: LESS THAN

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Specimen was 24 hours in transit

Centre for
Control

BCCDC LABORATORY SERVICES
655 12th Avenue West
Vancouver, B.C. V5Z 4R4

Fax: (604) 660-6073

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed : 2000 SEP 25

Requisition : A0WW027486
Submitter Ref :

Specimen Submitter

: 342-HEALTH CANADA (CAMPBELL RI*

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Information

Specimen Name : 02L3238 - 02L3238

Specimen Desc : 4146, NIMPKISH BAND OFFICE, BATHROOM TAP, ALERT BAY

Specimen Area : Type : COM.W.S.

Specimen Source : Well

Specimen

Specimen Treatment : UNTREATED

Specimen Source : WATER

Ph Level : Free Chlorine Level : ppm
Exams Req : Total Coliform

Specimen Source : CAROL MACRAE

Specimen Source : Fecal Coliform

Specimen Collected : 2000 SEP 20

Specimen Received : 2000 SEP 21

MLTS

Reported on 2000 SEP 25

Test

- | | | |
|---|----|----------------|
| 1. Total Coliform (Membrane Filtration) | L1 | TC Count/100ml |
| Fecal Coliform (Membrane Filtration) | L1 | FC Count/100ml |
| L: LESS THAN | | |

Result

Units

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Specimen was 24 hours in transit

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005419

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed : 1999 MAY 8

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Requisition : 99WW004180
Submitter Ref :

Specimen Submitter

: 342-HEALTH CANADA (CAMPBELL RI)

Site Information

Code/Name : 92B4140 - 92B4140

Site Desc : NIMPKISH HEALTH CENTRE, TAP, DRINKING

City/Area :

Source : Well

Type : COM.W.S.

Specimen

Treatment : UNTREATED

Nature : WATER

Ph Level : Free

Exams Req : Total Coliform

Chlorine Level : ppm

EHO : D. HAYES

: Fecal Coliform

Collected : 1999 MAY 5

Received : 1999 MAY 7

RESULTS

Reported on 1999 MAY 8

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L: LESS THAN		

DON'T WAIT FOR THESE RESULTS TO ARRIVE IN THE MAIL!

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For inquiries from medical personnel regarding laboratory results, please contact the Central Inquiry Line at 604-660-5100.

Specimen was 48 hours in transit

tre for
e Control
ety

PROVINCIAL LABORATORY
B.C. CENTRE FOR DISEASE CONTROL
655 12th Avenue West
Vancouver, B.C. V5Z 4R4

Fax: (604)660-6073

ENVIRONMENTAL
BACTERIOLOGY
Phone Number :

Printed : 1999 MAY 8

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Requisition : 99WW004180
Submitter Ref :

Specimen Submitter

: 342-HEALTH CANADA (CAMPBELL RI*

Information

Name : 92B4140 - 92B4140
Desc : NIMPKISH HEALTH CENTRE, TAP, DRINKING
y/Area : Type : COM.W.S.
ce : Well

imen
atment : UNTREATED Ph Level : Free Chlorine Level : ppm
re : WATER Exams Req : Total Coliform

: D. HAYES : Fecal Coliform

ected : 1999 MAY 5
eived : 1999 MAY 7

ULTS

orted on 1999 MAY 8

Test	Result	Units
Total Coliform (Membrane Filtration)	L1	TC Count/100ml
Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L: LESS THAN		

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ase contact the Central Inquiry Line at 604-660-5100.

Specimen was 48 hours in transit

THE B.C. CENTRE FOR DISEASE CONTROL

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ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed :2001 DEC 10

Requisition :A1WW048249

Submitter Ref :

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Specimen Submitter

:342-HEALTH CANADA (CAMPBELL RI)

Site Information

Code/Name :02R8311 - 02R8311
Site Desc :ALERT BAY
City/Area : Type :
Source : s.19(1)

Specimen

Treatment: Ph Level: Free Chlorine Level: ppm
Nature :WATER Exams Req :Total Coliform
WHO :S. GREEN :Fecal Coliform

Collected:

Received :2001 DEC 6

RESULTS

Reported on 2001 DEC 10

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L:LESS THAN		
3. NO REQUISITION FORM RECEIVED WITH SAMPLE. ALL INFORMATION COPIED FROM SAMPLE BOTTLE LABEL		
4. NO DATE COLLECTED GIVEN		

For inquiries from medical personnel regarding laboratory results,
please contact the Central Inquiry Line at 604-660-5100.

Coliform test may NOT be valid if specimen was more than 30 hrs in transit

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed :2001 DEC 10

Requisition :A1WW048250

Submitter Ref :

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Specimen Submitter

:342-HEALTH CANADA (CAMPBELL RI:

Site Information

Code/Name :02R8312 - 02R8312
Site Desc : NAINGIS BAND
City/Area : Type :
Source : s.19(1)

Specimen

Treatment: Ph Level: Free Chlorine Level: ppm
Nature :WATER Exams Req :Total Coliform
WHO :S. GREEN :Fecal Coliform

Collected:

Received :2001 DEC 6

RESULTS

Reported on 2001 DEC 10

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L:LESS THAN		
3. NO REQUISITION FORM RECEIVED WITH SAMPLE. ALL INFORMATION COPIED FROM SAMPLE BOTTLE LABEL		
4. NO DATE COLLECTED GIVEN		

For inquiries from medical personnel regarding laboratory results,
please contact the Central Inquiry Line at 604-660-5100.

Coliform test may NOT be valid if specimen was more than 30 hrs in transit

For Sept 28 101

B.C. Centre for
Disease Control
Society

BCCDC LABORATORY SERVICES
655 12th Avenue West
Vancouver, B.C. V5Z 4R4

Fax: (604) 660-6073

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed : 2001 SEP 24

Requisition : A1WW034996

Submitter Ref :

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Specimen Submitter

: 342-HEALTH CANADA (CAMPBELL RIVER)

Site Information

Code/Name : 02Q6191 - 02Q6191
Site Desc : NAMGIS HEALTH CENTRE
City/Area : Type : COM.W.S.
Source : Well

Specimen

Treatment: UNTREATED
Nature : WATER
Ph Level: Free Chlorine Level: ppm
Exams Req : Total Coliform
EHO : S. GREEN : Fecal Coliform

Collected: 2001 SEP 19
Received: 2001 SEP 20

RESULTS

Reported on 2001 SEP 24

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L: LESS THAN		

For inquiries from medical personnel regarding laboratory results,
please contact the Central Inquiry Line at 604-660-5100.

Specimen was 24 hours in transit

BCCDC LABORATORY SERVICES

The Province's centre of expertise in communicable disease control and provider of specialty health support services.

No. N5814

RESULTS OF ANALYSIS - Water

Sample ID	SG001	SG002-	SG003-	SG004-
	Cluxewe	Kwakuit-	Namgis	Quatsino
	Campsite	al	Health	Band
Sample Date	01 09 18	01 09 18	01 09 18	01 09 18
ALS ID	1	2	3	4

Physical Tests

Colour	(CU)	9	<5	<5	23
Conductivity	(umhos/cm)	111	168	210	72
Total Dissolved Solids		73	95	125	56
Hardness	CaCO3	23.1	50.3	77.1	17.9
pH		7.73	8.18	8.30	7.48
Turbidity	(NTU)	0.7	0.6	1.5	1.6

Dissolved Anions

Alkalinity-Total		CaCO3	36	52	84	12
Chloride	Cl		8.5	3.7	9.9	10.8
Fluoride	F		<0.02	<0.02	<0.02	0.02
Sulphate	SO4		2	24	5	1

Nutrients

Nitrate Nitrogen		N	0.2	<0.1	1.2	<0.1
Nitrite Nitrogen		N	<0.1	<0.1	<0.1	<0.1

Total Metals

Aluminum	T-Al	0.11	0.02	<0.01	0.21
Antimony	T-Sb	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic	T-As	<0.001	<0.001	<0.001	<0.001
Barium	T-Ba	<0.02	<0.02	<0.02	<0.02
Boron	T-B	<0.1	<0.1	<0.1	<0.1
Cadmium	T-Cd	<0.0002	<0.0002	<0.0002	<0.0002
Calcium	T-Ca	6.5	19.1	21.2	6.2
Chromium	T-Cr	<0.002	<0.002	<0.002	<0.002
Copper	T-Cu	0.07	0.36	0.02	0.11
Iron	T-Fe	0.12	<0.03	0.11	0.22
Lead	T-Pb	0.002	<0.001	<0.001	0.003
Magnesium	T-Mg	1.7	0.6	5.8	0.6
Manganese	T-Mn	0.088	0.005	0.002	0.009
Mercury	T-Hg	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	T-K	0.3	<0.1	1.1	<0.1
Selenium	T-Se	<0.001	<0.001	<0.001	<0.001
Sodium	T-Na	11.0	11.8	9.2	5.7
Uranium	T-U	0.0002	<0.0001	<0.0001	<0.0001
Zinc	T-Zn	<0.05	<0.05	<0.05	<0.05

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except for pH, Colour (CU),
 Conductivity (umhos/cm), and Turbidity (NTU).
 < = Less than the detection limit indicated.

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed :2001 FEB 24

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Requisition :A0WW050636
Submitter Ref :

Specimen Submitter

:342-HEALTH CANADA (CAMPBELL RI

Site Information

Code/Name :92B4140 - 92B4140

Site Desc :NIMPKISH HEALTH CENTRE, TAP, DRINKING

City/Area : Type :COM.W.S.

Source :Well

Specimen

Treatment :UNTREATED

Ph Level :Free Chlorine Level :ppm

Nature :WATER

Exams Req :Total Coliform

EHO :D. HAYES

:Fecal Coliform

Collected :2001 FEB 22

Received :2001 FEB 23

RESULTS

Reported on 2001 FEB 24

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L:LESS THAN		

DON'T WAIT FOR THESE RESULTS TO ARRIVE IN THE MAIL!

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For inquiries from medical personnel regarding laboratory results, please contact the Central Inquiry Line at 604-660-5100.

Specimen was 24 hours in transit



RESULTS OF ANALYSIS - Water

File No. M7133

Sample ID	Nimkish
	Band
Sample Date	01 02 22

Physical Tests

Colour	(CU)	<5
Conductivity	(umhos/cm)	204
Total Dissolved Solids		109
Hardness	CaCO3	72.6
pH		7.73
Turbidity	(NTU)	0.3

Dissolved Anions

Alkalinity-Total	Cl	CaCO3	83
Chloride	F		9.0
Fluoride	SO4		0.02
Sulphate			5

Nutrients

Nitrate Nitrogen	N	1.1
Nitrite Nitrogen	N	<0.1

Total Metals

Aluminum	T-Al	<0.005
Arsenic	T-As	0.0003
Barium	T-Ba	0.001
Boron	T-B	<0.05
Cadmium	T-Cd	<0.0002
Calcium	T-Ca	21.1
Chromium	T-Cr	<0.001
Copper	T-Cu	0.045
Iron	T-Fe	<0.03
Lead	T-Pb	<0.001
Magnesium	T-Mg	4.86
Manganese	T-Mn	<0.001
Mercury	T-Hg	<0.00005
Potassium	T-K	1.09
Selenium	T-Se	<0.001
Sodium	T-Na	9.60
Uranium	T-U	0.00007
Zinc	T-Zn	<0.005

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except for pH, Colour (CU),
 Conductivity (umhos/cm), and Turbidity (NTU).
 < = Less than the detection limit indicated.

ENVIRONMENTAL
BACTERIOLOGY

Phone Number :

Printed : 2002 MAR 27

Requisition : A1WW064344
Submitter Ref :

HEALTH CANADA (CAMPBELL RIVER) - 342
OCCUPATIONAL & ENVIRONMENTAL HEALTH
1180 IRONWOOD ST SUITE 119
CAMPBELL RIVER BC V9W 5P7

Specimen Submitter
: 342-HEALTH CANADA (CAMPBELL RI

Site Information

Code/Name : 02T2731 - 02T2731
Site Desc : NANIGISI HEALTH CENTRE
City/Area :
Source : Well Type : COM.W.S.

Specimen

Treatment: UNTREATED
Nature : WATER
Ph Level:
Exams Req : Total Coliform
Free Chlorine Level: ppm
EHO : D.HAYES
: Fecal Coliform

Collected: 2002 MAR 24
Received : 2002 MAR 26

RESULTS

Reported on 2002 MAR 27

<u>Test</u>	<u>Result</u>	<u>Units</u>
1. Total Coliform (Membrane Filtration)	L1	TC Count/100ml
2. Fecal Coliform (Membrane Filtration)	L1	FC Count/100ml
L: LESS THAN		

Coliform test may NOT be valid if specimen was more than 30 hrs in transit
Specimen was 48 hours in transit