

# Technical Memorandum

February 04, 2022

To	Mark Tatchell (VoT)	Tel	604-214-0510
Copy to	Christine Skirth (GHD)	Ref. No.	11218464
From	Natasha Turl, Rose Marie Rocca		
Subject	<b>Fall 2021 Monitoring Event Village of Tahsis Tahsis, British Columbia</b>		

Environmental monitoring was completed at the Village of Tahsis (VoT) by GHD staff on October 19 and November 17 and 24, 2021 (Monitoring Event). Groundwater samples were collected from six monitoring locations as part of the Wellhead Protection Plan (WPP) to assess potential landfill derived alteration to the aquifer, which currently supplies drinking water to the VoT. Surface water samples were collected from two monitoring locations as part of the WPP to characterize the potential for seasonal variation in water quality. The Site plan and monitoring locations are illustrated on Figure 1.

This memorandum (memo) has been prepared as part of the scope of work described in the GHD's letter entitled *Proposal for Groundwater Monitoring and Reporting Services, Drinking Water Wellhead Protection* dated September 14, 2020 (Proposal) and *Change Order #1* dated December 8, 2020 (Change Order).

## 1. Environmental Monitoring Program Description

The environmental monitoring program includes:

- Semi-annual sample collection at four groundwater wells (MW1S, MW1D, MW2S, MW2D) installed within the capture zone of the VoT's drinking water Production Well. These wells are located 1,500 to 1,650 metres (m) downgradient of a historical landfill area containing waste originating from the operation of a sawmill in the village and upgradient of the Production Well.
- Annual sample collection at the Production Well installed near the intersection of McKelvie Road and Jewitt Street, which is located 1,750 m downgradient of the historical landfill.
- Annual sample collection at the Test Well #2 installed at the intersection of Boston Street and Jewitt Drive, downgradient of the Production Well.
- Annual sample collection at two surface water monitoring locations in McKelvie Creek (SW01-21) and the Tahsis River (SW02-21).

## 2. Monitoring Event Summary

The following tasks were completed during the Monitoring Events:

- Water level monitoring, field parameter measurement, sample collection, and analytical testing of groundwater at MW1D, MW1S, MW2D, MW2S, Production Well, and Test Well #2.
- Field parameter measurement, sample collection, and analytical testing of surface water at SW01-21 and SW02-21.
- Analytical testing of a field blank as part of the quality assurance/quality control (QA/QC) program.
- Field sample key (FSK) preparation and environmental database updates.
- Verification of the analytical data by a qualified chemist as part of the QA/QC program.

### **3. Analytical Services and Data Verification**

Analytical services were provided by Bureau Veritas (BV) of Burnaby, BC, with results provided directly to GHD. The FSK and laboratory reports generated for the Monitoring Events are included in Attachment 1.

A qualified chemist completed a data verification to assess laboratory and field QA/QC measures. The QA/QC memo presented in Attachment 2 reports that the data exhibited acceptable levels of accuracy with the qualifications noted.

### **4. Water Quality**

#### **4.1 Groundwater Quality Results**

Groundwater analytical results have been assessed to the BC Contaminated Site Regulation, Schedule 3.2 Generic Numerical Water Standards (CSR) for drinking water (DW) and freshwater aquatic life (FAW). The CSR DW and FAW standards are appropriate for evaluating groundwater quality based on the following rationale:

- Protocol 21 for Contaminated Sites: *Water Use Determination* (ENV, October 31, 2017) states that both current and future drinking water use must be considered when determining whether CSR DW standards apply. Currently the VoT obtains drinking water from the Production Well; therefore, the drinking water exposure pathway is applicable and DW standards apply.
- Protocol 21 also states that CSR FAW standards apply to sites located within 500 m of an aquatic receiving environment (i.e., a surface water body containing aquatic life) unless it can be demonstrated that groundwater does not flow to that receiving environment. The CSR FAW standards are applicable due to the proximity of the Tahsis River west of select monitoring wells (i.e., MW1 and MW2 are located approximately 250 m from the high-water mark of the Tahsis River).

The groundwater analytical results assessed to the applicable CSR FAW and DW standards are presented in Table 1 and Table 2.

The groundwater concentrations of samples collected from MW1D, MW1S, MW2D, MW2S, and the Production Well were less than the applicable CSR standards. These results indicate that there are no discernible landfill contaminants present in groundwater at these locations and the VoT drinking water is protective of human and aquatic health.

The groundwater concentrations of samples collected at Test Well #2 were less than the applicable CSR standards, with the exception of:

- Total Arsenic (DW)
- Total Chromium (FAW)
- Total Iron (DW)

Due to the location of Test Well #2 being downgradient of the Production Well, the source of total arsenic, chromium and iron is not landfill derived. In addition, Test Well #2 is outside of the Production Well capture zone indicating groundwater quality will not impact the VoT's drinking water quality.

## 4.2 Surface Water Quality Results

Surface water analytical results have been assessed to the BC Water Quality Guidelines (WQGs) for DW and FAW and are presented in Table 3 and Table 4.

WQGs include both short-term maximum (STM) and long-term average (LTA) guidelines and may apply to dissolved or total parameter concentrations. The LTA guidelines are generally more stringent than the STM guidelines. WQGs are also often dependent on background conditions, hardness, chloride, calcium pH, and/or temperature. Surface water quality results have been assessed to the most stringent guideline available for each parameter.

Surface water concentrations of samples collected from SW01-21 and SW02-21 were less than the applicable BC WQGs during the Monitoring Events, with the following exception at SW01-21 (McKelvie Creek):

- Total alkalinity (FAW)

The potential for seasonal variability in water quality cannot be assessed at this time, a more comprehensive data set is required.

## 5. Recommendations

Continue the long-term monitoring program, as described in the WPP.

If you have any questions or require further clarification, please do not hesitate to contact GHD.

Regards



Natasha Turl, B.Sc., EPt  
Environmental Scientist



Rose Marie Rocca, P. Geo  
Project Manager



# Tables











# **Attachment A**

**FSK and Laboratory Reports**

Sample Name	Location	Date	Time	Type	Matrix	WaterDepth	DepthUnit	DryYesNo	MeasuredDepth	Notes	Temperature	Temperature Unit	Field pH (s.u.)	ORP	ORP units	Conductivity	Conductivity Unit	Turbidity (NTU)	TDS	TDS Units
WG-11218464-291021-NT-01	MW20-01D	10/29/2021	11:00	N	WG	4.252	m BTOR	No	6.44	No odour, murky	8.88	deg C	7.73	202	millivolts	95	uS/cm	4.7	62	mg/L
WG-11218464-291021-NT-02	MW20-01S	10/29/2021	12:00	N	WG	4.586	m BTOR	No	10.08	Clear, no odour	8.91	deg C	7.95	206	millivolts	80	uS/cm	1.8	52	mg/L
WG-11218464-291021-NT-03	MW20-02S	10/29/2021	12:30	N	WG	5.382	m BTOR	No	8.4	Yellow tinge, no odour	12.65	deg C	5.73	145	millivolts	61	uS/cm	1.4	40	mg/L
WG-11218464-291021-NT-04	MW20-02D	10/29/2021	13:15	N	WG	5.124	m BTOR	No	24.06	Clear, no odour	11.68	deg C	7.73	129	millivolts	55	uS/cm	0.9	36	mg/L
WG-11218464-291021-NT-07	Field Blank	10/29/2021	16:00	FB	WGQ															
WS-11218464-291021-NT-01	SW01-21	10/29/2021	14:00	N	WS			No		Very clear, moderate i	9.02	deg C	7.89	154	millivolts	22	uS/cm	0.1	15	mg/L
WS-11218464-291021-NT-02	SW02-21	10/29/2021	14:30	N	WS			No		banks eroded, vegeta	10.28	deg C	7.66	175	millivolts	51	uS/cm	0.4	33	mg/L
WG-11218464-171121-KH-01	Production Well	11/17/2021	10:30	N	WG			No		purged 65m3 before s	1.12	deg C	7.20	216	millivolts	96	uS/cm	0.0	62	mg/L
WG-11218464-171121-KH-02	Test Well #2	11/17/2021	15:20	N	WG	3.050	m BTOR	No	22.400	slightly grey/no odour	9.14	deg C	9.90	-6	millivolts	107	uS/cm	41.3	69	mg/L
WG-11218464-241121-KH-01	Production Well	11/24/2021	11:20	N	WG			No		Pumped 250+ litres be	7.46	deg C	6.59	690	millivolts	111	uS/cm	0.0	72	mg/L
WG-11218464-241121-KH-02	Test Well #2	11/24/2021	12:20	N	WG	3.172	m BTOR	No	21.03	Clear/slight sour odou	8.91	deg C	9.04	235	millivolts	134	uS/cm	24.6	87	mg/L



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VERITAS

Your P.O. #: 73523096  
 Your Project #: 11218464  
 Site Location: VILLAGE OF TAHSIS  
 Your C.O.C. #: 651224-02-01

**Attention: 11218464 Distribution**

GHD Limited  
 455 PHILLIP STREET  
 WATERLOO, ON  
 CANADA N2L 3X2

**Report Date:** 2021/11/16  
**Report #:** R3100002  
**Version:** 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C183595**

**Received: 2021/10/30, 09:00**

Sample Matrix: Water  
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	2	N/A	2021/11/02	BBY6SOP-00026	SM 23 2320 B m
Chloride/Sulphate by Auto Colourimetry	2	N/A	2021/11/04	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Coliform by membrane filtration	2	N/A	2021/10/30	BBY4SOP-00001	SM 23 9222 m
Conductivity @25C	2	N/A	2021/11/02	BBY6SOP-00026	SM 23 2510 B m
E.coli by membrane filtration in Water	2	N/A	2021/10/30	BBY4SOP-00001	SM 23 9222 m
Fluoride	2	N/A	2021/11/04	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (3)	2	N/A	2021/11/05	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	2	N/A	2021/11/03	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (4)	2	2021/11/01	2021/11/01	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	2	2021/11/01	2021/11/02	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2021/11/03	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (4)	2	N/A	2021/11/02	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	2	2021/10/30	2021/11/05	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	2	2021/11/03	2021/11/04	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N (Total)	2	N/A	2021/11/02	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	2	N/A	2021/10/30	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	2	N/A	2021/10/30	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	2	N/A	2021/10/30	BBY WI-00033	Auto Calc
PAH in Water by GC/MS (SIM)	2	2021/11/03	2021/11/03	BBY8SOP-00021	BCMOE BCLM Jul2017m
Total LMW, HMW, Total PAH Calc (5)	2	N/A	2021/11/04	BBY WI-00033	Auto Calc
Polychlorinated Biphenyls in Water (1)	2	2021/11/03	2021/11/03	CAL SOP-00149	EPA 8082A R1 m
Total PCBs in Water (1)	2	N/A	2021/11/04		Auto Calc
Filter and HNO3 Preserve for Metals	2	N/A	2021/10/30	BBY7 WI-00004	SM 23 3030B m
pH @25°C (6)	2	N/A	2021/11/02	BBY6SOP-00026	SM 23 4500-H+ B m
Resin and Fatty Acids (1)	1	2021/11/03	2021/11/05	CAL SOP-00099	AE129.0
Resin and Fatty Acids (1)	1	2021/11/03	2021/11/06	CAL SOP-00099	AE129.0
Turbidity	2	N/A	2021/11/01	BBY6SOP-00027	SM 23 2130 B m
OC Pesticides (Selected) & PCB (2, 7)	2	2021/11/02	2021/11/07	CAM SOP-00307	EPA 8081A/ 8082B m
OC Pesticides Summed Parameters (2)	2	N/A	2021/11/08	CAM SOP-00307	EPA 8081A/8082B m
GC/MS Analysis of OP Pesticides (2)	2	2021/11/05	2021/11/06	CAM SOP-00301	EPA 8270 m



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**Attention: 11218464 Distribution**

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CANADA N2L 3X2

**Report Date:** 2021/11/16  
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**Version:** 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C183595**

**Received: 2021/10/30, 09:00**

Sample Matrix: Water  
# Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Phenoxy Acid Herbicides (2)	2	2021/11/04	2021/11/05	CAM SOP-00330	EPA 8270 m
Triazine Herbicides (2)	2	2021/11/05	2021/11/08	CAM SOP-00301	EPA 8270 m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) This test was performed by Bureau Veritas Campobello, 6740 Campobello Road , Mississauga, ON, L5N 2L8

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(5) Total PAHs in Water include: Quinoline, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Acridine, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b&j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene.

(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

(7) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane



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**Report Date:** 2021/11/16  
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**Version:** 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C183595**

**Received: 2021/10/30, 09:00**

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Thomas Pinchin, Project Solutions Representative  
Email: Thomas.Pinchin@bureauveritas.com

Phone# (604) 734 7276

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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VERITAS

Bureau Veritas Job #: C183595

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

## RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		AJL259	AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-01 Lab-Dup	WS-11218464-291021- NT-02	RDL	MDL	QC Batch

### ANIONS

Nitrite (N)	mg/L	<0.0050	N/A	<0.0050	0.0050	0.0050	A408175
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### Calculated Parameters

Filter and HNO3 Preservation	N/A	FIELD	N/A	FIELD	N/A	N/A	ONSITE
Nitrate (N)	mg/L	0.036	N/A	0.076	0.020	N/A	A407835

### Misc. Inorganics

Conductivity	uS/cm	29	N/A	64	2.0	N/A	A412527
pH	pH	7.09	N/A	7.53	N/A	N/A	A412478

### Anions

Alkalinity (PP as CaCO3)	mg/L	<1.0	N/A	<1.0	1.0	N/A	A412526
Alkalinity (Total as CaCO3)	mg/L	11	N/A	30	1.0	N/A	A412526
Bicarbonate (HCO3)	mg/L	13	N/A	36	1.0	N/A	A412526
Carbonate (CO3)	mg/L	<1.0	N/A	<1.0	1.0	N/A	A412526
Dissolved Fluoride (F)	mg/L	<0.050	<0.050	<0.050	0.050	N/A	A413988
Hydroxide (OH)	mg/L	<1.0	N/A	<1.0	1.0	N/A	A412526
Dissolved Chloride (Cl)	mg/L	1.3	N/A	1.3	1.0	N/A	A413645
Dissolved Sulphate (SO4)	mg/L	1.6	N/A	1.7	1.0	N/A	A413645

### Nutrients

Total Ammonia (N)	mg/L	<0.015	N/A	<0.015	0.015	0.0040	A410600
Nitrate plus Nitrite (N)	mg/L	0.036	N/A	0.076	0.020	0.020	A408174

### Pesticides & Herbicides

Prometon	ug/L	<0.5	<0.5	<0.5	0.5	N/A	A421416
Simazine	ug/L	<3	<3	<3	3	N/A	A421416
Atrazine	ug/L	<1	<1	<1	1	N/A	A421416
Propazine	ug/L	<3	<3	<3	3	N/A	A421416
Metribuzin (Sencor)	ug/L	<3	<3	<3	3	N/A	A421416
Simetryn	ug/L	<0.5	<0.5	<0.5	0.5	N/A	A421416
Ametryn	ug/L	<3	<3	<3	3	N/A	A421416
Prometryn	ug/L	<3	<3	<3	3	N/A	A421416
Terbutryne	ug/L	<0.5	<0.5	<0.5	0.5	N/A	A421416

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



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GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		AJL259	AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-01 Lab-Dup	WS-11218464-291021- NT-02	RDL	MDL	QC Batch
Cyanazine (Bladex)	ug/L	<3	<3	<3	3	N/A	A421416
<b>Physical Properties</b>							
Turbidity	NTU	0.16	N/A	<0.10	0.10	N/A	A409910
<b>Surrogate Recovery (%)</b>							
2-Fluorobiphenyl	%	82	83	83	N/A	N/A	A421416
D14-Terphenyl (FS)	%	96	96	98	N/A	N/A	A421416
D5-NITROBENZENE (sur.)	%	78	85	83	N/A	N/A	A421416
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							
N/A = Not Applicable							



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Site Location: VILLAGE OF TAHSIS

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Sampler Initials: NT

### POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch
<b>Polychlorinated Biphenyls</b>						
Aroclor 1016	ug/L	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1221	ug/L	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1232	ug/L	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1242	ug/L	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1248	ug/L	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1254	ug/L	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1260	ug/L	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1262	ug/L	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1268	ug/L	<0.050	<0.050	0.050	N/A	A411650
Total PCB	mg/L	<0.000050	<0.000050	0.000050	N/A	A407983
<b>Surrogate Recovery (%)</b>						
NONACHLOROBIPHENYL (sur.)	%	73	87	N/A	N/A	A411650
RDL = Reportable Detection Limit						
N/A = Not Applicable						



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Site Location: VILLAGE OF TAHSIS

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Sampler Initials: NT

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch
<b>Pesticides &amp; Herbicides</b>						
Aldicarb	ug/L	<5.0	<5.0	5.0	N/A	A421417
Atrazine	ug/L	<1.0	<1.0	1.0	N/A	A421417
Bendiocarb	ug/L	<2.0	<2.0	2.0	N/A	A421417
Carbaryl	ug/L	<5.0	<5.0	5.0	N/A	A421417
Carbofuran	ug/L	<5.0	<5.0	5.0	N/A	A421417
Chlorpyrifos (Dursban)	ug/L	<2.0	<2.0	2.0	N/A	A421417
Cyanazine (Bladex)	ug/L	<5.0	<5.0	5.0	N/A	A421417
Demeton-S	ug/L	<2.0	<2.0	2.0	N/A	A421417
Diazinon	ug/L	<2.0	<2.0	2.0	N/A	A421417
Dichlorvos	ug/L	<2.0	<2.0	2.0	N/A	A421417
Dimethoate	ug/L	<2.0	<2.0	2.0	N/A	A421417
Ethion	ug/L	<1.0	<1.0	1.0	N/A	A421417
Fenchlorphos (Ronnel)	ug/L	<2.0	<2.0	2.0	N/A	A421417
Fenthion	ug/L	<1.0	<1.0	1.0	N/A	A421417
Fonofos	ug/L	<2.0	<2.0	2.0	N/A	A421417
Guthion (Azinphos-methyl)	ug/L	<1.0	<1.0	1.0	N/A	A421417
Malathion	ug/L	<2.0	<2.0	2.0	N/A	A421417
Metolachlor	ug/L	<5.0	<5.0	5.0	N/A	A421417
Mevinphos (Phosdrin)	ug/L	<2.0	<2.0	2.0	N/A	A421417
Parathion Ethyl	ug/L	<2.0	<2.0	2.0	N/A	A421417
Parathion methyl	ug/L	<2.0	<2.0	2.0	N/A	A421417
Phorate (Thimet)	ug/L	<1.0	<1.0	1.0	N/A	A421417
Phosmet	ug/L	<2.0	<2.0	2.0	N/A	A421417
Prometryn	ug/L	<1.0	<1.0	1.0	N/A	A421417
Simazine	ug/L	<2.0	<2.0	2.0	N/A	A421417
Terbufos	ug/L	<1.0	<1.0	1.0	N/A	A421417
Triallate	ug/L	<5.0	<5.0	5.0	N/A	A421417
Trifluralin	ug/L	<5.0	<5.0	5.0	N/A	A421417
<b>Surrogate Recovery (%)</b>						
2-Fluorobiphenyl	%	74	71	N/A	N/A	A421417
RDL = Reportable Detection Limit						
N/A = Not Applicable						



BUREAU  
VERITAS

Bureau Veritas Job #: C183595

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch
D14-Terphenyl (FS)	%	88	88	N/A	N/A	A421417
D5-NITROBENZENE (sur.)	%	84	77	N/A	N/A	A421417

RDL = Reportable Detection Limit  
N/A = Not Applicable



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Sampler Initials: NT

### PHENOXYALKYL ACID PESTICIDES/HERBICIDES (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch
<b>Pesticides &amp; Herbicides</b>						
2,4-D (BEE)	ug/L	<0.50	<0.50	0.50	N/A	A421418
Dicamba	ug/L	<0.50	<0.50	0.50	N/A	A421418
MCPP	ug/L	<0.50	<0.50	0.50	N/A	A421418
MCPA	ug/L	<0.50	<0.50	0.50	N/A	A421418
Dichlorprop	ug/L	<0.50	<0.50	0.50	N/A	A421418
2,4-D	ug/L	<0.50	<0.50	0.50	N/A	A421418
2,4,5-TP	ug/L	<0.50	<0.50	0.50	N/A	A421418
2,4,5-T	ug/L	<0.50	<0.50	0.50	N/A	A421418
2,4-DB	ug/L	<0.50	<0.50	0.50	N/A	A421418
Picloram	ug/L	<0.50	<0.50	0.50	N/A	A421418
<b>Surrogate Recovery (%)</b>						
2,4-Dichlorophenyl Acetic Acid	%	103	73	N/A	N/A	A421418
2,5-Dibromobenzoic Acid	%	98	62	N/A	N/A	A421418
4,4-Dibromobiphenyl	%	84	69	N/A	N/A	A421418
RDL = Reportable Detection Limit						
N/A = Not Applicable						



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Sampler Initials: NT

### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021-NT-01	WS-11218464-291021-NT-02	RDL	MDL	QC Batch
<b>Calculated Parameters</b>						
Aldrin + Dieldrin	ug/L	<0.005	<0.005	0.005	N/A	A421420
Chlordane (Total)	ug/L	<0.005	<0.005	0.005	N/A	A421420
DDT + Metabolites	ug/L	<0.005	<0.005	0.005	N/A	A421420
Heptachlor + Heptachlor epoxide	ug/L	<0.005	<0.005	0.005	N/A	A421420
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	0.005	N/A	A421420
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	0.005	N/A	A421420
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	0.005	N/A	A421420
Total Endosulfan	ug/L	<0.005	<0.005	0.005	N/A	A421420
<b>Pesticides &amp; Herbicides</b>						
a-BHC	ug/L	<0.005	<0.005	0.005	N/A	A421419
a-Chlordane	ug/L	<0.005	<0.005	0.005	N/A	A421419
b-BHC	ug/L	<0.005	<0.005	0.005	N/A	A421419
d-BHC	ug/L	<0.005	<0.005	0.005	N/A	A421419
Endosulfan I	ug/L	<0.005	<0.005	0.005	N/A	A421419
Endosulfan II	ug/L	<0.005	<0.005	0.005	N/A	A421419
Endosulfan Sulfate	ug/L	<0.005	<0.005	0.005	N/A	A421419
Endrin	ug/L	<0.005	<0.005	0.005	N/A	A421419
Endrin Aldehyde	ug/L	<0.005	<0.005	0.005	N/A	A421419
Endrin ketone	ug/L	<0.005	<0.005	0.005	N/A	A421419
Hexachlorobenzene	ug/L	<0.005	<0.005	0.005	N/A	A421419
Mirex	ug/L	<0.005	<0.005	0.005	N/A	A421419
o,p'-DDT	ug/L	<0.005	<0.005	0.005	N/A	A421419
Octachlorostyrene	ug/L	<0.005	<0.005	0.005	N/A	A421419
Toxaphene	ug/L	<0.2	<0.2	0.2	N/A	A421419
Lindane	ug/L	<0.003	<0.003	0.003	N/A	A421419
Heptachlor	ug/L	<0.005	<0.005	0.005	N/A	A421419
Aldrin	ug/L	<0.005	<0.005	0.005	N/A	A421419
Heptachlor Epoxide	ug/L	<0.005	<0.005	0.005	N/A	A421419
Oxychlordane	ug/L	<0.005	<0.005	0.005	N/A	A421419
g-Chlordane	ug/L	<0.005	<0.005	0.005	N/A	A421419
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Sampler Initials: NT

### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch
Dieldrin	ug/L	<0.005	<0.005	0.005	N/A	A421419
o,p'-DDE	ug/L	<0.005	<0.005	0.005	N/A	A421419
p,p'-DDE	ug/L	<0.005	<0.005	0.005	N/A	A421419
o,p'-DDD	ug/L	<0.005	<0.005	0.005	N/A	A421419
p,p'-DDD	ug/L	<0.005	<0.005	0.005	N/A	A421419
p,p'-DDT	ug/L	<0.005	<0.005	0.005	N/A	A421419
Methoxychlor	ug/L	<0.01	<0.01	0.01	N/A	A421419
Surrogate Recovery (%)						
2,4,5,6-Tetrachloro-m-xylene	%	84	82	N/A	N/A	A421419
Decachlorobiphenyl	%	93	89	N/A	N/A	A421419

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### MICROBIOLOGY (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch

#### Microbiological Param.

E. coli	CFU/100mL	<1	2	1	N/A	A408244
Total Coliforms	CFU/100mL	24	68	1	N/A	A408243

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N/A = Not Applicable



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Site Location: VILLAGE OF TAHSIS

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Sampler Initials: NT

### RESIN AND FATTY ACIDS BY GC-MS (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch

#### Misc. Organics

Decanoic acid (C10)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Undecanoic acid (C11)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Dodecanoic acid (C12)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Tetradecanoic acid (C14)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Hexadecanoic acid (C16)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Octadecanoic acid (C18)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Oleic acid (C18:1)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Linoleic acid (C18:2)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Linolenic acid (C18:3)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Eicosanoic acid (C20)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Docosanoic acid (C22)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
9,10-dichlorostearic acid (C18)	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Pimaric acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Sandaracopimaric acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Isopimaric acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Palustric acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Dehydroabietic acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Abietic acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
Neoabietic acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
14-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
12-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
12,14-dichlorodehydroabietic acid	mg/L	<0.0060	<0.0060	0.0060	N/A	A412143
* Total of Resin Acids Detected	mg/L	<0.060	<0.060	0.060	N/A	A412143
* Total of Fatty Acids Detected	mg/L	<0.072	<0.072	0.072	N/A	A412143

#### Surrogate Recovery (%)

HEPTADECANOIC ACID (sur.)	%	97	98	N/A	N/A	A412143
O-METHYLPODOCARPIC ACID (sur.)	%	124	124	N/A	N/A	A412143

RDL = Reportable Detection Limit

N/A = Not Applicable



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GHD Limited

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Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR DISSOLVED METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021-NT-01	WS-11218464-291021-NT-02	RDL	MDL	QC Batch
<b>Calculated Parameters</b>						
Dissolved Hardness (CaCO <sub>3</sub> )	mg/L	11.3	28.1	0.50	0.50	A407752
<b>Elements</b>						
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	0.0019	A409805
<b>Dissolved Metals by ICPMS</b>						
Dissolved Aluminum (Al)	ug/L	12.2	9.1	3.0	0.030	A409848
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	0.0020	A409848
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	0.10	0.010	A409848
Dissolved Barium (Ba)	ug/L	<1.0	<1.0	1.0	0.0020	A409848
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	0.0030	A409848
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	0.0010	A409848
Dissolved Boron (B)	ug/L	<50	<50	50	50	A409848
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	0.0020	A409848
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	0.020	A409848
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	0.20	0.20	A409848
Dissolved Copper (Cu)	ug/L	0.30	0.28	0.20	0.010	A409848
Dissolved Iron (Fe)	ug/L	<5.0	<5.0	5.0	0.040	A409848
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	0.0010	A409848
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	2.0	2.0	A409848
Dissolved Manganese (Mn)	ug/L	<1.0	<1.0	1.0	0.030	A409848
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	1.0	0.0020	A409848
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	0.010	A409848
Dissolved Phosphorus (P)	ug/L	<10	<10	10	1.0	A409848
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	0.10	0.0060	A409848
Dissolved Silicon (Si)	ug/L	2040	1870	100	0.30	A409848
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	0.0020	A409848
Dissolved Strontium (Sr)	ug/L	6.6	19.1	1.0	0.0020	A409848
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	0.010	0.010	A409848
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	0.0050	A409848
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	0.30	A409848
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	0.0010	A409848
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	0.020	A409848
RDL = Reportable Detection Limit						



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Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR DISSOLVED METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	0.050	A409848
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	0.0080	A409848
Dissolved Calcium (Ca)	mg/L	3.41	9.56	0.050	0.0010	A407753
Dissolved Magnesium (Mg)	mg/L	0.678	1.03	0.050	0.00050	A407753
Dissolved Potassium (K)	mg/L	<0.050	0.052	0.050	0.0020	A407753
Dissolved Sodium (Na)	mg/L	0.814	0.870	0.050	0.0010	A407753
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	3.0	1.0	A407753
RDL = Reportable Detection Limit						



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GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL259	AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-01 Lab-Dup	WS-11218464-291021- NT-02	RDL	MDL	QC Batch

#### Calculated Parameters

Total Hardness (CaCO3)	mg/L	11.2	N/A	26.6	0.50	0.50	A407751
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#### Elements

Total Mercury (Hg)	ug/L	<0.0019	N/A	<0.0019	0.0019	0.0019	A409977
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#### Total Metals by ICPMS

Total Aluminum (Al)	ug/L	18.8	19.7	17.1	3.0	0.030	A412420
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	0.0020	A412420
Total Arsenic (As)	ug/L	<0.10	<0.10	<0.10	0.10	0.010	A412420
Total Barium (Ba)	ug/L	<1.0	<1.0	<1.0	1.0	0.0020	A412420
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	0.0030	A412420
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	0.0010	A412420
Total Boron (B)	ug/L	<50	<50	<50	50	50	A412420
Total Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	0.010	0.0020	A412420
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	0.020	A412420
Total Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	0.20	0.20	A412420
Total Copper (Cu)	ug/L	<0.50	<0.50	<0.50	0.50	0.030	A412420
Total Iron (Fe)	ug/L	13	14	17	10	0.70	A412420
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	0.0010	A412420
Total Lithium (Li)	ug/L	<2.0	<2.0	<2.0	2.0	2.0	A412420
Total Manganese (Mn)	ug/L	<1.0	<1.0	<1.0	1.0	0.030	A412420
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	1.0	0.0020	A412420
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	0.010	A412420
Total Phosphorus (P)	ug/L	<10	<10	<10	10	1.0	A412420
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	0.10	0.0060	A412420
Total Silicon (Si)	ug/L	1700	1660	1500	100	0.30	A412420
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	0.0020	A412420
Total Strontium (Sr)	ug/L	6.9	7.0	19.5	1.0	0.0020	A412420
Total Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	0.010	0.010	A412420
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	0.0050	A412420
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	0.30	A412420

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



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Site Location: VILLAGE OF TAHSIS

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Sampler Initials: NT

### CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL259	AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-01 Lab-Dup	WS-11218464-291021- NT-02	RDL	MDL	QC Batch
Total Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.10	0.0010	A412420
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	0.020	A412420
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	0.050	A412420
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	0.0080	A412420
Total Calcium (Ca)	mg/L	3.38	N/A	9.09	0.050	0.0010	A407754
Total Magnesium (Mg)	mg/L	0.659	N/A	0.951	0.050	0.00050	A407754
Total Potassium (K)	mg/L	<0.050	N/A	<0.050	0.050	0.0020	A407754
Total Sodium (Na)	mg/L	0.879	N/A	0.846	0.050	0.0010	A407754
Total Sulphur (S)	mg/L	<3.0	N/A	<3.0	3.0	1.0	A407754

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

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Sampler Initials: NT

**CSR PAH IN WATER BY GC-MS (WATER)**

Bureau Veritas ID		AJL259	AJL260			
Sampling Date		2021/10/29 14:00	2021/10/29 14:30			
COC Number		651224-02-01	651224-02-01			
	UNITS	WS-11218464-291021- NT-01	WS-11218464-291021- NT-02	RDL	MDL	QC Batch

**Calculated Parameters**

Low Molecular Weight PAH's	ug/L	<0.10	<0.10	0.10	0.010	A407907
High Molecular Weight PAH's	ug/L	<0.050	<0.050	0.050	0.020	A407907
Total PAH	ug/L	<0.10	<0.10	0.10	0.010	A407907

**Polycyclic Aromatics**

Quinoline	ug/L	<0.020	<0.020	0.020	0.020	A411781
Naphthalene	ug/L	<0.10	<0.10	0.10	0.050	A411781
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	0.050	A411781
2-Methylnaphthalene	ug/L	<0.10	<0.10	0.10	0.050	A411781
Acenaphthylene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Acenaphthene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Fluorene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Phenanthrene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Anthracene	ug/L	<0.010	<0.010	0.010	0.010	A411781
Acridine	ug/L	<0.050	<0.050	0.050	0.050	A411781
Fluoranthene	ug/L	<0.020	<0.020	0.020	0.020	A411781
Pyrene	ug/L	<0.020	<0.020	0.020	0.020	A411781
Benzo(a)anthracene	ug/L	<0.010	<0.010	0.010	0.010	A411781
Chrysene	ug/L	<0.020	<0.020	0.020	0.020	A411781
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	0.030	0.030	A411781
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	0.0050	0.0050	A411781
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	0.0030	0.0030	A411781
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	0.050	A411781

**Surrogate Recovery (%)**

D10-ANTHRACENE (sur.)	%	90	91	N/A	N/A	A411781
D8-ACENAPHTHYLENE (sur.)	%	87	88	N/A	N/A	A411781
D8-NAPHTHALENE (sur.)	%	82	84	N/A	N/A	A411781
TERPHENYL-D14 (sur.)	%	86	86	N/A	N/A	A411781

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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A411650	NONACHLOROBIPHENYL (sur.)	2021/11/03	86 (3)	50 - 130	80	50 - 130	82	%		
A411781	D10-ANTHRACENE (sur.)	2021/11/03	81	50 - 140	102	50 - 140	88	%		
A411781	D8-ACENAPHTHYLENE (sur.)	2021/11/03	85	50 - 140	98	50 - 140	84	%		
A411781	D8-NAPHTHALENE (sur.)	2021/11/03	83	50 - 140	93	50 - 140	80	%		
A411781	TERPHENYL-D14 (sur.)	2021/11/03	74	50 - 140	101	50 - 140	83	%		
A412143	HEPTADECANOIC ACID (sur.)	2021/11/03	92 (4)	50 - 130	102	50 - 130	90	%		
A412143	O-METHYLPODOCARPIC ACID (sur.)	2021/11/03	108 (4)	50 - 130	129	50 - 130	116	%		
A421416	2-Fluorobiphenyl	2021/11/08	83 (9)	30 - 130	68	30 - 130	66	%		
A421416	D14-Terphenyl (FS)	2021/11/08	99 (9)	30 - 130	101	30 - 130	96	%		
A421416	D5-NITROBENZENE (sur.)	2021/11/08	87 (9)	30 - 130	85	30 - 130	75	%		
A421417	2-Fluorobiphenyl	2021/11/06	65	30 - 130	77	30 - 130	71	%		
A421417	D14-Terphenyl (FS)	2021/11/06	97	30 - 130	94	30 - 130	95	%		
A421417	D5-NITROBENZENE (sur.)	2021/11/06	83	30 - 130	90	30 - 130	91	%		
A421418	2,4-Dichlorophenyl Acetic Acid	2021/11/05	102	50 - 130	102	50 - 130	92	%		
A421418	2,5-Dibromobenzoic Acid	2021/11/05	97	10 - 130	98	10 - 130	84	%		
A421418	4,4-Dibromobiphenyl	2021/11/05	94	10 - 130	94	10 - 130	91	%		
A421419	2,4,5,6-Tetrachloro-m-xylene	2021/11/07	83 (11)	50 - 130	86	50 - 130	72	%		
A421419	Decachlorobiphenyl	2021/11/07	95 (11)	50 - 130	106	50 - 130	84	%		
A408174	Nitrate plus Nitrite (N)	2021/10/30	98	80 - 120	109	80 - 120	<0.020	mg/L	0.96 (1)	25
A408175	Nitrite (N)	2021/10/30	101	80 - 120	105	80 - 120	<0.0050	mg/L	NC (1)	20
A409805	Dissolved Mercury (Hg)	2021/11/01	75 (2)	80 - 120	84	80 - 120	<0.0019	ug/L	NC (1)	20
A409848	Dissolved Aluminum (Al)	2021/11/02	92	80 - 120	100	80 - 120	<3.0	ug/L	NC (1)	20
A409848	Dissolved Antimony (Sb)	2021/11/02	96	80 - 120	104	80 - 120	<0.50	ug/L	NC (1)	20
A409848	Dissolved Arsenic (As)	2021/11/02	99	80 - 120	100	80 - 120	<0.10	ug/L	1.4 (1)	20
A409848	Dissolved Barium (Ba)	2021/11/02	NC	80 - 120	100	80 - 120	<1.0	ug/L	1.4 (1)	20
A409848	Dissolved Beryllium (Be)	2021/11/02	98	80 - 120	108	80 - 120	<0.10	ug/L	NC (1)	20
A409848	Dissolved Bismuth (Bi)	2021/11/02	87	80 - 120	98	80 - 120	<1.0	ug/L	NC (1)	20
A409848	Dissolved Boron (B)	2021/11/02	96	80 - 120	105	80 - 120	<50	ug/L	1.2 (1)	20
A409848	Dissolved Cadmium (Cd)	2021/11/02	95	80 - 120	102	80 - 120	<0.010	ug/L	NC (1)	20
A409848	Dissolved Chromium (Cr)	2021/11/02	88	80 - 120	98	80 - 120	<1.0	ug/L	NC (1)	20
A409848	Dissolved Cobalt (Co)	2021/11/02	86	80 - 120	100	80 - 120	<0.20	ug/L	NC (1)	20



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GHD Limited  
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Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A409848	Dissolved Copper (Cu)	2021/11/02	82	80 - 120	97	80 - 120	<0.20	ug/L	NC (1)	20
A409848	Dissolved Iron (Fe)	2021/11/02	90	80 - 120	104	80 - 120	<5.0	ug/L	1.0 (1)	20
A409848	Dissolved Lead (Pb)	2021/11/02	92	80 - 120	100	80 - 120	<0.20	ug/L	NC (1)	20
A409848	Dissolved Lithium (Li)	2021/11/02	96	80 - 120	112	80 - 120	<2.0	ug/L	0.057 (1)	20
A409848	Dissolved Manganese (Mn)	2021/11/02	NC	80 - 120	99	80 - 120	<1.0	ug/L	2.6 (1)	20
A409848	Dissolved Molybdenum (Mo)	2021/11/02	101	80 - 120	102	80 - 120	<1.0	ug/L	2.1 (1)	20
A409848	Dissolved Nickel (Ni)	2021/11/02	85	80 - 120	98	80 - 120	<1.0	ug/L	NC (1)	20
A409848	Dissolved Phosphorus (P)	2021/11/02	96	80 - 120	101	80 - 120	<10	ug/L		
A409848	Dissolved Selenium (Se)	2021/11/02	97	80 - 120	103	80 - 120	<0.10	ug/L	NC (1)	20
A409848	Dissolved Silicon (Si)	2021/11/02	NC	80 - 120	113	80 - 120	<100	ug/L	1.5 (1)	20
A409848	Dissolved Silver (Ag)	2021/11/02	92	80 - 120	100	80 - 120	<0.020	ug/L	NC (1)	20
A409848	Dissolved Strontium (Sr)	2021/11/02	NC	80 - 120	100	80 - 120	<1.0	ug/L	0.59 (1)	20
A409848	Dissolved Thallium (Tl)	2021/11/02	91	80 - 120	80	80 - 120	<0.010	ug/L	NC (1)	20
A409848	Dissolved Tin (Sn)	2021/11/02	93	80 - 120	102	80 - 120	<5.0	ug/L	NC (1)	20
A409848	Dissolved Titanium (Ti)	2021/11/02	94	80 - 120	103	80 - 120	<5.0	ug/L	NC (1)	20
A409848	Dissolved Uranium (U)	2021/11/02	97	80 - 120	100	80 - 120	<0.10	ug/L	2.3 (1)	20
A409848	Dissolved Vanadium (V)	2021/11/02	92	80 - 120	100	80 - 120	<5.0	ug/L	NC (1)	20
A409848	Dissolved Zinc (Zn)	2021/11/02	87	80 - 120	102	80 - 120	<5.0	ug/L	NC (1)	20
A409848	Dissolved Zirconium (Zr)	2021/11/02	97	80 - 120	96	80 - 120	<0.10	ug/L	NC (1)	20
A409910	Turbidity	2021/11/01			99	80 - 120	<0.10	NTU	0.37 (1)	20
A409977	Total Mercury (Hg)	2021/11/02	72 (2)	80 - 120	88	80 - 120	<0.0019	ug/L	NC (1)	20
A410600	Total Ammonia (N)	2021/11/02	95	80 - 120	87	80 - 120	<0.015	mg/L	NC (1)	20
A411650	Aroclor 1016	2021/11/03					<0.050	ug/L	NC (1)	30
A411650	Aroclor 1221	2021/11/03					<0.050	ug/L	NC (1)	30
A411650	Aroclor 1232	2021/11/03					<0.050	ug/L	NC (1)	30
A411650	Aroclor 1242	2021/11/03					<0.050	ug/L	NC (1)	30
A411650	Aroclor 1248	2021/11/03					<0.050	ug/L	NC (1)	30
A411650	Aroclor 1254	2021/11/03					<0.050	ug/L	NC (1)	30
A411650	Aroclor 1260	2021/11/03	80 (3)	50 - 130	76	50 - 130	<0.050	ug/L	NC (1)	30
A411650	Aroclor 1262	2021/11/03					<0.050	ug/L	NC (1)	30
A411650	Aroclor 1268	2021/11/03					<0.050	ug/L	NC (1)	30

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Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A411781	1-Methylnaphthalene	2021/11/03	86	50 - 140	91	50 - 140	<0.050	ug/L	NC (1)	40
A411781	2-Methylnaphthalene	2021/11/03	84	50 - 140	88	50 - 140	<0.10	ug/L	NC (1)	40
A411781	Acenaphthene	2021/11/03	89	50 - 140	98	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Acenaphthylene	2021/11/03	86	50 - 140	93	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Acridine	2021/11/03	105	50 - 140	100	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Anthracene	2021/11/03	86	50 - 140	101	50 - 140	<0.010	ug/L	NC (1)	40
A411781	Benzo(a)anthracene	2021/11/03	86	50 - 140	99	50 - 140	<0.010	ug/L	NC (1)	40
A411781	Benzo(a)pyrene	2021/11/03	52	50 - 140	88	50 - 140	<0.0050	ug/L	NC (1)	40
A411781	Benzo(b&j)fluoranthene	2021/11/03	57	50 - 140	94	50 - 140	<0.030	ug/L	NC (1)	40
A411781	Benzo(g,h,i)perylene	2021/11/03	48 (2)	50 - 140	101	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Benzo(k)fluoranthene	2021/11/03	54	50 - 140	112	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Chrysene	2021/11/03	88	50 - 140	100	50 - 140	<0.020	ug/L	NC (1)	40
A411781	Dibenz(a,h)anthracene	2021/11/03	51	50 - 140	105	50 - 140	<0.0030	ug/L	NC (1)	40
A411781	Fluoranthene	2021/11/03	87	50 - 140	86	50 - 140	<0.020	ug/L	NC (1)	40
A411781	Fluorene	2021/11/03	85	50 - 140	94	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Indeno(1,2,3-cd)pyrene	2021/11/03	52	50 - 140	108	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Naphthalene	2021/11/03	84	50 - 140	88	50 - 140	<0.10	ug/L	NC (1)	40
A411781	Phenanthrene	2021/11/03	91	50 - 140	97	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Pyrene	2021/11/03	89	50 - 140	88	50 - 140	<0.020	ug/L	NC (1)	40
A411781	Quinoline	2021/11/03	118	50 - 140	113	50 - 140	<0.020	ug/L	NC (1)	40
A412143	* Total of Fatty Acids Detected	2021/11/06					<0.072	mg/L	NC (1)	30
A412143	* Total of Resin Acids Detected	2021/11/06					<0.060	mg/L	NC (1)	30
A412143	12,14-dichlorodehydroabietic acid	2021/11/06	116 (4)	50 - 130	110	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	12-chlorodehydroabietic acid	2021/11/06	124 (4)	50 - 130	104	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	14-chlorodehydroabietic acid	2021/11/06	126 (4)	50 - 130	102	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	9,10-dichlorostearic acid (C18)	2021/11/06	84 (4)	50 - 130	85	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Abietic acid	2021/11/06	122 (4)	50 - 130	88	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Decanoic acid (C10)	2021/11/06	109 (4)	50 - 130	91	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Dehydroabietic acid	2021/11/06	123 (4)	50 - 130	106	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Docosanoic acid (C22)	2021/11/06	102 (4)	50 - 130	89	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Dodecanoic acid (C12)	2021/11/06	107 (4)	50 - 130	86	50 - 130	<0.0060	mg/L	NC (1)	30



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Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A412143	Eicosanoic acid (C20)	2021/11/06	122 (4)	50 - 130	87	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Hexadecanoic acid (C16)	2021/11/06	104 (4)	50 - 130	102	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Isopimaric acid	2021/11/06	110 (4)	50 - 130	104	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Linoleic acid (C18:2)	2021/11/06	96 (4)	50 - 130	78	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Linolenic acid (C18:3)	2021/11/06	118 (4)	50 - 130	90	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Neoabietic acid	2021/11/06	90 (4)	50 - 130	89	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Octadecanoic acid (C18)	2021/11/06	130 (4)	50 - 130	109	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Oleic acid (C18:1)	2021/11/06	120 (4)	50 - 130	100	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Palustric acid	2021/11/06	62 (4)	50 - 130	100	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Pimamic acid	2021/11/06	92 (4)	50 - 130	93	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Sandaracopimamic acid	2021/11/06	106 (4)	50 - 130	102	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Tetradecanoic acid (C14)	2021/11/06	114 (4)	50 - 130	94	50 - 130	<0.0060	mg/L	NC (1)	30
A412143	Undecanoic acid (C11)	2021/11/06	114 (4)	50 - 130	88	50 - 130	<0.0060	mg/L	NC (1)	30
A412420	Total Aluminum (Al)	2021/11/04	94 (5)	80 - 120	95	80 - 120	<3.0	ug/L	4.6 (6)	20
A412420	Total Antimony (Sb)	2021/11/04	106 (5)	80 - 120	106	80 - 120	<0.50	ug/L	NC (6)	20
A412420	Total Arsenic (As)	2021/11/04	102 (5)	80 - 120	103	80 - 120	<0.10	ug/L	NC (6)	20
A412420	Total Barium (Ba)	2021/11/04	103 (5)	80 - 120	104	80 - 120	<1.0	ug/L	NC (6)	20
A412420	Total Beryllium (Be)	2021/11/04	97 (5)	80 - 120	100	80 - 120	<0.10	ug/L	NC (6)	20
A412420	Total Bismuth (Bi)	2021/11/04	100 (5)	80 - 120	100	80 - 120	<1.0	ug/L	NC (6)	20
A412420	Total Boron (B)	2021/11/04	96 (5)	80 - 120	99	80 - 120	<50	ug/L	NC (6)	20
A412420	Total Cadmium (Cd)	2021/11/04	104 (5)	80 - 120	105	80 - 120	<0.010	ug/L	NC (6)	20
A412420	Total Chromium (Cr)	2021/11/04	103 (5)	80 - 120	103	80 - 120	<1.0	ug/L	NC (6)	20
A412420	Total Cobalt (Co)	2021/11/04	103 (5)	80 - 120	104	80 - 120	<0.20	ug/L	NC (6)	20
A412420	Total Copper (Cu)	2021/11/04	102 (5)	80 - 120	103	80 - 120	<0.50	ug/L	NC (6)	20
A412420	Total Iron (Fe)	2021/11/04	104 (5)	80 - 120	105	80 - 120	<10	ug/L	5.9 (6)	20
A412420	Total Lead (Pb)	2021/11/04	100 (5)	80 - 120	100	80 - 120	<0.20	ug/L	NC (6)	20
A412420	Total Lithium (Li)	2021/11/04	101 (5)	80 - 120	100	80 - 120	<2.0	ug/L	NC (6)	20
A412420	Total Manganese (Mn)	2021/11/04	104 (5)	80 - 120	104	80 - 120	<1.0	ug/L	NC (6)	20
A412420	Total Molybdenum (Mo)	2021/11/04	107 (5)	80 - 120	107	80 - 120	<1.0	ug/L	NC (6)	20
A412420	Total Nickel (Ni)	2021/11/04	103 (5)	80 - 120	103	80 - 120	<1.0	ug/L	NC (6)	20
A412420	Total Phosphorus (P)	2021/11/04	92 (5)	80 - 120	92	80 - 120	<10	ug/L	NC (6)	20



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Bureau Veritas Job #: C183595  
Report Date: 2021/11/16

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A412420	Total Selenium (Se)	2021/11/04	102 (5)	80 - 120	101	80 - 120	<0.10	ug/L	NC (6)	20
A412420	Total Silicon (Si)	2021/11/04	90 (5)	80 - 120	90	80 - 120	<100	ug/L	2.6 (6)	20
A412420	Total Silver (Ag)	2021/11/04	102 (5)	80 - 120	105	80 - 120	<0.020	ug/L	NC (6)	20
A412420	Total Strontium (Sr)	2021/11/04	102 (5)	80 - 120	104	80 - 120	<1.0	ug/L	1.7 (6)	20
A412420	Total Thallium (Tl)	2021/11/04	103 (5)	80 - 120	102	80 - 120	<0.010	ug/L	NC (6)	20
A412420	Total Tin (Sn)	2021/11/04	103 (5)	80 - 120	103	80 - 120	<5.0	ug/L	NC (6)	20
A412420	Total Titanium (Ti)	2021/11/04	108 (5)	80 - 120	107	80 - 120	<5.0	ug/L	NC (6)	20
A412420	Total Uranium (U)	2021/11/04	105 (5)	80 - 120	104	80 - 120	<0.10	ug/L	NC (6)	20
A412420	Total Vanadium (V)	2021/11/04	106 (5)	80 - 120	105	80 - 120	<5.0	ug/L	NC (6)	20
A412420	Total Zinc (Zn)	2021/11/04	105 (5)	80 - 120	105	80 - 120	<5.0	ug/L	NC (6)	20
A412420	Total Zirconium (Zr)	2021/11/04	104 (5)	80 - 120	101	80 - 120	<0.10	ug/L	NC (6)	20
A412478	pH	2021/11/02			101	97 - 103			1.1 (1)	N/A
A412526	Alkalinity (PP as CaCO3)	2021/11/02					<1.0	mg/L	NC (1)	20
A412526	Alkalinity (Total as CaCO3)	2021/11/02	102	80 - 120	87	80 - 120	<1.0	mg/L	9.9 (1)	20
A412526	Bicarbonate (HCO3)	2021/11/02					<1.0	mg/L	9.9 (1)	20
A412526	Carbonate (CO3)	2021/11/02					<1.0	mg/L	NC (1)	20
A412526	Hydroxide (OH)	2021/11/02					<1.0	mg/L	NC (1)	20
A412527	Conductivity	2021/11/02			99	80 - 120	<2.0	uS/cm		
A413645	Dissolved Chloride (Cl)	2021/11/04			101	80 - 120	<1.0	mg/L		
A413645	Dissolved Sulphate (SO4)	2021/11/04			101	80 - 120	<1.0	mg/L		
A413988	Dissolved Fluoride (F)	2021/11/04	105 (7)	80 - 120	102	80 - 120	<0.050	mg/L	NC (8)	20
A421416	Ametryn	2021/11/08	106 (9)	40 - 130	111	40 - 130	<3	ug/L	NC (10)	50
A421416	Atrazine	2021/11/08	101 (9)	40 - 130	99	40 - 130	<1	ug/L	NC (10)	50
A421416	Cyanazine (Bladex)	2021/11/08	116 (9)	40 - 130	119	40 - 130	<3	ug/L	NC (10)	50
A421416	Metribuzin (Sencor)	2021/11/08	106 (9)	40 - 130	108	40 - 130	<3	ug/L	NC (10)	50
A421416	Prometon	2021/11/08	109 (9)	40 - 130	104	40 - 130	<0.5	ug/L	NC (10)	50
A421416	Prometryn	2021/11/08	115 (9)	40 - 130	113	40 - 130	<3	ug/L	NC (10)	50
A421416	Propazaine	2021/11/08	101 (9)	40 - 130	105	40 - 130	<3	ug/L	NC (10)	50
A421416	Simazine	2021/11/08	102 (9)	40 - 130	101	40 - 130	<3	ug/L	NC (10)	50
A421416	Simetryn	2021/11/08	104 (9)	40 - 130	105	40 - 130	<0.5	ug/L	NC (10)	50
A421416	Terbutryne	2021/11/08	108 (9)	40 - 130	108	40 - 130	<0.5	ug/L	NC (10)	50



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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHYSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A421417	Aldicarb	2021/11/06	94	30 - 130	99	30 - 130	<5.0	ug/L		
A421417	Atrazine	2021/11/06	95	30 - 130	96	30 - 130	<1.0	ug/L		
A421417	Bendiocarb	2021/11/06	111	30 - 130	112	30 - 130	<2.0	ug/L		
A421417	Carbaryl	2021/11/06	102	30 - 130	103	30 - 130	<5.0	ug/L		
A421417	Carbofuran	2021/11/06	108	30 - 130	110	30 - 130	<5.0	ug/L		
A421417	Chlorpyrifos (Dursban)	2021/11/06	103	30 - 130	106	30 - 130	<2.0	ug/L		
A421417	Cyanazine (Bladex)	2021/11/06	115	30 - 130	117	30 - 130	<5.0	ug/L		
A421417	Demeton-S	2021/11/06	95	30 - 130	100	30 - 130	<2.0	ug/L		
A421417	Diazinon	2021/11/06	108	30 - 130	110	30 - 130	<2.0	ug/L		
A421417	Dichlorvos	2021/11/06	84	30 - 130	87	30 - 130	<2.0	ug/L		
A421417	Dimethoate	2021/11/06	99	30 - 130	100	30 - 130	<2.0	ug/L		
A421417	Ethion	2021/11/06	104	30 - 130	103	30 - 130	<1.0	ug/L		
A421417	Fenchlorphos (Ronnel)	2021/11/06	103	30 - 130	106	30 - 130	<2.0	ug/L		
A421417	Fenthion	2021/11/06	100	30 - 130	103	30 - 130	<1.0	ug/L		
A421417	Fonofos	2021/11/06	98	30 - 130	101	30 - 130	<2.0	ug/L		
A421417	Guthion (Azinphos-methyl)	2021/11/06	117	30 - 130	117	30 - 130	<1.0	ug/L		
A421417	Malathion	2021/11/06	109	30 - 130	110	30 - 130	<2.0	ug/L		
A421417	Metolachlor	2021/11/06	107	30 - 130	107	30 - 130	<5.0	ug/L		
A421417	Mevinphos (Phosdrin)	2021/11/06	90	30 - 130	91	30 - 130	<2.0	ug/L		
A421417	Parathion Ethyl	2021/11/06	101	30 - 130	103	30 - 130	<2.0	ug/L		
A421417	Parathion methyl	2021/11/06	102	30 - 130	104	30 - 130	<2.0	ug/L		
A421417	Phorate (Thimet)	2021/11/06	97	30 - 130	101	30 - 130	<1.0	ug/L		
A421417	Phosmet	2021/11/06	102	30 - 130	102	30 - 130	<2.0	ug/L		
A421417	Prometryn	2021/11/06	107	30 - 130	108	30 - 130	<1.0	ug/L		
A421417	Simazine	2021/11/06	96	30 - 130	97	30 - 130	<2.0	ug/L		
A421417	Terbufos	2021/11/06	97	30 - 130	101	30 - 130	<1.0	ug/L		
A421417	Triallate	2021/11/06	96	30 - 130	98	30 - 130	<5.0	ug/L		
A421417	Trifluralin	2021/11/06	97	30 - 130	100	30 - 130	<5.0	ug/L		
A421418	2,4,5-T	2021/11/05	103	10 - 130	96	10 - 130	<0.50	ug/L		
A421418	2,4,5-TP	2021/11/05	103	10 - 130	101	10 - 130	<0.50	ug/L		
A421418	2,4-D (BEE)	2021/11/05	117	10 - 130	111	10 - 130	<0.50	ug/L		



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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHYSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A421418	2,4-D	2021/11/05	91	10 - 130	85	10 - 130	<0.50	ug/L		
A421418	2,4-DB	2021/11/05	102	10 - 130	101	10 - 130	<0.50	ug/L		
A421418	Dicamba	2021/11/05	101	10 - 130	100	10 - 130	<0.50	ug/L		
A421418	Dichlorprop	2021/11/05	100	10 - 130	97	10 - 130	<0.50	ug/L		
A421418	MCPA	2021/11/05	103	10 - 130	99	10 - 130	<0.50	ug/L		
A421418	MCPP	2021/11/05	110	10 - 130	110	10 - 130	<0.50	ug/L		
A421418	Picloram	2021/11/05	77	10 - 130	69	10 - 130	<0.50	ug/L		
A421419	a-BHC	2021/11/07	75 (11)	30 - 130	85	30 - 130	<0.005	ug/L	20 (1)	40
A421419	a-Chlordane	2021/11/07	82 (11)	50 - 130	85	50 - 130	<0.005	ug/L	15 (1)	30
A421419	Aldrin	2021/11/07	88 (11)	50 - 130	78	50 - 130	<0.005	ug/L	17 (1)	30
A421419	b-BHC	2021/11/07	75 (11)	30 - 130	78	30 - 130	<0.005	ug/L	14 (1)	40
A421419	d-BHC	2021/11/07	73 (11)	30 - 130	78	30 - 130	<0.005	ug/L	16 (1)	40
A421419	Dieldrin	2021/11/07	97 (11)	50 - 130	104	50 - 130	<0.005	ug/L	16 (1)	30
A421419	Endosulfan I	2021/11/07	96 (11)	50 - 130	91	50 - 130	<0.005	ug/L	0.21 (1)	30
A421419	Endosulfan II	2021/11/07	82 (11)	50 - 130	91	50 - 130	<0.005	ug/L	16 (1)	30
A421419	Endosulfan Sulfate	2021/11/07	97 (11)	30 - 130	110	30 - 130	<0.005	ug/L	22 (1)	40
A421419	Endrin Aldehyde	2021/11/07	65 (11)	30 - 130	88	30 - 130	<0.005	ug/L	15 (1)	40
A421419	Endrin ketone	2021/11/07	83 (11)	30 - 130	89	30 - 130	<0.005	ug/L	17 (1)	40
A421419	Endrin	2021/11/07	83 (11)	50 - 130	90	50 - 130	<0.005	ug/L	15 (1)	30
A421419	g-Chlordane	2021/11/07	86 (11)	50 - 130	89	50 - 130	<0.005	ug/L	15 (1)	30
A421419	Heptachlor Epoxide	2021/11/07	82 (11)	50 - 130	88	50 - 130	<0.005	ug/L	15 (1)	30
A421419	Heptachlor	2021/11/07	82 (11)	50 - 130	77	50 - 130	<0.005	ug/L	18 (1)	30
A421419	Hexachlorobenzene	2021/11/07	91 (11)	50 - 130	92	50 - 130	<0.005	ug/L	21 (1)	30
A421419	Lindane	2021/11/07	79 (11)	50 - 130	84	50 - 130	<0.003	ug/L	14 (1)	30
A421419	Methoxychlor	2021/11/07	91 (11)	50 - 130	95	50 - 130	<0.01	ug/L	12 (1)	30
A421419	Mirex	2021/11/07	87 (11)	30 - 130	89	30 - 130	<0.005	ug/L	13 (1)	40
A421419	o,p'-DDD	2021/11/07	101 (11)	50 - 130	107	50 - 130	<0.005	ug/L	16 (1)	30
A421419	o,p'-DDE	2021/11/07	88 (11)	50 - 130	90	50 - 130	<0.005	ug/L	15 (1)	30
A421419	o,p'-DDT	2021/11/07	82 (11)	50 - 130	84	50 - 130	<0.005	ug/L	13 (1)	30
A421419	Octachlorostyrene	2021/11/07	91 (11)	30 - 130	83	30 - 130	<0.005	ug/L	12 (1)	40
A421419	Oxychlordane	2021/11/07	82 (11)	30 - 130	86	30 - 130	<0.005	ug/L	15 (1)	30



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Bureau Veritas Job #: C183595  
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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A421419	p,p'-DDD	2021/11/07	91 (11)	50 - 130	96	50 - 130	<0.005	ug/L	24 (1)	30
A421419	p,p'-DDE	2021/11/07	96 (11)	50 - 130	87	50 - 130	<0.005	ug/L	0.99 (1)	30
A421419	p,p'-DDT	2021/11/07	69 (11)	50 - 130	79	50 - 130	<0.005	ug/L	11 (1)	30
A421419	Toxaphene	2021/11/07					<0.2	ug/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(3) Matrix Spike Parent ID [AJL259-06]

(4) Matrix Spike Parent ID [AJL259-07]

(5) Matrix Spike Parent ID [AJL259-11]

(6) Duplicate Parent ID [AJL259-11]

(7) Matrix Spike Parent ID [AJL259-09]

(8) Duplicate Parent ID [AJL259-09]

(9) Matrix Spike Parent ID [AJL260-01]

(10) Duplicate Parent ID [AJL259-01]

(11) Matrix Spike Parent ID [AJL259-04]



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Bureau Veritas Job #: C183595

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Veronica Falk, B.Sc., P.Chem., QP, Scientific Specialist, Organics

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.  
For Service Group specific validation please refer to the Validation Signature Page.





Bureau Veritas Laboratories  
4005 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel (604) 734 7276 Toll-free 800-563-6266 Fax (604) 731 2386 www.bvna.com

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### Chain Of Custody Record

INVOICE TO:		Report Information					Project Information			Laboratory Use Only		
Company Name	#163 GHD Limited	Company Name						Quotation #	C10010	Bureau Veritas Job #		
Contact Name	<u>Accounts Payable - Ariesse MacPhee</u>	Contact Name	11218464 Distribution					P.O. #	73523096	Bottle Order #:		
Address	455 PHILLIP STREET	Address						Project #	11218464		651224	
Phone	(519) 884-0510	Phone	(519) 725-1394					Project Name	Village of Tahsis	Chain Of Custody Record	Project Manager	
Email	Invoicing-Canada@ghd.com	Email	airesse.macphee@ghd.com; tristan.habdas@ghd.com;					Site #	N.Tur/		Thomas Pinchin	
Regulatory Criteria:		Special Instructions					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)			Turnaround Time (TAT) Required:		
<input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____		All bottles were field filtered and preserved as required.								Please provide advance notice for rush projects		
										Regular (Standard) TAT: <small>(will be applied if Rush TAT is not specified)</small> Standard TAT = 5-7 Working days for most tests. <small>Please note: Standard TAT for certain tests such as DBO and Dioxins/Furans are &gt; 5 days - contact your Project Manager for details.</small>		
										Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____		
										Rush Confirmation Number: _____ <small>(call lab for #)</small>		
										# of Bottles: _____ Comments: _____		
										C183595_CO		
RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only			
<u>N.Tur/</u>		21/10/24	1900	<u>Mr. Roger Legay</u>		2024/10/20	06:00		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt	Custody Seal intact on Cooler? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGEMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT <a href="http://WWW.BVLABS.COM/TERMS-AND-CONDITIONS">WWW.BVLABS.COM/TERMS-AND-CONDITIONS</a> .										White: Bureau Veritas Yellow: Client <small>See Actr</small>		

Bureau Veritas Canada (2019) Inc.



BUREAU  
VERITAS

Your P.O. #: 73523096  
Your Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your C.O.C. #: C#651224-01-01

**Attention: 11218464 Distribution**

GHD Limited  
455 PHILLIP STREET  
WATERLOO, ON  
CANADA N2L 3X2

**Report Date:** 2021/11/16  
**Report #:** R3100003  
**Version:** 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C183596**

**Received: 2021/10/30, 09:00**

Sample Matrix: Water  
# Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	5	N/A	2021/11/02	BBY6SOP-00026	SM 23 2320 B m
Chloride/Sulphate by Auto Colourimetry	5	N/A	2021/11/04	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Coliform by membrane filtration	5	N/A	2021/10/30	BBY4SOP-00001	SM 23 9222 m
Conductivity @25C	5	N/A	2021/11/02	BBY6SOP-00026	SM 23 2510 B m
E.coli by membrane filtration in Water	5	N/A	2021/10/30	BBY4SOP-00001	SM 23 9222 m
Fluoride	5	N/A	2021/11/04	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (3)	5	N/A	2021/11/05	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	5	N/A	2021/11/03	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (4)	4	2021/11/01	2021/11/01	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV (4)	1	2021/11/01	2021/11/02	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	5	2021/11/01	2021/11/02	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	5	N/A	2021/11/03	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (4)	1	N/A	2021/11/02	BBY7SOP-00002	EPA 6020b R2 m
Elements by CRC ICPMS (dissolved) (4)	4	N/A	2021/11/03	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	2021/10/30	2021/11/05	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	5	2021/11/03	2021/11/04	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N (Total)	5	N/A	2021/11/02	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	5	N/A	2021/10/30	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	5	N/A	2021/10/30	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	5	N/A	2021/10/30	BBY WI-00033	Auto Calc
PAH in Water by GC/MS (SIM)	5	2021/11/03	2021/11/03	BBY8SOP-00021	BCMOE BCLM Jul2017m
Total LMW, HMW, Total PAH Calc (5)	5	N/A	2021/11/04	BBY WI-00033	Auto Calc
Polychlorinated Biphenyls in Water (1)	5	2021/11/03	2021/11/03	CAL SOP-00149	EPA 8082A R1 m
Total PCBs in Water (1)	5	N/A	2021/11/04		Auto Calc
Filter and HNO3 Preserve for Metals	5	N/A	2021/10/30	BBY7 WI-00004	SM 23 3030B m
pH @25°C (6)	5	N/A	2021/11/02	BBY6SOP-00026	SM 23 4500-H+ B m
Resin and Fatty Acids (1)	1	2021/11/03	2021/11/05	CAL SOP-00099	AE129.0
Resin and Fatty Acids (1)	4	2021/11/03	2021/11/06	CAL SOP-00099	AE129.0
Turbidity	5	N/A	2021/11/01	BBY6SOP-00027	SM 23 2130 B m
OC Pesticides (Selected) & PCB (2, 7)	1	2021/11/02	2021/11/04	CAM SOP-00307	EPA 8081A/ 8082B m



BUREAU  
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Your P.O. #: 73523096  
Your Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your C.O.C. #: C#651224-01-01

**Attention: 11218464 Distribution**

GHD Limited  
455 PHILLIP STREET  
WATERLOO, ON  
CANADA N2L 3X2

**Report Date:** 2021/11/16  
**Report #:** R3100003  
**Version:** 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C183596**

**Received: 2021/10/30, 09:00**

Sample Matrix: Water  
# Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
OC Pesticides (Selected) & PCB (2, 7)	4	2021/11/02	2021/11/05	CAM SOP-00307	EPA 8081A/ 8082B m
OC Pesticides Summed Parameters (2)	2	N/A	2021/11/05	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters (2)	3	N/A	2021/11/08	CAM SOP-00307	EPA 8081A/8082B m
GC/MS Analysis of OP Pesticides (2)	5	2021/11/05	2021/11/06	CAM SOP-00301	EPA 8270 m
Phenoxy Acid Herbicides (2)	5	2021/11/04	2021/11/05	CAM SOP-00330	EPA 8270 m
Triazine Herbicides (2)	5	2021/11/05	2021/11/08	CAM SOP-00301	EPA 8270 m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) This test was performed by Bureau Veritas Campbell, 6740 Campbell Road , Mississauga, ON, L5N 2L8

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(5) Total PAHs in Water include: Quinoline, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Acridine, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b&j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene,



BUREAU  
VERITAS

Your P.O. #: 73523096  
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**Attention: 11218464 Distribution**

GHD Limited  
455 PHILLIP STREET  
WATERLOO, ON  
CANADA N2L 3X2

**Report Date:** 2021/11/16  
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**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C183596**

**Received: 2021/10/30, 09:00**

and Benzo(g,h,i)perylene.

(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

(7) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Thomas Pinchin, Project Solutions Representative

Email: Thomas.Pinchin@bureauveritas.com

Phone# (604) 734 7276

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BUREAU  
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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

**RESULTS OF CHEMICAL ANALYSES OF WATER**

<b>Bureau Veritas ID</b>		AJL261	AJL262			
<b>Sampling Date</b>		2021/10/29 11:00	2021/10/29 12:00			
<b>COC Number</b>		C#651224-01-01	C#651224-01-01			
	<b>UNITS</b>	<b>WG-11218464-291021 -NT-01</b>	<b>WG-11218464-291021 -NT-02</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>ANIONS</b>						
Nitrite (N)	mg/L	<0.0050	<0.0050	0.0050	0.0050	A408175
<b>Calculated Parameters</b>						
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	N/A	ONSITE
Nitrate (N)	mg/L	0.055	0.072	0.020	N/A	A407835
<b>Misc. Inorganics</b>						
Conductivity	uS/cm	65	100	2.0	N/A	A412527
pH	pH	7.58	7.86	N/A	N/A	A412478
<b>Anions</b>						
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	1.0	N/A	A412526
Alkalinity (Total as CaCO3)	mg/L	31	46	1.0	N/A	A412526
Bicarbonate (HCO3)	mg/L	38	56	1.0	N/A	A412526
Carbonate (CO3)	mg/L	<1.0	<1.0	1.0	N/A	A412526
Dissolved Fluoride (F)	mg/L	<0.050	<0.050	0.050	N/A	A413988
Hydroxide (OH)	mg/L	<1.0	<1.0	1.0	N/A	A412526
Dissolved Chloride (Cl)	mg/L	1.6	1.5	1.0	N/A	A413645
Dissolved Sulphate (SO4)	mg/L	4.1	2.4	1.0	N/A	A413645
<b>Nutrients</b>						
Total Ammonia (N)	mg/L	<0.015	<0.015	0.015	0.0040	A410600
Nitrate plus Nitrite (N)	mg/L	0.055	0.072	0.020	0.020	A408174
<b>Pesticides &amp; Herbicides</b>						
Prometon	ug/L	<0.5	<0.5	0.5	N/A	A421424
Simazine	ug/L	<3	<3	3	N/A	A421424
Atrazine	ug/L	<1	<1	1	N/A	A421424
Propazine	ug/L	<3	<3	3	N/A	A421424
Metribuzin (Sencor)	ug/L	<3	<3	3	N/A	A421424
Simetryn	ug/L	<0.5	<0.5	0.5	N/A	A421424
Ametryn	ug/L	<3	<3	3	N/A	A421424
Prometryn	ug/L	<3	<3	3	N/A	A421424
Terbutryne	ug/L	<0.5	<0.5	0.5	N/A	A421424
Cyanazine (Bladex)	ug/L	<3	<3	3	N/A	A421424
RDL = Reportable Detection Limit						
N/A = Not Applicable						



BUREAU  
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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		AJL261	AJL262			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00			
COC Number		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	RDL	MDL	QC Batch
<b>Physical Properties</b>						
Turbidity	NTU	1.8	0.33	0.10	N/A	A409910
<b>Surrogate Recovery (%)</b>						
2-Fluorobiphenyl	%	77	39	N/A	N/A	A421424
D14-Terphenyl (FS)	%	93	45	N/A	N/A	A421424
D5-NITROBENZENE (sur.)	%	77	41	N/A	N/A	A421424
RDL = Reportable Detection Limit						
N/A = Not Applicable						



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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		AJL263	AJL263			AJL264		
Sampling Date		2021/10/29 12:30	2021/10/29 12:30			2021/10/29 13:15		
COC Number		C#651224-01-01	C#651224-01-01			C#651224-01-01		
UNITS	WG-11218464-291021 -NT-03 Lab-Dup	WG-11218464-291021 -NT-03 Lab-Dup	RDL	MDL	WG-11218464-291021 -NT-04	RDL	MDL	QC Batch
<b>ANIONS</b>								
Nitrite (N)	mg/L	<0.050 (1)	<0.050	0.050	0.050	<0.0050	0.0050	0.0050
<b>Calculated Parameters</b>								
Filter and HNO3 Preservation	N/A	FIELD	N/A	N/A	N/A	FIELD	N/A	N/A
Nitrate (N)	mg/L	<0.20	N/A	0.20	N/A	0.077	0.020	N/A
<b>Misc. Inorganics</b>								
Conductivity	uS/cm	71	N/A	2.0	N/A	73	2.0	N/A
pH	pH	6.49	N/A	N/A	N/A	7.51	N/A	N/A
<b>Anions</b>								
Alkalinity (PP as CaCO3)	mg/L	<1.0	N/A	1.0	N/A	<1.0	1.0	N/A
Alkalinity (Total as CaCO3)	mg/L	32	N/A	1.0	N/A	34	1.0	N/A
Bicarbonate (HCO3)	mg/L	39	N/A	1.0	N/A	42	1.0	N/A
Carbonate (CO3)	mg/L	<1.0	N/A	1.0	N/A	<1.0	1.0	N/A
Dissolved Fluoride (F)	mg/L	<0.050	N/A	0.050	N/A	<0.050	0.050	N/A
Hydroxide (OH)	mg/L	<1.0	N/A	1.0	N/A	<1.0	1.0	N/A
Dissolved Chloride (Cl)	mg/L	<10 (1)	N/A	10	N/A	1.7	1.0	N/A
Dissolved Sulphate (SO4)	mg/L	14 (1)	N/A	10	N/A	1.8	1.0	N/A
<b>Nutrients</b>								
Total Ammonia (N)	mg/L	<0.015	N/A	0.015	0.0040	<0.015	0.015	0.0040
Nitrate plus Nitrite (N)	mg/L	<0.20 (1)	<0.20	0.20	0.20	0.077	0.020	0.020
<b>Pesticides &amp; Herbicides</b>								
Prometon	ug/L	<0.5	N/A	0.5	N/A	<0.5	0.5	N/A
Simazine	ug/L	<3	N/A	3	N/A	<3	3	N/A
Atrazine	ug/L	<1	N/A	1	N/A	<1	1	N/A
Propazine	ug/L	<3	N/A	3	N/A	<3	3	N/A
Metribuzin (Sencor)	ug/L	<3	N/A	3	N/A	<3	3	N/A
Simetryn	ug/L	<0.5	N/A	0.5	N/A	<0.5	0.5	N/A
Ametryn	ug/L	<3	N/A	3	N/A	<3	3	N/A
Prometryn	ug/L	<3	N/A	3	N/A	<3	3	N/A
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								
N/A = Not Applicable								
(1) RDL raised due to sample matrix interference.								



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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		AJL263	AJL263			AJL264			
Sampling Date		2021/10/29 12:30	2021/10/29 12:30			2021/10/29 13:15			
COC Number		C#651224-01-01	C#651224-01-01			C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-03 Lab-Dup	WG-11218464-291021 -NT-03 Lab-Dup	RDL	MDL	WG-11218464-291021 -NT-04	RDL	MDL	QC Batch
Terbutryne	ug/L	<0.5	N/A	0.5	N/A	<0.5	0.5	N/A	A421424
Cyanazine (Bladex)	ug/L	<3	N/A	3	N/A	<3	3	N/A	A421424
<b>Physical Properties</b>									
Turbidity	NTU	5.5	5.5	0.10	N/A	0.52	0.10	N/A	A409910
<b>Surrogate Recovery (%)</b>									
2-Fluorobiphenyl	%	45	N/A	N/A	N/A	81	N/A	N/A	A421424
D14-Terphenyl (FS)	%	66	N/A	N/A	N/A	92	N/A	N/A	A421424
D5-NITROBENZENE (sur.)	%	43	N/A	N/A	N/A	80	N/A	N/A	A421424

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

**RESULTS OF CHEMICAL ANALYSES OF WATER**

Bureau Veritas ID		AJL265			
Sampling Date		2021/10/29 16:00			
COC Number		C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch
<b>ANIONS</b>					
Nitrite (N)	mg/L	<0.0050	0.0050	0.0050	A408189
<b>Calculated Parameters</b>					
Filter and HNO3 Preservation	N/A	FIELD	N/A	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	0.020	N/A	A407835
<b>Misc. Inorganics</b>					
Conductivity	uS/cm	2.6	2.0	N/A	A412475
pH	pH	6.17	N/A	N/A	A412473
<b>Anions</b>					
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	N/A	A412474
Alkalinity (Total as CaCO3)	mg/L	1.5	1.0	N/A	A412474
Bicarbonate (HCO3)	mg/L	1.8	1.0	N/A	A412474
Carbonate (CO3)	mg/L	<1.0	1.0	N/A	A412474
Dissolved Fluoride (F)	mg/L	<0.050	0.050	N/A	A413988
Hydroxide (OH)	mg/L	<1.0	1.0	N/A	A412474
Dissolved Chloride (Cl)	mg/L	<1.0	1.0	N/A	A413645
Dissolved Sulphate (SO4)	mg/L	<1.0	1.0	N/A	A413645
<b>Nutrients</b>					
Total Ammonia (N)	mg/L	<0.015	0.015	0.0040	A410600
Nitrate plus Nitrite (N)	mg/L	<0.020	0.020	0.020	A408188
<b>Pesticides &amp; Herbicides</b>					
Prometon	ug/L	<0.5	0.5	N/A	A421424
Simazine	ug/L	<3	3	N/A	A421424
Atrazine	ug/L	<1	1	N/A	A421424
Propazine	ug/L	<3	3	N/A	A421424
Metribuzin (Sencor)	ug/L	<3	3	N/A	A421424
Simetryn	ug/L	<0.5	0.5	N/A	A421424
Ametryn	ug/L	<3	3	N/A	A421424
Prometryn	ug/L	<3	3	N/A	A421424
Terbutryne	ug/L	<0.5	0.5	N/A	A421424
Cyanazine (Bladex)	ug/L	<3	3	N/A	A421424
RDL = Reportable Detection Limit					
N/A = Not Applicable					



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VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		AJL265			
Sampling Date		2021/10/29 16:00			
COC Number		C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch
<b>Physical Properties</b>					
Turbidity	NTU	<0.10	0.10	N/A	A409910
<b>Surrogate Recovery (%)</b>					
2-Fluorobiphenyl	%	80	N/A	N/A	A421424
D14-Terphenyl (FS)	%	91	N/A	N/A	A421424
D5-NITROBENZENE (sur.)	%	80	N/A	N/A	A421424
RDL = Reportable Detection Limit					
N/A = Not Applicable					



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VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch

#### Polychlorinated Biphenyls

Aroclor 1016	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1221	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1232	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1242	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1248	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1254	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1260	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1262	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1268	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Total PCB	mg/L	<0.000050	<0.000050	<0.000050	0.000050	N/A	A407983

#### Surrogate Recovery (%)

NONACHLOROBIPHENYL (sur.)	%	91	84	84	N/A	N/A	A411650
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RDL = Reportable Detection Limit

N/A = Not Applicable



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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Bureau Veritas ID		AJL264	AJL265	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	WG-11218464-291021 -NT-05 Lab-Dup	RDL	MDL	QC Batch

#### Polychlorinated Biphenyls

Aroclor 1016	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1221	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1232	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1242	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1248	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1254	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1260	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1262	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Aroclor 1268	ug/L	<0.050	<0.050	<0.050	0.050	N/A	A411650
Total PCB	mg/L	<0.000050	<0.000050	N/A	0.000050	N/A	A407983

#### Surrogate Recovery (%)

NONACHLOROBIPHENYL (sur.)	%	77	77	88	N/A	N/A	A411650
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RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263	AJL264			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30	2021/10/29 13:15			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	WG-11218464-291021 -NT-04	RDL	MDL	QC Batch

#### Pesticides & Herbicides

Aldicarb	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	N/A	A421425
Atrazine	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	N/A	A421425
Bendiocarb	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Carbaryl	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	N/A	A421425
Carbofuran	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	N/A	A421425
Chlorpyrifos (Dursban)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Cyanazine (Bladex)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	N/A	A421425
Demeton-S	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Diazinon	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Dichlorvos	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Dimethoate	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Ethion	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	N/A	A421425
Fenchlorphos (Ronnel)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Fenthion	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	N/A	A421425
Fonofos	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Guthion (Azinphos-methyl)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	N/A	A421425
Malathion	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Metolachlor	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	N/A	A421425
Mevinphos (Phosdrin)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Parathion Ethyl	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Parathion methyl	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Phorate (Thimet)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	N/A	A421425
Phosmet	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Prometryn	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	N/A	A421425
Simazine	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	N/A	A421425
Terbufos	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	N/A	A421425
Triallate	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	N/A	A421425
Trifluralin	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	N/A	A421425

#### Surrogate Recovery (%)

2-Fluorobiphenyl	%	83	67	71	79	N/A	N/A	A421425
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RDL = Reportable Detection Limit

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263	AJL264			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30	2021/10/29 13:15			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	WG-11218464-291021 -NT-04	RDL	MDL	QC Batch
D14-Terphenyl (FS)	%	94	88	79	93	N/A	N/A	A421425
D5-NITROBENZENE (sur.)	%	90	75	80	86	N/A	N/A	A421425

RDL = Reportable Detection Limit

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### PESTICIDES BY GC-MS (WATER)

<b>Bureau Veritas ID</b>		AJL265			
<b>Sampling Date</b>		2021/10/29 16:00			
<b>COC Number</b>		C#651224-01-01			
	<b>UNITS</b>	<b>WG-11218464-291021 -NT-05</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>Pesticides &amp; Herbicides</b>					
Aldicarb	ug/L	<5.0	5.0	N/A	A421425
Atrazine	ug/L	<1.0	1.0	N/A	A421425
Bendiocarb	ug/L	<2.0	2.0	N/A	A421425
Carbaryl	ug/L	<5.0	5.0	N/A	A421425
Carbofuran	ug/L	<5.0	5.0	N/A	A421425
Chlorpyrifos (Dursban)	ug/L	<2.0	2.0	N/A	A421425
Cyanazine (Bladex)	ug/L	<5.0	5.0	N/A	A421425
Demeton-S	ug/L	<2.0	2.0	N/A	A421425
Diazinon	ug/L	<2.0	2.0	N/A	A421425
Dichlorvos	ug/L	<2.0	2.0	N/A	A421425
Dimethoate	ug/L	<2.0	2.0	N/A	A421425
Ethion	ug/L	<1.0	1.0	N/A	A421425
Fenchlorphos (Ronnel)	ug/L	<2.0	2.0	N/A	A421425
Fenthion	ug/L	<1.0	1.0	N/A	A421425
Fonofos	ug/L	<2.0	2.0	N/A	A421425
Guthion (Azinphos-methyl)	ug/L	<1.0	1.0	N/A	A421425
Malathion	ug/L	<2.0	2.0	N/A	A421425
Metolachlor	ug/L	<5.0	5.0	N/A	A421425
Mevinphos (Phosdrin)	ug/L	<2.0	2.0	N/A	A421425
Parathion Ethyl	ug/L	<2.0	2.0	N/A	A421425
Parathion methyl	ug/L	<2.0	2.0	N/A	A421425
Phorate (Thimet)	ug/L	<1.0	1.0	N/A	A421425
Phosmet	ug/L	<2.0	2.0	N/A	A421425
Prometryn	ug/L	<1.0	1.0	N/A	A421425
Simazine	ug/L	<2.0	2.0	N/A	A421425
Terbufos	ug/L	<1.0	1.0	N/A	A421425
Triallate	ug/L	<5.0	5.0	N/A	A421425
Trifluralin	ug/L	<5.0	5.0	N/A	A421425
<b>Surrogate Recovery (%)</b>					
2-Fluorobiphenyl	%	84	N/A	N/A	A421425
RDL = Reportable Detection Limit					
N/A = Not Applicable					



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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		AJL265			
Sampling Date		2021/10/29 16:00			
COC Number		C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch
D14-Terphenyl (FS)	%	94	N/A	N/A	A421425
D5-NITROBENZENE (sur.)	%	90	N/A	N/A	A421425
RDL = Reportable Detection Limit					
N/A = Not Applicable					



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VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

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Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### PHENOXYALKYL ACID PESTICIDES/HERBICIDES (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch
<b>Pesticides &amp; Herbicides</b>							
2,4-D (BEE)	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
Dicamba	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
MCPP	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
MCPA	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
Dichlorprop	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
2,4-D	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
2,4,5-TP	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
2,4,5-T	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
2,4-DB	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
Picloram	ug/L	<0.50	<0.50	<0.50	0.50	N/A	A421426
<b>Surrogate Recovery (%)</b>							
2,4-Dichlorophenyl Acetic Acid	%	91	101	92	N/A	N/A	A421426
2,5-Dibromobenzoic Acid	%	80	92	87	N/A	N/A	A421426
4,4-Dibromobiphenyl	%	83	91	61	N/A	N/A	A421426
RDL = Reportable Detection Limit							
N/A = Not Applicable							



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Bureau Veritas Job #: C183596

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Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### PHENOXYALKYL ACID PESTICIDES/HERBICIDES (WATER)

Bureau Veritas ID		AJL264	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch
<b>Pesticides &amp; Herbicides</b>						
2,4-D (BEE)	ug/L	<0.50	<0.50	0.50	N/A	A421426
Dicamba	ug/L	<0.50	<0.50	0.50	N/A	A421426
MCPP	ug/L	<0.50	<0.50	0.50	N/A	A421426
MCPA	ug/L	<0.50	<0.50	0.50	N/A	A421426
Dichlorprop	ug/L	<0.50	<0.50	0.50	N/A	A421426
2,4-D	ug/L	<0.50	<0.50	0.50	N/A	A421426
2,4,5-TP	ug/L	<0.50	<0.50	0.50	N/A	A421426
2,4,5-T	ug/L	<0.50	<0.50	0.50	N/A	A421426
2,4-DB	ug/L	<0.50	<0.50	0.50	N/A	A421426
Picloram	ug/L	<0.50	<0.50	0.50	N/A	A421426
<b>Surrogate Recovery (%)</b>						
2,4-Dichlorophenyl Acetic Acid	%	99	89	N/A	N/A	A421426
2,5-Dibromobenzoic Acid	%	89	83	N/A	N/A	A421426
4,4-Dibromobiphenyl	%	91	80	N/A	N/A	A421426
RDL = Reportable Detection Limit						
N/A = Not Applicable						



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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch

#### Calculated Parameters

Aldrin + Dieldrin	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A421427
Chlordane (Total)	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A421427
DDT + Metabolites	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A421427
Heptachlor + Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A421427
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A421427
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A421427
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A421427
Total Endosulfan	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A421427

#### Pesticides & Herbicides

a-BHC	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
a-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
b-BHC	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
d-BHC	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Endosulfan I	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Endosulfan II	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Endosulfan Sulfate	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Endrin	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Endrin Aldehyde	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Endrin ketone	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Hexachlorobenzene	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Mirex	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
o,p'-DDT	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Octachlorostyrene	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Toxaphene	ug/L	<0.2	<0.2	<0.2	0.2	N/A	A415239
Lindane	ug/L	<0.003	<0.003	<0.003	0.003	N/A	A415239
Heptachlor	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Aldrin	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Heptachlor Epoxide	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Oxychlordane	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
g-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239

RDL = Reportable Detection Limit

N/A = Not Applicable



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GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch
Dieldrin	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
o,p'-DDE	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
p,p'-DDE	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
o,p'-DDD	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
p,p'-DDD	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
p,p'-DDT	ug/L	<0.005	<0.005	<0.005	0.005	N/A	A415239
Methoxychlor	ug/L	<0.01	<0.01	<0.01	0.01	N/A	A415239
Surrogate Recovery (%)							
2,4,5,6-Tetrachloro-m-xylene	%	77	82	71	N/A	N/A	A415239
Decachlorobiphenyl	%	105	115	99	N/A	N/A	A415239

RDL = Reportable Detection Limit

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

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Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		AJL264	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch
<b>Calculated Parameters</b>						
Aldrin + Dieldrin	ug/L	<0.005	<0.005	0.005	N/A	A421427
Chlordane (Total)	ug/L	<0.005	<0.005	0.005	N/A	A421427
DDT + Metabolites	ug/L	<0.005	<0.005	0.005	N/A	A421427
Heptachlor + Heptachlor epoxide	ug/L	<0.005	<0.005	0.005	N/A	A421427
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	0.005	N/A	A421427
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	0.005	N/A	A421427
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	0.005	N/A	A421427
Total Endosulfan	ug/L	<0.005	<0.005	0.005	N/A	A421427
<b>Pesticides &amp; Herbicides</b>						
a-BHC	ug/L	<0.005	<0.005	0.005	N/A	A415239
a-Chlordane	ug/L	<0.005	<0.005	0.005	N/A	A415239
b-BHC	ug/L	<0.005	<0.005	0.005	N/A	A415239
d-BHC	ug/L	<0.005	<0.005	0.005	N/A	A415239
Endosulfan I	ug/L	<0.005	<0.005	0.005	N/A	A415239
Endosulfan II	ug/L	<0.005	<0.005	0.005	N/A	A415239
Endosulfan Sulfate	ug/L	<0.005	<0.005	0.005	N/A	A415239
Endrin	ug/L	<0.005	<0.005	0.005	N/A	A415239
Endrin Aldehyde	ug/L	<0.005	<0.005	0.005	N/A	A415239
Endrin ketone	ug/L	<0.005	<0.005	0.005	N/A	A415239
Hexachlorobenzene	ug/L	<0.005	<0.005	0.005	N/A	A415239
Mirex	ug/L	<0.005	<0.005	0.005	N/A	A415239
o,p'-DDT	ug/L	<0.005	<0.005	0.005	N/A	A415239
Octachlorostyrene	ug/L	<0.005	<0.005	0.005	N/A	A415239
Toxaphene	ug/L	<0.2	<0.2	0.2	N/A	A415239
Lindane	ug/L	<0.003	<0.003	0.003	N/A	A415239
Heptachlor	ug/L	<0.005	<0.005	0.005	N/A	A415239
Aldrin	ug/L	<0.005	<0.005	0.005	N/A	A415239
Heptachlor Epoxide	ug/L	<0.005	<0.005	0.005	N/A	A415239
Oxychlordane	ug/L	<0.005	<0.005	0.005	N/A	A415239
g-Chlordane	ug/L	<0.005	<0.005	0.005	N/A	A415239
RDL = Reportable Detection Limit						
N/A = Not Applicable						



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		AJL264	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch
Dieldrin	ug/L	<0.005	<0.005	0.005	N/A	A415239
o,p'-DDE	ug/L	<0.005	<0.005	0.005	N/A	A415239
p,p'-DDE	ug/L	<0.005	<0.005	0.005	N/A	A415239
o,p'-DDD	ug/L	<0.005	<0.005	0.005	N/A	A415239
p,p'-DDD	ug/L	<0.005	<0.005	0.005	N/A	A415239
p,p'-DDT	ug/L	<0.005	<0.005	0.005	N/A	A415239
Methoxychlor	ug/L	<0.01	<0.01	0.01	N/A	A415239
<b>Surrogate Recovery (%)</b>						
2,4,5,6-Tetrachloro-m-xylene	%	85	79	N/A	N/A	A415239
Decachlorobiphenyl	%	120	113	N/A	N/A	A415239

RDL = Reportable Detection Limit

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### MICROBIOLOGY (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch

#### Microbiological Param.

E. coli	CFU/100mL	<1	<1	<1	1	N/A	A408244
Total Coliforms	CFU/100mL	<1	1	5	1	N/A	A408243

RDL = Reportable Detection Limit

N/A = Not Applicable

Bureau Veritas ID		AJL264	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch

#### Microbiological Param.

E. coli	CFU/100mL	<1	<1	1	N/A	A408244
Total Coliforms	CFU/100mL	<1	<1	1	N/A	A408243

RDL = Reportable Detection Limit

N/A = Not Applicable



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VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### RESIN AND FATTY ACIDS BY GC-MS (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch

#### Misc. Organics

Decanoic acid (C10)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Undecanoic acid (C11)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Dodecanoic acid (C12)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Tetradecanoic acid (C14)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Hexadecanoic acid (C16)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Octadecanoic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Oleic acid (C18:1)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Linoleic acid (C18:2)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Linolenic acid (C18:3)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Eicosanoic acid (C20)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Docosanoic acid (C22)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
9,10-dichlorostearic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Pimaric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Sandaracopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Isopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Palustric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Dehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Abietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Neoabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
14-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
12-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
12,14-dichlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
* Total of Resin Acids Detected	mg/L	<0.060	<0.060	<0.060	0.060	N/A	A412143
* Total of Fatty Acids Detected	mg/L	<0.072	<0.072	<0.072	0.072	N/A	A412143

#### Surrogate Recovery (%)

HEPTADECANOIC ACID (sur.)	%	95	90	87	N/A	N/A	A412143
O-METHYLPODOCARPIC ACID (sur.)	%	123	113	113	N/A	N/A	A412143

RDL = Reportable Detection Limit

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### RESIN AND FATTY ACIDS BY GC-MS (WATER)

Bureau Veritas ID		AJL264	AJL265	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	WG-11218464-291021 -NT-05 Lab-Dup	RDL	MDL	QC Batch

#### Misc. Organics

Decanoic acid (C10)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Undecanoic acid (C11)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Dodecanoic acid (C12)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Tetradecanoic acid (C14)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Hexadecanoic acid (C16)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Octadecanoic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Oleic acid (C18:1)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Linoleic acid (C18:2)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Linolenic acid (C18:3)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Eicosanoic acid (C20)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Docosanoic acid (C22)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
9,10-dichlorostearic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Pimamic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Sandaracopimamic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Isopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Palustric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Dehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Abietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
Neoabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
14-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
12-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
12,14-dichlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A412143
* Total of Resin Acids Detected	mg/L	<0.060	<0.060	<0.060	0.060	N/A	A412143
* Total of Fatty Acids Detected	mg/L	<0.072	<0.072	<0.072	0.072	N/A	A412143

#### Surrogate Recovery (%)

HEPTADECANOIC ACID (sur.)	%	89	97	91	N/A	N/A	A412143
O-METHYLOPODOCARPIC ACID (sur.)	%	111	123	112	N/A	N/A	A412143

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR DISSOLVED METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL261		AJL262	AJL262			
Sampling Date		2021/10/29 11:00		2021/10/29 12:00	2021/10/29 12:00			
COC Number		C#651224-01-01		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	QC Batch	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-02 Lab-Dup	RDL	MDL	QC Batch

#### Calculated Parameters

Dissolved Hardness (CaCO <sub>3</sub> )	mg/L	54.1	A407752	43.2	N/A	0.50	0.50	A407752
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#### Elements

Dissolved Mercury (Hg)	ug/L	<0.0019	A409805	<0.0019	N/A	0.0019	0.0019	A409805
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#### Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	7.9	A409848	3.1	3.4	3.0	0.030	A410864
Dissolved Antimony (Sb)	ug/L	<0.50	A409848	<0.50	<0.50	0.50	0.0020	A410864
Dissolved Arsenic (As)	ug/L	0.30	A409848	0.25	0.27	0.10	0.010	A410864
Dissolved Barium (Ba)	ug/L	<1.0	A409848	<1.0	<1.0	1.0	0.0020	A410864
Dissolved Beryllium (Be)	ug/L	<0.10	A409848	<0.10	<0.10	0.10	0.0030	A410864
Dissolved Bismuth (Bi)	ug/L	<1.0	A409848	<1.0	<1.0	1.0	0.0010	A410864
Dissolved Boron (B)	ug/L	<50	A409848	<50	<50	50	50	A410864
Dissolved Cadmium (Cd)	ug/L	<0.010	A409848	<0.010	<0.010	0.010	0.0020	A410864
Dissolved Chromium (Cr)	ug/L	<1.0	A409848	<1.0	<1.0	1.0	0.020	A410864
Dissolved Cobalt (Co)	ug/L	<0.20	A409848	<0.20	<0.20	0.20	0.20	A410864
Dissolved Copper (Cu)	ug/L	<0.20	A409848	<0.20	<0.20	0.20	0.010	A410864
Dissolved Iron (Fe)	ug/L	<5.0	A409848	<5.0	<5.0	5.0	0.040	A410864
Dissolved Lead (Pb)	ug/L	<0.20	A409848	<0.20	<0.20	0.20	0.0010	A410864
Dissolved Lithium (Li)	ug/L	<2.0	A409848	<2.0	<2.0	2.0	2.0	A410864
Dissolved Manganese (Mn)	ug/L	<1.0	A409848	<1.0	<1.0	1.0	0.030	A410864
Dissolved Molybdenum (Mo)	ug/L	<1.0	A409848	<1.0	<1.0	1.0	0.0020	A410864
Dissolved Nickel (Ni)	ug/L	<1.0	A409848	<1.0	<1.0	1.0	0.010	A410864
Dissolved Phosphorus (P)	ug/L	<10	A409848	<10	<10	10	1.0	A410864
Dissolved Selenium (Se)	ug/L	<0.10	A409848	<0.10	<0.10	0.10	0.0060	A410864
Dissolved Silicon (Si)	ug/L	2970	A409848	3270	3290	100	0.30	A410864
Dissolved Silver (Ag)	ug/L	<0.020	A409848	<0.020	<0.020	0.020	0.0020	A410864
Dissolved Strontium (Sr)	ug/L	31.6	A409848	25.7	26.1	1.0	0.0020	A410864
Dissolved Thallium (Tl)	ug/L	<0.010	A409848	<0.010	<0.010	0.010	0.010	A410864
Dissolved Tin (Sn)	ug/L	<5.0	A409848	<5.0	<5.0	5.0	0.0050	A410864
Dissolved Titanium (Ti)	ug/L	<5.0	A409848	<5.0	<5.0	5.0	0.30	A410864

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR DISSOLVED METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL261		AJL262	AJL262			
Sampling Date		2021/10/29 11:00		2021/10/29 12:00	2021/10/29 12:00			
COC Number		C#651224-01-01		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	QC Batch	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-02 Lab-Dup	RDL	MDL	QC Batch
Dissolved Uranium (U)	ug/L	0.16	A409848	<0.10	<0.10	0.10	0.0010	A410864
Dissolved Vanadium (V)	ug/L	<5.0	A409848	<5.0	<5.0	5.0	0.020	A410864
Dissolved Zinc (Zn)	ug/L	<5.0	A409848	<5.0	<5.0	5.0	0.050	A410864
Dissolved Zirconium (Zr)	ug/L	<0.10	A409848	<0.10	<0.10	0.10	0.0080	A410864
Dissolved Calcium (Ca)	mg/L	18.1	A407753	14.3	N/A	0.050	0.0010	A407753
Dissolved Magnesium (Mg)	mg/L	2.14	A407753	1.85	N/A	0.050	0.00050	A407753
Dissolved Potassium (K)	mg/L	0.153	A407753	0.100	N/A	0.050	0.0020	A407753
Dissolved Sodium (Na)	mg/L	1.63	A407753	1.26	N/A	0.050	0.0010	A407753
Dissolved Sulphur (S)	mg/L	<3.0	A407753	<3.0	N/A	3.0	1.0	A407753

RDL = Reportable Detection Limit  
 Lab-Dup = Laboratory Initiated Duplicate  
 N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR DISSOLVED METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL263	AJL264		AJL265			
Sampling Date		2021/10/29 12:30	2021/10/29 13:15		2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01		C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-03	WG-11218464-291021 -NT-04	QC Batch	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch

#### Calculated Parameters

Dissolved Hardness (CaCO <sub>3</sub> )	mg/L	29.3	30.4	A407752	<0.50	0.50	0.50	A407752
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#### Elements

Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	A409805	<0.0019	0.0019	0.0019	A410029
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#### Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	468	3.9	A410864	<3.0	3.0	0.030	A410864
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	A410864	<0.50	0.50	0.0020	A410864
Dissolved Arsenic (As)	ug/L	0.28	0.40	A410864	<0.10	0.10	0.010	A410864
Dissolved Barium (Ba)	ug/L	1.8	<1.0	A410864	<1.0	1.0	0.0020	A410864
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	A410864	<0.10	0.10	0.0030	A410864
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	A410864	<1.0	1.0	0.0010	A410864
Dissolved Boron (B)	ug/L	<50	<50	A410864	<50	50	50	A410864
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	A410864	<0.010	0.010	0.0020	A410864
Dissolved Chromium (Cr)	ug/L	1.1	<1.0	A410864	<1.0	1.0	0.020	A410864
Dissolved Cobalt (Co)	ug/L	3.08	<0.20	A410864	<0.20	0.20	0.20	A410864
Dissolved Copper (Cu)	ug/L	12.0	<0.20	A410864	<0.20	0.20	0.010	A410864
Dissolved Iron (Fe)	ug/L	2280	<5.0	A410864	<5.0	5.0	0.040	A410864
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	A410864	<0.20	0.20	0.0010	A410864
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	A410864	<2.0	2.0	2.0	A410864
Dissolved Manganese (Mn)	ug/L	167	<1.0	A410864	<1.0	1.0	0.030	A410864
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	A410864	<1.0	1.0	0.0020	A410864
Dissolved Nickel (Ni)	ug/L	2.5	<1.0	A410864	<1.0	1.0	0.010	A410864
Dissolved Phosphorus (P)	ug/L	10	<10	A410864	<10	10	1.0	A410864
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	A410864	<0.10	0.10	0.0060	A410864
Dissolved Silicon (Si)	ug/L	3610	3390	A410864	<100	100	0.30	A410864
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	A410864	<0.020	0.020	0.0020	A410864
Dissolved Strontium (Sr)	ug/L	19.2	16.1	A410864	<1.0	1.0	0.0020	A410864
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	A410864	<0.010	0.010	0.010	A410864
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	A410864	<5.0	5.0	0.0050	A410864
Dissolved Titanium (Ti)	ug/L	10.5	<5.0	A410864	<5.0	5.0	0.30	A410864
Dissolved Uranium (U)	ug/L	0.21	<0.10	A410864	<0.10	0.10	0.0010	A410864
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	A410864	<5.0	5.0	0.020	A410864

RDL = Reportable Detection Limit



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR DISSOLVED METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL263	AJL264		AJL265			
Sampling Date		2021/10/29 12:30	2021/10/29 13:15		2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01		C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-03	WG-11218464-291021 -NT-04	QC Batch	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch
Dissolved Zinc (Zn)	ug/L	6.8	<5.0	A410864	<5.0	5.0	0.050	A410864
Dissolved Zirconium (Zr)	ug/L	0.33	<0.10	A410864	<0.10	0.10	0.0080	A410864
Dissolved Calcium (Ca)	mg/L	8.89	9.83	A407753	<0.050	0.050	0.0010	A407753
Dissolved Magnesium (Mg)	mg/L	1.72	1.42	A407753	<0.050	0.050	0.00050	A407753
Dissolved Potassium (K)	mg/L	0.144	0.081	A407753	<0.050	0.050	0.0020	A407753
Dissolved Sodium (Na)	mg/L	1.58	1.01	A407753	<0.050	0.050	0.0010	A407753
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	A407753	<3.0	3.0	1.0	A407753
RDL = Reportable Detection Limit								



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VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch

#### Calculated Parameters

Total Hardness (CaCO3)	mg/L	55.6	45.4	32.3	0.50	0.50	A407751
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#### Elements

Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	0.0019	0.0019	A409977
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#### Total Metals by ICPMS

Total Aluminum (Al)	ug/L	71.0	28.8	696	3.0	0.030	A412420
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	0.0020	A412420
Total Arsenic (As)	ug/L	0.33	0.31	0.36	0.10	0.010	A412420
Total Barium (Ba)	ug/L	1.3	<1.0	2.4	1.0	0.0020	A412420
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	0.0030	A412420
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	0.0010	A412420
Total Boron (B)	ug/L	<50	<50	<50	50	50	A412420
Total Cadmium (Cd)	ug/L	<0.010	<0.010	0.012	0.010	0.0020	A412420
Total Chromium (Cr)	ug/L	<1.0	<1.0	1.6	1.0	0.020	A412420
Total Cobalt (Co)	ug/L	<0.20	<0.20	3.14	0.20	0.20	A412420
Total Copper (Cu)	ug/L	0.57	<0.50	15.2	0.50	0.030	A412420
Total Iron (Fe)	ug/L	108	48	2640	10	0.70	A412420
Total Lead (Pb)	ug/L	<0.20	<0.20	0.23	0.20	0.0010	A412420
Total Lithium (Li)	ug/L	<2.0	<2.0	<2.0	2.0	2.0	A412420
Total Manganese (Mn)	ug/L	7.5	1.6	170	1.0	0.030	A412420
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	1.0	0.0020	A412420
Total Nickel (Ni)	ug/L	<1.0	<1.0	2.8	1.0	0.010	A412420
Total Phosphorus (P)	ug/L	11	<10	20	10	1.0	A412420
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	0.10	0.0060	A412420
Total Silicon (Si)	ug/L	2630	2940	3530	100	0.30	A412420
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	0.0020	A412420
Total Strontium (Sr)	ug/L	33.7	28.2	21.7	1.0	0.0020	A412420
Total Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	0.010	0.010	A412420
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	0.0050	A412420
Total Titanium (Ti)	ug/L	5.4	<5.0	27.9	5.0	0.30	A412420
Total Uranium (U)	ug/L	0.18	<0.10	0.30	0.10	0.0010	A412420
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	0.020	A412420

RDL = Reportable Detection Limit



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch
Total Zinc (Zn)	ug/L	<5.0	<5.0	8.6	5.0	0.050	A412420
Total Zirconium (Zr)	ug/L	<0.10	<0.10	0.22	0.10	0.0080	A412420
Total Calcium (Ca)	mg/L	18.6	14.8	9.79	0.050	0.0010	A407754
Total Magnesium (Mg)	mg/L	2.26	2.02	1.91	0.050	0.00050	A407754
Total Potassium (K)	mg/L	0.154	0.108	0.164	0.050	0.0020	A407754
Total Sodium (Na)	mg/L	1.74	1.39	1.70	0.050	0.0010	A407754
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	3.0	1.0	A407754
RDL = Reportable Detection Limit							

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VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

**CSR TOTAL METALS IN WATER WITH CV HG (WATER)**

Bureau Veritas ID		AJL264	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch

**Calculated Parameters**

Total Hardness (CaCO3)	mg/L	32.0	<0.50	0.50	0.50	A407751
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**Elements**

Total Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	0.0019	A409977
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**Total Metals by ICPMS**

Total Aluminum (Al)	ug/L	43.7	<3.0	3.0	0.030	A412420
Total Antimony (Sb)	ug/L	<0.50	<0.50	0.50	0.0020	A412420
Total Arsenic (As)	ug/L	0.43	<0.10	0.10	0.010	A412420
Total Barium (Ba)	ug/L	1.2	<1.0	1.0	0.0020	A412420
Total Beryllium (Be)	ug/L	<0.10	<0.10	0.10	0.0030	A412420
Total Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	0.0010	A412420
Total Boron (B)	ug/L	<50	<50	50	50	A412420
Total Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	0.0020	A412420
Total Chromium (Cr)	ug/L	<1.0	1.0	1.0	0.020	A412420
Total Cobalt (Co)	ug/L	<0.20	<0.20	0.20	0.20	A412420
Total Copper (Cu)	ug/L	3.57	<0.50	0.50	0.030	A412420
Total Iron (Fe)	ug/L	76	<10	10	0.70	A412420
Total Lead (Pb)	ug/L	<0.20	<0.20	0.20	0.0010	A412420
Total Lithium (Li)	ug/L	<2.0	<2.0	2.0	2.0	A412420
Total Manganese (Mn)	ug/L	38.9	<1.0	1.0	0.030	A412420
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	1.0	0.0020	A412420
Total Nickel (Ni)	ug/L	<1.0	<1.0	1.0	0.010	A412420
Total Phosphorus (P)	ug/L	<10	<10	10	1.0	A412420
Total Selenium (Se)	ug/L	<0.10	<0.10	0.10	0.0060	A412420
Total Silicon (Si)	ug/L	3140	<100	100	0.30	A412420
Total Silver (Ag)	ug/L	<0.020	<0.020	0.020	0.0020	A412420
Total Strontium (Sr)	ug/L	18.1	<1.0	1.0	0.0020	A412420
Total Thallium (Tl)	ug/L	<0.010	<0.010	0.010	0.010	A412420
Total Tin (Sn)	ug/L	<5.0	<5.0	5.0	0.0050	A412420
Total Titanium (Ti)	ug/L	<5.0	<5.0	5.0	0.30	A412420
Total Uranium (U)	ug/L	<0.10	<0.10	0.10	0.0010	A412420
Total Vanadium (V)	ug/L	<5.0	<5.0	5.0	0.020	A412420

RDL = Reportable Detection Limit



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VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AJL264	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch
Total Zinc (Zn)	ug/L	<5.0	<5.0	5.0	0.050	A412420
Total Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	0.0080	A412420
Total Calcium (Ca)	mg/L	10.3	<0.050	0.050	0.0010	A407754
Total Magnesium (Mg)	mg/L	1.50	<0.050	0.050	0.00050	A407754
Total Potassium (K)	mg/L	0.089	<0.050	0.050	0.0020	A407754
Total Sodium (Na)	mg/L	1.11	<0.050	0.050	0.0010	A407754
Total Sulphur (S)	mg/L	<3.0	<3.0	3.0	1.0	A407754
RDL = Reportable Detection Limit						



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### CSR PAH IN WATER BY GC-MS (WATER)

Bureau Veritas ID		AJL261	AJL262	AJL263			
Sampling Date		2021/10/29 11:00	2021/10/29 12:00	2021/10/29 12:30			
COC Number		C#651224-01-01	C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-01	WG-11218464-291021 -NT-02	WG-11218464-291021 -NT-03	RDL	MDL	QC Batch

#### Calculated Parameters

Low Molecular Weight PAH's	ug/L	<0.10	<0.10	<0.10	0.10	0.010	A407907
High Molecular Weight PAH's	ug/L	<0.050	<0.050	<0.050	0.050	0.020	A407907
Total PAH	ug/L	<0.10	<0.10	<0.10	0.10	0.010	A407907

#### Polycyclic Aromatics

Quinoline	ug/L	<0.020	<0.020	<0.020	0.020	0.020	A411781
Naphthalene	ug/L	<0.10	<0.10	<0.10	0.10	0.050	A411781
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781
2-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	0.10	0.050	A411781
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781
Acenaphthene	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781
Fluorene	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781
Phenanthrene	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781
Anthracene	ug/L	<0.010	<0.010	<0.010	0.010	0.010	A411781
Acridine	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781
Fluoranthene	ug/L	<0.020	<0.020	<0.020	0.020	0.020	A411781
Pyrene	ug/L	<0.020	<0.020	<0.020	0.020	0.020	A411781
Benzo(a)anthracene	ug/L	<0.010	<0.010	<0.010	0.010	0.010	A411781
Chrysene	ug/L	<0.020	<0.020	<0.020	0.020	0.020	A411781
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	<0.030	0.030	0.030	A411781
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	<0.0050	0.0050	0.0050	A411781
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	<0.0030	0.0030	0.0030	A411781
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	0.050	0.050	A411781

#### Surrogate Recovery (%)

D10-ANTHRACENE (sur.)	%	87	89	84	N/A	N/A	A411781
D8-ACENAPHTHYLENE (sur.)	%	87	85	87	N/A	N/A	A411781
D8-NAPHTHALENE (sur.)	%	83	78	78	N/A	N/A	A411781
TERPHENYL-D14 (sur.)	%	82	84	66	N/A	N/A	A411781

RDL = Reportable Detection Limit

N/A = Not Applicable

BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

**CSR PAH IN WATER BY GC-MS (WATER)**

Bureau Veritas ID		AJL264	AJL265			
Sampling Date		2021/10/29 13:15	2021/10/29 16:00			
COC Number		C#651224-01-01	C#651224-01-01			
	UNITS	WG-11218464-291021 -NT-04	WG-11218464-291021 -NT-05	RDL	MDL	QC Batch

**Calculated Parameters**

Low Molecular Weight PAH's	ug/L	<0.10	<0.10	0.10	0.010	A407907
High Molecular Weight PAH's	ug/L	<0.050	<0.050	0.050	0.020	A407907
Total PAH	ug/L	<0.10	<0.10	0.10	0.010	A407907

**Polycyclic Aromatics**

Quinoline	ug/L	<0.020	<0.020	0.020	0.020	A411781
Naphthalene	ug/L	<0.10	<0.10	0.10	0.050	A411781
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	0.050	A411781
2-Methylnaphthalene	ug/L	<0.10	<0.10	0.10	0.050	A411781
Acenaphthylene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Acenaphthene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Fluorene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Phenanthrene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Anthracene	ug/L	<0.010	<0.010	0.010	0.010	A411781
Acridine	ug/L	<0.050	<0.050	0.050	0.050	A411781
Fluoranthene	ug/L	<0.020	<0.020	0.020	0.020	A411781
Pyrene	ug/L	<0.020	<0.020	0.020	0.020	A411781
Benzo(a)anthracene	ug/L	<0.010	<0.010	0.010	0.010	A411781
Chrysene	ug/L	<0.020	<0.020	0.020	0.020	A411781
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	0.030	0.030	A411781
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	0.0050	0.0050	A411781
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	0.050	A411781
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	0.0030	0.0030	A411781
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	0.050	A411781

**Surrogate Recovery (%)**

D10-ANTHRACENE (sur.)	%	88	91	N/A	N/A	A411781
D8-ACENAPHTHYLENE (sur.)	%	85	88	N/A	N/A	A411781
D8-NAPHTHALENE (sur.)	%	85	81	N/A	N/A	A411781
TERPHENYL-D14 (sur.)	%	82	84	N/A	N/A	A411781

RDL = Reportable Detection Limit

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

## GENERAL COMMENTS

**Results relate only to the items tested.**



BUREAU  
VERITAS

Bureau Veritas Job #: C183596  
Report Date: 2021/11/16

## QUALITY ASSURANCE REPORT

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A411650	NONACHLOROBIPHENYL (sur.)	2021/11/03	86	50 - 130	80	50 - 130	82	%		
A411781	D10-ANTHRACENE (sur.)	2021/11/03	81	50 - 140	102	50 - 140	88	%		
A411781	D8-ACENAPHTHYLENE (sur.)	2021/11/03	85	50 - 140	98	50 - 140	84	%		
A411781	D8-NAPHTHALENE (sur.)	2021/11/03	83	50 - 140	93	50 - 140	80	%		
A411781	TERPHENYL-D14 (sur.)	2021/11/03	74	50 - 140	101	50 - 140	83	%		
A412143	HEPTADECANOIC ACID (sur.)	2021/11/03	92	50 - 130	102	50 - 130	90	%		
A412143	O-METHYLOPODOCARPIC ACID (sur.)	2021/11/03	108	50 - 130	129	50 - 130	116	%		
A415239	2,4,5,6-Tetrachloro-m-xylene	2021/11/04	90 (11)	50 - 130	80	50 - 130	79	%		
A415239	Decachlorobiphenyl	2021/11/04	116 (11)	50 - 130	100	50 - 130	101	%		
A421424	2-Fluorobiphenyl	2021/11/08	83	30 - 130	68	30 - 130	66	%		
A421424	D14-Terphenyl (FS)	2021/11/08	99	30 - 130	101	30 - 130	96	%		
A421424	D5-NITROBENZENE (sur.)	2021/11/08	87	30 - 130	85	30 - 130	75	%		
A421425	2-Fluorobiphenyl	2021/11/06	65 (12)	30 - 130	77	30 - 130	71	%		
A421425	D14-Terphenyl (FS)	2021/11/06	97 (12)	30 - 130	94	30 - 130	95	%		
A421425	D5-NITROBENZENE (sur.)	2021/11/06	83 (12)	30 - 130	90	30 - 130	91	%		
A421426	2,4-Dichlorophenyl Acetic Acid	2021/11/05	102 (13)	50 - 130	102	50 - 130	92	%		
A421426	2,5-Dibromobenzoic Acid	2021/11/05	97 (13)	10 - 130	98	10 - 130	84	%		
A421426	4,4-Dibromobiphenyl	2021/11/05	94 (13)	10 - 130	94	10 - 130	91	%		
A408174	Nitrate plus Nitrite (N)	2021/10/30	98	80 - 120	109	80 - 120	<0.020	mg/L	0.96 (1)	25
A408175	Nitrite (N)	2021/10/30	101	80 - 120	105	80 - 120	<0.0050	mg/L	NC (1)	20
A408188	Nitrate plus Nitrite (N)	2021/10/30	106 (2)	80 - 120	108	80 - 120	<0.020	mg/L	NC (3)	25
A408189	Nitrite (N)	2021/10/30	104 (2)	80 - 120	104	80 - 120	<0.0050	mg/L	NC (3)	20
A409805	Dissolved Mercury (Hg)	2021/11/01	75 (4)	80 - 120	84	80 - 120	<0.0019	ug/L	NC (1)	20
A409848	Dissolved Aluminum (Al)	2021/11/02	92	80 - 120	100	80 - 120	<3.0	ug/L	NC (1)	20
A409848	Dissolved Antimony (Sb)	2021/11/02	96	80 - 120	104	80 - 120	<0.50	ug/L	NC (1)	20
A409848	Dissolved Arsenic (As)	2021/11/02	99	80 - 120	100	80 - 120	<0.10	ug/L	1.4 (1)	20
A409848	Dissolved Barium (Ba)	2021/11/02	NC	80 - 120	100	80 - 120	<1.0	ug/L	1.4 (1)	20
A409848	Dissolved Beryllium (Be)	2021/11/02	98	80 - 120	108	80 - 120	<0.10	ug/L	NC (1)	20
A409848	Dissolved Bismuth (Bi)	2021/11/02	87	80 - 120	98	80 - 120	<1.0	ug/L	NC (1)	20
A409848	Dissolved Boron (B)	2021/11/02	96	80 - 120	105	80 - 120	<50	ug/L	1.2 (1)	20
A409848	Dissolved Cadmium (Cd)	2021/11/02	95	80 - 120	102	80 - 120	<0.010	ug/L	NC (1)	20



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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A409848	Dissolved Chromium (Cr)	2021/11/02	88	80 - 120	98	80 - 120	<1.0	ug/L	NC (1)	20
A409848	Dissolved Cobalt (Co)	2021/11/02	86	80 - 120	100	80 - 120	<0.20	ug/L	NC (1)	20
A409848	Dissolved Copper (Cu)	2021/11/02	82	80 - 120	97	80 - 120	<0.20	ug/L	NC (1)	20
A409848	Dissolved Iron (Fe)	2021/11/02	90	80 - 120	104	80 - 120	<5.0	ug/L	1.0 (1)	20
A409848	Dissolved Lead (Pb)	2021/11/02	92	80 - 120	100	80 - 120	<0.20	ug/L	NC (1)	20
A409848	Dissolved Lithium (Li)	2021/11/02	96	80 - 120	112	80 - 120	<2.0	ug/L	0.057 (1)	20
A409848	Dissolved Manganese (Mn)	2021/11/02	NC	80 - 120	99	80 - 120	<1.0	ug/L	2.6 (1)	20
A409848	Dissolved Molybdenum (Mo)	2021/11/02	101	80 - 120	102	80 - 120	<1.0	ug/L	2.1 (1)	20
A409848	Dissolved Nickel (Ni)	2021/11/02	85	80 - 120	98	80 - 120	<1.0	ug/L	NC (1)	20
A409848	Dissolved Phosphorus (P)	2021/11/02	96	80 - 120	101	80 - 120	<10	ug/L		
A409848	Dissolved Selenium (Se)	2021/11/02	97	80 - 120	103	80 - 120	<0.10	ug/L	NC (1)	20
A409848	Dissolved Silicon (Si)	2021/11/02	NC	80 - 120	113	80 - 120	<100	ug/L	1.5 (1)	20
A409848	Dissolved Silver (Ag)	2021/11/02	92	80 - 120	100	80 - 120	<0.020	ug/L	NC (1)	20
A409848	Dissolved Strontium (Sr)	2021/11/02	NC	80 - 120	100	80 - 120	<1.0	ug/L	0.59 (1)	20
A409848	Dissolved Thallium (Tl)	2021/11/02	91	80 - 120	80	80 - 120	<0.010	ug/L	NC (1)	20
A409848	Dissolved Tin (Sn)	2021/11/02	93	80 - 120	102	80 - 120	<5.0	ug/L	NC (1)	20
A409848	Dissolved Titanium (Ti)	2021/11/02	94	80 - 120	103	80 - 120	<5.0	ug/L	NC (1)	20
A409848	Dissolved Uranium (U)	2021/11/02	97	80 - 120	100	80 - 120	<0.10	ug/L	2.3 (1)	20
A409848	Dissolved Vanadium (V)	2021/11/02	92	80 - 120	100	80 - 120	<5.0	ug/L	NC (1)	20
A409848	Dissolved Zinc (Zn)	2021/11/02	87	80 - 120	102	80 - 120	<5.0	ug/L	NC (1)	20
A409848	Dissolved Zirconium (Zr)	2021/11/02	97	80 - 120	96	80 - 120	<0.10	ug/L	NC (1)	20
A409910	Turbidity	2021/11/01			99	80 - 120	<0.10	NTU	0.37 (5)	20
A409977	Total Mercury (Hg)	2021/11/02	72 (4)	80 - 120	88	80 - 120	<0.0019	ug/L	NC (1)	20
A410029	Dissolved Mercury (Hg)	2021/11/02	82	80 - 120	96	80 - 120	<0.0019	ug/L	NC (1)	20
A410600	Total Ammonia (N)	2021/11/02	95	80 - 120	87	80 - 120	<0.015	mg/L	NC (1)	20
A410864	Dissolved Aluminum (Al)	2021/11/03	92 (6)	80 - 120	96	80 - 120	<3.0	ug/L	8.3 (7)	20
A410864	Dissolved Antimony (Sb)	2021/11/03	98 (6)	80 - 120	105	80 - 120	<0.50	ug/L	NC (7)	20
A410864	Dissolved Arsenic (As)	2021/11/03	97 (6)	80 - 120	101	80 - 120	<0.10	ug/L	4.0 (7)	20
A410864	Dissolved Barium (Ba)	2021/11/03	97 (6)	80 - 120	101	80 - 120	<1.0	ug/L	NC (7)	20
A410864	Dissolved Beryllium (Be)	2021/11/03	102 (6)	80 - 120	110	80 - 120	<0.10	ug/L	NC (7)	20
A410864	Dissolved Bismuth (Bi)	2021/11/03	92 (6)	80 - 120	95	80 - 120	<1.0	ug/L	NC (7)	20



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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A410864	Dissolved Boron (B)	2021/11/03	97 (6)	80 - 120	103	80 - 120	<50	ug/L	NC (7)	20
A410864	Dissolved Cadmium (Cd)	2021/11/03	98 (6)	80 - 120	105	80 - 120	<0.010	ug/L	NC (7)	20
A410864	Dissolved Chromium (Cr)	2021/11/03	97 (6)	80 - 120	101	80 - 120	<1.0	ug/L	NC (7)	20
A410864	Dissolved Cobalt (Co)	2021/11/03	99 (6)	80 - 120	104	80 - 120	<0.20	ug/L	NC (7)	20
A410864	Dissolved Copper (Cu)	2021/11/03	96 (6)	80 - 120	103	80 - 120	<0.20	ug/L	NC (7)	20
A410864	Dissolved Iron (Fe)	2021/11/03	103 (6)	80 - 120	105	80 - 120	<5.0	ug/L	NC (7)	20
A410864	Dissolved Lead (Pb)	2021/11/03	96 (6)	80 - 120	100	80 - 120	<0.20	ug/L	NC (7)	20
A410864	Dissolved Lithium (Li)	2021/11/03	102 (6)	80 - 120	102	80 - 120	<2.0	ug/L	NC (7)	20
A410864	Dissolved Manganese (Mn)	2021/11/03	95 (6)	80 - 120	100	80 - 120	<1.0	ug/L	NC (7)	20
A410864	Dissolved Molybdenum (Mo)	2021/11/03	101 (6)	80 - 120	103	80 - 120	<1.0	ug/L	NC (7)	20
A410864	Dissolved Nickel (Ni)	2021/11/03	99 (6)	80 - 120	105	80 - 120	<1.0	ug/L	NC (7)	20
A410864	Dissolved Phosphorus (P)	2021/11/03	97 (6)	80 - 120	99	80 - 120	<10	ug/L	NC (7)	20
A410864	Dissolved Selenium (Se)	2021/11/03	99 (6)	80 - 120	105	80 - 120	<0.10	ug/L	NC (7)	20
A410864	Dissolved Silicon (Si)	2021/11/03	97 (6)	80 - 120	99	80 - 120	<100	ug/L	0.36 (7)	20
A410864	Dissolved Silver (Ag)	2021/11/03	96 (6)	80 - 120	99	80 - 120	<0.020	ug/L	NC (7)	20
A410864	Dissolved Strontium (Sr)	2021/11/03	94 (6)	80 - 120	95	80 - 120	<1.0	ug/L	1.5 (7)	20
A410864	Dissolved Thallium (Tl)	2021/11/03	99 (6)	80 - 120	100	80 - 120	<0.010	ug/L	NC (7)	20
A410864	Dissolved Tin (Sn)	2021/11/03	96 (6)	80 - 120	101	80 - 120	<5.0	ug/L	NC (7)	20
A410864	Dissolved Titanium (Ti)	2021/11/03	100 (6)	80 - 120	103	80 - 120	<5.0	ug/L	NC (7)	20
A410864	Dissolved Uranium (U)	2021/11/03	94 (6)	80 - 120	92	80 - 120	<0.10	ug/L	NC (7)	20
A410864	Dissolved Vanadium (V)	2021/11/03	97 (6)	80 - 120	100	80 - 120	<5.0	ug/L	NC (7)	20
A410864	Dissolved Zinc (Zn)	2021/11/03	101 (6)	80 - 120	112	80 - 120	<5.0	ug/L	NC (7)	20
A410864	Dissolved Zirconium (Zr)	2021/11/03	99 (6)	80 - 120	98	80 - 120	<0.10	ug/L	NC (7)	20
A411650	Aroclor 1016	2021/11/03					<0.050	ug/L	NC (8)	30
A411650	Aroclor 1221	2021/11/03					<0.050	ug/L	NC (8)	30
A411650	Aroclor 1232	2021/11/03					<0.050	ug/L	NC (8)	30
A411650	Aroclor 1242	2021/11/03					<0.050	ug/L	NC (8)	30
A411650	Aroclor 1248	2021/11/03					<0.050	ug/L	NC (8)	30
A411650	Aroclor 1254	2021/11/03					<0.050	ug/L	NC (8)	30
A411650	Aroclor 1260	2021/11/03	80	50 - 130	76	50 - 130	<0.050	ug/L	NC (8)	30
A411650	Aroclor 1262	2021/11/03					<0.050	ug/L	NC (8)	30



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GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A411650	Aroclor 1268	2021/11/03					<0.050	ug/L	NC (8)	30
A411781	1-Methylnaphthalene	2021/11/03	86	50 - 140	91	50 - 140	<0.050	ug/L	NC (1)	40
A411781	2-Methylnaphthalene	2021/11/03	84	50 - 140	88	50 - 140	<0.10	ug/L	NC (1)	40
A411781	Acenaphthene	2021/11/03	89	50 - 140	98	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Acenaphthylene	2021/11/03	86	50 - 140	93	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Acridine	2021/11/03	105	50 - 140	100	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Anthracene	2021/11/03	86	50 - 140	101	50 - 140	<0.010	ug/L	NC (1)	40
A411781	Benzo(a)anthracene	2021/11/03	86	50 - 140	99	50 - 140	<0.010	ug/L	NC (1)	40
A411781	Benzo(a)pyrene	2021/11/03	52	50 - 140	88	50 - 140	<0.0050	ug/L	NC (1)	40
A411781	Benzo(b&j)fluoranthene	2021/11/03	57	50 - 140	94	50 - 140	<0.030	ug/L	NC (1)	40
A411781	Benzo(g,h,i)perylene	2021/11/03	48 (4)	50 - 140	101	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Benzo(k)fluoranthene	2021/11/03	54	50 - 140	112	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Chrysene	2021/11/03	88	50 - 140	100	50 - 140	<0.020	ug/L	NC (1)	40
A411781	Dibenz(a,h)anthracene	2021/11/03	51	50 - 140	105	50 - 140	<0.0030	ug/L	NC (1)	40
A411781	Fluoranthene	2021/11/03	87	50 - 140	86	50 - 140	<0.020	ug/L	NC (1)	40
A411781	Fluorene	2021/11/03	85	50 - 140	94	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Indeno(1,2,3-cd)pyrene	2021/11/03	52	50 - 140	108	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Naphthalene	2021/11/03	84	50 - 140	88	50 - 140	<0.10	ug/L	NC (1)	40
A411781	Phenanthrene	2021/11/03	91	50 - 140	97	50 - 140	<0.050	ug/L	NC (1)	40
A411781	Pyrene	2021/11/03	89	50 - 140	88	50 - 140	<0.020	ug/L	NC (1)	40
A411781	Quinoline	2021/11/03	118	50 - 140	113	50 - 140	<0.020	ug/L	NC (1)	40
A412143	* Total of Fatty Acids Detected	2021/11/06					<0.072	mg/L	NC (9)	30
A412143	* Total of Resin Acids Detected	2021/11/06					<0.060	mg/L	NC (9)	30
A412143	12,14-dichlorodehydroabietic acid	2021/11/06	116	50 - 130	110	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	12-chlorodehydroabietic acid	2021/11/06	124	50 - 130	104	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	14-chlorodehydroabietic acid	2021/11/06	126	50 - 130	102	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	9,10-dichlorostearic acid (C18)	2021/11/06	84	50 - 130	85	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Abietic acid	2021/11/06	122	50 - 130	88	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Decanoic acid (C10)	2021/11/06	109	50 - 130	91	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Dehydroabietic acid	2021/11/06	123	50 - 130	106	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Docosanoic acid (C22)	2021/11/06	102	50 - 130	89	50 - 130	<0.0060	mg/L	NC (9)	30



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Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A412143	Dodecanoic acid (C12)	2021/11/06	107	50 - 130	86	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Eicosanoic acid (C20)	2021/11/06	122	50 - 130	87	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Hexadecanoic acid (C16)	2021/11/06	104	50 - 130	102	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Isopimaric acid	2021/11/06	110	50 - 130	104	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Linoleic acid (C18:2)	2021/11/06	96	50 - 130	78	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Linolenic acid (C18:3)	2021/11/06	118	50 - 130	90	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Neoabietic acid	2021/11/06	90	50 - 130	89	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Octadecanoic acid (C18)	2021/11/06	130	50 - 130	109	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Oleic acid (C18:1)	2021/11/06	120	50 - 130	100	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Palustric acid	2021/11/06	62	50 - 130	100	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Pimamic acid	2021/11/06	92	50 - 130	93	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Sandaracopimamic acid	2021/11/06	106	50 - 130	102	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Tetradecanoic acid (C14)	2021/11/06	114	50 - 130	94	50 - 130	<0.0060	mg/L	NC (9)	30
A412143	Undecanoic acid (C11)	2021/11/06	114	50 - 130	88	50 - 130	<0.0060	mg/L	NC (9)	30
A412420	Total Aluminum (Al)	2021/11/04	94	80 - 120	95	80 - 120	<3.0	ug/L	4.6 (1)	20
A412420	Total Antimony (Sb)	2021/11/04	106	80 - 120	106	80 - 120	<0.50	ug/L	NC (1)	20
A412420	Total Arsenic (As)	2021/11/04	102	80 - 120	103	80 - 120	<0.10	ug/L	NC (1)	20
A412420	Total Barium (Ba)	2021/11/04	103	80 - 120	104	80 - 120	<1.0	ug/L	NC (1)	20
A412420	Total Beryllium (Be)	2021/11/04	97	80 - 120	100	80 - 120	<0.10	ug/L	NC (1)	20
A412420	Total Bismuth (Bi)	2021/11/04	100	80 - 120	100	80 - 120	<1.0	ug/L	NC (1)	20
A412420	Total Boron (B)	2021/11/04	96	80 - 120	99	80 - 120	<50	ug/L	NC (1)	20
A412420	Total Cadmium (Cd)	2021/11/04	104	80 - 120	105	80 - 120	<0.010	ug/L	NC (1)	20
A412420	Total Chromium (Cr)	2021/11/04	103	80 - 120	103	80 - 120	<1.0	ug/L	NC (1)	20
A412420	Total Cobalt (Co)	2021/11/04	103	80 - 120	104	80 - 120	<0.20	ug/L	NC (1)	20
A412420	Total Copper (Cu)	2021/11/04	102	80 - 120	103	80 - 120	<0.50	ug/L	NC (1)	20
A412420	Total Iron (Fe)	2021/11/04	104	80 - 120	105	80 - 120	<10	ug/L	5.9 (1)	20
A412420	Total Lead (Pb)	2021/11/04	100	80 - 120	100	80 - 120	<0.20	ug/L	NC (1)	20
A412420	Total Lithium (Li)	2021/11/04	101	80 - 120	100	80 - 120	<2.0	ug/L	NC (1)	20
A412420	Total Manganese (Mn)	2021/11/04	104	80 - 120	104	80 - 120	<1.0	ug/L	NC (1)	20
A412420	Total Molybdenum (Mo)	2021/11/04	107	80 - 120	107	80 - 120	<1.0	ug/L	NC (1)	20
A412420	Total Nickel (Ni)	2021/11/04	103	80 - 120	103	80 - 120	<1.0	ug/L	NC (1)	20



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GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHYSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A412420	Total Phosphorus (P)	2021/11/04	92	80 - 120	92	80 - 120	<10	ug/L	NC (1)	20
A412420	Total Selenium (Se)	2021/11/04	102	80 - 120	101	80 - 120	<0.10	ug/L	NC (1)	20
A412420	Total Silicon (Si)	2021/11/04	90	80 - 120	90	80 - 120	<100	ug/L	2.6 (1)	20
A412420	Total Silver (Ag)	2021/11/04	102	80 - 120	105	80 - 120	<0.020	ug/L	NC (1)	20
A412420	Total Strontium (Sr)	2021/11/04	102	80 - 120	104	80 - 120	<1.0	ug/L	1.7 (1)	20
A412420	Total Thallium (Tl)	2021/11/04	103	80 - 120	102	80 - 120	<0.010	ug/L	NC (1)	20
A412420	Total Tin (Sn)	2021/11/04	103	80 - 120	103	80 - 120	<5.0	ug/L	NC (1)	20
A412420	Total Titanium (Ti)	2021/11/04	108	80 - 120	107	80 - 120	<5.0	ug/L	NC (1)	20
A412420	Total Uranium (U)	2021/11/04	105	80 - 120	104	80 - 120	<0.10	ug/L	NC (1)	20
A412420	Total Vanadium (V)	2021/11/04	106	80 - 120	105	80 - 120	<5.0	ug/L	NC (1)	20
A412420	Total Zinc (Zn)	2021/11/04	105	80 - 120	105	80 - 120	<5.0	ug/L	NC (1)	20
A412420	Total Zirconium (Zr)	2021/11/04	104	80 - 120	101	80 - 120	<0.10	ug/L	NC (1)	20
A412473	pH	2021/11/01			101	97 - 103			0.53 (1)	N/A
A412474	Alkalinity (PP as CaCO <sub>3</sub> )	2021/11/01					<1.0	mg/L		
A412474	Alkalinity (Total as CaCO <sub>3</sub> )	2021/11/01	100 (10)	80 - 120	94	80 - 120	<1.0	mg/L		
A412474	Bicarbonate (HCO <sub>3</sub> )	2021/11/01					<1.0	mg/L		
A412474	Carbonate (CO <sub>3</sub> )	2021/11/01					<1.0	mg/L		
A412474	Hydroxide (OH)	2021/11/01					<1.0	mg/L		
A412475	Conductivity	2021/11/01			100	80 - 120	<2.0	uS/cm		
A412478	pH	2021/11/02			101	97 - 103			1.1 (1)	N/A
A412526	Alkalinity (PP as CaCO <sub>3</sub> )	2021/11/02					<1.0	mg/L	NC (1)	20
A412526	Alkalinity (Total as CaCO <sub>3</sub> )	2021/11/02	102	80 - 120	87	80 - 120	<1.0	mg/L	9.9 (1)	20
A412526	Bicarbonate (HCO <sub>3</sub> )	2021/11/02					<1.0	mg/L	9.9 (1)	20
A412526	Carbonate (CO <sub>3</sub> )	2021/11/02					<1.0	mg/L	NC (1)	20
A412526	Hydroxide (OH)	2021/11/02					<1.0	mg/L	NC (1)	20
A412527	Conductivity	2021/11/02			99	80 - 120	<2.0	uS/cm		
A413645	Dissolved Chloride (Cl)	2021/11/04			101	80 - 120	<1.0	mg/L		
A413645	Dissolved Sulphate (SO <sub>4</sub> )	2021/11/04			101	80 - 120	<1.0	mg/L		
A413988	Dissolved Fluoride (F)	2021/11/04	105	80 - 120	102	80 - 120	<0.050	mg/L	NC (1)	20
A415239	a-BHC	2021/11/04	101 (11)	30 - 130	99	30 - 130	<0.005	ug/L	6.3 (1)	40
A415239	a-Chlordane	2021/11/04	99 (11)	50 - 130	95	50 - 130	<0.005	ug/L	1.6 (1)	30



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Bureau Veritas Job #: C183596  
Report Date: 2021/11/16

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A415239	Aldrin	2021/11/04	93 (11)	50 - 130	81	50 - 130	<0.005	ug/L	9.6 (1)	30
A415239	b-BHC	2021/11/04	91 (11)	30 - 130	93	30 - 130	<0.005	ug/L	7.8 (1)	40
A415239	d-BHC	2021/11/04	96 (11)	30 - 130	95	30 - 130	<0.005	ug/L	4.9 (1)	40
A415239	Dieldrin	2021/11/04	115 (11)	50 - 130	110	50 - 130	<0.005	ug/L	2.8 (1)	30
A415239	Endosulfan I	2021/11/04	95 (11)	50 - 130	94	50 - 130	<0.005	ug/L	2.5 (1)	30
A415239	Endosulfan II	2021/11/04	98 (11)	50 - 130	90	50 - 130	<0.005	ug/L	0.25 (1)	30
A415239	Endosulfan Sulfate	2021/11/04	108 (11)	30 - 130	99	30 - 130	<0.005	ug/L	1.4 (1)	40
A415239	Endrin Aldehyde	2021/11/04	84 (11)	30 - 130	86	30 - 130	<0.005	ug/L	4.6 (1)	40
A415239	Endrin ketone	2021/11/04	105 (11)	30 - 130	93	30 - 130	<0.005	ug/L	2.8 (1)	40
A415239	Endrin	2021/11/04	106 (11)	50 - 130	102	50 - 130	<0.005	ug/L	0.21 (1)	30
A415239	g-Chlordane	2021/11/04	101 (11)	50 - 130	97	50 - 130	<0.005	ug/L	1.8 (1)	30
A415239	Heptachlor Epoxide	2021/11/04	101 (11)	50 - 130	97	50 - 130	<0.005	ug/L	2.6 (1)	30
A415239	Heptachlor	2021/11/04	93 (11)	50 - 130	83	50 - 130	<0.005	ug/L	5.7 (1)	30
A415239	Hexachlorobenzene	2021/11/04	93 (11)	50 - 130	90	50 - 130	<0.005	ug/L	3.6 (1)	30
A415239	Lindane	2021/11/04	115 (11)	50 - 130	114	50 - 130	<0.003	ug/L	7.4 (1)	30
A415239	Methoxychlor	2021/11/04	122 (11)	50 - 130	110	50 - 130	<0.01	ug/L	5.0 (1)	30
A415239	Mirex	2021/11/04	109 (11)	30 - 130	94	30 - 130	<0.005	ug/L	5.7 (1)	40
A415239	o,p'-DDD	2021/11/04	122 (11)	50 - 130	113	50 - 130	<0.005	ug/L	1.1 (1)	30
A415239	o,p'-DDE	2021/11/04	118 (11)	50 - 130	112	50 - 130	<0.005	ug/L	4.4 (1)	30
A415239	o,p'-DDT	2021/11/04	104 (11)	50 - 130	99	50 - 130	<0.005	ug/L	0.030 (1)	30
A415239	Octachlorostyrene	2021/11/04	111 (11)	30 - 130	96	30 - 130	<0.005	ug/L	7.7 (1)	40
A415239	Oxychlordane	2021/11/04	107 (11)	30 - 130	101	30 - 130	<0.005	ug/L	2.1 (1)	30
A415239	p,p'-DDD	2021/11/04	115 (11)	50 - 130	107	50 - 130	<0.005	ug/L	2.3 (1)	30
A415239	p,p'-DDE	2021/11/04	97 (11)	50 - 130	95	50 - 130	<0.005	ug/L	0.66 (1)	30
A415239	p,p'-DDT	2021/11/04	91 (11)	50 - 130	88	50 - 130	<0.005	ug/L	2.3 (1)	30
A415239	Toxaphene	2021/11/04					<0.2	ug/L		
A421424	Ametryn	2021/11/08	106	40 - 130	111	40 - 130	<3	ug/L		
A421424	Atrazine	2021/11/08	101	40 - 130	99	40 - 130	<1	ug/L		
A421424	Cyanazine (Bladex)	2021/11/08	116	40 - 130	119	40 - 130	<3	ug/L		
A421424	Metribuzin (Sencor)	2021/11/08	106	40 - 130	108	40 - 130	<3	ug/L		
A421424	Prometon	2021/11/08	109	40 - 130	104	40 - 130	<0.5	ug/L		



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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A421424	Prometryn	2021/11/08	115	40 - 130	113	40 - 130	<3	ug/L		
A421424	Propazine	2021/11/08	101	40 - 130	105	40 - 130	<3	ug/L		
A421424	Simazine	2021/11/08	102	40 - 130	101	40 - 130	<3	ug/L		
A421424	Simetryn	2021/11/08	104	40 - 130	105	40 - 130	<0.5	ug/L		
A421424	Terbutryne	2021/11/08	108	40 - 130	108	40 - 130	<0.5	ug/L		
A421425	Aldicarb	2021/11/06	94 (12)	30 - 130	99	30 - 130	<5.0	ug/L		
A421425	Atrazine	2021/11/06	95 (12)	30 - 130	96	30 - 130	<1.0	ug/L		
A421425	Bendiocarb	2021/11/06	111 (12)	30 - 130	112	30 - 130	<2.0	ug/L		
A421425	Carbaryl	2021/11/06	102 (12)	30 - 130	103	30 - 130	<5.0	ug/L		
A421425	Carbofuran	2021/11/06	108 (12)	30 - 130	110	30 - 130	<5.0	ug/L		
A421425	Chlorpyrifos (Dursban)	2021/11/06	103 (12)	30 - 130	106	30 - 130	<2.0	ug/L		
A421425	Cyanazine (Bladex)	2021/11/06	115 (12)	30 - 130	117	30 - 130	<5.0	ug/L		
A421425	Demeton-S	2021/11/06	95 (12)	30 - 130	100	30 - 130	<2.0	ug/L		
A421425	Diazinon	2021/11/06	108 (12)	30 - 130	110	30 - 130	<2.0	ug/L		
A421425	Dichlorvos	2021/11/06	84 (12)	30 - 130	87	30 - 130	<2.0	ug/L		
A421425	Dimethoate	2021/11/06	99 (12)	30 - 130	100	30 - 130	<2.0	ug/L		
A421425	Ethion	2021/11/06	104 (12)	30 - 130	103	30 - 130	<1.0	ug/L		
A421425	Fenchlorphos (Ronnel)	2021/11/06	103 (12)	30 - 130	106	30 - 130	<2.0	ug/L		
A421425	Fenthion	2021/11/06	100 (12)	30 - 130	103	30 - 130	<1.0	ug/L		
A421425	Fonofos	2021/11/06	98 (12)	30 - 130	101	30 - 130	<2.0	ug/L		
A421425	Guthion (Azinphos-methyl)	2021/11/06	117 (12)	30 - 130	117	30 - 130	<1.0	ug/L		
A421425	Malathion	2021/11/06	109 (12)	30 - 130	110	30 - 130	<2.0	ug/L		
A421425	Metolachlor	2021/11/06	107 (12)	30 - 130	107	30 - 130	<5.0	ug/L		
A421425	Mevinphos (Phosdrin)	2021/11/06	90 (12)	30 - 130	91	30 - 130	<2.0	ug/L		
A421425	Parathion Ethyl	2021/11/06	101 (12)	30 - 130	103	30 - 130	<2.0	ug/L		
A421425	Parathion methyl	2021/11/06	102 (12)	30 - 130	104	30 - 130	<2.0	ug/L		
A421425	Phorate (Thimet)	2021/11/06	97 (12)	30 - 130	101	30 - 130	<1.0	ug/L		
A421425	Phosmet	2021/11/06	102 (12)	30 - 130	102	30 - 130	<2.0	ug/L		
A421425	Prometryn	2021/11/06	107 (12)	30 - 130	108	30 - 130	<1.0	ug/L		
A421425	Simazine	2021/11/06	96 (12)	30 - 130	97	30 - 130	<2.0	ug/L		
A421425	Terbufos	2021/11/06	97 (12)	30 - 130	101	30 - 130	<1.0	ug/L		



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Bureau Veritas Job #: C183596

Report Date: 2021/11/16

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A421425	Triallate	2021/11/06	96 (12)	30 - 130	98	30 - 130	<5.0	ug/L		
A421425	Trifluralin	2021/11/06	97 (12)	30 - 130	100	30 - 130	<5.0	ug/L		
A421426	2,4,5-T	2021/11/05	103 (13)	10 - 130	96	10 - 130	<0.50	ug/L		
A421426	2,4,5-TP	2021/11/05	103 (13)	10 - 130	101	10 - 130	<0.50	ug/L		
A421426	2,4-D (BEE)	2021/11/05	117 (13)	10 - 130	111	10 - 130	<0.50	ug/L		
A421426	2,4-D	2021/11/05	91 (13)	10 - 130	85	10 - 130	<0.50	ug/L		
A421426	2,4-DB	2021/11/05	102 (13)	10 - 130	101	10 - 130	<0.50	ug/L		
A421426	Dicamba	2021/11/05	101 (13)	10 - 130	100	10 - 130	<0.50	ug/L		
A421426	Dichlorprop	2021/11/05	100 (13)	10 - 130	97	10 - 130	<0.50	ug/L		
A421426	MCPA	2021/11/05	103 (13)	10 - 130	99	10 - 130	<0.50	ug/L		
A421426	MCPP	2021/11/05	110 (13)	10 - 130	110	10 - 130	<0.50	ug/L		



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VERITAS

Bureau Veritas Job #: C183596  
Report Date: 2021/11/16

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: NT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A421426	Picloram	2021/11/05	77 (13)	10 - 130	69	10 - 130	<0.50	ug/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [AJL263-09]

(3) Duplicate Parent ID [AJL263-09]

(4) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(5) Duplicate Parent ID [AJL263-10]

(6) Matrix Spike Parent ID [AJL262-13]

(7) Duplicate Parent ID [AJL262-13]

(8) Duplicate Parent ID [AJL265-06]

(9) Duplicate Parent ID [AJL265-07]

(10) Matrix Spike Parent ID [AJL265-09]

(11) Matrix Spike Parent ID [AJL261-04]

(12) Matrix Spike Parent ID [AJL265-02]

(13) Matrix Spike Parent ID [AJL264-03]



BUREAU  
VERITAS

Bureau Veritas Job #: C183596

Report Date: 2021/11/16

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: NT

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Veronica Falk, B.Sc., P.Chem., QP, Scientific Specialist, Organics

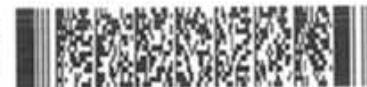
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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.  
For Service Group specific validation please refer to the Validation Signature Page.

**MaxXam**  
A Business Veritas Group Company

**ADDITIONAL COOLER**

CHAIN-OF-C



C183596\_ACTR

CHAIN OF CUSTODY #	
Page _____	of _____

COOLER OBSERVATIONS:		M		
CUSTODY SEAL	YES	NO	COOLER ID	
PRESIDENT	/		TEMP	7 4 4 <sub>3</sub>
INTACT	/		COOLER ID	1
ICE PRESENT	/		TEMP	3 4 4 <sub>3</sub>
CUSTODY SEAL	YES	NO	COOLER ID	2
PRESIDENT	/		TEMP	7 1 4 <sub>3</sub>
INTACT	/		COOLER ID	3
ICE PRESENT	/		TEMP	1 2 4 <sub>3</sub>
CUSTODY SEAL	YES	NO	COOLER ID	4
PRESIDENT	/		TEMP	7 1 4 <sub>3</sub>
INTACT	/		COOLER ID	5
ICE PRESENT	/		TEMP	1 2 4 <sub>3</sub>
CUSTODY SEAL	YES	NO	COOLER ID	6
PRESIDENT	/		TEMP	4 1 7 3
INTACT	/		COOLER ID	7
ICE PRESENT	/		TEMP	3 1 7 3
CUSTODY SEAL	YES	NO	COOLER ID	8
PRESIDENT	/		TEMP	5 1 5 3
INTACT	/		COOLER ID	9
ICE PRESENT	/		TEMP	7 1 7 3
CUSTODY SEAL	YES	NO	COOLER ID	10
PRESIDENT	/		TEMP	1 2 3
INTACT	/		COOLER ID	11
ICE PRESENT	/		TEMP	1 2 3
CUSTODY SEAL	YES	NO	COOLER ID	12
PRESIDENT	/		TEMP	1 2 3
INTACT	/		COOLER ID	13
ICE PRESENT	/		TEMP	1 2 3
CUSTODY SEAL	YES	NO	COOLER ID	14
PRESIDENT	/		TEMP	1 2 3
INTACT	/		COOLER ID	15
ICE PRESENT	/		TEMP	1 2 3
CUSTODY SEAL	YES	NO	COOLER ID	16
PRESIDENT	/		TEMP	1 2 3
INTACT	/		COOLER ID	17
ICE PRESENT	/		TEMP	1 2 3
CUSTODY SEAL	YES	NO	COOLER ID	18
PRESIDENT	/		TEMP	1 2 3
INTACT	/		COOLER ID	19
ICE PRESENT	/		TEMP	1 2 3
CUSTODY SEAL	YES	NO	COOLER ID	20
PRESIDENT	/		TEMP	1 2 3
INTACT	/		COOLER ID	21
ICE PRESENT	/		TEMP	1 2 3

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
H.A Ronny Lang	2021/10/30	09:00

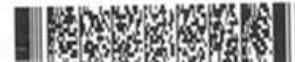


Bureau Veritas Laboratories  
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### Chain Of Custody Record

INVOICE TO:					Report Information					Project Information			Laboratory Use Only		
Company Name <b>#163 GHD Limited</b>	Contact Name <b>Ariesse MacPhee</b>	Address <b>455 PHILLIP STREET</b>	Phone <b>(519) 884-0510</b>	Email <b>Invoicing-Canada@ghd.com</b>	Company Name <b>11218464 Distribution</b>	Contact Name <b></b>	Address <b></b>	Phone <b></b>	Email <b>airesse.macphee@ghd.com; tristan.habdas@ghd.com;</b>	Quotation # <b>C10010</b>	P.O. # <b>73523096</b>	Project # <b>11218464</b>	Project Name <b>Village of Tahsis</b>	Bureau Veritas Job # <b></b>	Bottle Order # <b>651224</b>
Regulatory Criteria	Special Instructions <b>All bottles were field filtered and preserved as required.</b>				Site # <b>N.Tur</b>	Sampled by <b>N.Tur</b>							Chain Of Custody Record <b>C#651224-01-01</b>	Project Manager <b>Thomas Finchin</b>	
SAMPLES MUST BE KEPT COOL (< 10°C ) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)								Turnaround Time (TAT) Required:		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)	Speciated Alkalinity, Cl, F, SO4, NO2, NO3, N+H, EC, Turb	Dissolved Metals with CV/Hg & Blankness	Total Metals with CV Hg	Ammonia-N (Total)	PAH	Polychlorinated Biphenyls in Water	Resin and Fatty Acids	OC Pesticides /OP Pesticides/ Phenox Acids / Triazine	Total Coliforms & E. Coli	Please provide advance notice for rush projects
1	WG-11218464-241021-NT-01	1100	WATER	Y	X	X	X	X	X	X	X	X	X	Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
2	-02	1200												<input checked="" type="checkbox"/> <b>X</b>	
3	-03	1230													
4	-04	1315													
5	-05	1600													
6															
7															
8															
9															
10															
RELINQUISHED BY: (Signature/Print)					Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only				
<i>Natasha Turc</i>					21/10/29	1900	<i>Dee Ranger Loring</i>	2021/10/29	04:00		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt <i>See Acte</i>	Custody Seal intact on cooler? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	White Bureau Veritas Yellow Client	
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT <a href="http://WWW.BVLABS.COM/TERMS-AND-CONDITIONS">WWW.BVLABS.COM/TERMS-AND-CONDITIONS</a> .															
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.															



C183596\_CO



BUREAU  
VERITAS

Your P.O. #: 73523096  
Your Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your C.O.C. #: 08500651

**Attention: 11218464 Distribution**

GHD Limited  
455 PHILLIP STREET  
WATERLOO, ON  
CANADA N2L 3X2

**Report Date:** 2021/12/22  
**Report #:** R3112642  
**Version:** 3 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

**BV LABS JOB #: C188818**

**Received: 2021/11/18, 10:25**

Sample Matrix: Water  
# Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	2	N/A	2021/12/21	BBY6SOP-00026	SM 23 2320 B m
Chloride/Sulphate by Auto Colourimetry	2	N/A	2021/11/19	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Coliform by membrane filtration	2	N/A	2021/11/18	BBY4SOP-00001	SM 23 9222 m
Conductivity @25C	2	N/A	2021/11/19	BBY6SOP-00026	SM 23 2510 B m
E.coli by membrane filtration in Water	2	N/A	2021/11/18	BBY4SOP-00001	SM 23 9222 m
Fluoride	2	N/A	2021/11/22	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (1, 3)	2	N/A	2021/12/10	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (1)	2	N/A	2021/12/09	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (4)	2	2021/11/19	2021/11/19	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	2	2021/11/19	2021/11/19	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (1)	2	N/A	2021/12/09		Auto Calc
Elements by CRC ICPMS (dissolved) (1, 4)	2	N/A	2021/11/20	CAL SOP-00265	EPA 6020 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (1)	2	2021/11/18	2021/12/10		Auto Calc
Elements by CRC ICPMS (total) (1)	2	2021/11/22	2021/11/23	CAL SOP-00265	EPA 6020 m
Ammonia-N (Total)	2	N/A	2021/11/22	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	2	N/A	2021/11/19	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	2	N/A	2021/11/19	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	2	N/A	2021/12/14	BBY WI-00033	Auto Calc
PAH in Water by GC/MS (SIM)	2	2021/11/23	2021/11/23	BBY8SOP-00021	BCMOE BCLM Jul2017m
Total LMW, HMW, Total PAH Calc (5)	2	N/A	2021/12/09	BBY WI-00033	Auto Calc
Filter and HNO3 Preserve for Metals	2	N/A	2021/11/18	BBY7 WI-00004	SM 23 3030B m
pH @25°C (6)	2	N/A	2021/11/19	BBY6SOP-00026	SM 23 4500-H+ B m
Turbidity	1	N/A	2021/11/18	BBY6SOP-00027	SM 23 2130 B m
Turbidity	1	N/A	2021/11/19	BBY6SOP-00027	SM 23 2130 B m
OC Pesticides (Selected) & PCB (2, 7)	1	2021/12/09	2021/12/13	CAM SOP-00307	EPA 8081A/ 8082B m
OC Pesticides Summed Parameters (2)	1	N/A	2021/12/09	CAM SOP-00307	EPA 8081A/8082B m
GC/MS Analysis of OP Pesticides (2)	1	2021/11/29	2021/11/30	CAM SOP-00301	EPA 8270 m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.



BUREAU  
VERITAS

Your P.O. #: 73523096  
Your Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your C.O.C. #: 08500651

**Attention: 11218464 Distribution**

GHD Limited  
455 PHILLIP STREET  
WATERLOO, ON  
CANADA N2L 3X2

**Report Date:** 2021/12/22  
**Report #:** R3112642  
**Version:** 3 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

**BV LABS JOB #: C188818**

**Received: 2021/11/18, 10:25**

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) This test was performed by Bureau Veritas Campobello, 6740 Campobello Road , Mississauga, ON, L5N 2L8

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(5) Total PAHs in Water include: Quinoline, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Acridine, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b&j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene.

(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

(7) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Thomas Pinchin, Project Solutions Representative

Email: Thomas.Pinchin@bureauveritas.com

Phone# (604) 734 7276

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		AKV995		AKV996	AKV996			
Sampling Date		2021/11/17 10:30		2021/11/17 15:20	2021/11/17 15:20			
COC Number		08500651		08500651	08500651			
	UNITS	WG-11216484-171121 -KH-01	QC Batch	WG-11216484-171121 -KH-02	WG-11216484-171121 -KH-02 Lab-Dup	RDL	MDL	QC Batch

#### ANIONS

Nitrite (N)	mg/L	<0.0050	A432512	<0.0050	N/A	0.0050	0.0050	A432512
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#### Calculated Parameters

Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	N/A	N/A	ONSITE
Nitrate (N)	mg/L	0.063	A429808	0.289	N/A	0.020	N/A	A429808

#### Misc. Inorganics

Conductivity	uS/cm	110	A432445	140	N/A	2.0	N/A	A432445
pH	pH	7.56	A432442	7.93	N/A	N/A	N/A	A432442

#### Anions

Alkalinity (PP as CaCO3)	mg/L	<1.0	A455510	<1.0	N/A	1.0	N/A	A455510
Alkalinity (Total as CaCO3)	mg/L	54	A455510	47	N/A	1.0	N/A	A455510
Bicarbonate (HCO3)	mg/L	66	A455510	58	N/A	1.0	N/A	A455510
Carbonate (CO3)	mg/L	<1.0	A455510	<1.0	N/A	1.0	N/A	A455510
Dissolved Fluoride (F)	mg/L	<0.050	A444445	<0.050	N/A	0.050	N/A	A444445
Hydroxide (OH)	mg/L	<1.0	A455510	<1.0	N/A	1.0	N/A	A455510
Dissolved Chloride (Cl)	mg/L	1.3	A431839	10	N/A	1.0	N/A	A431839
Dissolved Sulphate (SO4)	mg/L	3.6	A431839	8.3	N/A	1.0	N/A	A431839

#### Nutrients

Total Ammonia (N)	mg/L	<0.015	A438971	0.037	N/A	0.015	0.0040	A438971
Nitrate plus Nitrite (N)	mg/L	0.063	A432510	0.289	N/A	0.020	0.020	A432510

#### Physical Properties

Turbidity	NTU	<0.10	A432480	43	38	0.10	N/A	A430770
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RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### PESTICIDES BY GC-MS (WATER)

<b>Bureau Veritas ID</b>		AKV996			
<b>Sampling Date</b>		2021/11/17 15:20			
<b>COC Number</b>		08500651			
	<b>UNITS</b>	<b>WG-11216484-171121 -KH-02</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>Pesticides &amp; Herbicides</b>					
Aldicarb	ug/L	<5.0	5.0	N/A	A443160
Atrazine	ug/L	<1.0	1.0	N/A	A443160
Bendiocarb	ug/L	<2.0	2.0	N/A	A443160
Carbaryl	ug/L	<5.0	5.0	N/A	A443160
Carbofuran	ug/L	<5.0	5.0	N/A	A443160
Chlorpyrifos (Dursban)	ug/L	<2.0	2.0	N/A	A443160
Cyanazine (Bladex)	ug/L	<5.0	5.0	N/A	A443160
Demeton-S	ug/L	<2.0	2.0	N/A	A443160
Diazinon	ug/L	<2.0	2.0	N/A	A443160
Dichlorvos	ug/L	<2.0	2.0	N/A	A443160
Dimethoate	ug/L	<2.0	2.0	N/A	A443160
Ethion	ug/L	<1.0	1.0	N/A	A443160
Fenchlorphos (Ronnel)	ug/L	<2.0	2.0	N/A	A443160
Fenthion	ug/L	<1.0	1.0	N/A	A443160
Fonofos	ug/L	<2.0	2.0	N/A	A443160
Guthion (Azinphos-methyl)	ug/L	<1.0	1.0	N/A	A443160
Malathion	ug/L	<2.0	2.0	N/A	A443160
Metolachlor	ug/L	<5.0	5.0	N/A	A443160
Mevinphos (Phosdrin)	ug/L	<2.0	2.0	N/A	A443160
Parathion Ethyl	ug/L	<2.0	2.0	N/A	A443160
Parathion methyl	ug/L	<2.0	2.0	N/A	A443160
Phorate (Thimet)	ug/L	<1.0	1.0	N/A	A443160
Phosmet	ug/L	<2.0	2.0	N/A	A443160
Prometryn	ug/L	<1.0	1.0	N/A	A443160
Simazine	ug/L	<2.0	2.0	N/A	A443160
Terbufos	ug/L	<1.0	1.0	N/A	A443160
Triallate	ug/L	<5.0	5.0	N/A	A443160
Trifluralin	ug/L	<5.0	5.0	N/A	A443160
<b>Surrogate Recovery (%)</b>					
2-Fluorobiphenyl	%	41	N/A	N/A	A443160
RDL = Reportable Detection Limit					
N/A = Not Applicable					



BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		AKV996			
Sampling Date		2021/11/17 15:20			
COC Number		08500651			
	UNITS	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch
D14-Terphenyl (FS)	%	62	N/A	N/A	A443160
D5-NITROBENZENE (sur.)	%	43	N/A	N/A	A443160

RDL = Reportable Detection Limit  
N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		AKV996			
Sampling Date		2021/11/17 15:20			
COC Number		08500651			
	UNITS	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch
<b>Calculated Parameters</b>					
Aldrin + Dieldrin	ug/L	<0.005	0.005	N/A	A443162
Chlordane (Total)	ug/L	<0.005	0.005	N/A	A443162
DDT + Metabolites	ug/L	<0.005	0.005	N/A	A443162
Heptachlor + Heptachlor epoxide	ug/L	<0.005	0.005	N/A	A443162
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	N/A	A443162
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	N/A	A443162
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	N/A	A443162
Total Endosulfan	ug/L	<0.005	0.005	N/A	A443162
<b>Pesticides &amp; Herbicides</b>					
a-BHC	ug/L	<0.005	0.005	N/A	A443161
a-Chlordane	ug/L	<0.005	0.005	N/A	A443161
b-BHC	ug/L	<0.005	0.005	N/A	A443161
d-BHC	ug/L	<0.005	0.005	N/A	A443161
Endosulfan I	ug/L	<0.005	0.005	N/A	A443161
Endosulfan II	ug/L	<0.005	0.005	N/A	A443161
Endosulfan Sulfate	ug/L	<0.005	0.005	N/A	A443161
Endrin	ug/L	<0.005	0.005	N/A	A443161
Endrin Aldehyde	ug/L	<0.005	0.005	N/A	A443161
Endrin ketone	ug/L	<0.005	0.005	N/A	A443161
Hexachlorobenzene	ug/L	<0.005	0.005	N/A	A443161
Mirex	ug/L	<0.005	0.005	N/A	A443161
o,p'-DDT	ug/L	<0.005	0.005	N/A	A443161
Octachlorostyrene	ug/L	<0.005	0.005	N/A	A443161
Toxaphene	ug/L	<0.2	0.2	N/A	A443161
Lindane	ug/L	<0.003	0.003	N/A	A443161
Heptachlor	ug/L	<0.005	0.005	N/A	A443161
Aldrin	ug/L	<0.005	0.005	N/A	A443161
Heptachlor Epoxide	ug/L	<0.005	0.005	N/A	A443161
Oxychlordane	ug/L	<0.005	0.005	N/A	A443161
g-Chlordane	ug/L	<0.005	0.005	N/A	A443161
RDL = Reportable Detection Limit					
N/A = Not Applicable					



BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		AKV996			
Sampling Date		2021/11/17 15:20			
COC Number		08500651			
	UNITS	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch
Dieldrin	ug/L	<0.005	0.005	N/A	A443161
o,p'-DDE	ug/L	<0.005	0.005	N/A	A443161
p,p'-DDE	ug/L	<0.005	0.005	N/A	A443161
o,p'-DDD	ug/L	<0.005	0.005	N/A	A443161
p,p'-DDD	ug/L	<0.005	0.005	N/A	A443161
p,p'-DDT	ug/L	<0.005	0.005	N/A	A443161
Methoxychlor	ug/L	<0.01	0.01	N/A	A443161
<b>Surrogate Recovery (%)</b>					
2,4,5,6-Tetrachloro-m-xylene	%	81	N/A	N/A	A443161
Decachlorobiphenyl	%	123	N/A	N/A	A443161
RDL = Reportable Detection Limit					
N/A = Not Applicable					



BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### MICROBIOLOGY (WATER)

Bureau Veritas ID		AKV995		AKV996			
Sampling Date		2021/11/17 10:30		2021/11/17 15:20			
COC Number		08500651		08500651			
	UNITS	WG-11216484-171121 -KH-01	RDL	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch

#### Microbiological Param.

E. coli	CFU/100mL	<1	1	<2	2	N/A	A430875
Total Coliforms	CFU/100mL	<1	1	750	2	N/A	A430874

RDL = Reportable Detection Limit

N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### CSR DISSOLVED METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AKV995	AKV996			
Sampling Date		2021/11/17 10:30	2021/11/17 15:20			
COC Number		08500651	08500651			
	UNITS	WG-11216484-171121 -KH-01	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch
<b>Calculated Parameters</b>						
Dissolved Hardness (CaCO <sub>3</sub> )	mg/L	52.1	32.2	0.50	0.50	A430397
<b>Elements</b>						
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	0.0019	A431799
<b>Dissolved Metals by ICPMS</b>						
Dissolved Aluminum (Al)	ug/L	<3.0	<3.0	3.0	0.030	A432996
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	0.0020	A432996
Dissolved Arsenic (As)	ug/L	<0.10	1.85	0.10	0.010	A432996
Dissolved Barium (Ba)	ug/L	<1.0	<1.0	1.0	0.0020	A432996
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	0.0030	A432996
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	0.0010	A432996
Dissolved Boron (B)	ug/L	<50	<50	50	50	A432996
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	0.0020	A432996
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	0.020	A432996
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	0.20	0.20	A432996
Dissolved Copper (Cu)	ug/L	1.24	<0.20	0.20	0.010	A432996
Dissolved Iron (Fe)	ug/L	<5.0	37.9	5.0	0.040	A432996
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	0.0010	A432996
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	2.0	2.0	A432996
Dissolved Manganese (Mn)	ug/L	<1.0	11.8	1.0	0.030	A432996
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.3	1.0	0.0020	A432996
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	0.010	A432996
Dissolved Phosphorus (P)	ug/L	<10	<10	10	1.0	A432996
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	0.10	0.0060	A432996
Dissolved Silicon (Si)	ug/L	3280	2400	100	0.30	A432996
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	0.0020	A432996
Dissolved Strontium (Sr)	ug/L	29.9	37.9	1.0	0.0020	A432996
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	0.010	0.010	A432996
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	0.0050	A432996
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	0.30	A432996
Dissolved Uranium (U)	ug/L	<0.10	0.12	0.10	0.0010	A432996
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	0.020	A432996
RDL = Reportable Detection Limit						



BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### CSR DISSOLVED METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AKV995	AKV996			
Sampling Date		2021/11/17 10:30	2021/11/17 15:20			
COC Number		08500651	08500651			
	UNITS	WG-11216484-171121 -KH-01	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch
Dissolved Zinc (Zn)	ug/L	6.0	<5.0	5.0	0.050	A432996
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	0.0080	A432996
Dissolved Calcium (Ca)	mg/L	16.9	10.7	0.050	0.0010	A430398
Dissolved Magnesium (Mg)	mg/L	2.42	1.36	0.050	0.00050	A430398
Dissolved Potassium (K)	mg/L	0.128	0.344	0.050	0.0020	A430398
Dissolved Sodium (Na)	mg/L	1.50	14.5	0.050	0.0010	A430398
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	3.0	1.0	A430398
RDL = Reportable Detection Limit						

BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

**CSR TOTAL METALS IN WATER WITH CV HG (WATER)**

Bureau Veritas ID		AKV995	AKV996			
Sampling Date		2021/11/17 10:30	2021/11/17 15:20			
COC Number		08500651	08500651			
	UNITS	WG-11216484-171121 -KH-01	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch
<b>Calculated Parameters</b>						
Total Hardness (CaCO <sub>3</sub> )	mg/L	45.0	29.2	0.50	0.50	A430224
<b>Elements</b>						
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	0.0019	A432665
<b>Total Metals by ICPMS</b>						
Total Aluminum (Al)	ug/L	<3.0	31.7	3.0	0.030	A438559
Total Antimony (Sb)	ug/L	<0.50	0.50	0.50	0.0020	A438559
Total Arsenic (As)	ug/L	<0.10	10.1	0.10	0.010	A438559
Total Barium (Ba)	ug/L	<1.0	<1.0	1.0	0.0020	A438559
Total Beryllium (Be)	ug/L	<0.10	<0.10	0.10	0.0030	A438559
Total Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	0.0010	A438559
Total Boron (B)	ug/L	<50	<50	50	50	A438559
Total Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	0.0020	A438559
Total Chromium (Cr)	ug/L	<1.0	38.7	1.0	0.020	A438559
Total Cobalt (Co)	ug/L	<0.20	2.75	0.20	0.20	A438559
Total Copper (Cu)	ug/L	2.70	8.62	0.50	0.030	A438559
Total Iron (Fe)	ug/L	<10	22800	10	0.70	A438559
Total Lead (Pb)	ug/L	<0.20	<0.20	0.20	0.0010	A438559
Total Lithium (Li)	ug/L	<2.0	<2.0	2.0	2.0	A438559
Total Manganese (Mn)	ug/L	<1.0	313	1.0	0.030	A438559
Total Molybdenum (Mo)	ug/L	<1.0	1.6	1.0	0.0020	A438559
Total Nickel (Ni)	ug/L	1.6	5.2	1.0	0.010	A438559
Total Phosphorus (P)	ug/L	<10	15	10	1.0	A438559
Total Selenium (Se)	ug/L	<0.10	<0.10	0.10	0.0060	A438559
Total Silicon (Si)	ug/L	2550	3120	100	0.30	A438559
Total Silver (Ag)	ug/L	<0.020	<0.020	0.020	0.0020	A438559
Total Strontium (Sr)	ug/L	37.0	48.3	1.0	0.0020	A438559
Total Thallium (Tl)	ug/L	<0.010	<0.010	0.010	0.010	A438559
Total Tin (Sn)	ug/L	<5.0	5.2	5.0	0.0050	A438559
Total Titanium (Ti)	ug/L	<5.0	5.7	5.0	0.30	A438559
Total Uranium (U)	ug/L	<0.10	0.35	0.10	0.0010	A438559
Total Vanadium (V)	ug/L	<5.0	<5.0	5.0	0.020	A438559
RDL = Reportable Detection Limit						



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Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		AKV995	AKV996			
Sampling Date		2021/11/17 10:30	2021/11/17 15:20			
COC Number		08500651	08500651			
	UNITS	WG-11216484-171121 -KH-01	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch
Total Zinc (Zn)	ug/L	23.7	11.1	5.0	0.050	A438559
Total Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	0.0080	A438559
Total Calcium (Ca)	mg/L	13.5	9.11	0.050	0.0010	A430273
Total Magnesium (Mg)	mg/L	2.73	1.56	0.050	0.00050	A430273
Total Potassium (K)	mg/L	0.135	0.378	0.050	0.0020	A430273
Total Sodium (Na)	mg/L	1.54	15.0	0.050	0.0010	A430273
Total Sulphur (S)	mg/L	<3.0	<3.0	3.0	1.0	A430273
RDL = Reportable Detection Limit						

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Sampler Initials: KH

**CSR PAH IN WATER BY GC-MS (WATER)**

Bureau Veritas ID		AKV995	AKV996			
Sampling Date		2021/11/17 10:30	2021/11/17 15:20			
COC Number		08500651	08500651			
	UNITS	WG-11216484-171121 -KH-01	WG-11216484-171121 -KH-02	RDL	MDL	QC Batch

**Calculated Parameters**

Low Molecular Weight PAH's	ug/L	<0.10	<0.10	0.10	0.010	A429811
High Molecular Weight PAH's	ug/L	<0.050	<0.050	0.050	0.020	A429811
Total PAH	ug/L	<0.10	<0.10	0.10	0.010	A429811

**Polycyclic Aromatics**

Quinoline	ug/L	<0.020	<0.020	0.020	0.020	A439593
Naphthalene	ug/L	<0.10	<0.10	0.10	0.050	A439593
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	0.050	A439593
2-Methylnaphthalene	ug/L	<0.10	<0.10	0.10	0.050	A439593
Acenaphthylene	ug/L	<0.050	<0.050	0.050	0.050	A439593
Acenaphthene	ug/L	<0.050	<0.050	0.050	0.050	A439593
Fluorene	ug/L	<0.050	<0.050	0.050	0.050	A439593
Phenanthrene	ug/L	<0.050	<0.050	0.050	0.050	A439593
Anthracene	ug/L	<0.010	<0.010	0.010	0.010	A439593
Acridine	ug/L	<0.050	<0.050	0.050	0.050	A439593
Fluoranthene	ug/L	<0.020	<0.020	0.020	0.020	A439593
Pyrene	ug/L	<0.020	<0.020	0.020	0.020	A439593
Benzo(a)anthracene	ug/L	<0.010	<0.010	0.010	0.010	A439593
Chrysene	ug/L	<0.020	<0.020	0.020	0.020	A439593
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	0.030	0.030	A439593
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	0.050	A439593
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	0.0050	0.0050	A439593
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	0.050	A439593
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	0.0030	0.0030	A439593
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	0.050	A439593

**Surrogate Recovery (%)**

D10-ANTHRACENE (sur.)	%	94	94	N/A	N/A	A439593
D8-ACENAPHTHYLENE (sur.)	%	91	92	N/A	N/A	A439593
D8-NAPHTHALENE (sur.)	%	86	86	N/A	N/A	A439593
TERPHENYL-D14 (sur.)	%	106	103	N/A	N/A	A439593

RDL = Reportable Detection Limit

N/A = Not Applicable



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Sampler Initials: KH

## GENERAL COMMENTS

Version 2: Report reissued to amend sample IDs as per COC on 2021/17/2021

Version 3: Report reissued to include results for Speciated Alkalinity, and Chloride on both samples as per the COC on 2021/12/20

Sample AKV995 [WG-11216484-171121-KH-01] : Sample was analyzed past method specified hold time for Alkalinity @25C (pp, total), CO<sub>3</sub>,HCO<sub>3</sub>,OH. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample AKV996 [WG-11216484-171121-KH-02] : Sample was analyzed past method specified hold time for Alkalinity @25C (pp, total), CO<sub>3</sub>,HCO<sub>3</sub>,OH. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

**Results relate only to the items tested.**



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Bureau Veritas Job #: C188818

Report Date: 2021/12/22

## QUALITY ASSURANCE REPORT

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A439593	D10-ANTHRACENE (sur.)	2021/11/23	102 (4)	50 - 140	90	50 - 140	94	%		
A439593	D8-ACENAPHTHYLENE (sur.)	2021/11/23	100 (4)	50 - 140	88	50 - 140	89	%		
A439593	D8-NAPHTHALENE (sur.)	2021/11/23	97 (4)	50 - 140	80	50 - 140	84	%		
A439593	TERPHENYL-D14 (sur.)	2021/11/23	113 (4)	50 - 140	100	50 - 140	105	%		
A443160	2-Fluorobiphenyl	2021/11/30			54	30 - 130	53	%		
A443160	D14-Terphenyl (FS)	2021/11/30			65	30 - 130	63	%		
A443160	D5-NITROBENZENE (sur.)	2021/11/30			59	30 - 130	60	%		
A443161	2,4,5,6-Tetrachloro-m-xylene	2021/12/13	77 (5)	50 - 130	87	50 - 130	83	%		
A443161	Decachlorobiphenyl	2021/12/13	112 (5)	50 - 130	129	50 - 130	90	%		
A430770	Turbidity	2021/11/18			104	80 - 120	<0.10	NTU	10 (1)	20
A431799	Dissolved Mercury (Hg)	2021/11/19	95	80 - 120	100	80 - 120	<0.0019	ug/L	NC (2)	20
A431839	Dissolved Chloride (Cl)	2021/11/19			106	80 - 120	<1.0	mg/L		
A431839	Dissolved Sulphate (SO4)	2021/11/19			106	80 - 120	<1.0	mg/L		
A432442	pH	2021/11/18			101	97 - 103			0 (2)	N/A
A432445	Conductivity	2021/11/18			100	80 - 120	<2.0	uS/cm		
A432480	Turbidity	2021/11/19			100	80 - 120	<0.10	NTU	5.9 (2)	20
A432510	Nitrate plus Nitrite (N)	2021/11/19	102	80 - 120	107	80 - 120	<0.020	mg/L	0.79 (2)	25
A432512	Nitrite (N)	2021/11/19	102	80 - 120	104	80 - 120	<0.0050	mg/L	NC (2)	20
A432665	Total Mercury (Hg)	2021/11/19	95	80 - 120	103	80 - 120	<0.0019	ug/L	NC (2)	20
A432996	Dissolved Aluminum (Al)	2021/11/20	98	80 - 120	101	80 - 120	<3.0	ug/L	4.9 (2)	20
A432996	Dissolved Antimony (Sb)	2021/11/20	99	80 - 120	98	80 - 120	<0.50	ug/L	NC (2)	20
A432996	Dissolved Arsenic (As)	2021/11/20	99	80 - 120	97	80 - 120	<0.10	ug/L	4.5 (2)	20
A432996	Dissolved Barium (Ba)	2021/11/20	97	80 - 120	95	80 - 120	<1.0	ug/L	0.42 (2)	20
A432996	Dissolved Beryllium (Be)	2021/11/20	114	80 - 120	103	80 - 120	<0.10	ug/L	NC (2)	20
A432996	Dissolved Bismuth (Bi)	2021/11/20	96	80 - 120	99	80 - 120	<1.0	ug/L	NC (2)	20
A432996	Dissolved Boron (B)	2021/11/20	130 (3)	80 - 120	123 (3)	80 - 120	<50	ug/L	3.4 (2)	20
A432996	Dissolved Cadmium (Cd)	2021/11/20	97	80 - 120	99	80 - 120	<0.010	ug/L	13 (2)	20
A432996	Dissolved Chromium (Cr)	2021/11/20	92	80 - 120	93	80 - 120	<1.0	ug/L	NC (2)	20
A432996	Dissolved Cobalt (Co)	2021/11/20	91	80 - 120	91	80 - 120	<0.20	ug/L	6.1 (2)	20
A432996	Dissolved Copper (Cu)	2021/11/20	95	80 - 120	98	80 - 120	<0.20	ug/L	10 (2)	20
A432996	Dissolved Iron (Fe)	2021/11/20	98	80 - 120	105	80 - 120	<5.0	ug/L	2.2 (2)	20



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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: KH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A432996	Dissolved Lead (Pb)	2021/11/20	98	80 - 120	98	80 - 120	<0.20	ug/L	9.1 (2)	20
A432996	Dissolved Lithium (Li)	2021/11/20	112	80 - 120	114	80 - 120	<2.0	ug/L	NC (2)	20
A432996	Dissolved Manganese (Mn)	2021/11/20	90	80 - 120	90	80 - 120	<1.0	ug/L	0.071 (2)	20
A432996	Dissolved Molybdenum (Mo)	2021/11/20	NC	80 - 120	96	80 - 120	<1.0	ug/L	4.3 (2)	20
A432996	Dissolved Nickel (Ni)	2021/11/20	90	80 - 120	93	80 - 120	<1.0	ug/L	NC (2)	20
A432996	Dissolved Phosphorus (P)	2021/11/20	102	80 - 120	100	80 - 120	<10	ug/L		
A432996	Dissolved Selenium (Se)	2021/11/20	100	80 - 120	103	80 - 120	<0.10	ug/L	15 (2)	20
A432996	Dissolved Silicon (Si)	2021/11/20	79 (3)	80 - 120	78 (3)	80 - 120	<100	ug/L	0.24 (2)	20
A432996	Dissolved Silver (Ag)	2021/11/20	83	80 - 120	95	80 - 120	<0.020	ug/L	NC (2)	20
A432996	Dissolved Strontium (Sr)	2021/11/20	95	80 - 120	92	80 - 120	<1.0	ug/L	0.22 (2)	20
A432996	Dissolved Thallium (Tl)	2021/11/20	108	80 - 120	107	80 - 120	<0.010	ug/L	NC (2)	20
A432996	Dissolved Tin (Sn)	2021/11/20	103	80 - 120	100	80 - 120	<5.0	ug/L	NC (2)	20
A432996	Dissolved Titanium (Ti)	2021/11/20	81	80 - 120	96	80 - 120	<5.0	ug/L	3.0 (2)	20
A432996	Dissolved Uranium (U)	2021/11/20	108	80 - 120	105	80 - 120	<0.10	ug/L	8.5 (2)	20
A432996	Dissolved Vanadium (V)	2021/11/20	92	80 - 120	91	80 - 120	<5.0	ug/L	NC (2)	20
A432996	Dissolved Zinc (Zn)	2021/11/20	108	80 - 120	107	80 - 120	<5.0	ug/L	3.7 (2)	20
A432996	Dissolved Zirconium (Zr)	2021/11/20	93	80 - 120	110	80 - 120	<0.10	ug/L	8.7 (2)	20
A438559	Total Aluminum (Al)	2021/11/23	99	80 - 120	103	80 - 120	<3.0	ug/L	4.7 (2)	20
A438559	Total Antimony (Sb)	2021/11/23	95	80 - 120	104	80 - 120	<0.50	ug/L	NC (2)	20
A438559	Total Arsenic (As)	2021/11/23	114	80 - 120	95	80 - 120	<0.10	ug/L	7.6 (2)	20
A438559	Total Barium (Ba)	2021/11/23	NC	80 - 120	103	80 - 120	<1.0	ug/L	0.47 (2)	20
A438559	Total Beryllium (Be)	2021/11/23	92	80 - 120	104	80 - 120	<0.10	ug/L	NC (2)	20
A438559	Total Bismuth (Bi)	2021/11/23	96	80 - 120	105	80 - 120	<1.0	ug/L	NC (2)	20
A438559	Total Boron (B)	2021/11/23	97	80 - 120	104	80 - 120	<50	ug/L	NC (2)	20
A438559	Total Cadmium (Cd)	2021/11/23	93	80 - 120	103	80 - 120	<0.010	ug/L	13 (2)	20
A438559	Total Chromium (Cr)	2021/11/23	113	80 - 120	98	80 - 120	<1.0	ug/L	NC (2)	20
A438559	Total Cobalt (Co)	2021/11/23	112	80 - 120	100	80 - 120	<0.20	ug/L	7.0 (2)	20
A438559	Total Copper (Cu)	2021/11/23	107	80 - 120	97	80 - 120	<0.50	ug/L	8.6 (2)	20
A438559	Total Iron (Fe)	2021/11/23	110	80 - 120	112	80 - 120	<10	ug/L	12 (2)	20
A438559	Total Lead (Pb)	2021/11/23	96	80 - 120	104	80 - 120	<0.20	ug/L	NC (2)	20
A438559	Total Lithium (Li)	2021/11/23	97	80 - 120	105	80 - 120	<2.0	ug/L	NC (2)	20



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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A438559	Total Manganese (Mn)	2021/11/23	120	80 - 120	101	80 - 120	<1.0	ug/L	7.1 (2)	20
A438559	Total Molybdenum (Mo)	2021/11/23	105	80 - 120	106	80 - 120	<1.0	ug/L	NC (2)	20
A438559	Total Nickel (Ni)	2021/11/23	110	80 - 120	98	80 - 120	<1.0	ug/L	7.4 (2)	20
A438559	Total Phosphorus (P)	2021/11/23	111	80 - 120	90	80 - 120	<10	ug/L	4.9 (2)	20
A438559	Total Selenium (Se)	2021/11/23	99	80 - 120	101	80 - 120	<0.10	ug/L	8.4 (2)	20
A438559	Total Silicon (Si)	2021/11/23	78 (3)	80 - 120	77 (3)	80 - 120	<100	ug/L	6.2 (2)	20
A438559	Total Silver (Ag)	2021/11/23	94	80 - 120	102	80 - 120	<0.020	ug/L	NC (2)	20
A438559	Total Strontium (Sr)	2021/11/23	NC	80 - 120	97	80 - 120	<1.0	ug/L	9.9 (2)	20
A438559	Total Thallium (Tl)	2021/11/23	95	80 - 120	101	80 - 120	<0.010	ug/L	12 (2)	20
A438559	Total Tin (Sn)	2021/11/23	98	80 - 120	105	80 - 120	<5.0	ug/L	NC (2)	20
A438559	Total Titanium (Ti)	2021/11/23	116	80 - 120	95	80 - 120	<5.0	ug/L	NC (2)	20
A438559	Total Uranium (U)	2021/11/23	101	80 - 120	105	80 - 120	<0.10	ug/L	NC (2)	20
A438559	Total Vanadium (V)	2021/11/23	119	80 - 120	102	80 - 120	<5.0	ug/L	NC (2)	20
A438559	Total Zinc (Zn)	2021/11/23	105	80 - 120	100	80 - 120	<5.0	ug/L	12 (2)	20
A438559	Total Zirconium (Zr)	2021/11/23	122 (3)	80 - 120	98	80 - 120	<0.10	ug/L	NC (2)	20
A438971	Total Ammonia (N)	2021/11/22	102	80 - 120	101	80 - 120	<0.015	mg/L	0.66 (2)	20
A439593	1-Methylnaphthalene	2021/11/23	93 (4)	50 - 140	87	50 - 140	<0.050	ug/L		
A439593	2-Methylnaphthalene	2021/11/23	93 (4)	50 - 140	88	50 - 140	<0.10	ug/L	NC (2)	40
A439593	Acenaphthene	2021/11/23	95 (4)	50 - 140	87	50 - 140	<0.050	ug/L	NC (2)	40
A439593	Acenaphthylene	2021/11/23	93 (4)	50 - 140	86	50 - 140	<0.050	ug/L	NC (2)	40
A439593	Acridine	2021/11/23	96 (4)	50 - 140	101	50 - 140	<0.050	ug/L	NC (2)	40
A439593	Anthracene	2021/11/23	94 (4)	50 - 140	86	50 - 140	<0.010	ug/L	NC (2)	40
A439593	Benzo(a)anthracene	2021/11/23	101 (4)	50 - 140	92	50 - 140	<0.010	ug/L	NC (2)	40
A439593	Benzo(a)pyrene	2021/11/23	93 (4)	50 - 140	91	50 - 140	<0.0050	ug/L	NC (2)	40
A439593	Benzo(b&j)fluoranthene	2021/11/23	88 (4)	50 - 140	82	50 - 140	<0.030	ug/L	NC (2)	40
A439593	Benzo(g,h,i)perylene	2021/11/23	73 (4)	50 - 140	84	50 - 140	<0.050	ug/L	NC (2)	40
A439593	Benzo(k)fluoranthene	2021/11/23	94 (4)	50 - 140	88	50 - 140	<0.050	ug/L	NC (2)	40
A439593	Chrysene	2021/11/23	95 (4)	50 - 140	89	50 - 140	<0.020	ug/L	NC (2)	40
A439593	Dibenz(a,h)anthracene	2021/11/23	79 (4)	50 - 140	90	50 - 140	<0.0030	ug/L	NC (2)	40
A439593	Fluoranthene	2021/11/23	104 (4)	50 - 140	95	50 - 140	<0.020	ug/L	NC (2)	40
A439593	Fluorene	2021/11/23	95 (4)	50 - 140	87	50 - 140	<0.050	ug/L	NC (2)	40



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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: KH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A439593	Indeno(1,2,3-cd)pyrene	2021/11/23	79 (4)	50 - 140	90	50 - 140	<0.050	ug/L	NC (2)	40
A439593	Naphthalene	2021/11/23	91 (4)	50 - 140	88	50 - 140	<0.10	ug/L	NC (2)	40
A439593	Phenanthrene	2021/11/23	94 (4)	50 - 140	88	50 - 140	<0.050	ug/L	NC (2)	40
A439593	Pyrene	2021/11/23	104 (4)	50 - 140	95	50 - 140	<0.020	ug/L	NC (2)	40
A439593	Quinoline	2021/11/23	98 (4)	50 - 140	105	50 - 140	<0.020	ug/L	NC (2)	40
A443160	Aldicarb	2021/11/30			63	30 - 130	<5.0	ug/L	5.0 (2)	40
A443160	Atrazine	2021/11/30			64	30 - 130	<1.0	ug/L	0.57 (2)	40
A443160	Bendiocarb	2021/11/30			73	30 - 130	<2.0	ug/L	1.8 (2)	40
A443160	Carbaryl	2021/11/30			63	30 - 130	<5.0	ug/L	0.35 (2)	40
A443160	Carbofuran	2021/11/30			70	30 - 130	<5.0	ug/L	0.086 (2)	40
A443160	Chlorpyrifos (Dursban)	2021/11/30			71	30 - 130	<2.0	ug/L	0.071 (2)	40
A443160	Cyanazine (Bladex)	2021/11/30			80	30 - 130	<5.0	ug/L	2.6 (2)	40
A443160	Demeton-S	2021/11/30			69	30 - 130	<2.0	ug/L	1.7 (2)	40
A443160	Diazinon	2021/11/30			75	30 - 130	<2.0	ug/L	2.0 (2)	40
A443160	Dichlorvos	2021/11/30			57	30 - 130	<2.0	ug/L	0.12 (2)	40
A443160	Dimethoate	2021/11/30			67	30 - 130	<2.0	ug/L	0.80 (2)	40
A443160	Ethion	2021/11/30			72	30 - 130	<1.0	ug/L	0.042 (2)	40
A443160	Fenchlorphos (Ronnel)	2021/11/30			71	30 - 130	<2.0	ug/L	0.20 (2)	40
A443160	Fenthion	2021/11/30			71	30 - 130	<1.0	ug/L	0.21 (2)	40
A443160	Fonofos	2021/11/30			67	30 - 130	<2.0	ug/L	1.5 (2)	40
A443160	Guthion (Azinphos-methyl)	2021/11/30			86	30 - 130	<1.0	ug/L	1.7 (2)	40
A443160	Malathion	2021/11/30			73	30 - 130	<2.0	ug/L	2.1 (2)	40
A443160	Metolachlor	2021/11/30			71	30 - 130	<5.0	ug/L	1.3 (2)	40
A443160	Mevinphos (Phosdrin)	2021/11/30			60	30 - 130	<2.0	ug/L	0.77 (2)	40
A443160	Parathion Ethyl	2021/11/30			69	30 - 130	<2.0	ug/L	1.0 (2)	40
A443160	Parathion methyl	2021/11/30			70	30 - 130	<2.0	ug/L	0.014 (2)	40
A443160	Phorate (Thimet)	2021/11/30			67	30 - 130	<1.0	ug/L	1.3 (2)	40
A443160	Phosmet	2021/11/30			73	30 - 130	<2.0	ug/L	0.79 (2)	40
A443160	Prometryn	2021/11/30			73	30 - 130	<1.0	ug/L	0.75 (2)	40
A443160	Simazine	2021/11/30			66	30 - 130	<2.0	ug/L	0.61 (2)	40
A443160	Terbufos	2021/11/30			68	30 - 130	<1.0	ug/L	1.9 (2)	40



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Bureau Veritas Job #: C188818  
Report Date: 2021/12/22

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: KH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A443160	Triallate	2021/11/30			64	30 - 130	<5.0	ug/L	0.12 (2)	40
A443160	Trifluralin	2021/11/30			68	30 - 130	<5.0	ug/L	1.1 (2)	40
A443161	a-BHC	2021/12/13	73 (5)	30 - 130	85	30 - 130	<0.005	ug/L	2.5 (2)	40
A443161	a-Chlordane	2021/12/13	81 (5)	50 - 130	96	50 - 130	<0.005	ug/L	3.7 (2)	30
A443161	Aldrin	2021/12/13	86 (5)	50 - 130	88	50 - 130	<0.005	ug/L	8.1 (2)	30
A443161	b-BHC	2021/12/13	75 (5)	30 - 130	85	30 - 130	<0.005	ug/L	0.17 (2)	40
A443161	d-BHC	2021/12/13	76 (5)	30 - 130	86	30 - 130	<0.005	ug/L	14 (2)	40
A443161	Dieldrin	2021/12/13	94 (5)	50 - 130	107	50 - 130	<0.005	ug/L	9.5 (2)	30
A443161	Endosulfan I	2021/12/13	64 (5)	50 - 130	80	50 - 130	<0.005	ug/L	4.7 (2)	30
A443161	Endosulfan II	2021/12/13	79 (5)	50 - 130	89	50 - 130	<0.005	ug/L	2.4 (2)	30
A443161	Endosulfan Sulfate	2021/12/13	111 (5)	30 - 130	81	30 - 130	<0.005	ug/L	46 (3,2)	40
A443161	Endrin Aldehyde	2021/12/13	82 (5)	30 - 130	85	30 - 130	<0.005	ug/L	0.66 (2)	40
A443161	Endrin ketone	2021/12/13	90 (5)	30 - 130	106	30 - 130	<0.005	ug/L	2.9 (2)	40
A443161	Endrin	2021/12/13	82 (5)	50 - 130	95	50 - 130	<0.005	ug/L	1.2 (2)	30
A443161	g-Chlordane	2021/12/13	82 (5)	50 - 130	92	50 - 130	<0.005	ug/L	6.6 (2)	30
A443161	Heptachlor Epoxide	2021/12/13	86 (5)	50 - 130	98	50 - 130	<0.005	ug/L	2.5 (2)	30
A443161	Heptachlor	2021/12/13	79 (5)	50 - 130	74	50 - 130	<0.005	ug/L	13 (2)	30
A443161	Hexachlorobenzene	2021/12/13	80 (5)	50 - 130	87	50 - 130	<0.005	ug/L	14 (2)	30
A443161	Lindane	2021/12/13	80 (5)	50 - 130	91	50 - 130	<0.003	ug/L	3.0 (2)	30
A443161	Methoxychlor	2021/12/13	126 (5)	50 - 130	122	50 - 130	<0.01	ug/L	5.6 (2)	30
A443161	Mirex	2021/12/13	89 (5)	30 - 130	99	30 - 130	<0.005	ug/L	17 (2)	40
A443161	o,p'-DDD	2021/12/13	103 (5)	50 - 130	116	50 - 130	<0.005	ug/L	1.8 (2)	30
A443161	o,p'-DDE	2021/12/13	85 (5)	50 - 130	92	50 - 130	<0.005	ug/L	6.9 (2)	30
A443161	o,p'-DDT	2021/12/13	95 (5)	50 - 130	97	50 - 130	<0.005	ug/L	2.5 (2)	30
A443161	Octachlorostyrene	2021/12/13	89 (5)	30 - 130	96	30 - 130	<0.005	ug/L	8.8 (2)	40
A443161	Oxychlordane	2021/12/13	87 (5)	30 - 130	93	30 - 130	<0.005	ug/L	4.2 (2)	30
A443161	p,p'-DDD	2021/12/13	90 (5)	50 - 130	110	50 - 130	<0.005	ug/L	2.9 (2)	30
A443161	p,p'-DDE	2021/12/13	67 (5)	50 - 130	78	50 - 130	<0.005	ug/L	4.3 (2)	30
A443161	p,p'-DDT	2021/12/13	90 (5)	50 - 130	86	50 - 130	<0.005	ug/L	6.8 (2)	30
A443161	Toxaphene	2021/12/13					<0.2	ug/L		
A444445	Dissolved Fluoride (F)	2021/11/22	NC	80 - 120	106	80 - 120	<0.050	mg/L	0 (2)	20



BUREAU  
VERITAS

Bureau Veritas Job #: C188818  
Report Date: 2021/12/22

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096  
Sampler Initials: KH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A455510	Alkalinity (PP as CaCO <sub>3</sub> )	2021/12/21					<1.0	mg/L		
A455510	Alkalinity (Total as CaCO <sub>3</sub> )	2021/12/21			96	80 - 120	<1.0	mg/L		
A455510	Bicarbonate (HCO <sub>3</sub> )	2021/12/21					<1.0	mg/L		
A455510	Carbonate (CO <sub>3</sub> )	2021/12/21					<1.0	mg/L		
A455510	Hydroxide (OH)	2021/12/21					<1.0	mg/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID [AKV996-03]

(2) Duplicate Parent ID

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(4) Matrix Spike Parent ID [AKV995-08]

(5) Matrix Spike Parent ID [AKV996-11]



BUREAU  
VERITAS

Bureau Veritas Job #: C188818

Report Date: 2021/12/22

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

Sampler Initials: KH

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.  
For Service Group specific validation please refer to the Validation Signature Page.



Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Toll Free (800) 665 8566  
 Victoria: 460 Tennyson Place, Unit 1, Victoria, BC V8Z 6S8 Toll Free (866) 385-6112  
 bvtabs.com

08500651

### CHAIN OF CUSTODY RECORD

Page 1 of 1

Invoice Information			Report Information (If differs from invoice)			Project Information			Turnaround Time (TAT) Required		
Company:	#163 GHD Limited	Contact Name:	Airesse MacPhee	Address:	455 Phillip Street	Quotation:	C10010	P.O. #/AFER:	73523096	<input checked="" type="checkbox"/> 5 - 7 Days Regular (Most analyses)	
Address:	Waterloo, ON PC: N2L 3X2	Contact Name:	11218464 Distribution	Address:		Project #::	11218464	Site Location:	Village of Tahsis	<input type="checkbox"/> Same Day	<input type="checkbox"/> 2 Days
Phone/Fax:	(604) 248-3661	Phone/Fax:		PC:		Site #::		Date Required:		<input type="checkbox"/> 1 Day	<input type="checkbox"/> 3-4 Days
Email:	Invoicing-Canada@ghd.com	Email:		Copies:		Sampled By:	K HASTER	Rush Confirmation #:		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS	
Rush TAT (Surcharge will be applied)											
<input type="checkbox"/> Same Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day <input type="checkbox"/> 3-4 Days											
Analysis Requested											
Regulatory Criteria											
Laboratory Use Only			Depot Reception			# of Containers					
Seal Present	YES	NO	Cooler ID				Speciated Alkalinity, EC, Turbidity		<input type="checkbox"/> BC CSR		
Seal Intact	X	X	Temp	2	3	3	Cl, F, SO <sub>4</sub> , NO <sub>2</sub> , NO <sub>3</sub> , NH <sub>4</sub>		<input type="checkbox"/> YC CSR		
Cooling Media	X	X	Temp	3	3	1	Ammonia-N (total)		<input type="checkbox"/> CCME		
Seal Present	YES	NO	Cooler ID				Dissolved CSR Metals with Cd / Hg & Hardness		<input type="checkbox"/> Drinking Water		
Seal Intact	X	X	Temp	4	3	2	Total CSR Metals with Cd / Hg		<input type="checkbox"/> BC Water Quality		
Cooling Media	X	X	Temp				PAH		<input type="checkbox"/> Other		
Seal Present	YES	NO	Cooler ID				Polychlorinated Biphenyls in Water				
Seal Intact	X	X	Temp				Rein and Fatty Acids				
Cooling Media	X	X	Temp				OOC Pesticides / OCP Pesticides / Phenoxyc Acid / Triazine				
Sample Identification			Date Sampled (yyyy/mm/dd)	Time Sampled (hh:mm)	Matrix		Total Coliforms & E. coli				
1	WG-11216484-171121-KH-01	2021/11/17	10:30	WATER		X	X				
2	WG-11216484-171121-KH-02	2021/11/17	15:20	▼		↓	↓	↓	↓		
3						↓	↓	↓	↓		
4						↓	↓	↓	↓		
5						↓	↓	↓	↓		
6						↓	↓	↓	↓		
7						↓	↓	↓	↓		
8						↓	↓	↓	↓		
9						↓	↓	↓	↓		
10						↓	↓	↓	↓		
<small>Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgement and acceptance.</small>											
Relinquished by: (Signature/ Print)	Date (yyyy/mm/dd):	Time (hh:mm):	Received by: (Signature/ Print)	Date (yyyy/mm/dd):	Time (hh:mm):						
Kellie K HASTER	2021/11/17	22:00	Ben BILW PUN	2021/11/18	10:25						



C188818\_COC

COC-1020



BUREAU  
VERITAS

Your P.O. #: 73523096  
Your Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your C.O.C. #: 653563-01-01

**Attention: 11218464 Distribution**

GHD Limited  
455 PHILLIP STREET  
WATERLOO, ON  
CANADA N2L 3X2

**Report Date:** 2021/12/30  
**Report #:** R3116317  
**Version:** 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C193145**

**Received: 2021/11/26, 09:00**

Sample Matrix: Water  
# Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Polychlorinated Biphenyls in Water (1)	2	2021/12/02	2021/12/02	CAL SOP-00149	EPA 8082A R1 m
Total PCBs in Water (1)	2	N/A	2021/12/24		Auto Calc
Resin and Fatty Acids (1)	2	2021/12/01	2021/12/01	CAL SOP-00099	AE129.0
OC Pesticides (Selected) & PCB (2, 3)	1	2021/12/23	2021/12/23	CAM SOP-00307	EPA 8081A/ 8082B m
OC Pesticides Summed Parameters (2)	1	N/A	2021/12/23	CAM SOP-00307	EPA 8081A/8082B m
GC/MS Analysis of OP Pesticides (2)	1	2021/12/04	2021/12/06	CAM SOP-00301	EPA 8270 m
Phenoxy Acid Herbicides (2)	2	2021/12/06	2021/12/07	CAM SOP-00330	EPA 8270 m
Triazine Herbicides (2)	2	2021/12/06	2021/12/07	CAM SOP-00301	EPA 8270 m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) This test was performed by Bureau Veritas Campobello, 6740 Campobello Road , Mississauga, ON, L5N 2L8

(3) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane



BUREAU  
VERITAS

Your P.O. #: 73523096  
Your Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your C.O.C. #: 653563-01-01

**Attention: 11218464 Distribution**

GHD Limited  
455 PHILLIP STREET  
WATERLOO, ON  
CANADA N2L 3X2

**Report Date:** 2021/12/30  
**Report #:** R3116317  
**Version:** 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C193145**

**Received: 2021/11/26, 09:00**

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Thomas Pinchin, Project Solutions Representative  
Email: Thomas.Pinchin@bureauveritas.com

Phone# (604) 734 7276

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 2  
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BUREAU  
VERITAS

Bureau Veritas Job #: C193145

Report Date: 2021/12/30

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

### RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		ALT056	ALT057			
Sampling Date		2021/11/24 11:20	2021/11/24 12:20			
COC Number		653563-01-01	653563-01-01			
	UNITS	WG-11218464-241121 -KH-01	WG-11218464-241121 -KH-02	RDL	MDL	QC Batch
<b>Pesticides &amp; Herbicides</b>						
Prometon	ug/L	<0.5	<0.5	0.5	N/A	A457370
Simazine	ug/L	<3	<3	3	N/A	A457370
Atrazine	ug/L	<1	<1	1	N/A	A457370
Propazine	ug/L	<3	<3	3	N/A	A457370
Metribuzin (Sencor)	ug/L	<3	<3	3	N/A	A457370
Simetryn	ug/L	<0.5	<0.5	0.5	N/A	A457370
Ametryn	ug/L	<3	<3	3	N/A	A457370
Prometryn	ug/L	<3	<3	3	N/A	A457370
Terbutryne	ug/L	<0.5	<0.5	0.5	N/A	A457370
Cyanazine (Bladex)	ug/L	<3	<3	3	N/A	A457370
<b>Surrogate Recovery (%)</b>						
2-Fluorobiphenyl	%	76	76	N/A	N/A	A457370
D14-Terphenyl (FS)	%	95	95	N/A	N/A	A457370
D5-NITROBENZENE (sur.)	%	81	74	N/A	N/A	A457370
RDL = Reportable Detection Limit						
N/A = Not Applicable						



BUREAU  
VERITAS

Bureau Veritas Job #: C193145

Report Date: 2021/12/30

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

### POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Bureau Veritas ID		ALT056	ALT057			
Sampling Date		2021/11/24 11:20	2021/11/24 12:20			
COC Number		653563-01-01	653563-01-01			
	UNITS	WG-11218464-241121 -KH-01	WG-11218464-241121 -KH-02	RDL	MDL	QC Batch
<b>Polychlorinated Biphenyls</b>						
Aroclor 1016	ug/L	<0.050	<0.050	0.050	N/A	A448657
Aroclor 1221	ug/L	<0.050	<0.050	0.050	N/A	A448657
Aroclor 1232	ug/L	<0.050	<0.050	0.050	N/A	A448657
Aroclor 1242	ug/L	<0.050	<0.050	0.050	N/A	A448657
Aroclor 1248	ug/L	<0.050	<0.050	0.050	N/A	A448657
Aroclor 1254	ug/L	<0.050	<0.050	0.050	N/A	A448657
Aroclor 1260	ug/L	<0.050	<0.050	0.050	N/A	A448657
Aroclor 1262	ug/L	<0.050	<0.050	0.050	N/A	A448657
Aroclor 1268	ug/L	<0.050	<0.050	0.050	N/A	A448657
Total PCB	mg/L	<0.000050	<0.000050	0.000050	N/A	A454694
<b>Surrogate Recovery (%)</b>						
NONACHLOROBIPHENYL (sur.)	%	102	91	N/A	N/A	A448657
RDL = Reportable Detection Limit						
N/A = Not Applicable						



BUREAU  
VERITAS

Bureau Veritas Job #: C193145

Report Date: 2021/12/30

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		ALT056			
Sampling Date		2021/11/24 11:20			
COC Number		653563-01-01			
	UNITS	WG-11218464-241121 -KH-01	RDL	MDL	QC Batch

Pesticides & Herbicides					
Aldicarb	ug/L	<5.0	5.0	N/A	A457368
Atrazine	ug/L	<1.0	1.0	N/A	A457368
Bendiocarb	ug/L	<2.0	2.0	N/A	A457368
Carbaryl	ug/L	<5.0	5.0	N/A	A457368
Carbofuran	ug/L	<5.0	5.0	N/A	A457368
Chlorpyrifos (Dursban)	ug/L	<2.0	2.0	N/A	A457368
Cyanazine (Bladex)	ug/L	<5.0	5.0	N/A	A457368
Demeton-S	ug/L	<2.0	2.0	N/A	A457368
Diazinon	ug/L	<2.0	2.0	N/A	A457368
Dichlorvos	ug/L	<2.0	2.0	N/A	A457368
Dimethoate	ug/L	<2.0	2.0	N/A	A457368
Ethion	ug/L	<1.0	1.0	N/A	A457368
Fenchlorphos (Ronnel)	ug/L	<2.0	2.0	N/A	A457368
Fenthion	ug/L	<1.0	1.0	N/A	A457368
Fonofos	ug/L	<2.0	2.0	N/A	A457368
Guthion (Azinphos-methyl)	ug/L	<1.0	1.0	N/A	A457368
Malathion	ug/L	<2.0	2.0	N/A	A457368
Metolachlor	ug/L	<5.0	5.0	N/A	A457368
Mevinphos (Phosdrin)	ug/L	<2.0	2.0	N/A	A457368
Parathion Ethyl	ug/L	<2.0	2.0	N/A	A457368
Parathion methyl	ug/L	<2.0	2.0	N/A	A457368
Phorate (Thimet)	ug/L	<1.0	1.0	N/A	A457368
Phosmet	ug/L	<2.0	2.0	N/A	A457368
Prometryn	ug/L	<1.0	1.0	N/A	A457368
Simazine	ug/L	<2.0	2.0	N/A	A457368
Terbufos	ug/L	<1.0	1.0	N/A	A457368
Triallate	ug/L	<5.0	5.0	N/A	A457368
Trifluralin	ug/L	<5.0	5.0	N/A	A457368
Surrogate Recovery (%)					
2-Fluorobiphenyl	%	82	N/A	N/A	A457368
D14-Terphenyl (FS)	%	95	N/A	N/A	A457368
RDL = Reportable Detection Limit					
N/A = Not Applicable					



BUREAU  
VERITAS

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Report Date: 2021/12/30

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		ALT056			
Sampling Date		2021/11/24 11:20			
COC Number		653563-01-01			
	UNITS	WG-11218464-241121 -KH-01	RDL	MDL	QC Batch
D5-NITROBENZENE (sur.)	%	87	N/A	N/A	A457368
RDL = Reportable Detection Limit					
N/A = Not Applicable					



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GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

### PHENOXYALKYL ACID PESTICIDES/HERBICIDES (WATER)

Bureau Veritas ID		ALT056	ALT057			
Sampling Date		2021/11/24 11:20	2021/11/24 12:20			
COC Number		653563-01-01	653563-01-01			
	UNITS	WG-11218464-241121 -KH-01	WG-11218464-241121 -KH-02	RDL	MDL	QC Batch
<b>Pesticides &amp; Herbicides</b>						
2,4-D (BEE)	ug/L	<0.50	<0.50	0.50	N/A	A457369
Dicamba	ug/L	<0.50	<0.50	0.50	N/A	A457369
MCPP	ug/L	<0.50	<0.50	0.50	N/A	A457369
MCPPA	ug/L	<0.50	<0.50	0.50	N/A	A457369
Dichlorprop	ug/L	<0.50	<0.50	0.50	N/A	A457369
2,4-D	ug/L	<0.50	<0.50	0.50	N/A	A457369
2,4,5-TP	ug/L	<0.50	<0.50	0.50	N/A	A457369
2,4,5-T	ug/L	<0.50	<0.50	0.50	N/A	A457369
2,4-DB	ug/L	<0.50	<0.50	0.50	N/A	A457369
Picloram	ug/L	<0.50	<0.50	0.50	N/A	A457369
<b>Surrogate Recovery (%)</b>						
2,4-Dichlorophenyl Acetic Acid	%	82	92	N/A	N/A	A457369
2,5-Dibromobenzoic Acid	%	85	97	N/A	N/A	A457369
4,4-Dibromobiphenyl	%	71	82	N/A	N/A	A457369
RDL = Reportable Detection Limit						
N/A = Not Applicable						



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Site Location: VILLAGE OF TAHSIS

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### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		ALT056			
Sampling Date		2021/11/24 11:20			
COC Number		653563-01-01			
	UNITS	WG-11218464-241121 -KH-01	RDL	MDL	QC Batch

#### Calculated Parameters

Aldrin + Dieldrin	ug/L	<0.005	0.005	N/A	A457367
Chlordane (Total)	ug/L	<0.005	0.005	N/A	A457367
DDT + Metabolites	ug/L	<0.005	0.005	N/A	A457367
Heptachlor + Heptachlor epoxide	ug/L	<0.005	0.005	N/A	A457367
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	N/A	A457367
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	N/A	A457367
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	N/A	A457367
Total Endosulfan	ug/L	<0.005	0.005	N/A	A457367

#### Pesticides & Herbicides

a-BHC	ug/L	<0.005	0.005	N/A	A457366
a-Chlordane	ug/L	<0.005	0.005	N/A	A457366
b-BHC	ug/L	<0.005	0.005	N/A	A457366
d-BHC	ug/L	<0.005	0.005	N/A	A457366
Endosulfan I	ug/L	<0.005	0.005	N/A	A457366
Endosulfan II	ug/L	<0.005	0.005	N/A	A457366
Endosulfan Sulfate	ug/L	<0.005	0.005	N/A	A457366
Endrin	ug/L	<0.005	0.005	N/A	A457366
Endrin Aldehyde	ug/L	<0.005	0.005	N/A	A457366
Endrin ketone	ug/L	<0.005	0.005	N/A	A457366
Hexachlorobenzene	ug/L	<0.005	0.005	N/A	A457366
Mirex	ug/L	<0.005	0.005	N/A	A457366
o,p'-DDT	ug/L	<0.005	0.005	N/A	A457366
Octachlorostyrene	ug/L	<0.005	0.005	N/A	A457366
Toxaphene	ug/L	<0.2	0.2	N/A	A457366
Lindane	ug/L	<0.003	0.003	N/A	A457366
Heptachlor	ug/L	<0.005	0.005	N/A	A457366
Aldrin	ug/L	<0.005	0.005	N/A	A457366
Heptachlor Epoxide	ug/L	<0.005	0.005	N/A	A457366
Oxychlordane	ug/L	<0.005	0.005	N/A	A457366
g-Chlordane	ug/L	<0.005	0.005	N/A	A457366
Dieldrin	ug/L	<0.005	0.005	N/A	A457366

RDL = Reportable Detection Limit

N/A = Not Applicable



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### ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID		ALT056			
Sampling Date		2021/11/24 11:20			
COC Number		653563-01-01			
	UNITS	WG-11218464-241121 -KH-01	RDL	MDL	QC Batch
o,p'-DDE	ug/L	<0.005	0.005	N/A	A457366
p,p'-DDE	ug/L	<0.005	0.005	N/A	A457366
o,p'-DDD	ug/L	<0.005	0.005	N/A	A457366
p,p'-DDD	ug/L	<0.005	0.005	N/A	A457366
p,p'-DDT	ug/L	<0.005	0.005	N/A	A457366
Methoxychlor	ug/L	<0.01	0.01	N/A	A457366
<b>Surrogate Recovery (%)</b>					
2,4,5,6-Tetrachloro-m-xylene	%	63	N/A	N/A	A457366
Decachlorobiphenyl	%	105	N/A	N/A	A457366

RDL = Reportable Detection Limit

N/A = Not Applicable



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### RESIN AND FATTY ACIDS BY GC-MS (WATER)

Bureau Veritas ID		ALT056	ALT057	ALT057			
Sampling Date		2021/11/24 11:20	2021/11/24 12:20	2021/11/24 12:20			
COC Number		653563-01-01	653563-01-01	653563-01-01			
	UNITS	WG-11218464-241121 -KH-01	WG-11218464-241121 -KH-02	WG-11218464-241121 -KH-02 Lab-Dup	RDL	MDL	QC Batch

#### Misc. Organics

Decanoic acid (C10)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Undecanoic acid (C11)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Dodecanoic acid (C12)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Tetradecanoic acid (C14)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Hexadecanoic acid (C16)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Octadecanoic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Oleic acid (C18:1)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Linoleic acid (C18:2)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Linolenic acid (C18:3)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Eicosanoic acid (C20)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Docosanoic acid (C22)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
9,10-dichlorostearic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Pimaric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Sandaracopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Isopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Palustric acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Dehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Abietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
Neoabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
14-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
12-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
12,14-dichlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	0.0060	N/A	A445327
* Total of Resin Acids Detected	mg/L	<0.060	<0.060	<0.060	0.060	N/A	A445327
* Total of Fatty Acids Detected	mg/L	<0.072	<0.072	<0.072	0.072	N/A	A445327

#### Surrogate Recovery (%)

HEPTADECANOIC ACID (sur.)	%	89	87	90	N/A	N/A	A445327
O-METHYLPODOCARPIC ACID (sur.)	%	27 (1)	104	107	N/A	N/A	A445327

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Surrogate recovery exceeds acceptance criteria due to matrix interference. Unable to reanalyze due to insufficient sample.



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#### GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A445327	HEPTADECANOIC ACID (sur.)	2021/12/02	86 (1)	50 - 130	83	50 - 130	90	%		
A445327	O-METHYLOPODOCARPIC ACID (sur.)	2021/12/02	34 (2,1)	50 - 130	94	50 - 130	104	%		
A448657	NONACHLOROBIPHENYL (sur.)	2021/12/02	97	50 - 130	94	50 - 130	87	%		
A457366	2,4,5,6-Tetrachloro-m-xylene	2021/12/23	67 (5)	50 - 130	71	50 - 130	71	%		
A457366	Decachlorobiphenyl	2021/12/23	105 (5)	50 - 130	105	50 - 130	90	%		
A457368	2-Fluorobiphenyl	2021/12/06			66	30 - 130	75	%		
A457368	D14-Terphenyl (FS)	2021/12/06			93	30 - 130	93	%		
A457368	D5-NITROBENZENE (sur.)	2021/12/06			87	30 - 130	86	%		
A457369	2,4-Dichlorophenyl Acetic Acid	2021/12/06			100	50 - 130	98	%		
A457369	2,5-Dibromobenzoic Acid	2021/12/06			101	10 - 130	97	%		
A457369	4,4-Dibromobiphenyl	2021/12/06			90	10 - 130	88	%		
A457370	2-Fluorobiphenyl	2021/12/07			62	30 - 130	68	%		
A457370	D14-Terphenyl (FS)	2021/12/07			97	30 - 130	96	%		
A457370	D5-NITROBENZENE (sur.)	2021/12/07			85	30 - 130	81	%		
A445327	* Total of Fatty Acids Detected	2021/12/01					<0.072	mg/L	NC (3)	30
A445327	* Total of Resin Acids Detected	2021/12/01					<0.060	mg/L	NC (3)	30
A445327	12,14-dichlorodehydroabietic acid	2021/12/01	110 (1)	50 - 130	102	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	12-chlorodehydroabietic acid	2021/12/01	119 (1)	50 - 130	104	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	14-chlorodehydroabietic acid	2021/12/01	120 (1)	50 - 130	102	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	9,10-dichlorostearic acid (C18)	2021/12/01	79 (1)	50 - 130	94	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Abietic acid	2021/12/01	56 (1)	50 - 130	79	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Decanoic acid (C10)	2021/12/01	104 (1)	50 - 130	101	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Dehydroabietic acid	2021/12/01	127 (1)	50 - 130	109	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Docosanoic acid (C22)	2021/12/01	150 (2,1)	50 - 130	130	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Dodecanoic acid (C12)	2021/12/01	103 (1)	50 - 130	93	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Eicosanoic acid (C20)	2021/12/01	134 (2,1)	50 - 130	107	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Hexadecanoic acid (C16)	2021/12/01	106 (1)	50 - 130	110	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Isopimaric acid	2021/12/01	100 (1)	50 - 130	107	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Linoleic acid (C18:2)	2021/12/01	90 (1)	50 - 130	85	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Linolenic acid (C18:3)	2021/12/01	98 (1)	50 - 130	92	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Neoabietic acid	2021/12/01	41 (2,1)	50 - 130	78	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Octadecanoic acid (C18)	2021/12/01	129 (1)	50 - 130	114	50 - 130	<0.0060	mg/L	NC (3)	30



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## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A445327	Oleic acid (C18:1)	2021/12/01	119 (1)	50 - 130	110	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Palustric acid	2021/12/01	53 (1)	50 - 130	74	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Pimamic acid	2021/12/01	82 (1)	50 - 130	93	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Sandaracopimamic acid	2021/12/01	94 (1)	50 - 130	103	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Tetradecanoic acid (C14)	2021/12/01	116 (1)	50 - 130	106	50 - 130	<0.0060	mg/L	NC (3)	30
A445327	Undecanoic acid (C11)	2021/12/01	109 (1)	50 - 130	100	50 - 130	<0.0060	mg/L	NC (3)	30
A448657	Aroclor 1016	2021/12/02					<0.050	ug/L	NC (4)	30
A448657	Aroclor 1221	2021/12/02					<0.050	ug/L	NC (4)	30
A448657	Aroclor 1232	2021/12/02					<0.050	ug/L	NC (4)	30
A448657	Aroclor 1242	2021/12/02					<0.050	ug/L	NC (4)	30
A448657	Aroclor 1248	2021/12/02					<0.050	ug/L	NC (4)	30
A448657	Aroclor 1254	2021/12/02					<0.050	ug/L	NC (4)	30
A448657	Aroclor 1260	2021/12/02	90	50 - 130	93	50 - 130	<0.050	ug/L	NC (4)	30
A448657	Aroclor 1262	2021/12/02					<0.050	ug/L	NC (4)	30
A448657	Aroclor 1268	2021/12/02					<0.050	ug/L	NC (4)	30
A457366	a-BHC	2021/12/23	90 (5)	30 - 130	92	30 - 130	<0.005	ug/L	0.96 (4)	40
A457366	a-Chlordane	2021/12/23	84 (5)	50 - 130	85	50 - 130	<0.005	ug/L	0.90 (4)	30
A457366	Aldrin	2021/12/23	73 (5)	50 - 130	71	50 - 130	<0.005	ug/L	0.085 (4)	30
A457366	b-BHC	2021/12/23	73 (5)	30 - 130	70	30 - 130	<0.005	ug/L	1.5 (4)	40
A457366	d-BHC	2021/12/23	77 (5)	30 - 130	74	30 - 130	<0.005	ug/L	1.2 (4)	40
A457366	Dieldrin	2021/12/23	97 (5)	50 - 130	97	50 - 130	<0.005	ug/L	2.1 (4)	30
A457366	Endosulfan I	2021/12/23	77 (5)	50 - 130	76	50 - 130	<0.005	ug/L	3.5 (4)	30
A457366	Endosulfan II	2021/12/23	83 (5)	50 - 130	82	50 - 130	<0.005	ug/L	0.27 (4)	30
A457366	Endosulfan Sulfate	2021/12/23	92 (5)	30 - 130	92	30 - 130	<0.005	ug/L	2.2 (4)	40
A457366	Endrin Aldehyde	2021/12/23	83 (5)	30 - 130	74	30 - 130	<0.005	ug/L	2.4 (4)	40
A457366	Endrin ketone	2021/12/23	90 (5)	30 - 130	92	30 - 130	<0.005	ug/L	1.6 (4)	40
A457366	Endrin	2021/12/23	86 (5)	50 - 130	89	50 - 130	<0.005	ug/L	2.3 (4)	30
A457366	g-Chlordane	2021/12/23	84 (5)	50 - 130	85	50 - 130	<0.005	ug/L	0.74 (4)	30
A457366	Heptachlor Epoxide	2021/12/23	82 (5)	50 - 130	84	50 - 130	<0.005	ug/L	1.6 (4)	30
A457366	Heptachlor	2021/12/23	64 (5)	50 - 130	61	50 - 130	<0.005	ug/L	1.5 (4)	30
A457366	Hexachlorobenzene	2021/12/23	84 (5)	50 - 130	84	50 - 130	<0.005	ug/L	0.44 (4)	30
A457366	Lindane	2021/12/23	76 (5)	50 - 130	81	50 - 130	<0.003	ug/L	9.0 (4)	30



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Site Location: VILLAGE OF TAHSIS  
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A457366	Methoxychlor	2021/12/23	81 (5)	50 - 130	86	50 - 130	<0.01	ug/L	2.4 (4)	30
A457366	Mirex	2021/12/23	84 (5)	30 - 130	82	30 - 130	<0.005	ug/L	7.8 (4)	40
A457366	o,p'-DDD	2021/12/23	101 (5)	50 - 130	104	50 - 130	<0.005	ug/L	1.2 (4)	30
A457366	o,p'-DDE	2021/12/23	120 (5)	50 - 130	113	50 - 130	<0.005	ug/L	6.8 (4)	30
A457366	o,p'-DDT	2021/12/23	80 (5)	50 - 130	81	50 - 130	<0.005	ug/L	0.48 (4)	30
A457366	Octachlorostyrene	2021/12/23	93 (5)	30 - 130	95	30 - 130	<0.005	ug/L	0.59 (4)	40
A457366	Oxychlordane	2021/12/23	90 (5)	30 - 130	91	30 - 130	<0.005	ug/L	1.6 (4)	30
A457366	p,p'-DDD	2021/12/23	94 (5)	50 - 130	98	50 - 130	<0.005	ug/L	0.97 (4)	30
A457366	p,p'-DDE	2021/12/23	78 (5)	50 - 130	75	50 - 130	<0.005	ug/L	3.6 (4)	30
A457366	p,p'-DDT	2021/12/23	70 (5)	50 - 130	74	50 - 130	<0.005	ug/L	1.6 (4)	30
A457366	Toxaphene	2021/12/23					<0.2	ug/L		
A457368	Aldicarb	2021/12/06			93	30 - 130	<5.0	ug/L	1.2 (4)	40
A457368	Atrazine	2021/12/06			91	30 - 130	<1.0	ug/L	2.5 (4)	40
A457368	Bendiocarb	2021/12/06			103	30 - 130	<2.0	ug/L	0.43 (4)	40
A457368	Carbaryl	2021/12/06			90	30 - 130	<5.0	ug/L	6.6 (4)	40
A457368	Carbofuran	2021/12/06			99	30 - 130	<5.0	ug/L	3.0 (4)	40
A457368	Chlorpyrifos (Dursban)	2021/12/06			97	30 - 130	<2.0	ug/L	0.91 (4)	40
A457368	Cyanazine (Bladex)	2021/12/06			110	30 - 130	<5.0	ug/L	2.0 (4)	40
A457368	Demeton-S	2021/12/06			88	30 - 130	<2.0	ug/L	3.5 (4)	40
A457368	Diazinon	2021/12/06			103	30 - 130	<2.0	ug/L	0.57 (4)	40
A457368	Dichlorvos	2021/12/06			84	30 - 130	<2.0	ug/L	3.5 (4)	40
A457368	Dimethoate	2021/12/06			94	30 - 130	<2.0	ug/L	3.4 (4)	40
A457368	Ethion	2021/12/06			100	30 - 130	<1.0	ug/L	4.2 (4)	40
A457368	Fenchlorphos (Ronnel)	2021/12/06			97	30 - 130	<2.0	ug/L	2.1 (4)	40
A457368	Fenthion	2021/12/06			96	30 - 130	<1.0	ug/L	3.4 (4)	40
A457368	Fonofos	2021/12/06			92	30 - 130	<2.0	ug/L	1.6 (4)	40
A457368	Guthion (Azinphos-methyl)	2021/12/06			115	30 - 130	<1.0	ug/L	5.1 (4)	40
A457368	Malathion	2021/12/06			102	30 - 130	<2.0	ug/L	2.4 (4)	40
A457368	Metolachlor	2021/12/06			100	30 - 130	<5.0	ug/L	1.4 (4)	40
A457368	Mevinphos (Phosdrin)	2021/12/06			86	30 - 130	<2.0	ug/L	0.79 (4)	40
A457368	Parathion Ethyl	2021/12/06			95	30 - 130	<2.0	ug/L	2.3 (4)	40
A457368	Parathion methyl	2021/12/06			97	30 - 130	<2.0	ug/L	2.0 (4)	40



BUREAU  
VERITAS

Bureau Veritas Job #: C193145  
Report Date: 2021/12/30

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A457368	Phorate (Thimet)	2021/12/06			90	30 - 130	<1.0	ug/L	2.6 (4)	40
A457368	Phosmet	2021/12/06			100	30 - 130	<2.0	ug/L	4.0 (4)	40
A457368	Prometryn	2021/12/06			102	30 - 130	<1.0	ug/L	2.2 (4)	40
A457368	Simazine	2021/12/06			90	30 - 130	<2.0	ug/L	3.2 (4)	40
A457368	Terbufos	2021/12/06			90	30 - 130	<1.0	ug/L	1.6 (4)	40
A457368	Triallate	2021/12/06			88	30 - 130	<5.0	ug/L	1.5 (4)	40
A457368	Trifluralin	2021/12/06			92	30 - 130	<5.0	ug/L	1.4 (4)	40
A457369	2,4,5-T	2021/12/06			101	10 - 130	<0.50	ug/L	1.0 (4)	40
A457369	2,4,5-TP	2021/12/06			96	10 - 130	<0.50	ug/L	0.60 (4)	40
A457369	2,4-D (BEE)	2021/12/06			112	10 - 130	<0.50	ug/L	0.67 (4)	40
A457369	2,4-D	2021/12/06			94	10 - 130	<0.50	ug/L	0.82 (4)	40
A457369	2,4-DB	2021/12/06			95	10 - 130	<0.50	ug/L	1.4 (4)	40
A457369	Dicamba	2021/12/06			91	10 - 130	<0.50	ug/L	3.0 (4)	40
A457369	Dichlorprop	2021/12/06			94	10 - 130	<0.50	ug/L	0.31 (4)	40
A457369	MCPA	2021/12/06			96	10 - 130	<0.50	ug/L	1.1 (4)	40
A457369	MCPP	2021/12/06			104	10 - 130	<0.50	ug/L	2.1 (4)	40
A457369	Picloram	2021/12/06			82	10 - 130	<0.50	ug/L	3.8 (4)	40
A457370	Ametryn	2021/12/07			114	40 - 130	<3	ug/L	5.8 (4)	50
A457370	Atrazine	2021/12/07			105	40 - 130	<1	ug/L	0.048 (4)	50
A457370	Cyanazine (Bladex)	2021/12/07			124	40 - 130	<3	ug/L	3.9 (4)	50
A457370	Metribuzin (Sencor)	2021/12/07			104	40 - 130	<3	ug/L	3.4 (4)	50
A457370	Prometon	2021/12/07			104	40 - 130	<0.5	ug/L	3.0 (4)	50
A457370	Prometryn	2021/12/07			113	40 - 130	<3	ug/L	0.41 (4)	50
A457370	Propazine	2021/12/07			103	40 - 130	<3	ug/L	0.46 (4)	50
A457370	Simazine	2021/12/07			108	40 - 130	<3	ug/L	2.4 (4)	50
A457370	Simetryn	2021/12/07			107	40 - 130	<0.5	ug/L	1.0 (4)	50



BUREAU  
VERITAS

Bureau Veritas Job #: C193145  
Report Date: 2021/12/30

## QUALITY ASSURANCE REPORT(CONT'D)

GHD Limited  
Client Project #: 11218464  
Site Location: VILLAGE OF TAHSIS  
Your P.O. #: 73523096

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A457370	Terbutryne	2021/12/07			110	40 - 130	<0.5	ug/L	1.8 (4)	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [ALT056-02]

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(3) Duplicate Parent ID [ALT057-02]

(4) Duplicate Parent ID

(5) Matrix Spike Parent ID [ALT056-03]



BUREAU  
VERITAS

Bureau Veritas Job #: C193145

Report Date: 2021/12/30

GHD Limited

Client Project #: 11218464

Site Location: VILLAGE OF TAHSIS

Your P.O. #: 73523096

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Brad Newman, Scientific Specialist

Jingyuan Song, QP, Organics – Senior Analyst

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.  
For Service Group specific validation please refer to the Validation Signature Page.

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Bureau Veritas Laboratories  
4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.bvna.com

Page of

### Chain Of Custody Record

INVOICE TO:		Report Information					Project Information			Laboratory Use Only								
Company Name #163 GHD Limited Contact Name Accounts Payable - 735 Address 455 PHILLIP STREET WATERLOO ON N2L 3X2 Phone (519) 884-0510 Fax: (519) 725-1394 Email Invoicing-Canada@ghd.com		Company Name 11218464 Distribution Contact Name Address Phone Email					Quotation # C10010 P.O. # 73523096 Project # 11218464 Project Name Village of Tahsis Site # Sampled By K. Haster			Bureau Veritas Job #  Bottle Order #: 653563								
Regulatory Criteria: <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____		Special Instructions <i>Short holding times, groundwater samples</i>					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)			Turnaround Time (TAT) Required: Please provide advance notice for rush projects Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.								
<b>SAMPLES MUST BE KEPT COOL (&lt; 10°C ) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS</b>										Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____ Rush Confirmation Number: _____ (call lab for #)								
	Sample Barcode Label	Sample (Location) Identification		Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)	Speciated Alkalinity, Cl, F, SO4, NO2, NO3, N+H, EC, Turb	Dissolved Metals with CV Hg	Total Metals with CV Hg	Ammonia-N (Total)	PAH	Polychlorinated Biphenyls in Water	Resin and Fatty Acids	DC Pesticides / OP Pesticides / Phenox Acid / Triazine	Total Coliforms & E.Coli	<i>Phenox Acid/Triazine</i>	Comments
1	KH	WB-11218464-241121-KH-01		11/20	11:20	water							X	X	X	X	X	
2	KH	WB-11218464-241121-KH-01		11/20	11:20								X	X	X	X	X	
3	KH	WB-11218464-241121-KH-01		11/20	11:20								X	X	X	X	X	
4																		
5		WB-11218464-241121-KH-01		11/20	11:20	water							X	X	X	X	X	
6		WB-11218464-241121-KH-01		11/20	11:20								X	X	X	X	X	
7																		
8																		
9																		
10																		
* RELINQUISHED BY: (Signature/Print) <i>Melissa Jenkins</i>			Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only								
			21/11/24	1300	<i>Abby Penney, Lab prep</i>		20/11/24	09:00		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?						
										3,5,5,18,5,5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
										6,5,5	White: Bureau Veritas Yellow: Client							

UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT [WWW.BVLABS.COM/TERMS-AND-CONDITIONS](http://WWW.BVLABS.COM/TERMS-AND-CONDITIONS).

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Bureau Veritas Canada (2019) Inc.

*Ice:y*



Bureau Veritas Laboratories  
4605 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.bvna.com

INVOICE TO:					Report Information					Project Information			Laboratory Use Only			
Company Name Contact Name Address Phone Email	#163 GHD Limited Accounts Payable - 735 455 PHILLIP STREET WATERLOO ON N2L 3X2 (519) 884-0510 Fax (519) 725-1394 Invoicing-Canada@ghd.com	Company Name Contact Name Address Phone Email	11218464 Distribution  Fax: airesse.macphee@ghd.com; tristan.habdas@ghd.com;	Quotation # P.O. # Project # Project Name Site # Sampled By	C10010 73523096 11218464 11218464 2021130-091 Tristan	Bureau Veritas Job # Bottle Order #	2021130-091 653563	Chain Of Custody Record Project Manager	Chain Of Custody Record Project Manager	Barcode C#53563-01-01	Thomas Pinchin					
Regulatory Criteria:  <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____		Special Instructions:  <i>short holding times, groundwater samples</i>		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)					Turnaround Time (TAT) Required:  Please provide advance notice for rush projects.							
SAMPLES MUST BE KEPT COOL (< 10°C ) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS										Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests.  Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.						
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)	Speciated Alkalinity, Cl, F, SO <sub>4</sub> , NO <sub>2</sub> , NO <sub>3</sub> , N+H, EC, Turb	Dissolved Metals with CV Hg	Total Metals with CV Hg	Ammonia-N (Total)	PAH	Polychlorinated Biphenyls in Water	Resin and Fatty Acids	OC Pesticides /OP Pesticides/ Phenoxyl Acid / Triazine	Total Coliforms & E.Coli	Pesticide Acid / Triazine	Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____
1	KH	W6-11218464-2021130-KH-01	11:20	water						X	X	X	X	X	<input checked="" type="checkbox"/> X	
2	KH	W6-11218464-2021130-KH-01	11:20	water						X	X	X	X	X	<input checked="" type="checkbox"/> X	
3	KH	W6-11218464-2021130-KH-01	11:20	water						X	X	X	X	X	<input checked="" type="checkbox"/> X	
4																
5	W6-11218464-2021130-KH-01	11:20	water							X	X	X			<input checked="" type="checkbox"/> X	
6	W6-11218464-2021130-KH-01	11:20	water							X	X	X	X	X	<input checked="" type="checkbox"/> X	
7										X						
8																
9																
10																
RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)			Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only						
William Jenkins		21/11/24	10:00 AM	Tristan			21/11/24	10:00 AM		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 3, 5, 5, 18, 5, 5	Custody Seal Intact on Cooler? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
UNLESS OTHERWISE AGREED IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT <a href="http://WWW.BVLABS.COM/TERMS-AND-CONDITIONS">WWW.BVLABS.COM/TERMS-AND-CONDITIONS</a> .										White: Bureau Veritas Yellow: Client 6/5/24						
IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.										Ice						

Bureau Veritas Canada (2019) Inc.

**Billo Puni**

---

**From:** Thomas PINCHIN  
**Sent:** Friday, November 26, 2021 1:36 PM  
**To:** Alfred Ngai  
**Cc:** Billo Puni  
**Subject:** RE: Ghd

Hi Alfred,

Please see blow:

Campo:  
2x1L amber glass – ZOP-MSM-W – OP Pesticides  
2x1L amber glass – ZPA-MS-L – Phenoxy Acid Herbicides  
2x1L amber glass – ZTRIAZ-L Triazine Herbicides  
2x500mL amber glass - ZOC-SEL-L, ZOC-SUMS-W – OC Pesticides

Calgary:  
2x500mL amber glass – PCB  
2x250mL amber glass – RFA – Resin Fatty Acids.

Thanks,

**THOMAS PINCHIN, B. Sc.**  
Customer Solutions Representative - Western Canada  
Environmental Laboratories & Specialty Services  
**Bureau Veritas**

Phone: 604 638 5926 ext: 706 5926  
Mobile: 604 786 9631  
[Thomas.Pinchin@bureauveritas.com](mailto:Thomas.Pinchin@bureauveritas.com)  
[www.bvna.com](http://www.bvna.com)  
*Shaping a world of trust*

---

**From:** Alfred Ngai  
**Sent:** Friday, November 26, 2021 1:32 PM  
**To:** Thomas PINCHIN <[thomas.pinchin@bureauveritas.com](mailto:thomas.pinchin@bureauveritas.com)>  
**Cc:** Billo Puni <[billo.puni@bureauveritas.com](mailto:billo.puni@bureauveritas.com)>  
**Subject:** Ghd

Hi,

Can you please verify where to send these analysis and how many bottles for each analysis request on the CoC attached

Each samples have  
6x 1L amber glass  
4x 500mL amber glass  
2x250mL amber glass

**Alfred Ngai**

# **Attachment B**

## **Verification Memorandum**

# Technical Memorandum

January 6, 2022

<b>To</b>	Rose Marie Rocca, Natasha Turl, Kathleen Hasler, Melissa Jenkins	<b>Tel</b>	604-248-3661
<b>Copy to</b>		<b>Email</b>	Airesse.Macphee@ghd.com
<b>From</b>	Airesse MacPhee/an/03	<b>Ref. No.</b>	11218464
<b>Subject</b>	Data Quality Assessment and Verification		

<b>Laboratory:</b>	Bureau Veritas				
<b>Lab Job No.:</b>	C183596, C183595, C188818, C193145				
<b>Date(s) Sampled:</b>	October 29-November 24, 2021				
<b>Media Sampled:</b>	Surface Water, Groundwater				
QA/QC	Criteria	Pass	Qualifiers	Fail	N/A
<b>Holding Times</b>	Analyte specific	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Temperature</b>	<10°C at receipt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Sample Preservation</b>	Required container/preservatives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Field Duplicate (blind)</b>	Matrix Specific	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Field Blank (blind)</b>	Non detect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Trip Blank</b>	Non detect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Lab QA/QC</b>	Within standard recoveries	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The following results are qualified due to holding time exceedance:

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
C188818	11/17/2021	WG-11216484-171121-KH-01	Alkalinity (as CaCO <sub>3</sub> pH=8.3)	1.0	UJ	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-02	Alkalinity (as CaCO <sub>3</sub> pH=8.3)	1.0	UJ	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-01	Alkalinity, total (as CaCO <sub>3</sub> )	54	J	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-02	Alkalinity, total (as CaCO <sub>3</sub> )	47	J	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-01	Bicarbonate (as CaCO <sub>3</sub> )	66	J	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-02	Bicarbonate (as CaCO <sub>3</sub> )	58	J	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-01	Carbonate (as CaCO <sub>3</sub> )	1.0	UJ	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-02	Carbonate (as CaCO <sub>3</sub> )	1.0	UJ	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-01	Hydroxide (as CaCO <sub>3</sub> )	1.0	UJ	mg/L
C188818	11/17/2021	WG-11216484-171121-KH-02	Hydroxide (as CaCO <sub>3</sub> )	1.0	UJ	mg/L

The following results are qualified based on dissolved results that are significantly higher than the total results:

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
C183595	10/29/2021	WS-11218464-291021-NT-02	Silicon	1500	J	µg/L
C183595	10/29/2021	WS-11218464-291021-NT-02	Silicon (dissolved)	1870	J	µg/L

The following results are qualified based on surrogate recovery acceptance violations:

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
C193145	11/24/2021	WG-11218464-241121-KH-01	12/14-Dichlorodehydroabietic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	12-Chlorodehydroabietic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	14-Chlorodehydroabietic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	9,10-Dichlorostearic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Abietic Acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Arachidic acid (Eicosanoic acid)	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Capric acid (Decanoic acid)	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Dehydroabietic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Docosanoic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Dodecanoic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Hexadecanoic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Isopimaric acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Linoleic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Linoleic acid A	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Neoabietic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Octadecanoic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Oleic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Palustric acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Pimamic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Sandarcopimamic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Tetradecanoic acid	0.0060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Total of fatty acids detected	0.072	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Total of resin acids detected	0.060	UJ	mg/L
C193145	11/24/2021	WG-11218464-241121-KH-01	Undecanoic Acid	0.0060	UJ	mg/L

Conclusion:

Based on the assessment detailed in the foregoing, the data summarized are acceptable with the specific qualifications noted above.

Notes:

- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Data verification reference documents:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, September 2016.
2. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, September 2016.
3. "British Columbia Environmental Laboratory Manual", Analysis, Reporting & Knowledge Services Knowledge Management Branch Ministry of Environment and Climate Change Strategy Province of British Columbia, April 2020.

Regards



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