

Invoice Information		Report Information (if differs from invoice)		Project Information (where applicable)		Turnaround Time (TAT) Required																
Company Name: <u>McElhannay Eng</u>		Company Name: <u>McElhannay Eng</u>		Quotation #:		<input type="checkbox"/> Regular TAT 5 days (Must analyze) PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS																
Contact Name: <u>Mark DeBogno</u>		Contact Name: <u>Mark DeBogno</u>		P.O. NUMBER:		Rush TAT (Surcharges will be applied) <input type="checkbox"/> Same Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Days																
Address: <u>1571A Cedar ST</u>		Address: <u>1371B Cedar St</u>		Project #:		Date Required:																
<u>Campbell Road on Van 206</u>		<u>Campbell Road on Van 206</u>		Site Location:		Rush Confirmation #:																
Phone: <u>250 287 7799</u>		Phone: <u>250 287 7799</u>		Site #:																		
Email: <u>MarkDeBogno@mcElhannay.com</u>		Email: <u>MarkDeBogno@mcElhannay.com</u>		Sampled By:																		
Regulatory Criteria		Special Instructions		Analysis Requested										LABORATORY USE ONLY								
<input type="checkbox"/> BC OIR Soil <input type="checkbox"/> BC OIR Water <input type="checkbox"/> CCME (Specify) <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Drinking Water <input type="checkbox"/> BC Water Quality		<input type="checkbox"/> Return Cooler <input type="checkbox"/> Ship Sample Bottles (Please Specify)		Conductivity TOC Chloride Turbidity Nitrate Total Organic Carbon Tannin and Lignin Resin and Fatty Acids Phenols UPPH/MS and PAH VOC Pesticides Microbes										CUSTODY SEAL Y / N Present Intact COOLING MEDIA PRESENT Y / N COMMENTS								
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM				# OF CONTAINERS SUBMITTED HOLD - DO NOT ANALYZE										For EACH sample fill: 5 x 1L glass Amber 2 x 500ml plastic 2 x 120 ml plastic with H2SO4 2 x 40ml glass (no headspace) 2 x 120ml glass Amber								
Sample Identification		Lab Identification	Date Sampled (YYYY/MM/DD)	Time Sampled (HH:MM)	Matrix	pH	Conductivity	TOC	Chloride	Turbidity	Nitrate	Total Organic Carbon	Tannin and Lignin	Resin and Fatty Acids	Phenols	UPPH/MS and PAH	VOC	Pesticides	Microbes	# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE	COMMENTS
1	<u>Community Well #1</u>		<u>15/12/22</u>	<u>09:30</u>		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
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REQUISITIONED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)																
<u>Heidi Roth</u>		<u>15/12/22</u>	<u>09:30</u>	<u>[Signature]</u>	<u>2025/12/22</u>	<u>15:45</u>																

22-Dec-15 15:45

Debbie Nordbruger

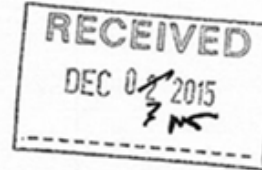
 B5B3143

CBL

Excellent health and care, for everyone,
everywhere, every time.



December 2, 2015



Registered

Village of Tahsis
CAO – Mark Tatchell
P.O.Box 219
977 South Maquinna Street
Tahsis, BC V0P 1X0

Dear Mr. Mark Tatchell:

Re: Well Head Protection Plan and monitoring for potential impacts, or lack of impacts, from the old abandoned landfill

Regarding the Well Head Protection Plan proposed in conditions of the Villages water system operating permit. Our office is looking to the Village to develop a plan to monitor for potential impacts or lack of impacts from the old abandoned landfill. It is proposed this plan be completed by January 31, 2017.

To assist with developing monitoring our office would recommend considering the following monitoring in the proposed planning.

The monitoring plan can include but not necessarily be limited to the following options:

- Monthly monitoring of Conductivity or Total Dissolved Solids (TDS) with a hand held meter.
 - Significant changes in water quality could warrant additional monitoring and investigation.
- Periodic monitoring of the following can be used as indicators:
 - Chloride - Significant increase could be attributed to leachate.
 - Nitrate and Sulfate – Significant increases could be due to anaerobic bacterial activity from degradation of wastes.
 - Total Organic Carbons – Significant increase could be due to decaying organic matter, and manmade sources including detergents, pesticides, fertilizers, industrial chemicals, or chlorinated organics.
 - Note: This type of testing should include pH testing to compare to previous baseline testing.
- If routine water quality testing, taste or appearance indicates a significant change in quality. Additional tests that could be considered includes:
 - Tannins, lignin, resin acids, phenols, aggregate organic parameters (L/HEPH), volatile organic compounds, polycyclic aromatic hydrocarbons and pesticides, herbicides and fungicides.

Health Protection and Environmental Services
#200 – 1100 Island Highway, Campbell River, BC V9W 8C6 Canada

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viha.ca


Village of Tahsis
December 2, 2015
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It is recommended that baseline testing be collected before the well is put into production, and then to perform periodic monitoring for potential changes. Some of the data already collected for the source approval would help serve this purpose.

Note: These potential indicators are based on comments provided by the Village's contracted Hydrogeological Engineer report dated August 7th 2014 "Tahsis - Groundwater Quality and the Old Mill Landfill", and comments from the Public Health Engineer.

If you have any questions please feel free to contact our office at (250)850-2110.

Sincerely,



Joseph Baratta
Environmental Health Officer

c.c.: Charlene Mackinnon - Island Health, Senior Environmental Health Officer