



Your Project #: HCL
Your C.O.C. #: 834487-15-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/09/02
Report #: R6794764
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C106057

Received: 2021/08/27, 15:11

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/08/30	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/09/01	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/08/30	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/08/28	2021/08/30	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/09/01	CAM SOP 00102/00408/00447	SM 2340 B
Total Metals Analysis by ICPMS	1	N/A	2021/09/02	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/08/31	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/31	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/08/28	2021/08/30	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/08/30	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/08/30	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/08/31	2021/09/02	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/08/31	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/08/31	2021/08/31	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/08/31	2021/09/01	CAM SOP-00428	SM 23 2540D m

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
02 Sep 2021 18:12:17

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

Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

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Total Cover Pages : 1
Page 1 of 10



RESULTS OF ANALYSES OF WATER

BV Labs ID		QMR033			QMR033		
Sampling Date		2021/08/26 10:30			2021/08/26 10:30		
COC Number		834487-15-01			834487-15-01		
	UNITS	HCL10:30	RDL	QC Batch	HCL10:30 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	2300	1.0	7545480			
Inorganics							
Total Ammonia-N	mg/L	0.26	0.050	7550934	0.24	0.050	7550934
Conductivity	umho/cm	3300	1.0	7547887			
Fluoride (F-)	mg/L	1.1	0.10	7547885			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.69	0.10	7551046	0.70	0.10	7551046
Total Organic Carbon (TOC)	mg/L	3.0	0.40	7551534			
Orthophosphate (P)	mg/L	<0.010	0.010	7547943			
pH	pH	7.38		7547888			
Phenols-4AAP	mg/L	<0.0010	0.0010	7548445			
Total Phosphorus	mg/L	0.054	0.020	7550892			
Total Suspended Solids	mg/L	22	10	7547856			
Alkalinity (Total as CaCO3)	mg/L	380	1.0	7547886			
Nitrite (N)	mg/L	<0.010	0.010	7547924			
Dissolved Chloride (Cl-)	mg/L	92	5.0	7547906			
Nitrate (N)	mg/L	<0.10	0.10	7547924			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7547924			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7547906			
Dissolved Sulphate (SO4)	mg/L	2000	5.0	7547906			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



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VERITAS

BV Labs Job #: C106057
Report Date: 2021/09/02

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QMR033		
Sampling Date		2021/08/26 10:30		
COC Number		834487-15-01		
	UNITS	HCL10:30	RDL	QC Batch
Metals				
Total Aluminum (Al)	mg/L	0.011	0.0049	7553621
Total Antimony (Sb)	mg/L	<0.00050	0.00050	7553621
Total Arsenic (As)	mg/L	0.0021	0.0010	7553621
Total Barium (Ba)	mg/L	0.020	0.0020	7553621
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7553621
Total Bismuth (Bi)	mg/L	<0.0010	0.0010	7553621
Total Boron (B)	mg/L	0.36	0.010	7553621
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7553621
Total Calcium (Ca)	mg/L	490	0.20	7553621
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7553621
Total Cobalt (Co)	mg/L	0.0021	0.00050	7553621
Total Copper (Cu)	mg/L	<0.00090	0.00090	7553621
Total Iron (Fe)	mg/L	3.4	0.10	7553621
Total Lead (Pb)	mg/L	<0.00050	0.00050	7553621
Total Lithium (Li)	mg/L	0.015	0.0050	7553621
Total Magnesium (Mg)	mg/L	260	0.050	7553621
Total Manganese (Mn)	mg/L	1.7	0.0020	7553621
Total Molybdenum (Mo)	mg/L	0.0062	0.00050	7553621
Total Nickel (Ni)	mg/L	0.018	0.0010	7553621
Total Potassium (K)	mg/L	3.3	0.20	7553621
Total Selenium (Se)	mg/L	<0.0020	0.0020	7553621
Total Silicon (Si)	mg/L	5.9	0.050	7553621
Total Silver (Ag)	mg/L	<0.000090	0.000090	7553621
Total Sodium (Na)	mg/L	78	0.10	7553621
Total Strontium (Sr)	mg/L	3.6	0.0010	7553621
Total Tellurium (Te)	mg/L	<0.0010	0.0010	7553621
Total Thallium (Tl)	mg/L	<0.000050	0.000050	7553621
Total Tin (Sn)	mg/L	<0.0010	0.0010	7553621
Total Titanium (Ti)	mg/L	<0.0050	0.0050	7553621
Total Tungsten (W)	mg/L	<0.0010	0.0010	7553621
Total Uranium (U)	mg/L	0.036	0.00010	7553621
Total Vanadium (V)	mg/L	<0.00050	0.00050	7553621
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7553621
Total Zirconium (Zr)	mg/L	<0.0010	0.0010	7553621
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C106057
Report Date: 2021/09/02

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QMR033
Sample ID: HCL10:30
Matrix: Water

Collected: 2021/08/26
Shipped:
Received: 2021/08/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7547886	N/A	2021/08/30	Surinder Rai
Anions	IC	7547906	N/A	2021/09/01	Fari Dehdezi
Conductivity	AT	7547887	N/A	2021/08/30	Surinder Rai
Fluoride	ISE	7547885	2021/08/28	2021/08/30	Surinder Rai
Hardness (calculated as CaCO3)		7545480	N/A	2021/09/01	Automated Statchk
Total Metals Analysis by ICPMS	ICP/MS	7553621	N/A	2021/09/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7550934	N/A	2021/08/31	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7547924	N/A	2021/08/31	Nimarta Singh
pH	AT	7547888	2021/08/28	2021/08/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7548445	N/A	2021/08/30	Deonarine Ramnarine
Orthophosphate	KONE	7547943	N/A	2021/08/30	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7551046	2021/08/31	2021/09/02	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7551534	N/A	2021/08/31	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7550892	2021/08/31	2021/08/31	Shivani Shivani
Total Suspended Solids	BAL	7547856	2021/08/31	2021/09/01	Shaneil Hall

BV Labs ID: QMR033 Dup
Sample ID: HCL10:30
Matrix: Water

Collected: 2021/08/26
Shipped:
Received: 2021/08/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7550934	N/A	2021/08/31	Amanpreet Sappal
Total Kjeldahl Nitrogen in Water	SKAL	7551046	2021/08/31	2021/09/02	Massarat Jan



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VERITAS

BV Labs Job #: C1O6057
Report Date: 2021/09/02

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C
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Sample QMR033 [HCL10:30] : Anions: Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C106057
Report Date: 2021/09/02

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7547856	Total Suspended Solids	2021/09/01					<10	mg/L	9.5	25	101	85 - 115
7547885	Fluoride (F-)	2021/08/30	97	80 - 120	99	80 - 120	<0.10	mg/L	12	20		
7547886	Alkalinity (Total as CaCO3)	2021/08/30			94	85 - 115	<1.0	mg/L	0.98	20		
7547887	Conductivity	2021/08/30			103	85 - 115	<1.0	umho/cm	0.15	25		
7547888	pH	2021/08/30			102	98 - 103			1.4	N/A		
7547906	Dissolved Bromide (Br-)	2021/09/01	102	80 - 120	105	80 - 120	<1.0	mg/L	NC	20		
7547906	Dissolved Chloride (Cl-)	2021/09/01	97	80 - 120	101	70 - 130	<1.0	mg/L	2.2	20		
7547906	Dissolved Sulphate (SO4)	2021/09/01	97	80 - 120	100	80 - 120	<1.0	mg/L	12	20		
7547924	Nitrate (N)	2021/08/31	100	80 - 120	99	80 - 120	<0.10	mg/L	10	20		
7547924	Nitrite (N)	2021/08/31	103	80 - 120	107	80 - 120	<0.010	mg/L	3.9	20		
7547943	Orthophosphate (P)	2021/08/30	115	75 - 125	99	80 - 120	<0.010	mg/L	0.35	25		
7548445	Phenols-4AAP	2021/08/30	92	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
7550892	Total Phosphorus	2021/08/31	97	80 - 120	99	80 - 120	<0.020	mg/L	0.30	20	98	80 - 120
7550934	Total Ammonia-N	2021/08/31	97	75 - 125	101	80 - 120	<0.050	mg/L	10	20		
7551046	Total Kjeldahl Nitrogen (TKN)	2021/09/02	94	80 - 120	94	80 - 120	<0.10	mg/L	1.9	20	94	80 - 120
7551534	Total Organic Carbon (TOC)	2021/08/31	94	80 - 120	96	80 - 120	<0.40	mg/L	3.2	20		
7553621	Total Aluminum (Al)	2021/09/02	89	80 - 120	94	80 - 120	<0.0049	mg/L	0.26	20		
7553621	Total Antimony (Sb)	2021/09/02	100	80 - 120	100	80 - 120	<0.00050	mg/L	0.44	20		
7553621	Total Arsenic (As)	2021/09/02	95	80 - 120	99	80 - 120	<0.0010	mg/L	1.9	20		
7553621	Total Barium (Ba)	2021/09/02	95	80 - 120	103	80 - 120	<0.0020	mg/L	2.7	20		
7553621	Total Beryllium (Be)	2021/09/02	102	80 - 120	104	80 - 120	<0.00040	mg/L	NC	20		
7553621	Total Bismuth (Bi)	2021/09/02	88	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20		
7553621	Total Boron (B)	2021/09/02	NC	80 - 120	102	80 - 120	<0.010	mg/L	3.0	20		
7553621	Total Cadmium (Cd)	2021/09/02	96	80 - 120	99	80 - 120	<0.000090	mg/L	NC	20		
7553621	Total Calcium (Ca)	2021/09/02	NC	80 - 120	93	80 - 120	<0.20	mg/L	1.1	20		
7553621	Total Chromium (Cr)	2021/09/02	93	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
7553621	Total Cobalt (Co)	2021/09/02	90	80 - 120	97	80 - 120	<0.00050	mg/L	0.20	20		
7553621	Total Copper (Cu)	2021/09/02	98	80 - 120	106	80 - 120	<0.00090	mg/L	NC	20		
7553621	Total Iron (Fe)	2021/09/02	91	80 - 120	97	80 - 120	<0.10	mg/L	2.3	20		
7553621	Total Lead (Pb)	2021/09/02	91	80 - 120	95	80 - 120	<0.00050	mg/L	4.8	20		



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VERITAS

BV Labs Job #: C106057
Report Date: 2021/09/02

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7553621	Total Lithium (Li)	2021/09/02	97	80 - 120	101	80 - 120	<0.0050	mg/L	2.5	20		
7553621	Total Magnesium (Mg)	2021/09/02	NC	80 - 120	100	80 - 120	<0.050	mg/L	1.0	20		
7553621	Total Manganese (Mn)	2021/09/02	92	80 - 120	97	80 - 120	<0.0020	mg/L	2.3	20		
7553621	Total Molybdenum (Mo)	2021/09/02	104	80 - 120	103	80 - 120	<0.00050	mg/L	1.1	20		
7553621	Total Nickel (Ni)	2021/09/02	86	80 - 120	97	80 - 120	<0.0010	mg/L	3.2	20		
7553621	Total Potassium (K)	2021/09/02	NC	80 - 120	101	80 - 120	<0.20	mg/L	0.31	20		
7553621	Total Selenium (Se)	2021/09/02	93	80 - 120	97	80 - 120	<0.0020	mg/L	1.6	20		
7553621	Total Silicon (Si)	2021/09/02	87	80 - 120	93	80 - 120	<0.050	mg/L	2.6	20		
7553621	Total Silver (Ag)	2021/09/02	96	80 - 120	99	80 - 120	<0.000090	mg/L	NC	20		
7553621	Total Sodium (Na)	2021/09/02	NC	80 - 120	100	80 - 120	0.13, RDL=0.10 (1)	mg/L	2.0	20		
7553621	Total Strontium (Sr)	2021/09/02	NC	80 - 120	94	80 - 120	<0.0010	mg/L	4.3	20		
7553621	Total Tellurium (Te)	2021/09/02	100	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20		
7553621	Total Thallium (Tl)	2021/09/02	90	80 - 120	94	80 - 120	<0.000050	mg/L	6.8	20		
7553621	Total Tin (Sn)	2021/09/02	100	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7553621	Total Titanium (Ti)	2021/09/02	87	80 - 120	92	80 - 120	<0.0050	mg/L	4.0	20		
7553621	Total Tungsten (W)	2021/09/02	99	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
7553621	Total Uranium (U)	2021/09/02	94	80 - 120	89	80 - 120	<0.00010	mg/L	3.6	20		
7553621	Total Vanadium (V)	2021/09/02	96	80 - 120	101	80 - 120	<0.00050	mg/L	4.3	20		
7553621	Total Zinc (Zn)	2021/09/02	90	80 - 120	101	80 - 120	<0.0050	mg/L	1.1	20		



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VERITAS

BV Labs Job #: C106057
Report Date: 2021/09/02

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7553621	Total Zirconium (Zr)	2021/09/02	108	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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) Analyte was detected in the method blank at a level marginally above the detection limit. Sample results have not been blank corrected. Those results at or near the detection limit may be biased high..



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VERITAS

BV Labs Job #: C1O6057

Report Date: 2021/09/02


Terrapure Environmental

Client Project #: HCL

Sampler Initials: DT

VALIDATION SIGNATURE PAGE

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

Eva Pranjic


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

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
6740 Campbell Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Attention: Brad Mullin - GHD Reporting Address: Tel: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: HCL Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: COC #: Project Manager: Jolanta Goralczyk C#834487-15-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY.						Field Filtered (please circle): Metals / Hg / Cr / VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
Regulation 153 (2011)		Other Regulations		Special Instructions													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. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix												# of Bottles	Comments	
1	HCL 10:30 Aug 26 2021	10:30	10:30	water	NA												6 *excluding BOD*	
2				GW														
3				GW														
4				GW														
5				GW														
6				GW														
7				GW														
8				GW														
9				GW														
10				GW														

27-Aug-21 15:11
Jolanta Goralczyk
C106057
ENV 1105

RELINQUISHED BY: (Signature/Print) Dan Taylor	Date: (YY/MM/DD) 21/08/21	Time 9:40	RECEIVED BY: (Signature/Print) DIPKA SINGH	Date: (YY/MM/DD) 22/08/21	Time 15:11	# jars used and not submitted	Laboratory Use Only						
							Time Sensitive	Temperature (°C) on Receipt 2/5/6	Custody Seal Present/Intact	Yes	No		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS AN ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT 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.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS



Your Project #: GW
Your C.O.C. #: 834487-19-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/09/07
Report #: R6799967
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C109098
Received: 2021/08/31, 15:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/09/03	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/09/03	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/09/03	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/09/02	2021/09/03	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/09/03	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/09/03	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/09/02	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/09/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/09/02	2021/09/03	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/09/01	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/09/01	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	1	2021/09/02	2021/09/03	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/09/01	2021/09/02	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/09/02	CAM SOP-00446	SM 23 5310B m

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
07 Sep 2021 15:23:41

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
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BUREAU
VERITAS

BV Labs Job #: C109098
Report Date: 2021/09/07

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QNI485			QNI485		
Sampling Date		2021/08/30			2021/08/30		
COC Number		834487-19-01			834487-19-01		
	UNITS	50-II	RDL	QC Batch	50-II Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	3000	1.0	7551575			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	7553987			
Conductivity	umho/cm	4000	1.0	7557431	4000	1.0	7557431
Total Dissolved Solids	mg/L	4190	10	7556125			
Fluoride (F-)	mg/L	0.48	0.10	7557416	0.47	0.10	7557416
Total Kjeldahl Nitrogen (TKN)	mg/L	0.44	0.10	7553997			
Total Organic Carbon (TOC)	mg/L	2.3	0.40	7555140			
Orthophosphate (P)	mg/L	0.011	0.010	7553950			
pH	pH	7.55		7557444	7.49		7557444
Phenols-4AAP	mg/L	<0.0010	0.0010	7553181			
Alkalinity (Total as CaCO3)	mg/L	360	1.0	7557422	360	1.0	7557422
Nitrite (N)	mg/L	<0.010	0.010	7553385			
Dissolved Chloride (Cl-)	mg/L	140	10	7553389	140	10	7553389
Nitrate (N)	mg/L	<0.10	0.10	7553385			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7553385			
Dissolved Bromide (Br-)	mg/L	<10	10	7553389	<10	10	7553389
Dissolved Sulphate (SO4)	mg/L	2700	10	7553389	2700	10	7553389
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: C109098
Report Date: 2021/09/07

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QNI485		
Sampling Date		2021/08/30		
COC Number		834487-19-01		
	UNITS	50-II	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7554207
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7554207
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7554207
Dissolved Barium (Ba)	ug/L	8.8	2.0	7554207
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7554207
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7554207
Dissolved Boron (B)	ug/L	120	10	7554207
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7554207
Dissolved Calcium (Ca)	ug/L	470000	200	7554207
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7554207
Dissolved Cobalt (Co)	ug/L	0.79	0.50	7554207
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7554207
Dissolved Iron (Fe)	ug/L	<100	100	7554207
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7554207
Dissolved Lithium (Li)	ug/L	190	5.0	7554207
Dissolved Magnesium (Mg)	ug/L	450000	250	7554207
Dissolved Manganese (Mn)	ug/L	1100	2.0	7554207
Dissolved Molybdenum (Mo)	ug/L	1.3	0.50	7554207
Dissolved Nickel (Ni)	ug/L	6.6	1.0	7554207
Dissolved Phosphorus (P)	ug/L	<100	100	7554207
Dissolved Potassium (K)	ug/L	7800	200	7554207
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7554207
Dissolved Silicon (Si)	ug/L	6100	50	7554207
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7554207
Dissolved Sodium (Na)	ug/L	140000	100	7554207
Dissolved Strontium (Sr)	ug/L	4000	1.0	7554207
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7554207
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7554207
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7554207
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7554207
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7554207
Dissolved Uranium (U)	ug/L	26	0.10	7554207
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7554207
Dissolved Zinc (Zn)	ug/L	73	5.0	7554207
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7554207
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C109098
Report Date: 2021/09/07

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QNI485
Sample ID: 50-II
Matrix: Water

Collected: 2021/08/30
Shipped:
Received: 2021/08/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7557422	N/A	2021/09/03	Surinder Rai
Anions	IC	7553389	N/A	2021/09/03	Fari Dehdezi
Conductivity	AT	7557431	N/A	2021/09/03	Surinder Rai
Fluoride	ISE	7557416	2021/09/02	2021/09/03	Surinder Rai
Hardness (calculated as CaCO3)		7551575	N/A	2021/09/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7554207	N/A	2021/09/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7553987	N/A	2021/09/02	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7553385	N/A	2021/09/03	Nimarta Singh
pH	AT	7557444	2021/09/02	2021/09/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7553181	N/A	2021/09/01	Deonarine Ramnarine
Orthophosphate	KONE	7553950	N/A	2021/09/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7556125	2021/09/02	2021/09/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7553997	2021/09/01	2021/09/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7555140	N/A	2021/09/02	Julianna Castiglione

BV Labs ID: QNI485 Dup
Sample ID: 50-II
Matrix: Water

Collected: 2021/08/30
Shipped:
Received: 2021/08/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7557422	N/A	2021/09/03	Surinder Rai
Anions	IC	7553389	N/A	2021/09/03	Fari Dehdezi
Conductivity	AT	7557431	N/A	2021/09/03	Surinder Rai
Fluoride	ISE	7557416	2021/09/02	2021/09/03	Surinder Rai
pH	AT	7557444	2021/09/02	2021/09/03	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C109098

Report Date: 2021/09/07

Terrapure Environmental

Client Project #: GW

Sampler Initials: DT

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.7°C
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Sample QNI485 [50-II] : Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C109098

Report Date: 2021/09/07

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7553181	Phenols-4AAP	2021/09/01	91	80 - 120	99	80 - 120	<0.0010	mg/L	9.5	20		
7553385	Nitrate (N)	2021/09/03	106	80 - 120	108	80 - 120	<0.10	mg/L	NC	20		
7553385	Nitrite (N)	2021/09/03	104	80 - 120	104	80 - 120	<0.010	mg/L				
7553389	Dissolved Bromide (Br-)	2021/09/03	106	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7553389	Dissolved Chloride (Cl-)	2021/09/03	NC	80 - 120	100	70 - 130	<1.0	mg/L	1.6	20		
7553389	Dissolved Sulphate (SO4)	2021/09/03	NC	80 - 120	99	80 - 120	<1.0	mg/L	0.51	20		
7553950	Orthophosphate (P)	2021/09/01	116	75 - 125	98	80 - 120	<0.010	mg/L	NC	25		
7553987	Total Ammonia-N	2021/09/02	94	75 - 125	99	80 - 120	<0.050	mg/L	2.2	20		
7553997	Total Kjeldahl Nitrogen (TKN)	2021/09/02	105	80 - 120	93	80 - 120	<0.10	mg/L	8.8	20	102	80 - 120
7554207	Dissolved Aluminum (Al)	2021/09/03	103	80 - 120	102	80 - 120	<4.9	ug/L				
7554207	Dissolved Antimony (Sb)	2021/09/03	104	80 - 120	102	80 - 120	<0.50	ug/L				
7554207	Dissolved Arsenic (As)	2021/09/03	101	80 - 120	99	80 - 120	<1.0	ug/L				
7554207	Dissolved Barium (Ba)	2021/09/03	100	80 - 120	97	80 - 120	<2.0	ug/L	1.9	20		
7554207	Dissolved Beryllium (Be)	2021/09/03	102	80 - 120	100	80 - 120	<0.40	ug/L				
7554207	Dissolved Bismuth (Bi)	2021/09/03	100	80 - 120	99	80 - 120	<1.0	ug/L				
7554207	Dissolved Boron (B)	2021/09/03	99	80 - 120	96	80 - 120	<10	ug/L	1.2	20		
7554207	Dissolved Cadmium (Cd)	2021/09/03	101	80 - 120	101	80 - 120	<0.090	ug/L				
7554207	Dissolved Calcium (Ca)	2021/09/03	NC	80 - 120	99	80 - 120	<200	ug/L	2.2	20		
7554207	Dissolved Chromium (Cr)	2021/09/03	104	80 - 120	103	80 - 120	<5.0	ug/L				
7554207	Dissolved Cobalt (Co)	2021/09/03	102	80 - 120	100	80 - 120	<0.50	ug/L				
7554207	Dissolved Copper (Cu)	2021/09/03	101	80 - 120	102	80 - 120	<0.90	ug/L				
7554207	Dissolved Iron (Fe)	2021/09/03	99	80 - 120	97	80 - 120	<100	ug/L	NC	20		
7554207	Dissolved Lead (Pb)	2021/09/03	101	80 - 120	101	80 - 120	<0.50	ug/L				
7554207	Dissolved Lithium (Li)	2021/09/03	103	80 - 120	100	80 - 120	<5.0	ug/L				
7554207	Dissolved Magnesium (Mg)	2021/09/03	105	80 - 120	102	80 - 120	<50	ug/L	1.3	20		
7554207	Dissolved Manganese (Mn)	2021/09/03	102	80 - 120	100	80 - 120	<2.0	ug/L				
7554207	Dissolved Molybdenum (Mo)	2021/09/03	105	80 - 120	105	80 - 120	<0.50	ug/L				
7554207	Dissolved Nickel (Ni)	2021/09/03	100	80 - 120	101	80 - 120	<1.0	ug/L				
7554207	Dissolved Phosphorus (P)	2021/09/03	111	80 - 120	110	80 - 120	<100	ug/L				
7554207	Dissolved Potassium (K)	2021/09/03	102	80 - 120	101	80 - 120	<200	ug/L				
7554207	Dissolved Selenium (Se)	2021/09/03	103	80 - 120	102	80 - 120	<2.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C109098
Report Date: 2021/09/07

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7554207	Dissolved Silicon (Si)	2021/09/03	101	80 - 120	101	80 - 120	<50	ug/L				
7554207	Dissolved Silver (Ag)	2021/09/03	102	80 - 120	102	80 - 120	<0.090	ug/L				
7554207	Dissolved Sodium (Na)	2021/09/03	102	80 - 120	99	80 - 120	<100	ug/L	0.57	20		
7554207	Dissolved Strontium (Sr)	2021/09/03	100	80 - 120	98	80 - 120	<1.0	ug/L				
7554207	Dissolved Tellurium (Te)	2021/09/03	101	80 - 120	100	80 - 120	<1.0	ug/L				
7554207	Dissolved Thallium (Tl)	2021/09/03	102	80 - 120	101	80 - 120	<0.050	ug/L				
7554207	Dissolved Tin (Sn)	2021/09/03	104	80 - 120	103	80 - 120	<1.0	ug/L				
7554207	Dissolved Titanium (Ti)	2021/09/03	101	80 - 120	98	80 - 120	<5.0	ug/L				
7554207	Dissolved Tungsten (W)	2021/09/03	103	80 - 120	103	80 - 120	<1.0	ug/L				
7554207	Dissolved Uranium (U)	2021/09/03	98	80 - 120	99	80 - 120	<0.10	ug/L				
7554207	Dissolved Vanadium (V)	2021/09/03	104	80 - 120	103	80 - 120	<0.50	ug/L				
7554207	Dissolved Zinc (Zn)	2021/09/03	100	80 - 120	100	80 - 120	<5.0	ug/L				
7554207	Dissolved Zirconium (Zr)	2021/09/03	102	80 - 120	101	80 - 120	<1.0	ug/L				
7555140	Total Organic Carbon (TOC)	2021/09/02	95	80 - 120	94	80 - 120	<0.40	mg/L	1.4	20		
7556125	Total Dissolved Solids	2021/09/03					<10	mg/L	3.0	25	95	90 - 110
7557416	Fluoride (F-)	2021/09/03	84	80 - 120	103	80 - 120	<0.10	mg/L	2.4	20		
7557422	Alkalinity (Total as CaCO3)	2021/09/03			96	85 - 115	<1.0	mg/L	0.30	20		
7557431	Conductivity	2021/09/03			102	85 - 115	<1.0	umho/cm	0.51	25		
7557444	pH	2021/09/03			102	98 - 103			0.80	N/A		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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).



BUREAU
VERITAS

BV Labs Job #: C109098

Report Date: 2021/09/07


Terrapure Environmental

Client Project #: GW

Sampler Initials: DT

VALIDATION SIGNATURE PAGE

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

Eva Pranjic


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

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Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Attention: Brad Mullin - GHD Reporting Address: Tel: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: GW Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: 834497 COC #: Project Manager: Jolanta Goralczyk C#834487-19-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects			
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle) Metals Hg / Cr / VI	List "A" GW Monitoring											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.	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw														Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Indi/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw												# of Bottles		Comments	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____															
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table _____															
Include Criteria on Certificate of Analysis (Y/N)?																			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix															
	50-II	Aug 30 2021	AM	water	Y	X											6		

31-Aug-21 15:30
Jolanta Goralczyk
C109098
DSC ENW 772

* RELINQUISHED BY: (Signature/Print) Dan Taylor		Date: (YY/MM/DD) 21/08/21	Time 9:50	RECEIVED BY: (Signature/Print) Pawel Porek		Date: (YY/MM/DD) 2021-08-21	Time 15:30	# jars used and not submitted	Laboratory Use Only		Time Sensitive	Temperature (°C) on Receipt 4/6/4	Custody Seal Present	Yes	No
--	--	------------------------------	--------------	---	--	--------------------------------	---------------	-------------------------------	---------------------	--	----------------	--------------------------------------	----------------------	-----	----

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
 * 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.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.
 White: BV Labs Yellow: Client
 SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS



Your Project #: HCL
Your C.O.C. #: 834487-25-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/09/17
Report #: R6815279
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Q1149

Received: 2021/09/10, 17:03

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/09/14	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/09/15	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/09/14	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/09/13	2021/09/14	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/09/16	CAM SOP 00102/00408/00447	SM 2340 B
Total Metals Analysis by ICPMS	1	N/A	2021/09/16	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/09/16	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/09/14	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/09/13	2021/09/14	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/09/14	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/09/14	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/09/14	2021/09/16	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/09/14	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/09/15	2021/09/15	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/09/15	2021/09/16	CAM SOP-00428	SM 23 2540D m

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
17 Sep 2021 14:08:27

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

Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
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Total Cover Pages : 1
Page 1 of 9



BUREAU
VERITAS

BV Labs Job #: C1Q1149
Report Date: 2021/09/17

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QPU623		
Sampling Date		2021/09/09 15:00		
COC Number		834487-25-01		
	UNITS	HCL 3:00	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO ₃)	mg/L	1500	1.0	7573183
Inorganics				
Total Ammonia-N	mg/L	0.19	0.050	7576539
Conductivity	umho/cm	2200	1.0	7574572
Fluoride (F ⁻)	mg/L	0.73	0.10	7574549
Total Kjeldahl Nitrogen (TKN)	mg/L	0.66	0.10	7576615
Total Organic Carbon (TOC)	mg/L	4.1	0.40	7576362
Orthophosphate (P)	mg/L	<0.010	0.010	7574899
pH	pH	7.82		7574564
Phenols-4AAP	mg/L	<0.0010	0.0010	7575307
Total Phosphorus	mg/L	0.099	0.020	7578147
Total Suspended Solids	mg/L	83	10	7575685
Alkalinity (Total as CaCO ₃)	mg/L	280	1.0	7574560
Nitrite (N)	mg/L	0.020	0.010	7574009
Dissolved Chloride (Cl ⁻)	mg/L	60	5.0	7574016
Nitrate (N)	mg/L	<0.10	0.10	7574009
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7574009
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	7574016
Dissolved Sulphate (SO ₄)	mg/L	1200	5.0	7574016
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1Q1149
Report Date: 2021/09/17

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QPU623		
Sampling Date		2021/09/09 15:00		
COC Number		834487-25-01		
	UNITS	HCL 3:00	RDL	QC Batch
Metals				
Total Aluminum (Al)	mg/L	1.4	0.0049	7580854
Total Antimony (Sb)	mg/L	0.0011	0.00050	7580854
Total Arsenic (As)	mg/L	0.0024	0.0010	7580854
Total Barium (Ba)	mg/L	0.12	0.0020	7580854
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7580854
Total Bismuth (Bi)	mg/L	<0.0010	0.0010	7580854
Total Boron (B)	mg/L	0.30	0.010	7580854
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7580854
Total Calcium (Ca)	mg/L	380	0.20	7580854
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7580854
Total Cobalt (Co)	mg/L	0.012	0.00050	7580854
Total Copper (Cu)	mg/L	0.0058	0.00090	7580854
Total Iron (Fe)	mg/L	3.4	0.10	7580854
Total Lead (Pb)	mg/L	0.0069	0.00050	7580854
Total Lithium (Li)	mg/L	0.012	0.0050	7580854
Total Magnesium (Mg)	mg/L	180	0.050	7580854
Total Manganese (Mn)	mg/L	1.7	0.0020	7580854
Total Molybdenum (Mo)	mg/L	0.0091	0.00050	7580854
Total Nickel (Ni)	mg/L	0.042	0.0010	7580854
Total Potassium (K)	mg/L	4.1	0.20	7580854
Total Selenium (Se)	mg/L	<0.0020	0.0020	7580854
Total Silicon (Si)	mg/L	9.0	0.050	7580854
Total Silver (Ag)	mg/L	<0.000090	0.000090	7580854
Total Sodium (Na)	mg/L	51	0.10	7580854
Total Strontium (Sr)	mg/L	2.5	0.0010	7580854
Total Tellurium (Te)	mg/L	<0.0010	0.0010	7580854
Total Thallium (Tl)	mg/L	0.00026	0.000050	7580854
Total Tin (Sn)	mg/L	0.0011	0.0010	7580854
Total Titanium (Ti)	mg/L	0.037	0.0050	7580854
Total Tungsten (W)	mg/L	<0.0010	0.0010	7580854
Total Uranium (U)	mg/L	0.047	0.00010	7580854
Total Vanadium (V)	mg/L	0.0055	0.00050	7580854
Total Zinc (Zn)	mg/L	0.041	0.0050	7580854
Total Zirconium (Zr)	mg/L	0.0012	0.0010	7580854
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1Q1149
Report Date: 2021/09/17

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QPU623
Sample ID: HCL 3:00
Matrix: Water

Collected: 2021/09/09
Shipped:
Received: 2021/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7574560	N/A	2021/09/14	Surinder Rai
Anions	IC	7574016	N/A	2021/09/15	Fari Dehdezi
Conductivity	AT	7574572	N/A	2021/09/14	Surinder Rai
Fluoride	ISE	7574549	2021/09/13	2021/09/14	Surinder Rai
Hardness (calculated as CaCO3)		7573183	N/A	2021/09/16	Automated Statchk
Total Metals Analysis by ICPMS	ICP/MS	7580854	N/A	2021/09/16	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7576539	N/A	2021/09/16	Viorica Rotaru
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7574009	N/A	2021/09/14	Chandra Nandlal
pH	AT	7574564	2021/09/13	2021/09/14	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7575307	N/A	2021/09/14	Deonarine Ramnarine
Orthophosphate	KONE	7574899	N/A	2021/09/14	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7576615	2021/09/14	2021/09/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7576362	N/A	2021/09/14	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7578147	2021/09/15	2021/09/15	Shivani Shivani
Total Suspended Solids	BAL	7575685	2021/09/15	2021/09/16	Shaneil Hall



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C
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Sample QPU623 [HCL 3:00] : Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1Q1149
Report Date: 2021/09/17

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7574009	Nitrate (N)	2021/09/14	101	80 - 120	94	80 - 120	<0.10	mg/L	NC	20		
7574009	Nitrite (N)	2021/09/14	110	80 - 120	104	80 - 120	<0.010	mg/L	19	20		
7574016	Dissolved Bromide (Br-)	2021/09/15	100	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7574016	Dissolved Chloride (Cl-)	2021/09/15	95	80 - 120	99	70 - 130	<1.0	mg/L				
7574016	Dissolved Sulphate (SO4)	2021/09/15	97	80 - 120	100	80 - 120	<1.0	mg/L				
7574549	Fluoride (F-)	2021/09/14	102	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
7574560	Alkalinity (Total as CaCO3)	2021/09/14			98	85 - 115	<1.0	mg/L	1.2	20		
7574564	pH	2021/09/14			102	98 - 103			0.62	N/A		
7574572	Conductivity	2021/09/14			103	85 - 115	<1.0	umho/cm	0.77	25		
7574899	Orthophosphate (P)	2021/09/14	113	75 - 125	98	80 - 120	<0.010	mg/L	19	25		
7575307	Phenols-4AAP	2021/09/14	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7575685	Total Suspended Solids	2021/09/16					<10	mg/L	NC	25	98	85 - 115
7576362	Total Organic Carbon (TOC)	2021/09/14	93	80 - 120	95	80 - 120	<0.40	mg/L	1.3	20		
7576539	Total Ammonia-N	2021/09/16	100	75 - 125	99	80 - 120	<0.050	mg/L	5.0	20		
7576615	Total Kjeldahl Nitrogen (TKN)	2021/09/15	107	80 - 120	102	80 - 120	<0.10	mg/L	18	20	101	80 - 120
7578147	Total Phosphorus	2021/09/15	98	80 - 120	100	80 - 120	<0.020	mg/L	11	20	98	80 - 120
7580854	Total Aluminum (Al)	2021/09/16	108	80 - 120	97	80 - 120	<0.0049	mg/L				
7580854	Total Antimony (Sb)	2021/09/16	103	80 - 120	101	80 - 120	<0.00050	mg/L				
7580854	Total Arsenic (As)	2021/09/16	105	80 - 120	102	80 - 120	<0.0010	mg/L				
7580854	Total Barium (Ba)	2021/09/16	97	80 - 120	95	80 - 120	<0.0020	mg/L				
7580854	Total Beryllium (Be)	2021/09/16	101	80 - 120	100	80 - 120	<0.00040	mg/L				
7580854	Total Bismuth (Bi)	2021/09/16	95	80 - 120	95	80 - 120	<0.0010	mg/L				
7580854	Total Boron (B)	2021/09/16	99	80 - 120	99	80 - 120	<0.010	mg/L				
7580854	Total Cadmium (Cd)	2021/09/16	101	80 - 120	99	80 - 120	<0.000090	mg/L				
7580854	Total Calcium (Ca)	2021/09/16	NC	80 - 120	98	80 - 120	<0.20	mg/L				
7580854	Total Chromium (Cr)	2021/09/16	98	80 - 120	96	80 - 120	<0.0050	mg/L				
7580854	Total Cobalt (Co)	2021/09/16	97	80 - 120	95	80 - 120	<0.00050	mg/L				
7580854	Total Copper (Cu)	2021/09/16	100	80 - 120	98	80 - 120	<0.00090	mg/L	4.3	20		
7580854	Total Iron (Fe)	2021/09/16	98	80 - 120	97	80 - 120	<0.10	mg/L				
7580854	Total Lead (Pb)	2021/09/16	95	80 - 120	94	80 - 120	<0.00050	mg/L				



BUREAU
VERITAS

BV Labs Job #: C1Q1149

Report Date: 2021/09/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: HCL

Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7580854	Total Lithium (Li)	2021/09/16	102	80 - 120	101	80 - 120	<0.0050	mg/L				
7580854	Total Magnesium (Mg)	2021/09/16	97	80 - 120	97	80 - 120	<0.050	mg/L				
7580854	Total Manganese (Mn)	2021/09/16	97	80 - 120	96	80 - 120	<0.0020	mg/L				
7580854	Total Molybdenum (Mo)	2021/09/16	102	80 - 120	98	80 - 120	<0.00050	mg/L				
7580854	Total Nickel (Ni)	2021/09/16	96	80 - 120	96	80 - 120	<0.0010	mg/L				
7580854	Total Potassium (K)	2021/09/16	97	80 - 120	95	80 - 120	<0.20	mg/L				
7580854	Total Selenium (Se)	2021/09/16	105	80 - 120	104	80 - 120	<0.0020	mg/L				
7580854	Total Silicon (Si)	2021/09/16	98	80 - 120	98	80 - 120	<0.050	mg/L				
7580854	Total Silver (Ag)	2021/09/16	98	80 - 120	96	80 - 120	<0.000090	mg/L				
7580854	Total Sodium (Na)	2021/09/16	NC	80 - 120	96	80 - 120	<0.10	mg/L				
7580854	Total Strontium (Sr)	2021/09/16	94	80 - 120	95	80 - 120	<0.0010	mg/L				
7580854	Total Tellurium (Te)	2021/09/16	104	80 - 120	103	80 - 120	<0.0010	mg/L				
7580854	Total Thallium (Tl)	2021/09/16	94	80 - 120	94	80 - 120	<0.000050	mg/L				
7580854	Total Tin (Sn)	2021/09/16	100	80 - 120	97	80 - 120	<0.0010	mg/L				
7580854	Total Titanium (Ti)	2021/09/16	97	80 - 120	98	80 - 120	<0.0050	mg/L				
7580854	Total Tungsten (W)	2021/09/16	98	80 - 120	94	80 - 120	<0.0010	mg/L				
7580854	Total Uranium (U)	2021/09/16	96	80 - 120	94	80 - 120	<0.00010	mg/L				
7580854	Total Vanadium (V)	2021/09/16	98	80 - 120	96	80 - 120	<0.00050	mg/L				
7580854	Total Zinc (Zn)	2021/09/16	103	80 - 120	103	80 - 120	<0.0050	mg/L	4.6	20		
7580854	Total Zirconium (Zr)	2021/09/16	103	80 - 120	99	80 - 120	<0.0010	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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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).



BUREAU
VERITAS

BV Labs Job #: C1Q1149
Report Date: 2021/09/17

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

VALIDATION SIGNATURE PAGE

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

A handwritten signature in black ink, appearing to read "B. Newman", written over a horizontal line.

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

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INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	BV Labs Job #:	Bottle Order #:	Barcode: 834487		
Attention: Accounting	Attention:	P.O. #:	Project Name: HCL		COC #:		Project Manager:
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project Name:	Site #:		Barcode: C#634487-25-01		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Site #:	Sampled By:		Jolanta Goralczyk		
Email: kbailey@terrapureenv.com	Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com						

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)		Other Regulations		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required:	
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw							Please provide advance notice for rush projects	
<input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm-Sewer Bylaw							Regular (Standard) TAT: (Will be applied if Rush TAT is not specified)	
<input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC	<input type="checkbox"/> MISA <input type="checkbox"/> Municipality							Standard TAT = 5-7 Working days for most tests.	
<input type="checkbox"/> Table	<input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table							Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
	<input type="checkbox"/> Other							Job Specific Rush TAT (if applies to entire submission)	
Include Criteria on Certificate of Analysis (Y/N)?								Date Required: _____ Time Required: _____	

Sample Barcode Label	Sample Location Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr / VI	List A: GW Monitoring	# of Bottles	Comments
1	HCL 3:00	Sept 9 2021	3:00pm	Water	NA	ER LEACH * Excluding BOD*	6	
2								
3								
4								
5								
6								
7								
8								
9								
10								

10-Sep-21 17:03
Jolanta Goralczyk
C1Q1149
NP4 ENV-1372

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
<i>Don Taylor</i> / Don Taylor	21/09/10	9:50	<i>Don & DIPKA SINGH</i>	20210910	17:03		Time Sensitive	Temperature (°C) on Receipt: 3/3/11	Custody Seal Present: Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
 * 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.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

L8H433067



Your Project #: HCL
Your C.O.C. #: 845501-01-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/09/21
Report #: R6820882
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Q6150

Received: 2021/09/15, 16:00

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	1	N/A	2021/09/20	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/09/20	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/09/20	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/09/18	2021/09/20	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/09/20	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Calcium and Magnesium	1	2021/09/17	2021/09/20	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	1	N/A	2021/09/21	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/09/18	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/09/21	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/09/18	2021/09/20	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/09/17	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/09/17	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/09/17	2021/09/20	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/09/18	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/09/17	2021/09/17	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/09/17	2021/09/20	CAM SOP-00428	SM 23 2540D m

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: HCL
Your C.O.C. #: 845501-01-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/09/21
Report #: R6820882
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Q6150
Received: 2021/09/15, 16:00

Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
21 Sep 2021 17:39:36

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
This report has been generated and distributed using a secure automated process.
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

BV Labs Job #: C1Q6150
Report Date: 2021/09/21

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		QQW402		
Sampling Date		2021/09/14 10:50		
COC Number		845501-01-01		
	UNITS	HCL 10:50	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO ₃)	mg/L	1400	1.0	7581122
Inorganics				
Total Ammonia-N	mg/L	0.17	0.050	7584428
Conductivity	umho/cm	2200	1.0	7586597
Fluoride (F ⁻)	mg/L	0.76	0.10	7586594
Total Kjeldahl Nitrogen (TKN)	mg/L	0.63	0.10	7584508
Total Organic Carbon (TOC)	mg/L	5.0	0.40	7583967
Orthophosphate (P)	mg/L	0.014	0.010	7585090
pH	pH	7.66		7586598
Phenols-4AAP	mg/L	<0.0010	0.0010	7583769
Total Phosphorus	mg/L	0.082	0.020	7584112
Total Suspended Solids	mg/L	34	10	7584070
Alkalinity (Total as CaCO ₃)	mg/L	250	1.0	7586596
Nitrite (N)	mg/L	0.044	0.010	7585887
Dissolved Chloride (Cl ⁻)	mg/L	64	5.0	7586181
Nitrate (N)	mg/L	0.29	0.10	7585887
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	7586181
Dissolved Sulphate (SO ₄)	mg/L	1200	5.0	7586181
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1Q6150
Report Date: 2021/09/21

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QQW402		
Sampling Date		2021/09/14 10:50		
COC Number		845501-01-01		
	UNITS	HCL 10:50	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	330	0.050	7585341
Dissolved Magnesium (Mg)	mg/L	150	0.050	7585341
Total Aluminum (Al)	mg/L	0.66	0.0049	7587532
Total Barium (Ba)	mg/L	0.071	0.0020	7587532
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7587532
Total Boron (B)	mg/L	0.27	0.010	7587532
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7587532
Total Calcium (Ca)	mg/L	330	0.20	7587532
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7587532
Total Cobalt (Co)	mg/L	0.0068	0.00050	7587532
Total Copper (Cu)	mg/L	0.0039	0.00090	7587532
Total Iron (Fe)	mg/L	1.2	0.10	7587532
Total Lead (Pb)	mg/L	0.0040	0.00050	7587532
Total Magnesium (Mg)	mg/L	140	0.050	7587532
Total Manganese (Mn)	mg/L	1.5	0.0020	7587532
Total Molybdenum (Mo)	mg/L	0.011	0.00050	7587532
Total Nickel (Ni)	mg/L	0.022	0.0010	7587532
Total Potassium (K)	mg/L	4.7	0.20	7587532
Total Silicon (Si)	mg/L	7.5	0.050	7587532
Total Sodium (Na)	mg/L	50	0.10	7587532
Total Strontium (Sr)	mg/L	2.2	0.0010	7587532
Total Titanium (Ti)	mg/L	0.017	0.0050	7587532
Total Vanadium (V)	mg/L	0.0039	0.00050	7587532
Total Zinc (Zn)	mg/L	0.024	0.0050	7587532
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1Q6150
Report Date: 2021/09/21

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QQW402
Sample ID: HCL 10:50
Matrix: Water

Collected: 2021/09/14
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7586596	N/A	2021/09/20	Surinder Rai
Anions	IC	7586181	N/A	2021/09/20	Fari Dehdezi
Conductivity	AT	7586597	N/A	2021/09/20	Surinder Rai
Fluoride	ISE	7586594	2021/09/18	2021/09/20	Surinder Rai
Hardness (calculated as CaCO3)		7581122	N/A	2021/09/20	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7585341	2021/09/17	2021/09/20	Meghaben Patel
Total Metals Analysis by ICPMS	ICP/MS	7587532	N/A	2021/09/21	Nan Raykha
Total Ammonia-N	LACH/NH4	7584428	N/A	2021/09/18	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7585887	N/A	2021/09/21	Chandra Nandlal
pH	AT	7586598	2021/09/18	2021/09/20	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7583769	N/A	2021/09/17	Deonarine Ramnarine
Orthophosphate	KONE	7585090	N/A	2021/09/17	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7584508	2021/09/17	2021/09/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7583967	N/A	2021/09/18	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7584112	2021/09/17	2021/09/17	Shivani Shivani
Total Suspended Solids	BAL	7584070	2021/09/17	2021/09/20	Shaneil Hall



BUREAU
VERITAS

BV Labs Job #: C1Q6150
Report Date: 2021/09/21

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.7°C
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Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1Q6150
Report Date: 2021/09/21

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7583769	Phenols-4AAP	2021/09/17	96	80 - 120	100	80 - 120	<0.0010	mg/L	0	20		
7583967	Total Organic Carbon (TOC)	2021/09/18	96	80 - 120	99	80 - 120	<0.40	mg/L	1.0	20		
7584070	Total Suspended Solids	2021/09/20					<10	mg/L	NC	25	98	85 - 115
7584112	Total Phosphorus	2021/09/17	98	80 - 120	98	80 - 120	<0.020	mg/L	6.3	20	98	80 - 120
7584428	Total Ammonia-N	2021/09/18	91	75 - 125	96	80 - 120	<0.050	mg/L	10	20		
7584508	Total Kjeldahl Nitrogen (TKN)	2021/09/20	NC	80 - 120	99	80 - 120	<0.10	mg/L	12	20	98	80 - 120
7585090	Orthophosphate (P)	2021/09/17	114	75 - 125	98	80 - 120	<0.010	mg/L	NC	25		
7585341	Dissolved Calcium (Ca)	2021/09/20	100	80 - 120	102	80 - 120	<0.050	mg/L				
7585341	Dissolved Magnesium (Mg)	2021/09/20	98	80 - 120	101	80 - 120	<0.050	mg/L				
7585887	Nitrate (N)	2021/09/21	100	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
7585887	Nitrite (N)	2021/09/21	105	80 - 120	103	80 - 120	<0.010	mg/L	10	20		
7586181	Dissolved Bromide (Br-)	2021/09/20	101	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7586181	Dissolved Chloride (Cl-)	2021/09/20	99	80 - 120	100	70 - 130	<1.0	mg/L	0.85	20		
7586181	Dissolved Sulphate (SO4)	2021/09/20	102	80 - 120	100	80 - 120	<1.0	mg/L	0.19	20		
7586594	Fluoride (F-)	2021/09/20	99	80 - 120	100	80 - 120	<0.10	mg/L	5.2	20		
7586596	Alkalinity (Total as CaCO3)	2021/09/20			97	85 - 115	<1.0	mg/L	1.0	20		
7586597	Conductivity	2021/09/20			99	85 - 115	<1.0	umho/cm	2.3	25		
7586598	pH	2021/09/20			102	98 - 103			0.38	N/A		
7587532	Total Aluminum (Al)	2021/09/21	96	80 - 120	101	80 - 120	<0.0049	mg/L	NC	20		
7587532	Total Barium (Ba)	2021/09/21	101	80 - 120	100	80 - 120	<0.0020	mg/L	3.1	20		
7587532	Total Beryllium (Be)	2021/09/21	101	80 - 120	104	80 - 120	<0.00040	mg/L	NC	20		
7587532	Total Boron (B)	2021/09/21	NC	80 - 120	101	80 - 120	<0.010	mg/L	20	20		
7587532	Total Cadmium (Cd)	2021/09/21	101	80 - 120	105	80 - 120	<0.000090	mg/L	NC	20		
7587532	Total Calcium (Ca)	2021/09/21	NC	80 - 120	102	80 - 120	<0.20	mg/L	3.1	20		
7587532	Total Chromium (Cr)	2021/09/21	99	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20		
7587532	Total Cobalt (Co)	2021/09/21	98	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20		
7587532	Total Copper (Cu)	2021/09/21	103	80 - 120	106	80 - 120	<0.00090	mg/L	1.4	20		
7587532	Total Iron (Fe)	2021/09/21	100	80 - 120	104	80 - 120	<0.10	mg/L	NC	20		
7587532	Total Lead (Pb)	2021/09/21	96	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
7587532	Total Magnesium (Mg)	2021/09/21	96	80 - 120	103	80 - 120	<0.050	mg/L	2.0	20		



BUREAU
VERITAS

BV Labs Job #: C1Q6150

Report Date: 2021/09/21

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: HCL

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7587532	Total Manganese (Mn)	2021/09/21	97	80 - 120	101	80 - 120	<0.0020	mg/L	7.2	20		
7587532	Total Molybdenum (Mo)	2021/09/21	105	80 - 120	106	80 - 120	<0.00050	mg/L	3.2	20		
7587532	Total Nickel (Ni)	2021/09/21	94	80 - 120	99	80 - 120	<0.0010	mg/L	4.4	20		
7587532	Total Potassium (K)	2021/09/21	99	80 - 120	105	80 - 120	<0.20	mg/L	2.7	20		
7587532	Total Silicon (Si)	2021/09/21	96	80 - 120	100	80 - 120	<0.050	mg/L	3.5	20		
7587532	Total Sodium (Na)	2021/09/21	NC	80 - 120	104	80 - 120	<0.10	mg/L	4.3	20		
7587532	Total Strontium (Sr)	2021/09/21	NC	80 - 120	101	80 - 120	<0.0010	mg/L	2.9	20		
7587532	Total Titanium (Ti)	2021/09/21	95	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
7587532	Total Vanadium (V)	2021/09/21	99	80 - 120	101	80 - 120	<0.00050	mg/L	1.4	20		
7587532	Total Zinc (Zn)	2021/09/21	98	80 - 120	106	80 - 120	<0.0050	mg/L	2.4	20		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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).



BUREAU
VERITAS

BV Labs Job #: C1Q6150

Report Date: 2021/09/21


Terrapure Environmental

Client Project #: HCL

Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

Eva Pranjic


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

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Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5777 www.bvlab.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Attention: Accounting	Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Company Name: Brad Mullin - GHD Reporting	Attention: Brad Mullin - GHD Reporting	Address: _____	Quotation #: B60569	BV Labs Job #: _____
Tel: (905) 561-0305	Fax: (905) 561-1674	Email: kbailey@terrapureenv.com	Tel: _____	Fax: _____	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	P.O. #: _____	Bottle Order #: 845501
						Project Name: HCL	COC #: _____
						Site #: _____	Project Manager: Jolanta Goralczyk
						Sampled By: _____	Barcode: C#845501-01-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects		
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr VI											Regular (Standard) TAT: (will be applied if Rush TAT is not specified)	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw													Standard TAT = 5-7 Working days for most tests.	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw												Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____												Job Specific Rush TAT (if applies to entire submission)		
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table _____												Date Required: _____ Time Required: _____		
Include Criteria on Certificate of Analysis (Y/N)?																Rush Confirmation Number: _____ (call lab for #)		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix													# of Bottles	Comments
	HCL 10:50	21/9/14	10:50	Water	N/A												6	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

15-Sep-21 16:00
Jolanta Goralczyk
C1Q6150
ATM ENV-1211

* RELINQUISHED BY: (Signature/Print) C. Richardson/Cooper Richardson		Date: (YY/MM/DD) 21/9/15	Time 4:30	RECEIVED BY: (Signature/Print) Forest Rose/Forest		Date: (YY/MM/DD) 2011/09/15	Time 16:00	# Jars used and not submitted	Laboratory Use Only			
								Time Sensitive	Temperature (°C) on Receipt 4/2/19	Custody Seal Present	Yes	No
										Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.

* 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.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: SW
Your C.O.C. #: 845501-07-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/09/28
Report #: R6831279
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R2519

Received: 2021/09/21, 16:20

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Dissolved Aluminum (0.2 u, clay free)	1	N/A	2021/09/23	CAM SOP-00447	EPA 6020B m
Dissolved Aluminum (0.2 u, clay free)	4	N/A	2021/09/24	CAM SOP-00447	EPA 6020B m
Alkalinity	5	N/A	2021/09/23	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	5	2021/09/23	2021/09/28	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	4	N/A	2021/09/23	CAM SOP-00463	SM 23 4500-Cl E m
Chloride by Automated Colourimetry	1	N/A	2021/09/24	CAM SOP-00463	SM 23 4500-Cl E m
Dissolved Organic Carbon (DOC) (1)	3	N/A	2021/09/23	CAM SOP-00446	SM 23 5310 B m
Dissolved Organic Carbon (DOC) (1)	2	N/A	2021/09/24	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	1	N/A	2021/09/23	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	4	N/A	2021/09/24	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	5	2021/09/23	2021/09/23	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	4	N/A	2021/09/25	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	N/A	2021/09/27	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/09/24	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	4	N/A	2021/09/25	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	1	N/A	2021/09/23	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (2)	4	N/A	2021/09/24	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	5	2021/09/22	2021/09/23	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	5	N/A	2021/09/23	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	4	N/A	2021/09/23	CAM SOP-00464	EPA 375.4 m
Sulphate by Automated Colourimetry	1	N/A	2021/09/24	CAM SOP-00464	EPA 375.4 m
Total Phosphorus (Colourimetric)	5	2021/09/23	2021/09/24	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	5	2021/09/23	2021/09/24	CAM SOP-00428	SM 23 2540D m

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) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.



Your Project #: SW
Your C.O.C. #: 845501-07-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/09/28
Report #: R6831279
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R2519

Received: 2021/09/21, 16:20

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
28 Sep 2021 16:43:44

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
This report has been generated and distributed using a secure automated process.
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BUREAU
VERITAS

BV Labs Job #: C1R2519
Report Date: 2021/09/28

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		QSF277			QSF278			QSF279		
Sampling Date		2021/09/20			2021/09/20			2021/09/20		
COC Number		845501-07-01			845501-07-01			845501-07-01		
	UNITS	T-1R	RDL	QC Batch	T-3R	RDL	QC Batch	T-3A	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	590	1.0	7591480	400	1.0	7591480	1100	1.0	7591480
Inorganics										
Total Ammonia-N	mg/L	48	0.25	7596376	<0.050	0.050	7595499	1.9	0.050	7596376
Total BOD	mg/L	9	2	7595361	<2	2	7595361	3	2	7595361
Dissolved Organic Carbon	mg/L	20	0.40	7597248	3.2	0.40	7593818	4.0	0.40	7593818
pH	pH	8.07		7593109	8.07		7593109	7.93		7593109
Phenols-4AAP	mg/L	0.12	0.010	7593786	<0.0010	0.0010	7593786	<0.0010	0.0010	7593786
Total Phosphorus	mg/L	0.074	0.004	7595579	0.018	0.004	7595579	0.016	0.004	7595579
Total Suspended Solids	mg/L	12	10	7592865	<10	10	7592865	12	10	7592865
Dissolved Sulphate (SO4)	mg/L	710	5.0	7593056	280	1.0	7593056	830	5.0	7596501
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7593096	170	1.0	7593096	210	1.0	7593096
Dissolved Chloride (Cl-)	mg/L	1400	20	7593075	81	1.0	7593075	410	5.0	7596499
Nitrite (N)	mg/L	0.015	0.010	7593085	<0.010	0.010	7592993	0.365	0.010	7593085
Nitrate (N)	mg/L	<0.10	0.10	7593085	0.15	0.10	7592993	0.52	0.10	7593085
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7593085	0.15	0.10	7592993	0.89	0.10	7593085
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



RESULTS OF ANALYSES OF WATER

BV Labs ID		QSF279			QSF280			QSF281		
Sampling Date		2021/09/20			2021/09/20			2021/09/20		
COC Number		845501-07-01			845501-07-01			845501-07-01		
	UNITS	T-3A Lab-Dup	RDL	QC Batch	T-15R	RDL	QC Batch	T-35	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				470	1.0	7591480	1100	1.0	7591480
Inorganics										
Total Ammonia-N	mg/L				<0.050	0.050	7596376	2.0	0.050	7596376
Total BOD	mg/L				<2	2	7595361	3	2	7595361
Dissolved Organic Carbon	mg/L				2.5	0.40	7597248	4.1	0.40	7593818
pH	pH				8.13		7593109	7.91		7593109
Phenols-4AAP	mg/L				<0.0010	0.0010	7593786	<0.0010	0.0010	7593786
Total Phosphorus	mg/L	0.017	0.004	7595579	0.007	0.004	7595579	0.013	0.004	7595579
Total Suspended Solids	mg/L				<10	10	7592865	<10	10	7592865
Dissolved Sulphate (SO4)	mg/L	810	5.0	7596501	260	1.0	7593560	790	5.0	7593560
Alkalinity (Total as CaCO3)	mg/L				220	1.0	7593096	210	1.0	7593096
Dissolved Chloride (Cl-)	mg/L	410	5.0	7596499	130	1.0	7593554	420	5.0	7593554
Nitrite (N)	mg/L				<0.010	0.010	7593085	0.365	0.010	7594040
Nitrate (N)	mg/L				0.61	0.10	7593085	0.54	0.10	7594040
Nitrate + Nitrite (N)	mg/L				0.61	0.10	7593085	0.90	0.10	7594040
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										

BV Labs ID		QSF281		
Sampling Date		2021/09/20		
COC Number		845501-07-01		
	UNITS	T-35 Lab-Dup	RDL	QC Batch
Inorganics				
Nitrite (N)	mg/L	0.359	0.010	7594040
Nitrate (N)	mg/L	0.54	0.10	7594040
Nitrate + Nitrite (N)	mg/L	0.90	0.10	7594040
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate				



BUREAU
VERITAS

BV Labs Job #: C1R2519
Report Date: 2021/09/28

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QSF277			QSF278		QSF279		
Sampling Date		2021/09/20			2021/09/20		2021/09/20		
COC Number		845501-07-01			845501-07-01		845501-07-01		
	UNITS	T-1R	RDL	QC Batch	T-3R	QC Batch	T-3A	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	9	5	7597057	<5	7593803	<5	5	7597057
Mercury (Hg)	mg/L	<0.00010	0.00010	7595172	<0.00010	7595172	<0.00010	0.00010	7595172
Total Aluminum (Al)	mg/L	0.049	0.0049	7598186	0.093	7598186	0.13	0.0049	7598186
Total Arsenic (As)	mg/L	0.0041	0.0010	7598186	<0.0010	7598186	<0.0010	0.0010	7598186
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7598186	<0.00040	7598186	<0.00040	0.00040	7598186
Total Boron (B)	mg/L	0.38	0.010	7598186	0.21	7598186	0.67	0.010	7598186
Total Cadmium (Cd)	mg/L	0.00030	0.000090	7598186	<0.000090	7598186	<0.000090	0.000090	7598186
Total Calcium (Ca)	mg/L	200	0.20	7598186	120	7598186	340	0.20	7598186
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7598186	<0.0050	7598186	<0.0050	0.0050	7598186
Total Cobalt (Co)	mg/L	0.0015	0.00050	7598186	<0.00050	7598186	<0.00050	0.00050	7598186
Total Copper (Cu)	mg/L	0.0018	0.00090	7598186	0.0033	7598186	0.0023	0.00090	7598186
Total Iron (Fe)	mg/L	0.91	0.10	7598186	0.10	7598186	0.27	0.10	7598186
Total Lead (Pb)	mg/L	0.0025	0.00050	7598186	0.00080	7598186	0.0014	0.00050	7598186
Total Magnesium (Mg)	mg/L	30	0.050	7598186	26	7598186	71	0.050	7598186
Total Manganese (Mn)	mg/L	0.37	0.0020	7598186	0.0031	7598186	0.37	0.0020	7598186
Total Molybdenum (Mo)	mg/L	0.040	0.00050	7598186	0.010	7598186	0.0072	0.00050	7598186
Total Nickel (Ni)	mg/L	0.011	0.0010	7598186	0.0021	7598186	0.0062	0.0010	7598186
Total Selenium (Se)	mg/L	<0.0020	0.0020	7598186	<0.0020	7598186	<0.0020	0.0020	7598186
Total Silver (Ag)	mg/L	<0.000090	0.000090	7598186	<0.000090	7598186	<0.000090	0.000090	7598186
Total Sodium (Na)	mg/L	880	0.50	7598186	77	7598186	260	0.10	7598186
Total Strontium (Sr)	mg/L	3.3	0.0010	7598186	0.79	7598186	3.7	0.0010	7598186
Total Vanadium (V)	mg/L	0.0022	0.00050	7598186	0.0015	7598186	0.00077	0.00050	7598186
Total Zinc (Zn)	mg/L	0.028	0.0050	7598186	0.015	7598186	0.057	0.0050	7598186

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1R2519
Report Date: 2021/09/28

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QSF280	QSF281		
Sampling Date		2021/09/20	2021/09/20		
COC Number		845501-07-01	845501-07-01		
	UNITS	T-15R	T-35	RDL	QC Batch
Metals					
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	<5	5	7597057
Mercury (Hg)	mg/L	<0.00010	<0.00010	0.00010	7595172
Total Aluminum (Al)	mg/L	0.025	0.036	0.0049	7598186
Total Arsenic (As)	mg/L	<0.0010	<0.0010	0.0010	7598186
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	0.00040	7598186
Total Boron (B)	mg/L	0.11	0.63	0.010	7598186
Total Cadmium (Cd)	mg/L	0.00017	<0.000090	0.000090	7598186
Total Calcium (Ca)	mg/L	140	340	0.20	7598186
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	0.0050	7598186
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00050	7598186
Total Copper (Cu)	mg/L	0.0011	0.0013	0.00090	7598186
Total Iron (Fe)	mg/L	<0.10	0.11	0.10	7598186
Total Lead (Pb)	mg/L	<0.00050	0.0012	0.00050	7598186
Total Magnesium (Mg)	mg/L	33	72	0.050	7598186
Total Manganese (Mn)	mg/L	0.081	0.36	0.0020	7598186
Total Molybdenum (Mo)	mg/L	0.0030	0.0070	0.00050	7598186
Total Nickel (Ni)	mg/L	0.0028	0.0052	0.0010	7598186
Total Selenium (Se)	mg/L	<0.0020	<0.0020	0.0020	7598186
Total Silver (Ag)	mg/L	<0.000090	<0.000090	0.000090	7598186
Total Sodium (Na)	mg/L	81	270	0.10	7598186
Total Strontium (Sr)	mg/L	3.2	3.7	0.0010	7598186
Total Vanadium (V)	mg/L	<0.00050	0.00057	0.00050	7598186
Total Zinc (Zn)	mg/L	0.070	0.049	0.0050	7598186
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

BV Labs Job #: C1R2519
Report Date: 2021/09/28

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QSF277
Sample ID: T-1R
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7597057	N/A	2021/09/24	Arefa Dabhad
Alkalinity	AT	7593096	N/A	2021/09/23	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7595361	2021/09/23	2021/09/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7593075	N/A	2021/09/23	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7597248	N/A	2021/09/24	Julianna Castiglione
Hardness (calculated as CaCO3)		7591480	N/A	2021/09/24	Automated Statchk
Mercury in Water by CVAA	CV/AA	7595172	2021/09/23	2021/09/23	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7598186	N/A	2021/09/27	Daniel Teclu
Total Ammonia-N	LACH/NH4	7596376	N/A	2021/09/25	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7593085	N/A	2021/09/24	Chandra Nandlal
pH	AT	7593109	2021/09/22	2021/09/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7593786	N/A	2021/09/23	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7593056	N/A	2021/09/23	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7595579	2021/09/23	2021/09/24	Shivani Shivani
Total Suspended Solids	BAL	7592865	2021/09/23	2021/09/24	Shaneil Hall

BV Labs ID: QSF278
Sample ID: T-3R
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7593803	N/A	2021/09/23	Arefa Dabhad
Alkalinity	AT	7593096	N/A	2021/09/23	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7595361	2021/09/23	2021/09/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7593075	N/A	2021/09/23	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7593818	N/A	2021/09/23	Julianna Castiglione
Hardness (calculated as CaCO3)		7591480	N/A	2021/09/23	Automated Statchk
Mercury in Water by CVAA	CV/AA	7595172	2021/09/23	2021/09/23	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7598186	N/A	2021/09/25	Daniel Teclu
Total Ammonia-N	LACH/NH4	7595499	N/A	2021/09/24	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7592993	N/A	2021/09/24	Chandra Nandlal
pH	AT	7593109	2021/09/22	2021/09/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7593786	N/A	2021/09/23	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7593056	N/A	2021/09/23	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7595579	2021/09/23	2021/09/24	Shivani Shivani
Total Suspended Solids	BAL	7592865	2021/09/23	2021/09/24	Shaneil Hall

BV Labs ID: QSF279
Sample ID: T-3A
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7597057	N/A	2021/09/24	Arefa Dabhad
Alkalinity	AT	7593096	N/A	2021/09/23	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7595361	2021/09/23	2021/09/28	Surleen Kaur Romana



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BV Labs Job #: C1R2519
Report Date: 2021/09/28

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QSF279
Sample ID: T-3A
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7596499	N/A	2021/09/24	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7593818	N/A	2021/09/23	Julianna Castiglione
Hardness (calculated as CaCO3)		7591480	N/A	2021/09/24	Automated Statchk
Mercury in Water by CVAA	CV/AA	7595172	2021/09/23	2021/09/23	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7598186	N/A	2021/09/25	Daniel Teclu
Total Ammonia-N	LACH/NH4	7596376	N/A	2021/09/25	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7593085	N/A	2021/09/24	Chandra Nandlal
pH	AT	7593109	2021/09/22	2021/09/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7593786	N/A	2021/09/23	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7596501	N/A	2021/09/24	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7595579	2021/09/23	2021/09/24	Shivani Shivani
Total Suspended Solids	BAL	7592865	2021/09/23	2021/09/24	Shaneil Hall

BV Labs ID: QSF279 Dup
Sample ID: T-3A
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7596499	N/A	2021/09/24	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	7596501	N/A	2021/09/24	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7595579	2021/09/23	2021/09/24	Shivani Shivani

BV Labs ID: QSF280
Sample ID: T-15R
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7597057	N/A	2021/09/24	Arefa Dabhad
Alkalinity	AT	7593096	N/A	2021/09/23	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7595361	2021/09/23	2021/09/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7593554	N/A	2021/09/23	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7597248	N/A	2021/09/24	Julianna Castiglione
Hardness (calculated as CaCO3)		7591480	N/A	2021/09/24	Automated Statchk
Mercury in Water by CVAA	CV/AA	7595172	2021/09/23	2021/09/23	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7598186	N/A	2021/09/25	Daniel Teclu
Total Ammonia-N	LACH/NH4	7596376	N/A	2021/09/25	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7593085	N/A	2021/09/24	Chandra Nandlal
pH	AT	7593109	2021/09/22	2021/09/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7593786	N/A	2021/09/23	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7593560	N/A	2021/09/23	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7595579	2021/09/23	2021/09/24	Shivani Shivani
Total Suspended Solids	BAL	7592865	2021/09/23	2021/09/24	Shaneil Hall



BUREAU
VERITAS

BV Labs Job #: C1R2519
Report Date: 2021/09/28

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QSF281
Sample ID: T-35
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7597057	N/A	2021/09/24	Arefa Dabhad
Alkalinity	AT	7593096	N/A	2021/09/23	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7595361	2021/09/23	2021/09/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7593554	N/A	2021/09/23	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7593818	N/A	2021/09/23	Julianna Castiglione
Hardness (calculated as CaCO3)		7591480	N/A	2021/09/24	Automated Statchk
Mercury in Water by CVAA	CV/AA	7595172	2021/09/23	2021/09/23	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7598186	N/A	2021/09/25	Daniel Teclu
Total Ammonia-N	LACH/NH4	7596376	N/A	2021/09/25	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7594040	N/A	2021/09/23	Chandra Nandlal
pH	AT	7593109	2021/09/22	2021/09/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7593786	N/A	2021/09/23	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7593560	N/A	2021/09/23	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7595579	2021/09/23	2021/09/24	Shivani Shivani
Total Suspended Solids	BAL	7592865	2021/09/23	2021/09/24	Shaneil Hall

BV Labs ID: QSF281 Dup
Sample ID: T-35
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7594040	N/A	2021/09/23	Chandra Nandlal



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.3°C
Package 2	2.3°C

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1R2519
Report Date: 2021/09/28

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

A handwritten signature in black ink, appearing to read "B. Newman", written over a horizontal line.

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

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.



Your Project #: HCL
Your C.O.C. #: 845501-08-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/09/30
Report #: R6834389
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R4133

Received: 2021/09/22, 16:08

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
30 Sep 2021 14:03:29

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
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RESULTS OF ANALYSES OF WATER

BV Labs ID		QSO264		
Sampling Date		2021/09/21		
COC Number		845501-08-01		
	UNITS	HCL 11:10	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	1900	1.0	7595326
Inorganics				
Total Ammonia-N	mg/L	0.95	0.050	7601149
Conductivity	umho/cm	2800	1.0	7599159
Fluoride (F-)	mg/L	0.79	0.10	7599094
Total Kjeldahl Nitrogen (TKN)	mg/L	1.4	0.10	7598852
Total Organic Carbon (TOC)	mg/L	5.5	0.40	7598945
Orthophosphate (P)	mg/L	<0.010	0.010	7598891
pH	pH	8.02		7599154
Phenols-4AAP	mg/L	0.0025	0.0010	7598101
Total Phosphorus	mg/L	0.19	0.040	7598633
Total Suspended Solids	mg/L	88	10	7597498
Alkalinity (Total as CaCO3)	mg/L	350	1.0	7599158
Nitrite (N)	mg/L	<0.010	0.010	7597015
Dissolved Chloride (Cl-)	mg/L	77	5.0	7597021
Nitrate (N)	mg/L	<0.10	0.10	7597015
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7597021
Dissolved Sulphate (SO4)	mg/L	1600	5.0	7597021
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QSO264		
Sampling Date		2021/09/21		
COC Number		845501-08-01		
	UNITS	HCL 11:10	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	410	0.050	7597394
Dissolved Magnesium (Mg)	mg/L	210	0.050	7597394
Total Aluminum (Al)	mg/L	1.6	0.0049	7602812
Total Barium (Ba)	mg/L	0.098	0.0020	7602812
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7602812
Total Boron (B)	mg/L	0.40	0.010	7602812
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7602812
Total Calcium (Ca)	mg/L	490	0.20	7602812
Total Chromium (Cr)	mg/L	0.0075	0.0050	7602812
Total Cobalt (Co)	mg/L	0.0079	0.00050	7602812
Total Copper (Cu)	mg/L	0.0053	0.00090	7602812
Total Iron (Fe)	mg/L	5.2	0.10	7602812
Total Lead (Pb)	mg/L	0.0080	0.00050	7602812
Total Magnesium (Mg)	mg/L	240	0.050	7602812
Total Manganese (Mn)	mg/L	3.4	0.0020	7602812
Total Molybdenum (Mo)	mg/L	0.014	0.00050	7602812
Total Nickel (Ni)	mg/L	0.029	0.0010	7602812
Total Potassium (K)	mg/L	4.7	0.20	7602812
Total Silicon (Si)	mg/L	12	0.050	7602812
Total Sodium (Na)	mg/L	69	0.10	7602812
Total Strontium (Sr)	mg/L	3.5	0.0010	7602812
Total Titanium (Ti)	mg/L	0.053	0.0050	7602812
Total Vanadium (V)	mg/L	0.0048	0.00050	7602812
Total Zinc (Zn)	mg/L	0.051	0.0050	7602812
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1R4133
Report Date: 2021/09/30

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QSO264
Sample ID: HCL 11:10
Matrix: Water

Collected: 2021/09/21
Shipped:
Received: 2021/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7599158	N/A	2021/09/25	Surinder Rai
Anions	IC	7597021	N/A	2021/09/27	Fari Dehdezi
Conductivity	AT	7599159	N/A	2021/09/25	Surinder Rai
Fluoride	ISE	7599094	2021/09/24	2021/09/25	Surinder Rai
Hardness (calculated as CaCO3)		7595326	N/A	2021/09/27	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7597394	2021/09/23	2021/09/24	Meghaben Patel
Total Metals Analysis by ICPMS	ICP/MS	7602812	N/A	2021/09/28	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7601149	N/A	2021/09/27	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7597015	N/A	2021/09/26	Amanpreet Sappal
pH	AT	7599154	2021/09/24	2021/09/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7598101	N/A	2021/09/24	Deonarine Ramnarine
Orthophosphate	KONE	7598891	N/A	2021/09/24	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7598852	2021/09/24	2021/09/27	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7598945	N/A	2021/09/24	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7598633	2021/09/24	2021/09/27	Shivani Shivani
Total Suspended Solids	BAL	7597498	2021/09/24	2021/09/27	Shaneil Hall



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.3°C
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Sample QSO264 [HCL 11:10] : Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1R4133
Report Date: 2021/09/30

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7602812	Total Manganese (Mn)	2021/09/27	105	80 - 120	104	80 - 120	<0.0020	mg/L				
7602812	Total Molybdenum (Mo)	2021/09/27	103	80 - 120	101	80 - 120	<0.00050	mg/L				
7602812	Total Nickel (Ni)	2021/09/27	104	80 - 120	102	80 - 120	<0.0010	mg/L				
7602812	Total Potassium (K)	2021/09/27	109	80 - 120	105	80 - 120	<0.20	mg/L				
7602812	Total Silicon (Si)	2021/09/27	102	80 - 120	102	80 - 120	<0.050	mg/L				
7602812	Total Sodium (Na)	2021/09/27	NC	80 - 120	106	80 - 120	<0.10	mg/L				
7602812	Total Strontium (Sr)	2021/09/27	104	80 - 120	101	80 - 120	<0.0010	mg/L				
7602812	Total Titanium (Ti)	2021/09/27	105	80 - 120	104	80 - 120	<0.0050	mg/L				
7602812	Total Vanadium (V)	2021/09/27	102	80 - 120	100	80 - 120	<0.00050	mg/L				
7602812	Total Zinc (Zn)	2021/09/27	107	80 - 120	105	80 - 120	<0.0050	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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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).




BUREAU
VERITAS

BV Labs Job #: C1R4133
Report Date: 2021/09/30

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

Eva Pranjic


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

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.



Your Project #: EQ LEACH
Your C.O.C. #: 845501-06-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/10/05
Report #: R6840577
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R2499

Received: 2021/09/21, 16:20

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

05 Oct 2021 12:40:35

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====

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BUREAU
VERITAS

BV Labs Job #: C1R2499
Report Date: 2021/10/05

Terrapure Environmental
Client Project #: EQ LEACH
Sampler Initials: CR

MISA ATG 19 & 20 (ABNS)

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<2.0	2.0	7598992
Acenaphthylene	ug/L	<2.0	2.0	7598992
Anthracene	ug/L	<2.0	2.0	7598992
Benzo(a)anthracene	ug/L	<2.0	2.0	7598992
Benzo(a)pyrene	ug/L	<2.0	2.0	7598992
Benzo(b/j)fluoranthene	ug/L	<2.0	2.0	7598992
Benzo(g,h,i)perylene	ug/L	<2.0	2.0	7598992
Benzo(k)fluoranthene	ug/L	<2.0	2.0	7598992
1-Chloronaphthalene	ug/L	<10	10	7598992
2-Chloronaphthalene	ug/L	<5.0	5.0	7598992
Chrysene	ug/L	<2.0	2.0	7598992
Dibenzo(a,h)anthracene	ug/L	<2.0	2.0	7598992
Fluoranthene	ug/L	<2.0	2.0	7598992
Fluorene	ug/L	<2.0	2.0	7598992
Indeno(1,2,3-cd)pyrene	ug/L	<2.0	2.0	7598992
1-Methylnaphthalene	ug/L	<2.0	2.0	7598992
2-Methylnaphthalene	ug/L	<2.0	2.0	7598992
Naphthalene	ug/L	<16 (1)	16	7598992
5-Nitroacenaphthene	ug/L	<10	10	7598992
Perylene	ug/L	<2.0	2.0	7598992
Phenanthrene	ug/L	<2.0	2.0	7598992
Pyrene	ug/L	<2.0	2.0	7598992
2-Chlorophenol	ug/L	<3.0	3.0	7598992
4-Chloro-3-Methylphenol	ug/L	<50 (1)	50	7598992
m/p-Cresol	ug/L	240	5.0	7598992
o-Cresol	ug/L	26	5.0	7598992
2,4-Dichlorophenol	ug/L	<3.0	3.0	7598992
2,6-Dichlorophenol	ug/L	<5.0	5.0	7598992
2,4-Dimethylphenol	ug/L	58	5.0	7598992
2,4-Dinitrophenol	ug/L	<20	20	7598992
4,6-Dinitro-2-methylphenol	ug/L	<20	20	7598992
4-Nitrophenol	ug/L	<14	14	7598992
Pentachlorophenol	ug/L	<10	10	7598992
Phenol	ug/L	240	5.0	7598992
2,3,4,5-Tetrachlorophenol	ug/L	<4.0	4.0	7598992
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection limit was raised due to matrix interference.				



MISA ATG 19 & 20 (ABNS)

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
2,3,4,6-Tetrachlorophenol	ug/L	<5.0	5.0	7598992
2,3,5,6-Tetrachlorophenol	ug/L	<5.0	5.0	7598992
2,3,4-Trichlorophenol	ug/L	<5.0	5.0	7598992
2,3,5-Trichlorophenol	ug/L	<5.0	5.0	7598992
2,4,5-Trichlorophenol	ug/L	<5.0	5.0	7598992
2,4,6-Trichlorophenol	ug/L	<5.0	5.0	7598992
Benzyl butyl phthalate	ug/L	<5.0	5.0	7598992
Biphenyl	ug/L	<5.0	5.0	7598992
Bis(2-chloroethyl)ether	ug/L	<5.0	5.0	7598992
Bis(2-chloroethoxy)methane	ug/L	<5.0	5.0	7598992
Bis(2-chloroisopropyl)ether	ug/L	<5.0	5.0	7598992
Bis(2-ethylhexyl)phthalate	ug/L	<20	20	7598992
4-Bromophenyl phenyl ether	ug/L	<3.0	3.0	7598992
Camphene	ug/L	<10	10	7598992
4-Chlorophenyl phenyl ether	ug/L	<5.0	5.0	7598992
Di-N-butyl phthalate	ug/L	<20	20	7598992
di-n-octyl phthalate	ug/L	<8.0	8.0	7598992
2,4-Dinitrotoluene	ug/L	<5.0	5.0	7598992
2,6-Dinitrotoluene	ug/L	<5.0	5.0	7598992
Diphenyl Ether	ug/L	<5.0 (1)	5.0	7598992
Indole	ug/L	<13 (1)	13	7598992
Nitrosodiphenylamine/Diphenylamine	ug/L	<10	10	7598992
N-Nitroso-di-n-propylamine	ug/L	<5.0	5.0	7598992
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	95		7598992
2-Fluorobiphenyl	%	57		7598992
2-Fluorophenol	%	43		7598992
D14-Terphenyl	%	100		7598992
D5-Nitrobenzene	%	67		7598992
D5-Phenol	%	31		7598992
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection limit was raised due to matrix interference.				



MISA ATG23 NEUTRAL CHLORINATED COMPOUNDS (WATER)

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
Pesticides & Herbicides				
1,2,3,4-Tetrachlorobenzene	ug/L	<0.010	0.010	7592276
1,2,3,5-Tetrachlorobenzene	ug/L	<0.010	0.010	7592276
1,2,3-Trichlorobenzene	ug/L	<0.010	0.010	7592276
1,2,4,5-Tetrachlorobenzene	ug/L	<0.010	0.010	7592276
1,2,4-Trichlorobenzene	ug/L	<0.010	0.010	7592276
2,4,5-Trichlorotoluene	ug/L	<0.010	0.010	7592276
Hexachlorobenzene	ug/L	<0.0050	0.0050	7592276
Hexachlorobutadiene	ug/L	<0.0090	0.0090	7592276
Hexachlorocyclopentadiene	ug/L	<0.025	0.025	7592276
Hexachloroethane	ug/L	<0.010	0.010	7592276
Octachlorostyrene	ug/L	<0.0050	0.0050	7592276
Pentachlorobenzene	ug/L	<0.0050	0.0050	7592276
Surrogate Recovery (%)				
1,3,5-Tribromobenzene	%	51		7592276
2,4,5,6-Tetrachloro-m-xylene	%	57		7592276
Decachlorobiphenyl	%	88		7592276
Hexabromobenzene	%	86		7592276
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG 16-18 VOLATILE ORGANICS (WATER)

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	4800	500	7593788
Benzene	ug/L	12	5.0	7593788
Bromodichloromethane	ug/L	<5.0	5.0	7593788
Acrolein	ug/L	<500	500	7595480
Bromoform	ug/L	<10	10	7593788
Bromomethane	ug/L	<25	25	7593788
Carbon Tetrachloride	ug/L	<5.0	5.0	7593788
Chlorobenzene	ug/L	<5.0	5.0	7593788
Chloroform	ug/L	<5.0	5.0	7593788
Acrylonitrile	ug/L	<250	250	7595480
Chloromethane	ug/L	<25	25	7593788
Dibromochloromethane	ug/L	<10	10	7593788
1,2-Dichlorobenzene	ug/L	<10	10	7593788
1,3-Dichlorobenzene	ug/L	<10	10	7593788
1,4-Dichlorobenzene	ug/L	<10	10	7593788
1,1-Dichloroethane	ug/L	<5.0	5.0	7593788
1,2-Dichloroethane	ug/L	<10	10	7593788
1,1-Dichloroethylene	ug/L	<5.0	5.0	7593788
cis-1,2-Dichloroethylene	ug/L	<5.0	5.0	7593788
trans-1,2-Dichloroethylene	ug/L	<5.0	5.0	7593788
1,2-Dichloropropane	ug/L	<5.0	5.0	7593788
cis-1,3-Dichloropropene	ug/L	<10	10	7593788
trans-1,3-Dichloropropene	ug/L	<10	10	7593788
Ethylbenzene	ug/L	26	5.0	7593788
Ethylene Dibromide	ug/L	<10	10	7593788
Methylene Chloride(Dichloromethane)	ug/L	<25	25	7593788
Methyl Ethyl Ketone (2-Butanone)	ug/L	1700	250	7593788
Methyl Isobutyl Ketone	ug/L	370	250	7593788
Methyl t-butyl ether (MTBE)	ug/L	20	10	7593788
Styrene	ug/L	<10	10	7593788
1,1,1,2-Tetrachloroethane	ug/L	<10	10	7593788
1,1,2,2-Tetrachloroethane	ug/L	<10	10	7593788
Tetrachloroethylene	ug/L	<5.0	5.0	7593788
Toluene	ug/L	190	10	7593788
1,1,1-Trichloroethane	ug/L	<5.0	5.0	7593788
1,1,2-Trichloroethane	ug/L	<10	10	7593788
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1R2499
Report Date: 2021/10/05

Terrapure Environmental
Client Project #: EQ LEACH
Sampler Initials: CR

MISA ATG 16-18 VOLATILE ORGANICS (WATER)

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
Trichloroethylene	ug/L	<5.0	5.0	7593788
Trichlorofluoromethane (FREON 11)	ug/L	<10	10	7593788
Vinyl Chloride	ug/L	<10	10	7593788
p+m-Xylene	ug/L	40	5.0	7593788
o-Xylene	ug/L	20	5.0	7593788
Total Xylenes	ug/L	61	5.0	7593788
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	103		7593788
D4-1,2-Dichloroethane	%	106		7593788
D8-Toluene	%	99		7593788
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



RESULTS OF ANALYSES OF WATER

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	400	1.0	7591480
Inorganics				
Total Ammonia-N	mg/L	230	0.50	7595509
Total BOD	mg/L	400	2	7595362
Conductivity	umho/cm	15000	1.0	7593230
Fluoride (F-)	mg/L	3.7	0.10	7593225
Total Kjeldahl Nitrogen (TKN)	mg/L	350	20	7595505
Total Organic Carbon (TOC)	mg/L	490	4.0	7595483
Orthophosphate (P)	mg/L	1.5	0.20	7593563
pH	pH	8.26		7593242
Phenols-4AAP	mg/L	1.1	0.050	7593786
Total Phosphorus	mg/L	4.8	0.40	7595556
Total Suspended Solids	mg/L	14	10	7592882
Alkalinity (Total as CaCO3)	mg/L	3000	5.0	7593224
Nitrite (N)	mg/L	<0.050	0.050	7593085
Dissolved Chloride (Cl-)	mg/L	3100	20	7593249
Nitrate (N)	mg/L	<0.50	0.50	7593085
Dissolved Bromide (Br-)	mg/L	81	10	7593249
Dissolved Sulphate (SO4)	mg/L	120	10	7593249
Petroleum Hydrocarbons				
Animal/Vegetable Oil and Grease	mg/L	57	1	7606566
Mineral Oil and Grease	mg/L	13	1	7606566
Oil & Grease	mg/L	69	1	7606566
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	47	0.50	7593954
Dissolved Magnesium (Mg)	mg/L	68	0.50	7593954
Total Aluminum (Al)	mg/L	0.044	0.025	7598186
Total Barium (Ba)	mg/L	0.23	0.010	7598186
Total Beryllium (Be)	mg/L	<0.0020	0.0020	7598186
Total Boron (B)	mg/L	3.5	0.050	7598186
Total Cadmium (Cd)	mg/L	<0.00045	0.00045	7598186
Total Calcium (Ca)	mg/L	43	1.0	7598186
Total Chromium (Cr)	mg/L	<0.025	0.025	7598186
Total Cobalt (Co)	mg/L	0.0047	0.0025	7598186
Total Copper (Cu)	mg/L	<0.0045	0.0045	7598186
Total Iron (Fe)	mg/L	0.58	0.50	7598186
Total Lead (Pb)	mg/L	0.0050	0.0025	7598186
Total Magnesium (Mg)	mg/L	65	0.25	7598186
Total Manganese (Mn)	mg/L	0.14	0.010	7598186
Total Molybdenum (Mo)	mg/L	0.31	0.0025	7598186
Total Nickel (Ni)	mg/L	0.17	0.0050	7598186
Total Potassium (K)	mg/L	1400	2.0	7598186
Total Silicon (Si)	mg/L	15	0.25	7598186
Total Sodium (Na)	mg/L	2100	0.50	7598186
Total Strontium (Sr)	mg/L	6.2	0.0050	7598186
Total Titanium (Ti)	mg/L	0.041	0.025	7598186
Total Vanadium (V)	mg/L	0.083	0.0025	7598186
Total Zinc (Zn)	mg/L	<0.025	0.025	7598186
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
PCBs				
Aroclor 1016	ug/L	<3	3	7595293
Aroclor 1221	ug/L	<3	3	7595293
Aroclor 1232	ug/L	<3	3	7595293
Aroclor 1242	ug/L	<3	3	7595293
Aroclor 1248	ug/L	<3	3	7595293
Aroclor 1254	ug/L	<3	3	7595293
Aroclor 1260	ug/L	<3	3	7595293
Aroclor 1262	ug/L	<3	3	7595293
Aroclor 1268	ug/L	<3	3	7595293
Total PCB	ug/L	<3	3	7595293
Surrogate Recovery (%)				
Decachlorobiphenyl	%	79		7595293
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



RESIN AND FATTY ACIDS BY GC-MS (WATER)

BV Labs ID		QSF200		
Sampling Date		2021/09/20		
COC Number		845501-06-01		
	UNITS	EQ LEACH	RDL	QC Batch
Fatty Acids				
9,10-Dichlorostearic acid	ug/L	<9.1 (1)	9.1	7618759
Linoleic acid (C18:2)	ug/L	<3.0	3.0	7618759
Linolenic acid (C18:3)	ug/L	<3.0	3.0	7618759
Oleic acid (C18:1)	ug/L	<3.5 (1)	3.5	7618759
Resin Acids				
12,14-Dichlorodehydroabiatic acid	ug/L	<3.0	3.0	7618759
12-Chlorodehydroabiatic acid	ug/L	<3.0	3.0	7618759
14-Chlorodehydroabiatic acid	ug/L	<3.0	3.0	7618759
Abietic acid	ug/L	<5.0	5.0	7618759
Dehydroabiatic acid	ug/L	93	5.0	7618759
Isopimaric acid	ug/L	<3.0	3.0	7618759
Neoabiatic acid	ug/L	<3.0	3.0	7618759
Palustric acid	ug/L	<3.0	3.0	7618759
Pimaric acid	ug/L	3.4	3.0	7618759
Sandaracopimaric acid	ug/L	<3.0	3.0	7618759
Resin and Fatty Acids				
Levopimaric acid	ug/L	<3.0	3.0	7618759
Palmitic acid	ug/L	45	30	7618759
Palmitoleic acid	ug/L	<3.0	3.0	7618759
Stearic acid	ug/L	<250 (1)	250	7618759
Total Resin and Fatty Acids (RRPPM)	ug/L	<250	250	7618759
Surrogate Recovery (%)				
o-Methylpodocarpic Acid (sur.)	%	65		7618759
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection limit raised due to matrix interference.				



BUREAU
VERITAS

BV Labs Job #: C1R2499
Report Date: 2021/10/05

Terrapure Environmental
Client Project #: EQ LEACH
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QSF200
Sample ID: EQ LEACH
Matrix: Water

Collected: 2021/09/20
Shipped:
Received: 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7598992	2021/09/24	2021/09/26	Anh Lieu
Alkalinity	AT	7593224	N/A	2021/09/23	Surinder Rai
Anions	IC	7593249	N/A	2021/09/24	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7595362	2021/09/23	2021/09/28	Surleen Kaur Romana
Conductivity	AT	7593230	N/A	2021/09/23	Surinder Rai
Fluoride	ISE	7593225	2021/09/22	2021/09/23	Surinder Rai
Hardness (calculated as CaCO ₃)		7591480	N/A	2021/09/23	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7593954	2021/09/22	2021/09/23	Meghaben Patel
Total Metals Analysis by ICPMS	ICP/MS	7598186	N/A	2021/09/27	Daniel Teclu
Resin and Fatty Acids	GC/MS	7618759	2021/09/27	2021/09/29	Amelie Houle
Neutral Chlorinated in Water by GC/ECD	GC/ECD	7592276	2021/09/22	2021/09/23	Mahmudul Khan
Total Ammonia-N	LACH/NH ₄	7595509	N/A	2021/09/23	Viorica Rotaru
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	7593085	N/A	2021/09/24	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	7595293	2021/09/23	2021/09/24	Farag Mansour
pH	AT	7593242	2021/09/22	2021/09/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7593786	N/A	2021/09/23	Deonarine Ramnarine
Orthophosphate	KONE	7593563	N/A	2021/09/22	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7595505	2021/09/23	2021/09/23	Massarat Jan
Tot./Min./ Animal & Veg. Oil and Grease	/BAL	7606566	2021/09/28	2021/09/29	Saumya Modh
Total Organic Carbon (TOC)	TOCV/NDIR	7595483	N/A	2021/09/23	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7595556	2021/09/23	2021/09/24	Shivani Shivani
Total Suspended Solids	BAL	7592882	2021/09/23	2021/09/24	Shaneil Hall
Volatile Organic Compounds in Water	P&T/MS	7593788	N/A	2021/09/24	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7595480	N/A	2021/09/24	Gladys Guerrero



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.3°C
Package 2	2.3°C

Sample QSF200 [EQ LEACH] : Metals: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

VOC-TR-X analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

PCB Analysis: Due to the nature of the sample matrix, a smaller portion of the sample was extracted. DLs were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1R2499
Report Date: 2021/10/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH
Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7598992	Biphenyl	2021/09/26	72	30 - 130	88	30 - 130	<0.50	ug/L	NC	40		
7598992	Bis(2-chloroethoxy)methane	2021/09/26	57	30 - 130	66	30 - 130	<0.50	ug/L	NC	40		
7598992	Bis(2-chloroethyl)ether	2021/09/26	64	30 - 130	74	30 - 130	<0.50	ug/L	NC	40		
7598992	Bis(2-chloroisopropyl)ether	2021/09/26	58	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		
7598992	Bis(2-ethylhexyl)phthalate	2021/09/26	95	30 - 130	104	30 - 130	<2.0	ug/L	NC	40		
7598992	Camphene	2021/09/26	54	30 - 130	83	30 - 130	<1.0	ug/L	NC	40		
7598992	Chrysene	2021/09/26	110	30 - 130	118	30 - 130	<0.20	ug/L	NC	40		
7598992	Dibenzo(a,h)anthracene	2021/09/26	111	30 - 130	112	30 - 130	<0.20	ug/L	NC	40		
7598992	Di-N-butyl phthalate	2021/09/26	93	30 - 130	104	30 - 130	<2.0	ug/L	NC	40		
7598992	di-n-octyl phthalate	2021/09/26	105	30 - 130	107	30 - 130	<0.80	ug/L	NC	40		
7598992	Diphenyl Ether	2021/09/26	71	30 - 130	85	30 - 130	<0.30	ug/L	NC	40		
7598992	Fluoranthene	2021/09/26	102	30 - 130	107	30 - 130	<0.20	ug/L	NC	40		
7598992	Fluorene	2021/09/26	88	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7598992	Indeno(1,2,3-cd)pyrene	2021/09/26	107	30 - 130	110	30 - 130	<0.20	ug/L	NC	40		
7598992	Indole	2021/09/26	51	30 - 130	72	30 - 130	<1.0	ug/L	NC	40		
7598992	m/p-Cresol	2021/09/25	47	10 - 130	59	10 - 130	<0.50	ug/L				
7598992	Naphthalene	2021/09/26	56	30 - 130	68	30 - 130	<0.20	ug/L	NC	40		
7598992	Nitrosodiphenylamine/Diphenylamine	2021/09/26	101	30 - 130	111	30 - 130	<1.0	ug/L	NC	40		
7598992	N-Nitroso-di-n-propylamine	2021/09/26	79	30 - 130	91	30 - 130	<0.50	ug/L	NC	40		
7598992	o-Cresol	2021/09/25	45	10 - 130	60	10 - 130	<0.50	ug/L				
7598992	Pentachlorophenol	2021/09/25	84	10 - 130	77	10 - 130	<1.0	ug/L				
7598992	Perylene	2021/09/26	101	30 - 130	109	30 - 130	<0.20	ug/L	NC	40		
7598992	Phenanthrene	2021/09/26	95	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7598992	Phenol	2021/09/25	27	10 - 130	28	10 - 130	<0.50	ug/L				
7598992	Pyrene	2021/09/26	104	30 - 130	114	30 - 130	<0.20	ug/L	NC	40		
7606566	Animal/Vegetable Oil and Grease	2021/09/29			100	75 - 125	<1	mg/L	3.4	25		
7606566	Mineral Oil and Grease	2021/09/29			92	75 - 125	<1	mg/L	1.8	25		
7606566	Oil & Grease	2021/09/29			96	85 - 115	<1	mg/L	2.6	25		
7618759	12,14-Dichlorodehydroabiatic acid	2021/09/28			98	60 - 130	<3.0	ug/L				
7618759	12-Chlorodehydroabiatic acid	2021/09/28			108	60 - 130	<3.0	ug/L				
7618759	14-Chlorodehydroabiatic acid	2021/09/28			110	60 - 130	<3.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C1R2499
Report Date: 2021/10/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH
Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7618759	9,10-Dichlorostearic acid	2021/09/28			101	60 - 130	<3.0	ug/L				
7618759	Abietic acid	2021/09/28			157 (1)	60 - 130	<5.0	ug/L				
7618759	Dehydroabietic acid	2021/09/28			112	60 - 130	<5.0	ug/L				
7618759	Isopimaric acid	2021/09/28			109	60 - 130	<3.0	ug/L				
7618759	Levopimaric acid	2021/09/28			60	60 - 130	<3.0	ug/L				
7618759	Linoleic acid (C18:2)	2021/09/28			85	60 - 130	<3.0	ug/L				
7618759	Linolenic acid (C18:3)	2021/09/28			93	60 - 130	<3.0	ug/L				
7618759	Neoabietic acid	2021/09/28			90	60 - 130	<3.0	ug/L				
7618759	Oleic acid (C18:1)	2021/09/28			94	60 - 130	<3.0	ug/L				
7618759	Palmitic acid	2021/09/28			144 (1)	60 - 130	<30	ug/L				
7618759	Palmitoleic acid	2021/09/28			99	60 - 130	<3.0	ug/L				
7618759	Palustric acid	2021/09/28			88	60 - 130	<3.0	ug/L				
7618759	Pimaric acid	2021/09/28			97	60 - 130	<3.0	ug/L				
7618759	Sandaracopimaric acid	2021/09/28			94	60 - 130	<3.0	ug/L				
7618759	Stearic acid	2021/09/28			141 (1)	60 - 130	<30	ug/L				
7618759	Total Resin and Fatty Acids (RRPPM)	2021/09/28					<30	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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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



BUREAU
VERITAS

BV Labs Job #: C1R2499
Report Date: 2021/10/05

Terrapure Environmental
Client Project #: EQ LEACH
Sampler Initials: CR

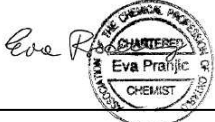
VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist



Caroline Bougie, B.Sc. Chemist



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

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
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

21-Sep-21 16:20

Jolanta Goralczyk
C1R2499

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		Bottle Order #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Barcode 845501	
Address: 65 Green Mountain Rd West		Address:		Project: EQ LEACH		Project Manager:	
Stoney Creek ON L8J 1X5				Project Name: EQ LEACH		Jolanta Goralczyk	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		Barcode C#845501-06-01	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____			Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____			Special Instructions 		
Include Criteria on Certificate of Analysis (Y/N)? _____			Field Filtered (please circle): Metals <input checked="" type="checkbox"/> Cr-VI EQ Leachate MISA Scan - List "C"			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.		
			Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)					

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle)	EQ Leachate MISA Scan - List "C"	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	# of Bottles	Comments
1	EQ LEACH	21/9/20	PM	Water	<input checked="" type="checkbox"/> N/A	X		17	
2									
3									
4									
5									
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		Laboratory Use Only							
C. Richardson/ Cooper Richardson		21/9/21		10:10am		[Signature]		20/09/21		16:20				Time Sensitive		Temperature (°C) on Receipt		Custody Seal Present		Yes/No	
														8/9/21		Intact		Yes/No			

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.

* 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.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client
015/2



Your Project #: SW
 Your C.O.C. #: 848637-03-01, 848637-01-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON
 CANADA L8J 1X5

Report Date: 2021/10/14
 Report #: R6853036
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1T0256

Received: 2021/10/06, 15:10

Sample Matrix: Water
 # Samples Received: 13

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Dissolved Aluminum (0.2 u, clay free)	13	N/A	2021/10/12	CAM SOP-00447	EPA 6020B m
Alkalinity	13	N/A	2021/10/09	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	13	2021/10/08	2021/10/13	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	13	N/A	2021/10/08	CAM SOP-00463	SM 23 4500-Cl E m
Dissolved Organic Carbon (DOC) (1)	11	N/A	2021/10/12	CAM SOP-00446	SM 23 5310 B m
Dissolved Organic Carbon (DOC) (1)	2	N/A	2021/10/13	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	13	N/A	2021/10/14	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	13	2021/10/08	2021/10/08	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	13	N/A	2021/10/14	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	13	N/A	2021/10/13	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	13	N/A	2021/10/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	13	2021/10/07	2021/10/09	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	12	N/A	2021/10/07	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/10/08	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	13	N/A	2021/10/08	CAM SOP-00464	EPA 375.4 m
Total Kjeldahl Nitrogen in Water	1	2021/10/08	2021/10/13	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/10/13	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	13	2021/10/12	2021/10/13	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	13	2021/10/08	2021/10/12	CAM SOP-00428	SM 23 2540D m

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) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
- (2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: SW
Your C.O.C. #: 848637-03-01, 848637-01-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/10/14
Report #: R6853036
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1T0256

Received: 2021/10/06, 15:10

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
14 Oct 2021 15:58:19

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
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BUREAU
VERITAS

BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QWB602			QWB602			QWB603		
Sampling Date		2021/10/05			2021/10/05			2021/10/05		
COC Number		848637-03-01			848637-03-01			848637-03-01		
	UNITS	TS-1	RDL	QC Batch	TS-1 Lab-Dup	RDL	QC Batch	T-13	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	340	1.0	7621148				290	1.0	7621148
Inorganics										
Total Ammonia-N	mg/L	0.18	0.050	7631347				<0.050	0.050	7631405
Total BOD	mg/L	4	2	7626201				<2	2	7626201
Total Kjeldahl Nitrogen (TKN)	mg/L	0.91	0.10	7628313						
Dissolved Organic Carbon	mg/L	8.6	0.40	7628532				4.4	0.40	7628532
Total Organic Carbon (TOC)	mg/L	9.8	0.40	7628312						
pH	pH	7.73		7625724	7.82		7625724	8.28		7625724
Phenols-4AAP	mg/L	<0.0010	0.0010	7624698				<0.0010	0.0010	7624698
Total Phosphorus	mg/L	0.58	0.02	7630740				0.074	0.004	7630740
Total Suspended Solids	mg/L	10	10	7625561				11	10	7625561
Dissolved Sulphate (SO ₄)	mg/L	280	2.0	7625940				130	1.0	7625940
Alkalinity (Total as CaCO ₃)	mg/L	120	1.0	7625705	120	1.0	7625705	170	1.0	7625705
Dissolved Chloride (Cl ⁻)	mg/L	44	1.0	7625935				110	1.0	7625935
Nitrite (N)	mg/L	0.060	0.010	7625780				0.018	0.010	7625780
Nitrate (N)	mg/L	0.36	0.10	7625780				1.33	0.10	7625780
Nitrate + Nitrite (N)	mg/L	0.42	0.10	7625780				1.35	0.10	7625780
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

BV Labs ID		QWB604			QWB605		QWB606		
Sampling Date		2021/10/05			2021/10/05		2021/10/05		
COC Number		848637-03-01			848637-03-01		848637-03-01		
	UNITS	T-29	RDL	QC Batch	T-3R	RDL	T-31	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	320	1.0	7621148	380	1.0	320	1.0	7621148
Inorganics									
Total Ammonia-N	mg/L	<0.050	0.050	7631405	<0.050	0.050	0.11	0.050	7631347
Total BOD	mg/L	<2	2	7626201	<2	2	<2	2	7626201
Dissolved Organic Carbon	mg/L	4.9	0.40	7628532	6.5	0.40	5.0	0.40	7628532
pH	pH	8.18		7625724	7.92		8.26		7625724
Phenols-4AAP	mg/L	<0.0010	0.0010	7624698	<0.0010	0.0010	<0.0010	0.0010	7624698
Total Phosphorus	mg/L	0.082	0.004	7630740	0.25	0.02	0.091	0.004	7630740
Total Suspended Solids	mg/L	30	10	7625561	10	10	16	10	7625561
Dissolved Sulphate (SO4)	mg/L	140	1.0	7625940	320	2.0	140	1.0	7625940
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7625705	120	1.0	180	1.0	7625705
Dissolved Chloride (Cl-)	mg/L	110	1.0	7625935	49	1.0	140	1.0	7625935
Nitrite (N)	mg/L	0.029	0.010	7625780	0.014	0.010	0.040	0.010	7625780
Nitrate (N)	mg/L	1.27	0.10	7625780	0.63	0.10	1.28	0.10	7625780
Nitrate + Nitrite (N)	mg/L	1.30	0.10	7625780	0.64	0.10	1.32	0.10	7625780
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QWB607		QWB608		QWB609			QWB609		
Sampling Date		2021/10/05		2021/10/05		2021/10/05			2021/10/05		
COC Number		848637-03-01		848637-03-01		848637-03-01			848637-03-01		
	UNITS	T-1R	RDL	T-32	RDL	T-35	RDL	QC Batch	T-35 Lab-Dup	RDL	QC Batch

Calculated Parameters											
Hardness (CaCO3)	mg/L	710	1.0	320	1.0	690	1.0	7621148			
Inorganics											
Total Ammonia-N	mg/L	25	0.050	0.060	0.050	29	0.050	7631347	29	0.050	7631347
Total BOD	mg/L	6	2	<2	2	8	2	7626201			
Dissolved Organic Carbon	mg/L	10	0.40	5.1	0.40	11	0.40	7628532			
pH	pH	7.98		8.28		7.91		7625724			
Phenols-4AAP	mg/L	0.048	0.0010	<0.0010	0.0010	0.048	0.0010	7624698			
Total Phosphorus	mg/L	0.024	0.004	0.10	0.02	0.024	0.004	7630740			
Total Suspended Solids	mg/L	<10	10	17	10	<10	10	7625561			
Dissolved Sulphate (SO4)	mg/L	550	5.0	150	1.0	520	5.0	7625940			
Alkalinity (Total as CaCO3)	mg/L	240	1.0	190	1.0	240	1.0	7625705			
Dissolved Chloride (Cl-)	mg/L	830	10	130	1.0	760	10	7625935			
Nitrite (N)	mg/L	0.117	0.010	0.030	0.010	0.159	0.010	7625780			
Nitrate (N)	mg/L	0.60	0.10	1.33	0.10	0.92	0.10	7625780			
Nitrate + Nitrite (N)	mg/L	0.72	0.10	1.36	0.10	1.08	0.10	7625780			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



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VERITAS

BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QWB610			QWB611			QWB615		
Sampling Date		2021/10/05			2021/10/05			2021/10/04		
COC Number		848637-03-01			848637-03-01			848637-01-01		
	UNITS	T-15R	RDL	QC Batch	T-12	RDL	QC Batch	T-16	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO ₃)	mg/L	320	1.0	7621148	320	1.0	7621148	350	1.0	7621148
Inorganics										
Total Ammonia-N	mg/L	0.052	0.050	7631347	<0.050	0.050	7631347	<0.050	0.050	7631347
Total BOD	mg/L	<2	2	7626201	<2	2	7626201	<2	2	7626201
Dissolved Organic Carbon	mg/L	4.8	0.40	7628532	1.8	0.40	7628508	4.4	0.40	7628532
pH	pH	8.01		7625724	8.29		7625724	8.34		7625724
Phenols-4AAP	mg/L	<0.0010	0.0010	7624698	<0.0010	0.0010	7624698	<0.0010	0.0010	7624698
Total Phosphorus	mg/L	0.10	0.02	7630740	0.081	0.004	7630740	0.098	0.004	7630740
Total Suspended Solids	mg/L	16	10	7625561	11	10	7625561	<10	10	7625561
Dissolved Sulphate (SO ₄)	mg/L	210	1.0	7625940	140	1.0	7625940	150	1.0	7625940
Alkalinity (Total as CaCO ₃)	mg/L	140	1.0	7625705	190	1.0	7625705	210	1.0	7625705
Dissolved Chloride (Cl ⁻)	mg/L	61	1.0	7625935	110	1.0	7625935	150	2.0	7625935
Nitrite (N)	mg/L	0.014	0.010	7625780	0.020	0.010	7625780	0.014	0.010	7625780
Nitrate (N)	mg/L	0.39	0.10	7625780	1.22	0.10	7625780	2.57	0.10	7625780
Nitrate + Nitrite (N)	mg/L	0.41	0.10	7625780	1.24	0.10	7625780	2.59	0.10	7625780

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QWB616				QWB617				QWB617	
Sampling Date		2021/10/04				2021/10/04				2021/10/04	
COC Number		848637-01-01				848637-01-01				848637-01-01	
	UNITS	T-30	RDL	QC Batch	T-3A	RDL	QC Batch	T-3A Lab-Dup	RDL	QC Batch	
Calculated Parameters											
Hardness (CaCO ₃)	mg/L	320	1.0	7621148	920	1.0	7621148				
Inorganics											
Total Ammonia-N	mg/L	0.066	0.050	7631347	2.1	0.050	7631347				
Total BOD	mg/L	<2	2	7626201	4	2	7626202	3	2	7626202	
Dissolved Organic Carbon	mg/L	4.9	0.40	7628537	4.0	0.40	7628508				
pH	pH	8.16		7625724	8.11		7625724				
Phenols-4AAP	mg/L	<0.0010	0.0010	7624698	<0.0010	0.0010	7624698				
Total Phosphorus	mg/L	0.084	0.004	7630740	0.023	0.004	7630740				
Total Suspended Solids	mg/L	<10	10	7625561	<10	10	7625561	<10	10	7625561	
Dissolved Sulphate (SO ₄)	mg/L	140	1.0	7625940	670	5.0	7625940				
Alkalinity (Total as CaCO ₃)	mg/L	190	1.0	7625705	200	1.0	7625705				
Dissolved Chloride (Cl ⁻)	mg/L	120	1.0	7625935	340	5.0	7625935				
Nitrite (N)	mg/L	0.025	0.010	7625780	0.209	0.010	7625780				
Nitrate (N)	mg/L	1.34	0.10	7625780	0.62	0.10	7625780				
Nitrate + Nitrite (N)	mg/L	1.36	0.10	7625780	0.82	0.10	7625780				
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate											



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VERITAS

BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QWB602			QWB603	QWB604	QWB605		
Sampling Date		2021/10/05			2021/10/05	2021/10/05	2021/10/05		
COC Number		848637-03-01			848637-03-01	848637-03-01	848637-03-01		
	UNITS	TS-1	RDL	QC Batch	T-13	T-29	T-3R	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	5	7629470	9	10	<5	5	7629470
Mercury (Hg)	mg/L	<0.00010	0.00010	7626913	<0.00010	<0.00010	<0.00010	0.00010	7626913
Total Aluminum (Al)	mg/L	0.14	0.0049	7626992	0.31	0.62	0.097	0.0049	7626992
Total Arsenic (As)	mg/L	0.0025	0.0010	7626992	<0.0010	<0.0010	0.0015	0.0010	7626992
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7626992	<0.00040	<0.00040	<0.00040	0.00040	7626992
Total Boron (B)	mg/L	0.19	0.010	7626992	0.070	0.065	0.21	0.010	7626992
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7626992	0.000090	0.00017	<0.000090	0.000090	7626992
Total Calcium (Ca)	mg/L	98	0.20	7626992	77	85	110	0.20	7626992
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7626992	<0.0050	<0.0050	<0.0050	0.0050	7626992
Total Cobalt (Co)	mg/L	<0.00050	0.00050	7626992	<0.00050	<0.00050	<0.00050	0.00050	7626992
Total Copper (Cu)	mg/L	0.0043	0.00090	7626992	0.0051	0.0045	0.0043	0.00090	7626992
Total Iron (Fe)	mg/L	0.23	0.10	7626992	0.41	0.82	0.19	0.10	7626992
Total Lead (Pb)	mg/L	0.0016	0.00050	7626992	0.00096	0.0015	0.0024	0.00050	7626992
Total Magnesium (Mg)	mg/L	19	0.050	7626992	22	24	23	0.050	7626992
Total Manganese (Mn)	mg/L	0.18	0.0020	7626992	0.012	0.038	0.061	0.0020	7626992
Total Molybdenum (Mo)	mg/L	0.047	0.00050	7626992	0.0027	0.0031	0.038	0.00050	7626992
Total Nickel (Ni)	mg/L	0.0035	0.0010	7626992	0.0023	0.0029	0.0044	0.0010	7626992
Total Potassium (K)	mg/L	6.8	0.20	7626992					
Total Selenium (Se)	mg/L	<0.0020	0.0020	7626992	<0.0020	<0.0020	<0.0020	0.0020	7626992
Total Silver (Ag)	mg/L	<0.000090	0.000090	7626992	<0.000090	<0.000090	<0.000090	0.000090	7626992
Total Sodium (Na)	mg/L	81	0.10	7626992	74	74	89	0.10	7626992
Total Strontium (Sr)	mg/L	0.53	0.0010	7626992	1.6	1.9	0.61	0.0010	7626992
Total Vanadium (V)	mg/L	0.0016	0.00050	7626992	0.0013	0.0017	0.0013	0.00050	7626992
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7626992	0.060	0.11	0.014	0.0050	7626992

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QWB605			QWB606	QWB607	QWB608		
Sampling Date		2021/10/05			2021/10/05	2021/10/05	2021/10/05		
COC Number		848637-03-01			848637-03-01	848637-03-01	848637-03-01		
	UNITS	T-3R Lab-Dup	RDL	QC Batch	T-31	T-1R	T-32	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L				11	<5	11	5	7629470
Mercury (Hg)	mg/L	<0.00010	0.00010	7626913	<0.00010	<0.00010	<0.00010	0.00010	7626913
Total Aluminum (Al)	mg/L				0.44	0.0066	0.58	0.0049	7626992
Total Arsenic (As)	mg/L				<0.0010	0.0026	<0.0010	0.0010	7626992
Total Beryllium (Be)	mg/L				<0.00040	<0.00040	<0.00040	0.00040	7626992
Total Boron (B)	mg/L				0.073	0.39	0.085	0.010	7626992
Total Cadmium (Cd)	mg/L				0.00016	<0.000090	0.00017	0.000090	7626992
Total Calcium (Ca)	mg/L				89	220	91	0.20	7626992
Total Chromium (Cr)	mg/L				<0.0050	<0.0050	<0.0050	0.0050	7626992
Total Cobalt (Co)	mg/L				<0.00050	0.00092	<0.00050	0.00050	7626992
Total Copper (Cu)	mg/L				0.0049	<0.00090	0.0066	0.00090	7626992
Total Iron (Fe)	mg/L				0.57	1.6	0.81	0.10	7626992
Total Lead (Pb)	mg/L				0.0018	0.0011	0.0026	0.00050	7626992
Total Magnesium (Mg)	mg/L				23	35	23	0.050	7626992
Total Manganese (Mn)	mg/L				0.041	0.24	0.060	0.0020	7626992
Total Molybdenum (Mo)	mg/L				0.0033	0.025	0.0033	0.00050	7626992
Total Nickel (Ni)	mg/L				0.0030	0.0073	0.0034	0.0010	7626992
Total Selenium (Se)	mg/L				<0.0020	<0.0020	<0.0020	0.0020	7626992
Total Silver (Ag)	mg/L				<0.000090	<0.000090	<0.000090	0.000090	7626992
Total Sodium (Na)	mg/L				89	560	92	0.10	7626992
Total Strontium (Sr)	mg/L				1.7	3.2	1.7	0.0010	7626992
Total Vanadium (V)	mg/L				0.0017	0.00066	0.0019	0.00050	7626992
Total Zinc (Zn)	mg/L				0.10	0.043	0.11	0.0050	7626992

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



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BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QWB609	QWB610	QWB611			QWB611		
Sampling Date		2021/10/05	2021/10/05	2021/10/05			2021/10/05		
COC Number		848637-03-01	848637-03-01	848637-03-01			848637-03-01		
	UNITS	T-35	T-15R	T-12	RDL	QC Batch	T-12 Lab-Dup	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	5	9	5	7629470	9	5	7629470
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7626913			
Total Aluminum (Al)	mg/L	0.0055	0.47	0.50	0.0049	7626992			
Total Arsenic (As)	mg/L	0.0020	0.0011	<0.0010	0.0010	7626992			
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	<0.00040	0.00040	7626992			
Total Boron (B)	mg/L	0.38	0.11	0.065	0.010	7626992			
Total Cadmium (Cd)	mg/L	<0.000090	<0.000090	0.00012	0.000090	7626992			
Total Calcium (Ca)	mg/L	220	95	86	0.20	7626992			
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	7626992			
Total Cobalt (Co)	mg/L	0.0013	0.00052	<0.00050	0.00050	7626992			
Total Copper (Cu)	mg/L	0.0014	0.0044	0.0043	0.00090	7626992			
Total Iron (Fe)	mg/L	0.93	0.73	0.60	0.10	7626992			
Total Lead (Pb)	mg/L	0.0017	0.0021	0.0011	0.00050	7626992			
Total Magnesium (Mg)	mg/L	33	22	24	0.050	7626992			
Total Manganese (Mn)	mg/L	0.29	0.10	0.027	0.0020	7626992			
Total Molybdenum (Mo)	mg/L	0.024	0.010	0.0030	0.00050	7626992			
Total Nickel (Ni)	mg/L	0.0088	0.0034	0.0031	0.0010	7626992			
Total Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7626992			
Total Silver (Ag)	mg/L	<0.000090	<0.000090	<0.000090	0.000090	7626992			
Total Sodium (Na)	mg/L	530	57	75	0.10	7626992			
Total Strontium (Sr)	mg/L	3.1	1.6	1.9	0.0010	7626992			
Total Vanadium (V)	mg/L	0.00062	0.0018	0.0015	0.00050	7626992			
Total Zinc (Zn)	mg/L	0.10	0.036	0.11	0.0050	7626992			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



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VERITAS

BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QWB615	QWB616	QWB617		
Sampling Date		2021/10/04	2021/10/04	2021/10/04		
COC Number		848637-01-01	848637-01-01	848637-01-01		
	UNITS	T-16	T-30	T-3A	RDL	QC Batch
Metals						
Dissolved (0.2u) Aluminum (Al)	ug/L	10	10	<5	5	7629470
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7626913
Total Aluminum (Al)	mg/L	0.22	0.50	0.14	0.0049	7626992
Total Arsenic (As)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	7626992
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	<0.00040	0.00040	7626992
Total Boron (B)	mg/L	0.14	0.069	0.57	0.010	7626992
Total Cadmium (Cd)	mg/L	0.00013	0.00014	<0.000090	0.000090	7626992
Total Calcium (Ca)	mg/L	85	90	270	0.20	7626992
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	7626992
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	7626992
Total Copper (Cu)	mg/L	0.0042	0.0045	0.0024	0.00090	7626992
Total Iron (Fe)	mg/L	0.31	0.61	0.33	0.10	7626992
Total Lead (Pb)	mg/L	0.00090	0.0013	0.0076	0.00050	7626992
Total Magnesium (Mg)	mg/L	26	24	60	0.050	7626992
Total Manganese (Mn)	mg/L	0.018	0.031	0.26	0.0020	7626992
Total Molybdenum (Mo)	mg/L	0.0026	0.0029	0.012	0.00050	7626992
Total Nickel (Ni)	mg/L	0.0019	0.0030	0.0063	0.0010	7626992
Total Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7626992
Total Silver (Ag)	mg/L	<0.000090	<0.000090	<0.000090	0.000090	7626992
Total Sodium (Na)	mg/L	110	78	230	0.10	7626992
Total Strontium (Sr)	mg/L	1.2	1.9	3.1	0.0010	7626992
Total Vanadium (V)	mg/L	0.0015	0.0015	0.0011	0.00050	7626992
Total Zinc (Zn)	mg/L	0.047	0.10	0.063	0.0050	7626992
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QWB602
Sample ID: TS-1
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Kjeldahl Nitrogen in Water	SKAL	7628313	2021/10/08	2021/10/13	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7628312	N/A	2021/10/13	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

BV Labs ID: QWB602 Dup
Sample ID: TS-1
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai

BV Labs ID: QWB603
Sample ID: T-13
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631405	N/A	2021/10/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani



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VERITAS

BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QWB617
Sample ID: T-3A
Matrix: Water

Collected: 2021/10/04
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628508	N/A	2021/10/13	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

BV Labs ID: QWB617 Dup
Sample ID: T-3A
Matrix: Water

Collected: 2021/10/04
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Biochemical Oxygen Demand (BOD)	DO	7626202	2021/10/08	2021/10/13	Nusrat Naz
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.7°C
Package 2	2.3°C
Package 3	2.7°C

Results relate only to the items tested.



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VERITAS

BV Labs Job #: C1T0256

Report Date: 2021/10/14

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: SW

Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7626992	Total Vanadium (V)	2021/10/14	99	80 - 120	96	80 - 120	<0.00050	mg/L	8.6	20		
7626992	Total Zinc (Zn)	2021/10/14	101	80 - 120	100	80 - 120	<0.0050	mg/L	8.1	20		
7628312	Total Organic Carbon (TOC)	2021/10/13	95	80 - 120	95	80 - 120	<0.40	mg/L	1.6	20		
7628313	Total Kjeldahl Nitrogen (TKN)	2021/10/12	97	80 - 120	106	80 - 120	<0.10	mg/L	NC	20	98	80 - 120
7628508	Dissolved Organic Carbon	2021/10/13	95	80 - 120	97	80 - 120	<0.40	mg/L	0.93	20		
7628532	Dissolved Organic Carbon	2021/10/12	94	80 - 120	94	80 - 120	<0.40	mg/L	2.3	20		
7628537	Dissolved Organic Carbon	2021/10/12	93	80 - 120	94	80 - 120	<0.40	mg/L	4.8	20		
7629470	Dissolved (0.2u) Aluminum (Al)	2021/10/12	102	80 - 120	101	80 - 120	<5	ug/L	2.1	20		
7630740	Total Phosphorus	2021/10/13	89	80 - 120	87	80 - 120	<0.004	mg/L	3.6	20	85	80 - 120
7631347	Total Ammonia-N	2021/10/13	NC	75 - 125	101	80 - 120	<0.050	mg/L	0.24	20		
7631405	Total Ammonia-N	2021/10/13	96	75 - 125	101	80 - 120	<0.050	mg/L	7.1	20		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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).



BUREAU
VERITAS

BV Labs Job #: C1T0256
Report Date: 2021/10/14

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

VALIDATION SIGNATURE PAGE

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

A handwritten signature in black ink, appearing to read 'A. Hamanov', written over a horizontal line.

Anastassia Hamanov, Scientific Specialist

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
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L9 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

06-Oct-21 15:10
Jolanta Goralczyk
C1T0256

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #16786 Terrapure Environmental	Company Name: Accounting	Company Name: Brad Mullin	Quotation #: B60569	Bottle Order #: 848637	
Attention: Accounting	Address: 65 Green Mountain Rd West	Address: Stoney Creek ON L8J 1X5	P.O. #: SW	Project Manager: Jolanta Goralczyk	
Tel: (905) 561-0305	Fax: (905) 561-1674	Tel: (905) 548-5882	Project Name: SW	COC #: ENM 1117	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #: SW	C9848637-03-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)		Other Regulations		Special Instructions
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table
			<input type="checkbox"/> Other _____	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals (Reg VI)	Surface Water	"List C"	TDC + TRN + K	Analysis Requested (Please be Specific)	Turnaround Time (TAT) Required: Please provide advance notice for rush projects
1	TS-1	Oct 5 2021	NA	SW	Y	X	X			Regular (Standard) TAT: <input checked="" type="checkbox"/> (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	T-13				Y	X				Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)
3	T-29				Y	X				# of Bottles: _____ Comments: _____
4	T-3R				Y	X				
6	T-31				Y	X				
6	T-1R				Y	X				
7	T-32				Y	X				
8	T-35				Y	X				
9	T-15R				Y	X				
10	T-12				Y	X				

RELINQUISHED BY: (Signature/Print) Dan Taylor	Date: (YY/MM/DD) 21/10/06	Time 9:15	RECEIVED BY: (Signature/Print) KAVITHASELVAN	Date: (YY/MM/DD) 2021/10/06	Time 15:10	# jars used and not submitted	Laboratory Use Only
							Time Sensitive
							Temperature (°C) on Receipt 4/1/3 / 2/2/13
							Custody Seal Present
							Intact
							Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
* 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.
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY FORMS.

Bureau Veritas Canada (2019) Inc. RV driver 2/4/2



Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Brad Mullin - GHD Reporting Attention: Address: Tel: Fax: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: SW Project Name: SW Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: COC #: Project Manager: Jolanta Goralczyk C#B48944-01-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects					
Regulation 153 (2011)			Other Regulations		Special Instructions	Field Filtered (please circle): Metals (High/Cr-VI)	Lab: °C SW Water Quality (Full)											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.		
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____			<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____															Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)		
Include Criteria on Certificate of Analysis (Y/N)?																				
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																
1	T-16	Oct 4 2006	NA	SW	Y	X													9	
2	T-30	↓	↓	SW	Y	X													9	
3	T-3A	↓	↓	SW	Y	X													9	
4				SW																
5				SW																
6				SW																
7				SW																
8				SW																
9				SW																
10				SW																

RELINQUISHED BY: (Signature/Print) D Taylor / Dan Taylor		Date: (YY/MM/DD) 21/10/06	Time 4:15	RECEIVED BY: (Signature/Print) See page 1		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
								Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
										Intact		

UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.

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.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: SW
 Your C.O.C. #: 848637-03-01, 848637-01-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON
 CANADA L8J 1X5

Report Date: 2021/10/22
 Report #: R6864685
 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1T0256

Received: 2021/10/06, 15:10

Sample Matrix: Water
 # Samples Received: 13

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Dissolved Aluminum (0.2 u, clay free)	13	N/A	2021/10/12	CAM SOP-00447	EPA 6020B m
Alkalinity	13	N/A	2021/10/09	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	13	2021/10/08	2021/10/13	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	13	N/A	2021/10/08	CAM SOP-00463	SM 23 4500-Cl E m
Dissolved Organic Carbon (DOC) (1)	11	N/A	2021/10/12	CAM SOP-00446	SM 23 5310 B m
Dissolved Organic Carbon (DOC) (1)	2	N/A	2021/10/13	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	13	N/A	2021/10/14	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	13	2021/10/08	2021/10/08	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	13	N/A	2021/10/14	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	13	N/A	2021/10/13	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (2)	13	N/A	2021/10/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	13	2021/10/07	2021/10/09	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	12	N/A	2021/10/07	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/10/08	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	13	N/A	2021/10/08	CAM SOP-00464	EPA 375.4 m
Total Kjeldahl Nitrogen in Water	1	2021/10/08	2021/10/13	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/10/13	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	13	2021/10/12	2021/10/13	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	13	2021/10/08	2021/10/12	CAM SOP-00428	SM 23 2540D m

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) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
- (2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: SW
Your C.O.C. #: 848637-03-01, 848637-01-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/10/22
Report #: R6864685
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1T0256

Received: 2021/10/06, 15:10

Encryption Key

Hongmei Zhao (Grace)
Project Manager
22 Oct 2021 16:01:42

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
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

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		QWB602				QWB602				QWB603			
Sampling Date		2021/10/05				2021/10/05				2021/10/05			
COC Number		848637-03-01				848637-03-01				848637-03-01			
	UNITS	TS-1	RDL	QC Batch	TS-1 Lab-Dup	RDL	QC Batch	T-13	RDL	QC Batch			
Calculated Parameters													
Hardness (CaCO3)	mg/L	340	1.0	7621148				290	1.0	7621148			
Inorganics													
Total Ammonia-N	mg/L	0.18	0.050	7631347				<0.050	0.050	7631405			
Total BOD	mg/L	4	2	7626201				<2	2	7626201			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.91	0.10	7628313									
Dissolved Organic Carbon	mg/L	8.6	0.40	7628532				4.4	0.40	7628532			
Total Organic Carbon (TOC)	mg/L	9.8	0.40	7628312									
pH	pH	7.73		7625724	7.82		7625724	8.28		7625724			
Phenols-4AAP	mg/L	<0.0010	0.0010	7624698				<0.0010	0.0010	7624698			
Total Phosphorus	mg/L	0.58	0.02	7630740				0.074	0.004	7630740			
Total Suspended Solids	mg/L	10	10	7625561				11	10	7625561			
Dissolved Sulphate (SO4)	mg/L	280	2.0	7625940				130	1.0	7625940			
Alkalinity (Total as CaCO3)	mg/L	120	1.0	7625705	120	1.0	7625705	170	1.0	7625705			
Dissolved Chloride (Cl-)	mg/L	44	1.0	7625935				110	1.0	7625935			
Nitrite (N)	mg/L	0.060	0.010	7625780				0.018	0.010	7625780			
Nitrate (N)	mg/L	0.36	0.10	7625780				1.33	0.10	7625780			
Nitrate + Nitrite (N)	mg/L	0.42	0.10	7625780				1.35	0.10	7625780			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate													



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		QWB604			QWB605		QWB606		
Sampling Date		2021/10/05			2021/10/05		2021/10/05		
COC Number		848637-03-01			848637-03-01		848637-03-01		
	UNITS	T-29	RDL	QC Batch	T-3R	RDL	T-31	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	320	1.0	7621148	380	1.0	320	1.0	7621148
Inorganics									
Total Ammonia-N	mg/L	<0.050	0.050	7631405	<0.050	0.050	0.11	0.050	7631347
Total BOD	mg/L	<2	2	7626201	<2	2	<2	2	7626201
Dissolved Organic Carbon	mg/L	4.9	0.40	7628532	6.5	0.40	5.0	0.40	7628532
pH	pH	8.18		7625724	7.92		8.26		7625724
Phenols-4AAP	mg/L	<0.0010	0.0010	7624698	<0.0010	0.0010	<0.0010	0.0010	7624698
Total Phosphorus	mg/L	0.082	0.004	7630740	0.25	0.02	0.091	0.004	7630740
Total Suspended Solids	mg/L	30	10	7625561	10	10	16	10	7625561
Dissolved Sulphate (SO4)	mg/L	140	1.0	7625940	320	2.0	140	1.0	7625940
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7625705	120	1.0	180	1.0	7625705
Dissolved Chloride (Cl-)	mg/L	110	1.0	7625935	49	1.0	140	1.0	7625935
Nitrite (N)	mg/L	0.029	0.010	7625780	0.014	0.010	0.040	0.010	7625780
Nitrate (N)	mg/L	1.27	0.10	7625780	0.63	0.10	1.28	0.10	7625780
Nitrate + Nitrite (N)	mg/L	1.30	0.10	7625780	0.64	0.10	1.32	0.10	7625780
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		QWB607		QWB608		QWB609			QWB609		
Sampling Date		2021/10/05		2021/10/05		2021/10/05			2021/10/05		
COC Number		848637-03-01		848637-03-01		848637-03-01			848637-03-01		
	UNITS	T-1R	RDL	T-32	RDL	T-35	RDL	QC Batch	T-35 Lab-Dup	RDL	QC Batch

Calculated Parameters											
Hardness (CaCO3)	mg/L	710	1.0	320	1.0	690	1.0	7621148			
Inorganics											
Total Ammonia-N	mg/L	25	0.050	0.060	0.050	29	0.050	7631347	29	0.050	7631347
Total BOD	mg/L	6	2	<2	2	8	2	7626201			
Dissolved Organic Carbon	mg/L	10	0.40	5.1	0.40	11	0.40	7628532			
pH	pH	7.98		8.28		7.91		7625724			
Phenols-4AAP	mg/L	0.048	0.0010	<0.0010	0.0010	0.048	0.0010	7624698			
Total Phosphorus	mg/L	0.024	0.004	0.10	0.02	0.024	0.004	7630740			
Total Suspended Solids	mg/L	<10	10	17	10	<10	10	7625561			
Dissolved Sulphate (SO4)	mg/L	550	5.0	150	1.0	520	5.0	7625940			
Alkalinity (Total as CaCO3)	mg/L	240	1.0	190	1.0	240	1.0	7625705			
Dissolved Chloride (Cl-)	mg/L	830	10	130	1.0	760	10	7625935			
Nitrite (N)	mg/L	0.117	0.010	0.030	0.010	0.159	0.010	7625780			
Nitrate (N)	mg/L	0.60	0.10	1.33	0.10	0.92	0.10	7625780			
Nitrate + Nitrite (N)	mg/L	0.72	0.10	1.36	0.10	1.08	0.10	7625780			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		QWB610			QWB611			QWB615		
Sampling Date		2021/10/05			2021/10/05			2021/10/05		
COC Number		848637-03-01			848637-03-01			848637-01-01		
	UNITS	T-15R	RDL	QC Batch	T-12	RDL	QC Batch	T-16	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO ₃)	mg/L	320	1.0	7621148	320	1.0	7621148	350	1.0	7621148
Inorganics										
Total Ammonia-N	mg/L	0.052	0.050	7631347	<0.050	0.050	7631347	<0.050	0.050	7631347
Total BOD	mg/L	<2	2	7626201	<2	2	7626201	<2	2	7626201
Dissolved Organic Carbon	mg/L	4.8	0.40	7628532	1.8	0.40	7628508	4.4	0.40	7628532
pH	pH	8.01		7625724	8.29		7625724	8.34		7625724
Phenols-4AAP	mg/L	<0.0010	0.0010	7624698	<0.0010	0.0010	7624698	<0.0010	0.0010	7624698
Total Phosphorus	mg/L	0.10	0.02	7630740	0.081	0.004	7630740	0.098	0.004	7630740
Total Suspended Solids	mg/L	16	10	7625561	11	10	7625561	<10	10	7625561
Dissolved Sulphate (SO ₄)	mg/L	210	1.0	7625940	140	1.0	7625940	150	1.0	7625940
Alkalinity (Total as CaCO ₃)	mg/L	140	1.0	7625705	190	1.0	7625705	210	1.0	7625705
Dissolved Chloride (Cl ⁻)	mg/L	61	1.0	7625935	110	1.0	7625935	150	2.0	7625935
Nitrite (N)	mg/L	0.014	0.010	7625780	0.020	0.010	7625780	0.014	0.010	7625780
Nitrate (N)	mg/L	0.39	0.10	7625780	1.22	0.10	7625780	2.57	0.10	7625780
Nitrate + Nitrite (N)	mg/L	0.41	0.10	7625780	1.24	0.10	7625780	2.59	0.10	7625780

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		QWB616				QWB617				QWB617			
Sampling Date		2021/10/05				2021/10/05				2021/10/05			
COC Number		848637-01-01				848637-01-01				848637-01-01			
	UNITS	T-30	RDL	QC Batch	T-3A	RDL	QC Batch	T-3A Lab-Dup	RDL	QC Batch			
Calculated Parameters													
Hardness (CaCO ₃)	mg/L	320	1.0	7621148	920	1.0	7621148						
Inorganics													
Total Ammonia-N	mg/L	0.066	0.050	7631347	2.1	0.050	7631347						
Total BOD	mg/L	<2	2	7626201	4	2	7626202	3	2	7626202			
Dissolved Organic Carbon	mg/L	4.9	0.40	7628537	4.0	0.40	7628508						
pH	pH	8.16		7625724	8.11		7625724						
Phenols-4AAP	mg/L	<0.0010	0.0010	7624698	<0.0010	0.0010	7624698						
Total Phosphorus	mg/L	0.084	0.004	7630740	0.023	0.004	7630740						
Total Suspended Solids	mg/L	<10	10	7625561	<10	10	7625561	<10	10	7625561			
Dissolved Sulphate (SO ₄)	mg/L	140	1.0	7625940	670	5.0	7625940						
Alkalinity (Total as CaCO ₃)	mg/L	190	1.0	7625705	200	1.0	7625705						
Dissolved Chloride (Cl ⁻)	mg/L	120	1.0	7625935	340	5.0	7625935						
Nitrite (N)	mg/L	0.025	0.010	7625780	0.209	0.010	7625780						
Nitrate (N)	mg/L	1.34	0.10	7625780	0.62	0.10	7625780						
Nitrate + Nitrite (N)	mg/L	1.36	0.10	7625780	0.82	0.10	7625780						
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate													



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		QWB602			QWB603	QWB604	QWB605		
Sampling Date		2021/10/05			2021/10/05	2021/10/05	2021/10/05		
COC Number		848637-03-01			848637-03-01	848637-03-01	848637-03-01		
	UNITS	TS-1	RDL	QC Batch	T-13	T-29	T-3R	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	5	7629470	9	10	<5	5	7629470
Mercury (Hg)	mg/L	<0.00010	0.00010	7626913	<0.00010	<0.00010	<0.00010	0.00010	7626913
Total Aluminum (Al)	mg/L	0.14	0.0049	7626992	0.31	0.62	0.097	0.0049	7626992
Total Arsenic (As)	mg/L	0.0025	0.0010	7626992	<0.0010	<0.0010	0.0015	0.0010	7626992
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7626992	<0.00040	<0.00040	<0.00040	0.00040	7626992
Total Boron (B)	mg/L	0.19	0.010	7626992	0.070	0.065	0.21	0.010	7626992
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7626992	0.000090	0.00017	<0.000090	0.000090	7626992
Total Calcium (Ca)	mg/L	98	0.20	7626992	77	85	110	0.20	7626992
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7626992	<0.0050	<0.0050	<0.0050	0.0050	7626992
Total Cobalt (Co)	mg/L	<0.00050	0.00050	7626992	<0.00050	<0.00050	<0.00050	0.00050	7626992
Total Copper (Cu)	mg/L	0.0043	0.00090	7626992	0.0051	0.0045	0.0043	0.00090	7626992
Total Iron (Fe)	mg/L	0.23	0.10	7626992	0.41	0.82	0.19	0.10	7626992
Total Lead (Pb)	mg/L	0.0016	0.00050	7626992	0.00096	0.0015	0.0024	0.00050	7626992
Total Magnesium (Mg)	mg/L	19	0.050	7626992	22	24	23	0.050	7626992
Total Manganese (Mn)	mg/L	0.18	0.0020	7626992	0.012	0.038	0.061	0.0020	7626992
Total Molybdenum (Mo)	mg/L	0.047	0.00050	7626992	0.0027	0.0031	0.038	0.00050	7626992
Total Nickel (Ni)	mg/L	0.0035	0.0010	7626992	0.0023	0.0029	0.0044	0.0010	7626992
Total Potassium (K)	mg/L	6.8	0.20	7626992					
Total Selenium (Se)	mg/L	<0.0020	0.0020	7626992	<0.0020	<0.0020	<0.0020	0.0020	7626992
Total Silver (Ag)	mg/L	<0.000090	0.000090	7626992	<0.000090	<0.000090	<0.000090	0.000090	7626992
Total Sodium (Na)	mg/L	81	0.10	7626992	74	74	89	0.10	7626992
Total Strontium (Sr)	mg/L	0.53	0.0010	7626992	1.6	1.9	0.61	0.0010	7626992
Total Vanadium (V)	mg/L	0.0016	0.00050	7626992	0.0013	0.0017	0.0013	0.00050	7626992
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7626992	0.060	0.11	0.014	0.0050	7626992

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

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Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		QWB605			QWB606	QWB607	QWB608		
Sampling Date		2021/10/05			2021/10/05	2021/10/05	2021/10/05		
COC Number		848637-03-01			848637-03-01	848637-03-01	848637-03-01		
	UNITS	T-3R Lab-Dup	RDL	QC Batch	T-31	T-1R	T-32	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L				11	<5	11	5	7629470
Mercury (Hg)	mg/L	<0.00010	0.00010	7626913	<0.00010	<0.00010	<0.00010	0.00010	7626913
Total Aluminum (Al)	mg/L				0.44	0.0066	0.58	0.0049	7626992
Total Arsenic (As)	mg/L				<0.0010	0.0026	<0.0010	0.0010	7626992
Total Beryllium (Be)	mg/L				<0.00040	<0.00040	<0.00040	0.00040	7626992
Total Boron (B)	mg/L				0.073	0.39	0.085	0.010	7626992
Total Cadmium (Cd)	mg/L				0.00016	<0.000090	0.00017	0.000090	7626992
Total Calcium (Ca)	mg/L				89	220	91	0.20	7626992
Total Chromium (Cr)	mg/L				<0.0050	<0.0050	<0.0050	0.0050	7626992
Total Cobalt (Co)	mg/L				<0.00050	0.00092	<0.00050	0.00050	7626992
Total Copper (Cu)	mg/L				0.0049	<0.00090	0.0066	0.00090	7626992
Total Iron (Fe)	mg/L				0.57	1.6	0.81	0.10	7626992
Total Lead (Pb)	mg/L				0.0018	0.0011	0.0026	0.00050	7626992
Total Magnesium (Mg)	mg/L				23	35	23	0.050	7626992
Total Manganese (Mn)	mg/L				0.041	0.24	0.060	0.0020	7626992
Total Molybdenum (Mo)	mg/L				0.0033	0.025	0.0033	0.00050	7626992
Total Nickel (Ni)	mg/L				0.0030	0.0073	0.0034	0.0010	7626992
Total Selenium (Se)	mg/L				<0.0020	<0.0020	<0.0020	0.0020	7626992
Total Silver (Ag)	mg/L				<0.000090	<0.000090	<0.000090	0.000090	7626992
Total Sodium (Na)	mg/L				89	560	92	0.10	7626992
Total Strontium (Sr)	mg/L				1.7	3.2	1.7	0.0010	7626992
Total Vanadium (V)	mg/L				0.0017	0.00066	0.0019	0.00050	7626992
Total Zinc (Zn)	mg/L				0.10	0.043	0.11	0.0050	7626992

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		QWB609	QWB610	QWB611			QWB611		
Sampling Date		2021/10/05	2021/10/05	2021/10/05			2021/10/05		
COC Number		848637-03-01	848637-03-01	848637-03-01			848637-03-01		
	UNITS	T-35	T-15R	T-12	RDL	QC Batch	T-12 Lab-Dup	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	5	9	5	7629470	9	5	7629470
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7626913			
Total Aluminum (Al)	mg/L	0.0055	0.47	0.50	0.0049	7626992			
Total Arsenic (As)	mg/L	0.0020	0.0011	<0.0010	0.0010	7626992			
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	<0.00040	0.00040	7626992			
Total Boron (B)	mg/L	0.38	0.11	0.065	0.010	7626992			
Total Cadmium (Cd)	mg/L	<0.000090	<0.000090	0.00012	0.000090	7626992			
Total Calcium (Ca)	mg/L	220	95	86	0.20	7626992			
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	7626992			
Total Cobalt (Co)	mg/L	0.0013	0.00052	<0.00050	0.00050	7626992			
Total Copper (Cu)	mg/L	0.0014	0.0044	0.0043	0.00090	7626992			
Total Iron (Fe)	mg/L	0.93	0.73	0.60	0.10	7626992			
Total Lead (Pb)	mg/L	0.0017	0.0021	0.0011	0.00050	7626992			
Total Magnesium (Mg)	mg/L	33	22	24	0.050	7626992			
Total Manganese (Mn)	mg/L	0.29	0.10	0.027	0.0020	7626992			
Total Molybdenum (Mo)	mg/L	0.024	0.010	0.0030	0.00050	7626992			
Total Nickel (Ni)	mg/L	0.0088	0.0034	0.0031	0.0010	7626992			
Total Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7626992			
Total Silver (Ag)	mg/L	<0.000090	<0.000090	<0.000090	0.000090	7626992			
Total Sodium (Na)	mg/L	530	57	75	0.10	7626992			
Total Strontium (Sr)	mg/L	3.1	1.6	1.9	0.0010	7626992			
Total Vanadium (V)	mg/L	0.00062	0.0018	0.0015	0.00050	7626992			
Total Zinc (Zn)	mg/L	0.10	0.036	0.11	0.0050	7626992			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		QWB615	QWB616	QWB617		
Sampling Date		2021/10/05	2021/10/05	2021/10/05		
COC Number		848637-01-01	848637-01-01	848637-01-01		
	UNITS	T-16	T-30	T-3A	RDL	QC Batch
Metals						
Dissolved (0.2u) Aluminum (Al)	ug/L	10	10	<5	5	7629470
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7626913
Total Aluminum (Al)	mg/L	0.22	0.50	0.14	0.0049	7626992
Total Arsenic (As)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	7626992
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	<0.00040	0.00040	7626992
Total Boron (B)	mg/L	0.14	0.069	0.57	0.010	7626992
Total Cadmium (Cd)	mg/L	0.00013	0.00014	<0.000090	0.000090	7626992
Total Calcium (Ca)	mg/L	85	90	270	0.20	7626992
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	7626992
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	7626992
Total Copper (Cu)	mg/L	0.0042	0.0045	0.0024	0.00090	7626992
Total Iron (Fe)	mg/L	0.31	0.61	0.33	0.10	7626992
Total Lead (Pb)	mg/L	0.00090	0.0013	0.0076	0.00050	7626992
Total Magnesium (Mg)	mg/L	26	24	60	0.050	7626992
Total Manganese (Mn)	mg/L	0.018	0.031	0.26	0.0020	7626992
Total Molybdenum (Mo)	mg/L	0.0026	0.0029	0.012	0.00050	7626992
Total Nickel (Ni)	mg/L	0.0019	0.0030	0.0063	0.0010	7626992
Total Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7626992
Total Silver (Ag)	mg/L	<0.000090	<0.000090	<0.000090	0.000090	7626992
Total Sodium (Na)	mg/L	110	78	230	0.10	7626992
Total Strontium (Sr)	mg/L	1.2	1.9	3.1	0.0010	7626992
Total Vanadium (V)	mg/L	0.0015	0.0015	0.0011	0.00050	7626992
Total Zinc (Zn)	mg/L	0.047	0.10	0.063	0.0050	7626992
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: QWB602
Sample ID: TS-1
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Kjeldahl Nitrogen in Water	SKAL	7628313	2021/10/08	2021/10/13	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7628312	N/A	2021/10/13	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB602 Dup
Sample ID: TS-1
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai

Bureau Veritas ID: QWB603
Sample ID: T-13
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631405	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: QWB603
Sample ID: T-13
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB604
Sample ID: T-29
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631405	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB605
Sample ID: T-3R
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: QWB605 Dup
Sample ID: T-3R
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai

Bureau Veritas ID: QWB606
Sample ID: T-31
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB607
Sample ID: T-1R
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: QWB608
Sample ID: T-32
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/08	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB609
Sample ID: T-35
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB609 Dup
Sample ID: T-35
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: QWB610
Sample ID: T-15R
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB611
Sample ID: T-12
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628508	N/A	2021/10/13	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB611 Dup
Sample ID: T-12
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: QWB615
Sample ID: T-16
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628532	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB616
Sample ID: T-30
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626201	2021/10/08	2021/10/13	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628537	N/A	2021/10/12	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB617
Sample ID: T-3A
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7629470	N/A	2021/10/12	Nan Raykha
Alkalinity	AT	7625705	N/A	2021/10/09	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7626202	2021/10/08	2021/10/13	Nusrat Naz



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: QWB617
Sample ID: T-3A
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7625935	N/A	2021/10/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7628508	N/A	2021/10/13	Julianna Castiglione
Hardness (calculated as CaCO3)		7621148	N/A	2021/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	7626913	2021/10/08	2021/10/08	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7626992	N/A	2021/10/14	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7631347	N/A	2021/10/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7625780	N/A	2021/10/08	Chandra Nandlal
pH	AT	7625724	2021/10/07	2021/10/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7624698	N/A	2021/10/07	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7625940	N/A	2021/10/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7630740	2021/10/12	2021/10/13	Shivani Shivani
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall

Bureau Veritas ID: QWB617 Dup
Sample ID: T-3A
Matrix: Water

Collected: 2021/10/05
Shipped:
Received: 2021/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Biochemical Oxygen Demand (BOD)	DO	7626202	2021/10/08	2021/10/13	Nusrat Naz
Total Suspended Solids	BAL	7625561	2021/10/08	2021/10/12	Shaneil Hall



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.7°C
Package 2	2.3°C
Package 3	2.7°C

Revised Report (2021/10/22): Sampling date has been amended for the last three samples as per client's request.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256

Report Date: 2021/10/22

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: SW

Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7624698	Phenols-4AAP	2021/10/07	89	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20		
7625561	Total Suspended Solids	2021/10/12					<10	mg/L	NC	25	95	85 - 115
7625705	Alkalinity (Total as CaCO3)	2021/10/09			97	85 - 115	<1.0	mg/L	1.1	20		
7625724	pH	2021/10/09			101	98 - 103			1.1	N/A		
7625780	Nitrate (N)	2021/10/08	98	80 - 120	100	80 - 120	<0.10	mg/L	0.61	20		
7625780	Nitrite (N)	2021/10/08	103	80 - 120	103	80 - 120	<0.010	mg/L	NC	20		
7625935	Dissolved Chloride (Cl-)	2021/10/08	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.099	20		
7625940	Dissolved Sulphate (SO4)	2021/10/08	NC	75 - 125	102	80 - 120	<1.0	mg/L	5.2	20		
7626201	Total BOD	2021/10/13					<2	mg/L	NC	30	87	80 - 120
7626202	Total BOD	2021/10/13					<2	mg/L	29	30	90	80 - 120
7626913	Mercury (Hg)	2021/10/08	94	75 - 125	95	80 - 120	<0.00010	mg/L	NC	20		
7626992	Total Aluminum (Al)	2021/10/14	110	80 - 120	100	80 - 120	<0.0049	mg/L	12	20		
7626992	Total Arsenic (As)	2021/10/14	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7626992	Total Beryllium (Be)	2021/10/14	105	80 - 120	100	80 - 120	<0.00040	mg/L	NC	20		
7626992	Total Boron (B)	2021/10/14	103	80 - 120	98	80 - 120	<0.010	mg/L	6.2	20		
7626992	Total Cadmium (Cd)	2021/10/14	103	80 - 120	100	80 - 120	<0.000090	mg/L	NC	20		
7626992	Total Calcium (Ca)	2021/10/14	NC	80 - 120	100	80 - 120	<0.20	mg/L	9.1	20		
7626992	Total Chromium (Cr)	2021/10/14	95	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20		
7626992	Total Cobalt (Co)	2021/10/14	101	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20		
7626992	Total Copper (Cu)	2021/10/14	102	80 - 120	98	80 - 120	<0.00090	mg/L	14	20		
7626992	Total Iron (Fe)	2021/10/14	96	80 - 120	92	80 - 120	<0.10	mg/L	NC	20		
7626992	Total Lead (Pb)	2021/10/14	99	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
7626992	Total Magnesium (Mg)	2021/10/14	100	80 - 120	93	80 - 120	<0.050	mg/L	11	20		
7626992	Total Manganese (Mn)	2021/10/14	102	80 - 120	98	80 - 120	<0.0020	mg/L	9.9	20		
7626992	Total Molybdenum (Mo)	2021/10/14	114	80 - 120	94	80 - 120	<0.00050	mg/L	13	20		
7626992	Total Nickel (Ni)	2021/10/14	98	80 - 120	97	80 - 120	<0.0010	mg/L	5.3	20		
7626992	Total Potassium (K)	2021/10/14	105	80 - 120	98	80 - 120	<0.20	mg/L	8.0	20		
7626992	Total Selenium (Se)	2021/10/14	106	80 - 120	103	80 - 120	<0.0020	mg/L	15	20		
7626992	Total Silver (Ag)	2021/10/14	98	80 - 120	96	80 - 120	<0.000090	mg/L	NC	20		
7626992	Total Sodium (Na)	2021/10/14	NC	80 - 120	101	80 - 120	<0.10	mg/L	12	20		
7626992	Total Strontium (Sr)	2021/10/14	NC	80 - 120	97	80 - 120	<0.0010	mg/L	8.6	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256

Report Date: 2021/10/22

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: SW

Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7626992	Total Vanadium (V)	2021/10/14	99	80 - 120	96	80 - 120	<0.00050	mg/L	8.6	20		
7626992	Total Zinc (Zn)	2021/10/14	101	80 - 120	100	80 - 120	<0.0050	mg/L	8.1	20		
7628312	Total Organic Carbon (TOC)	2021/10/13	95	80 - 120	95	80 - 120	<0.40	mg/L	1.6	20		
7628313	Total Kjeldahl Nitrogen (TKN)	2021/10/12	97	80 - 120	106	80 - 120	<0.10	mg/L	NC	20	98	80 - 120
7628508	Dissolved Organic Carbon	2021/10/13	95	80 - 120	97	80 - 120	<0.40	mg/L	0.93	20		
7628532	Dissolved Organic Carbon	2021/10/12	94	80 - 120	94	80 - 120	<0.40	mg/L	2.3	20		
7628537	Dissolved Organic Carbon	2021/10/12	93	80 - 120	94	80 - 120	<0.40	mg/L	4.8	20		
7629470	Dissolved (0.2u) Aluminum (Al)	2021/10/12	102	80 - 120	101	80 - 120	<5	ug/L	2.1	20		
7630740	Total Phosphorus	2021/10/13	89	80 - 120	87	80 - 120	<0.004	mg/L	3.6	20	85	80 - 120
7631347	Total Ammonia-N	2021/10/13	NC	75 - 125	101	80 - 120	<0.050	mg/L	0.24	20		
7631405	Total Ammonia-N	2021/10/13	96	75 - 125	101	80 - 120	<0.050	mg/L	7.1	20		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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).



BUREAU
VERITAS

Bureau Veritas Job #: C1T0256
Report Date: 2021/10/22

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

VALIDATION SIGNATURE PAGE

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

A handwritten signature in black ink, appearing to read 'A. Hamanov', written over a horizontal line.

Anastassia Hamanov, Scientific Specialist

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
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L9 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

06-Oct-21 15:10
Jolanta Goralczyk
C1T0256

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #16786 Terrapure Environmental	Company Name:	Attention: Brad Mullin	Quotation #: B60569	Bottle Order #:	
Attention: Accounting	Address: 65 Green Mountain Rd West	Address: Stoney Creek ON L8J 1X5	P.O. #:	848637	
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: (905) 548-5882 Fax: (905) 578-7533	Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com	Project Name: SW SW	Project Manager: Jolanta Goralczyk	
Email: kbailey@terrapureenv.com	Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com		Site #:	COC #: ENM 1117	
			Sampled By:	C9848637-03-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)		Other Regulations		Special Instructions
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table
		<input type="checkbox"/> Other _____		

Include Criteria on Certificate of Analysis (Y/N)?

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals (ig for VI)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	T turnaround Time (TAT) Required: Please provide advance notice for rush projects
1	TS-1	Oct 5 2021	NA	SW	Y	x x	Regular (Standard) TAT: <input checked="" type="checkbox"/> (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	T-13				Y	x	Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)
3	T-29				Y	x	# of Bottles: _____ Comments: _____
4	T-3R				Y	x	
6	T-31				Y	x	
6	T-1R				Y	x	
7	T-32				Y	x	
8	T-35				Y	x	
9	T-15R				Y	x	
10	T-12				Y	x	

RELINQUISHED BY: (Signature/Print) Dan Taylor	Date: (YY/MM/DD) 21/10/06	Time 9:15	RECEIVED BY: (Signature/Print) KAVITHASELVAN	Date: (YY/MM/DD) 2021/10/06	Time 15:10	# jars used and not submitted	Laboratory Use Only Time Sensitive	Temperature (°C) on Receipt 4/1/3 / 2/2/13	Custody Seal Present Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	------------------------------	--------------	---	--------------------------------	---------------	-------------------------------	---------------------------------------	---	--------------------------------	---



* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
* 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.
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY FORMS.

Bureau Veritas Canada (2019) Inc. RV driver 2/4/2



Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Brad Mullin - GHD Reporting Attention: _____ Address: _____ Tel: _____ Fax: _____ Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: _____ Project: SW Project Name: SW Site #: _____ Sampled By: _____		Laboratory Use Only: BV Labs Job #: _____ Bottle Order #:  848944 COC #: _____  C#848944-01-01 Project Manager: Jolanta Goralczyk	
--	--	---	--	--	--	---	--

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects				
Regulation 153 (2011)			Other Regulations		Special Instructions	Field Filtered (please circle): Metals (High/Cr-VI)	Lab: °C SW Water Quality (Full)											Regular (Standard) TAT: <i>(will be applied if Rush TAT is not specified)</i> Standard TAT = 5-7 Working days for most tests. <i>Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</i>	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw														Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ <i>(call lab for #)</i>	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw												# of Bottles		Comments	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____															
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	Reg 406 Table _____															
Include Criteria on Certificate of Analysis (Y/N)?																			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix															
1	T-16	Oct 4 2006	NA	SW	Y	X											9		
2	T-30	↓	↓	SW	Y	X											9		
3	T-3A	↓	↓	SW	Y	X											9		
4				SW															
5				SW															
6				SW															
7				SW															
8				SW															
9				SW															
10				SW															

RELINQUISHED BY: (Signature/Print) <i>Don Taylor</i>		Date: (YY/MM/DD) 21/10/06	Time 4:15	RECEIVED BY: (Signature/Print) <i>See page 1</i>		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
								Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
										Intact		

UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.

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.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: HCL
 Your C.O.C. #: 848944-04-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON
 CANADA L8J 1X5

Report Date: 2021/11/02
 Report #: R6883901
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1U9913

Received: 2021/10/22, 16:53

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	1	N/A	2021/10/28	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/10/29	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/10/28	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/10/27	2021/10/28	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/10/28	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Calcium and Magnesium	1	2021/10/27	2021/10/28	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	1	N/A	2021/11/01	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/10/27	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	1	N/A	2021/10/28	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/10/27	2021/10/28	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/10/25	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/10/27	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/10/26	2021/10/28	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/10/26	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/10/27	2021/10/27	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/10/26	2021/10/27	CAM SOP-00428	SM 23 2540D m

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: HCL
Your C.O.C. #: 848944-04-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/11/02
Report #: R6883901
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1U9913

Received: 2021/10/22, 16:53

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
02 Nov 2021 18:24:49

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
This report has been generated and distributed using a secure automated process.
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BUREAU
VERITAS

Bureau Veritas Job #: C1U9913
Report Date: 2021/11/02

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RAF354		
Sampling Date		2021/10/21 10:30		
COC Number		848944-04-01		
	UNITS	HCL 10:30	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO ₃)	mg/L	1700	1.0	7656057
Inorganics				
Total Ammonia-N	mg/L	0.24	0.050	7663206
Conductivity	umho/cm	2700	1.0	7663577
Fluoride (F ⁻)	mg/L	0.68	0.10	7663549
Total Kjeldahl Nitrogen (TKN)	mg/L	0.74	0.20	7660939
Total Organic Carbon (TOC)	mg/L	3.7	0.40	7661280
Orthophosphate (P)	mg/L	<0.010	0.010	7662594
pH	pH	7.80		7663582
Phenols-4AAP	mg/L	<0.0010	0.0010	7658073
Total Phosphorus	mg/L	0.097	0.020	7663204
Total Suspended Solids	mg/L	60	10	7658541
Alkalinity (Total as CaCO ₃)	mg/L	330	1.0	7663575
Nitrite (N)	mg/L	<0.010	0.010	7663504
Dissolved Chloride (Cl ⁻)	mg/L	92	5.0	7664265
Nitrate (N)	mg/L	<0.10	0.10	7663504
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	7664265
Dissolved Sulphate (SO ₄)	mg/L	1400	5.0	7664265
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RAF354		
Sampling Date		2021/10/21 10:30		
COC Number		848944-04-01		
	UNITS	HCL 10:30	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	380	0.050	7663666
Dissolved Magnesium (Mg)	mg/L	190	0.050	7663666
Total Aluminum (Al)	mg/L	0.98	0.0049	7667053
Total Barium (Ba)	mg/L	0.086	0.0020	7667053
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7667053
Total Boron (B)	mg/L	0.31	0.010	7667053
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7667053
Total Calcium (Ca)	mg/L	400	0.20	7667053
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7667053
Total Cobalt (Co)	mg/L	0.0066	0.00050	7667053
Total Copper (Cu)	mg/L	0.0035	0.00090	7667053
Total Iron (Fe)	mg/L	2.1	0.10	7667053
Total Lead (Pb)	mg/L	0.0050	0.00050	7667053
Total Magnesium (Mg)	mg/L	200	0.050	7667053
Total Manganese (Mn)	mg/L	2.8	0.0020	7667053
Total Molybdenum (Mo)	mg/L	0.0080	0.00050	7667053
Total Nickel (Ni)	mg/L	0.022	0.0010	7667053
Total Potassium (K)	mg/L	3.9	0.20	7667053
Total Silicon (Si)	mg/L	9.5	0.050	7667053
Total Sodium (Na)	mg/L	54	0.10	7667053
Total Strontium (Sr)	mg/L	2.9	0.0010	7667053
Total Titanium (Ti)	mg/L	0.029	0.0050	7667053
Total Vanadium (V)	mg/L	0.0034	0.00050	7667053
Total Zinc (Zn)	mg/L	0.035	0.0050	7667053
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1U9913

Report Date: 2021/11/02

Terrapure Environmental

Client Project #: HCL

Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RAF354
Sample ID: HCL 10:30
Matrix: Water

Collected: 2021/10/21
Shipped:
Received: 2021/10/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7663575	N/A	2021/10/28	Surinder Rai
Anions	IC	7664265	N/A	2021/10/29	Fari Dehdezi
Conductivity	AT	7663577	N/A	2021/10/28	Surinder Rai
Fluoride	ISE	7663549	2021/10/27	2021/10/28	Surinder Rai
Hardness (calculated as CaCO ₃)		7656057	N/A	2021/10/28	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7663666	2021/10/27	2021/10/28	Suban Kanapathippilai
Total Metals Analysis by ICPMS	ICP/MS	7667053	N/A	2021/11/01	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7663206	N/A	2021/10/27	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7663504	N/A	2021/10/28	Chandra Nandlal
pH	AT	7663582	2021/10/27	2021/10/28	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7658073	N/A	2021/10/25	Deonarine Ramnarine
Orthophosphate	KONE	7662594	N/A	2021/10/27	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7660939	2021/10/26	2021/10/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7661280	N/A	2021/10/26	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7663204	2021/10/27	2021/10/27	Shivani Shivani
Total Suspended Solids	BAL	7658541	2021/10/26	2021/10/27	Sandeep Kaur



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
-----------	-------

Sample RAF354 [HCL 10:30] : Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU VERITAS

Bureau Veritas Job #: C1U9913

Report Date: 2021/11/02

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: HCL

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667053	Total Manganese (Mn)	2021/11/02	106	80 - 120	105	80 - 120	<0.0020	mg/L				
7667053	Total Molybdenum (Mo)	2021/11/02	100	80 - 120	99	80 - 120	<0.00050	mg/L				
7667053	Total Nickel (Ni)	2021/11/02	102	80 - 120	102	80 - 120	<0.0010	mg/L	9.8	20		
7667053	Total Potassium (K)	2021/11/02	98	80 - 120	104	80 - 120	<0.20	mg/L				
7667053	Total Silicon (Si)	2021/11/02	97	80 - 120	99	80 - 120	<0.050	mg/L				
7667053	Total Sodium (Na)	2021/11/02	NC	80 - 120	96	80 - 120	<0.10	mg/L				
7667053	Total Strontium (Sr)	2021/11/02	105	80 - 120	103	80 - 120	<0.0010	mg/L				
7667053	Total Titanium (Ti)	2021/11/02	96	80 - 120	99	80 - 120	<0.0050	mg/L				
7667053	Total Vanadium (V)	2021/11/02	101	80 - 120	99	80 - 120	<0.00050	mg/L				
7667053	Total Zinc (Zn)	2021/11/02	106	80 - 120	107	80 - 120	<0.0050	mg/L	1.5	20		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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).




BUREAU
VERITAS

Bureau Veritas Job #: C1U9913
Report Date: 2021/11/02

Terrapure Environmental
Client Project #: HCL
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

Eva Pranjic


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

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
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvllabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - BOD Reporting	Quotation #: B60569	BV Labs Job #:	Bottle Order #:			
Attention: Accounting	Attention: Brad Mullin	P.O. #:		848944			
Address: 65 Green Mountain Rd West	Address: Stoney Creek ON L8J 1X5	Project: HCL HCL					
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name:		COC #:			
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:					
		Sampled By:					

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw	
<input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw	
<input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC	<input type="checkbox"/> MISA Municipality _____	
<input type="checkbox"/> Table _____	<input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____	
	<input type="checkbox"/> Other _____	

Field Filtered (please circle):
Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

EQ LEACH LIST
EXCLUDING BOD

Turnaround Time (TAT) Required: Please provide advance notice for rush projects
Regular (Standard) TAT: <i>(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.</i> <input checked="" type="checkbox"/>
Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ <i>(call lab for #)</i>
of Bottles: 6
Comments

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	# of Bottles	Comments
1	HCL 10:30	21/10/21	AM	Water	N/a	X	6	
2								
3								
4								
5								
6								
7								
8								
9								
10								

22-Oct-21 16:53
Jolanta Goralczyk
C1U9913
NP4 env-1305

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
C. Richardson / Cooper Richardson		21/10/22	9:15	A. S. DIPKIN SINGH		20/21/10/22	16:53		Time Sensitive	Temperature (°C) on Recl	Custody Seal	Yes	No
										21/3	Present Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
* 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.
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS
White: BV Labs Yellow: Client



Your Project #: GW
Your C.O.C. #: 847927-32-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/11/10
Report #: R6894798
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V3595
Received: 2021/10/26, 15:16

Sample Matrix: Water
Samples Received: 20

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	8	2021/10/29	2021/10/30	CAM SOP-00301	EPA 8270 m
Alkalinity	20	N/A	2021/10/30	CAM SOP-00448	SM 23 2320 B m
Anions	20	N/A	2021/11/01	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	2	2021/10/27	2021/11/01	CAM SOP-00427	SM 23 5210B m
Conductivity	20	N/A	2021/10/30	CAM SOP-00414	SM 23 2510 m
Fluoride	20	2021/10/28	2021/10/30	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	2	N/A	2021/10/29	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	18	N/A	2021/11/04	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	2	N/A	2021/10/29	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	16	N/A	2021/11/03	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/11/04	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	18	N/A	2021/10/30	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	2	N/A	2021/11/01	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	20	N/A	2021/10/29	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	4	2021/10/28	2021/10/30	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides (Selected) & PCB (2)	4	2021/10/28	2021/11/01	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	8	N/A	2021/10/29	CAM SOP-00307	EPA 8081A/8082B m
pH	20	2021/10/28	2021/10/30	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	18	N/A	2021/10/29	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	2	N/A	2021/11/01	CAM SOP-00444	OMOE E3179 m
Orthophosphate	20	N/A	2021/10/29	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	19	2021/10/28	2021/10/29	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	1	2021/11/08	2021/11/09	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	6	2021/10/29	2021/11/01	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	14	2021/10/29	2021/11/02	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	20	N/A	2021/10/30	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	8	N/A	2021/10/30	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	8	N/A	2021/10/30	CAM SOP-00226	EPA 8260 m

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



Your Project #: GW
Your C.O.C. #: 847927-32-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/11/10
Report #: R6894798
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V3595

Received: 2021/10/26, 15:16

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

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

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

(3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Jolanta Goralczyk
Project Manager
10 Nov 2021 11:48:45

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

Jolanta Goralczyk, Project Manager

Email: Jolanta.Goralczyk@bureauveritas.com

Phone# (905)817-5751

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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

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA790			RBA791			RBA791		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	P10-I	RDL	QC Batch	P10-II	RDL	QC Batch	P10-II Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2800	1.0	7662638	2400	1.0	7662638			
Inorganics										
Total Ammonia-N	mg/L	26	0.050	7669107	37	0.25	7669107			
Conductivity	umho/cm	7300	1.0	7667961	11000	1.0	7667961	9500	1.0	7667961
Total Dissolved Solids	mg/L	7420	20	7667522	8620	20	7667522			
Fluoride (F-)	mg/L	1.1	0.10	7667956	3.2	0.10	7667956	3.2	0.10	7667956
Total Kjeldahl Nitrogen (TKN)	mg/L	29	2.0	7668586	39	2.0	7668586			
Total Organic Carbon (TOC)	mg/L	5.3	0.40	7668592	15	0.40	7668592			
Orthophosphate (P)	mg/L	<0.010	0.010	7667947	<0.10 (1)	0.10	7667947			
pH	pH	7.88		7667967	8.43		7667967	8.41		7667967
Phenols-4AAP	mg/L	<0.0010	0.0010	7668540	0.022	0.0020	7668551			
Alkalinity (Total as CaCO3)	mg/L	140	1.0	7667962	97	1.0	7667962	99	1.0	7667962
Nitrite (N)	mg/L	<0.010	0.010	7667843	0.021	0.010	7668026			
Dissolved Chloride (Cl-)	mg/L	2500	20	7667915	3100	20	7667915			
Nitrate (N)	mg/L	<0.10	0.10	7667843	<0.10	0.10	7668026			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7667843	<0.10	0.10	7668026			
Dissolved Bromide (Br-)	mg/L	<20	20	7667915	<20	20	7667915			
Dissolved Sulphate (SO4)	mg/L	1600	20	7667915	2000	20	7667915			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Due to colour interferences, sample required dilution. Detection limit was adjusted accordingly.										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA792			RBA792			RBA793		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	P10-III	RDL	QC Batch	P10-III Lab-Dup	RDL	QC Batch	P10-IV	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	2300	1.0	7662638				1400	1.0	7662638
Inorganics										
Total Ammonia-N	mg/L	4.7	0.050	7669107				4.0	0.050	7669107
Conductivity	umho/cm	5200	1.0	7667961				3200	1.0	7667961
Total Dissolved Solids	mg/L	4950	20	7667522				3050	10	7667522
Fluoride (F ⁻)	mg/L	0.94	0.10	7667956				1.5	0.10	7667956
Total Kjeldahl Nitrogen (TKN)	mg/L	5.8	1.0	7668586				5.0	0.50	7668586
Total Organic Carbon (TOC)	mg/L	1.2	0.40	7668592				5.8	0.40	7668592
Orthophosphate (P)	mg/L	<0.10 (1)	0.10	7667947				<0.010	0.010	7667947
pH	pH	8.35		7667967				7.88		7667967
Phenols-4AAP	mg/L	<0.0010	0.0010	7668551				<0.0010	0.0010	7668551
Alkalinity (Total as CaCO ₃)	mg/L	410	1.0	7667962				160	1.0	7667962
Nitrite (N)	mg/L	0.052	0.050	7668026				<0.010	0.010	7667843
Dissolved Chloride (Cl ⁻)	mg/L	1100	10	7668044	1100	10	7668044	300	10	7667915
Nitrate (N)	mg/L	<0.50	0.50	7668026				<0.10	0.10	7667843
Nitrate + Nitrite (N)	mg/L	<0.50	0.50	7668026				<0.10	0.10	7667843
Dissolved Bromide (Br ⁻)	mg/L	16	10	7668044	13	10	7668044	<10	10	7667915
Dissolved Sulphate (SO ₄)	mg/L	2000	10	7668044	2100	10	7668044	1600	10	7667915
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Due to colour interferences, sample required dilution. Detection limit was adjusted accordingly.										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA794			RBA794			RBA795		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	G24	RDL	QC Batch	G24 Lab-Dup	RDL	QC Batch	35-III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	610	1.0	7662638				1800	1.0	7662638
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7669107				2.4	0.050	7669107
Conductivity	umho/cm	980	1.0	7667961				2900	1.0	7667961
Total Dissolved Solids	mg/L	760	10	7667522				3190	10	7667522
Fluoride (F-)	mg/L	1.1	0.10	7667956				0.39	0.10	7667956
Total Kjeldahl Nitrogen (TKN)	mg/L	0.28	0.10	7668586				2.9	0.50	7668586
Total Organic Carbon (TOC)	mg/L	6.0	0.40	7668592				8.2	0.40	7668592
Orthophosphate (P)	mg/L	0.013	0.010	7667947				0.25	0.010	7667947
pH	pH	7.97		7667967				7.81		7667967
Phenols-4AAP	mg/L	<0.0010	0.0010	7668551				<0.0010	0.0010	7668551
Alkalinity (Total as CaCO ₃)	mg/L	320	1.0	7667962				240	1.0	7667962
Nitrite (N)	mg/L	<0.010	0.010	7668026	<0.010	0.010	7668026	<0.010	0.010	7667843
Dissolved Chloride (Cl-)	mg/L	7.6	1.0	7668044				650	5.0	7667915
Nitrate (N)	mg/L	0.26	0.10	7668026	0.25	0.10	7668026	<0.10	0.10	7667843
Nitrate + Nitrite (N)	mg/L	0.26	0.10	7668026	0.25	0.10	7668026	<0.10	0.10	7667843
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7668044				5.8	5.0	7667915
Dissolved Sulphate (SO ₄)	mg/L	310	1.0	7668044				1200	5.0	7667915
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA796			RBA797			RBA798		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	35-V	RDL	QC Batch	35-VI	RDL	QC Batch	35-VII	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	470	1.0	7662638	2600	1.0	7662638	510	1.0	7662638
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7669107	22	0.050	7669107	<0.050	0.050	7669107
Conductivity	umho/cm	800	1.0	7667961	7500	1.0	7667961	860	1.0	7667961
Total Dissolved Solids	mg/L	515	10	7667522	7000	20	7667522	600	10	7667522
Fluoride (F-)	mg/L	0.64	0.10	7667956	1.1	0.10	7667956	0.39	0.10	7667956
Total Kjeldahl Nitrogen (TKN)	mg/L	0.26	0.10	7668586	24	2.0	7668586	0.32	0.10	7668586
Total Organic Carbon (TOC)	mg/L	4.5	0.40	7668592	12	0.40	7668592	5.5	0.40	7668592
Orthophosphate (P)	mg/L	0.026	0.010	7667947	<0.010	0.010	7667947	0.018	0.010	7668077
pH	pH	7.92		7667967	8.15		7667967	7.95		7667967
Phenols-4AAP	mg/L	<0.0010	0.0010	7668530	0.0055	0.0010	7668551	<0.0010	0.0010	7668558
Alkalinity (Total as CaCO3)	mg/L	400	1.0	7667962	99	1.0	7667962	400	1.0	7667962
Nitrite (N)	mg/L	<0.010	0.010	7667843	0.032	0.010	7667843	<0.010	0.010	7668026
Dissolved Chloride (Cl-)	mg/L	12	1.0	7667915	2600	20	7667915	21	1.0	7668044
Nitrate (N)	mg/L	0.66	0.10	7667843	<0.10	0.10	7667843	0.13	0.10	7668026
Nitrate + Nitrite (N)	mg/L	0.66	0.10	7667843	<0.10	0.10	7667843	0.13	0.10	7668026
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7667915	<20	20	7667915	<1.0	1.0	7668044
Dissolved Sulphate (SO4)	mg/L	99	1.0	7667915	1600	20	7667915	130	1.0	7668044
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA799			RBA800			RBA800		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	P9-I	RDL	QC Batch	P9-II	RDL	QC Batch	P9-II Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2000	1.0	7662638	570	1.0	7662638			
Inorganics										
Total Ammonia-N	mg/L	7.1	0.050	7669107	0.32	0.050	7669107			
Conductivity	umho/cm	5400	1.0	7667961	1100	1.0	7667961			
Total Dissolved Solids	mg/L	5950	20	7667522	845	10	7667522	880	10	7667522
Fluoride (F-)	mg/L	1.2	0.10	7667956	0.96	0.10	7667956			
Total Kjeldahl Nitrogen (TKN)	mg/L	8.3	1.0	7668586	0.46	0.10	7668586			
Total Organic Carbon (TOC)	mg/L	3.1	0.40	7668592	3.2	0.40	7668592			
Orthophosphate (P)	mg/L	<0.010	0.010	7667947	0.011	0.010	7667947			
pH	pH	7.82		7667967	8.14		7667967			
Phenols-4AAP	mg/L	0.0016	0.0010	7668530	0.0012	0.0010	7668558			
Alkalinity (Total as CaCO3)	mg/L	200	1.0	7667962	230	1.0	7667962			
Nitrite (N)	mg/L	<0.050	0.050	7668026	<0.010	0.010	7667843			
Dissolved Chloride (Cl-)	mg/L	1900	10	7668044	100	1.0	7667915			
Nitrate (N)	mg/L	<0.50	0.50	7668026	0.68	0.10	7667843			
Nitrate + Nitrite (N)	mg/L	<0.50	0.50	7668026	0.68	0.10	7667843			
Dissolved Bromide (Br-)	mg/L	<10	10	7668044	<1.0	1.0	7667915			
Dissolved Sulphate (SO4)	mg/L	1300	10	7668044	330	1.0	7667915			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA801			RBA802			RBA802		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	P9-IIIR	RDL	QC Batch	31-I	RDL	QC Batch	31-I Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	690	1.0	7662638	110	1.0	7662638			
Inorganics										
Total Ammonia-N	mg/L	1.4	0.050	7669107	75	0.25	7669107			
Conductivity	umho/cm	1800	1.0	7667961	4300	1.0	7667961			
Total Dissolved Solids	mg/L	1530	10	7667522	2200	10	7667522			
Fluoride (F-)	mg/L	1.1	0.10	7667956	1.4	0.10	7667956			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.7	0.10	7668586	80	5.0	7668586			
Total Organic Carbon (TOC)	mg/L	3.4	0.40	7668592	20	0.40	7668592			
Orthophosphate (P)	mg/L	<0.010	0.010	7667947	0.35	0.010	7667947	0.33	0.010	7667947
pH	pH	8.05		7667967	9.41		7667967			
Phenols-4AAP	mg/L	<0.0010	0.0010	7668551	0.32	0.020	7668558			
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7667962	310	1.0	7667962			
Nitrite (N)	mg/L	0.093	0.010	7667843	0.017	0.010	7667843			
Dissolved Chloride (Cl-)	mg/L	300	5.0	7667915	1500	10	7667915			
Nitrate (N)	mg/L	0.23	0.10	7667843	0.53	0.10	7667843			
Nitrate + Nitrite (N)	mg/L	0.32	0.10	7667843	0.54	0.10	7667843			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7667915	<10	10	7667915			
Dissolved Sulphate (SO4)	mg/L	590	5.0	7667915	62	10	7667915			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA803			RBA804			RBA805		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	31-II	RDL	QC Batch	31-III	RDL	QC Batch	33-I	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	260	1.0	7662638	230	1.0	7662638	350	1.0	7662638
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7669107	7.2	0.050	7669107	<0.050	0.050	7669107
Total BOD	mg/L	<2	2	7663213						
Conductivity	umho/cm	430	1.0	7667961	2000	1.0	7667961	960	1.0	7667961
Total Dissolved Solids	mg/L	305	10	7667522	1310	10	7667522	240	10	7687931
Fluoride (F ⁻)	mg/L	0.39	0.10	7667956	2.2	0.10	7667956	0.60	0.10	7667956
Total Kjeldahl Nitrogen (TKN)	mg/L	0.56	0.10	7668586	8.3	0.50	7668586	0.45	0.10	7668586
Total Organic Carbon (TOC)	mg/L	7.8	0.40	7668592	19	0.40	7668592	11	0.40	7668592
Orthophosphate (P)	mg/L	0.067	0.010	7667947	0.018	0.010	7667947	0.14	0.010	7668077
pH	pH	8.41		7667967	7.89		7667967	8.13		7667967
Phenols-4AAP	mg/L	0.0010	0.0010	7668551	0.025	0.0050	7668558	<0.0010	0.0010	7668551
Alkalinity (Total as CaCO ₃)	mg/L	170	1.0	7667962	77	1.0	7667962	95	1.0	7667962
Nitrite (N)	mg/L	<0.010	0.010	7667843	<0.010	0.010	7668026	<0.010	0.010	7668026
Dissolved Chloride (Cl ⁻)	mg/L	6.6	1.0	7667915	330	5.0	7668044	61	1.0	7668044
Nitrate (N)	mg/L	0.12	0.10	7667843	<0.10	0.10	7668026	0.72	0.10	7668026
Nitrate + Nitrite (N)	mg/L	0.12	0.10	7667843	<0.10	0.10	7668026	0.72	0.10	7668026
Dissolved Bromide (Br ⁻)	mg/L	<1.0	1.0	7667915	<5.0	5.0	7668044	<1.0	1.0	7668044
Dissolved Sulphate (SO ₄)	mg/L	71	1.0	7667915	500	5.0	7668044	270	1.0	7668044
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



BUREAU
VERITAS

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Terrapure Environmental
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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA805			RBA806			RBA806		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	33-I Lab-Dup	RDL	QC Batch	33-II	RDL	QC Batch	33-II Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				200	1.0	7662638			
Inorganics										
Total Ammonia-N	mg/L				0.26	0.050	7669119			
Total BOD	mg/L				9	2	7663213			
Conductivity	umho/cm				490	1.0	7667961			
Total Dissolved Solids	mg/L				515	10	7667522			
Fluoride (F-)	mg/L				0.34	0.10	7667956			
Total Kjeldahl Nitrogen (TKN)	mg/L				0.76	0.10	7668586	0.78	0.10	7668586
Total Organic Carbon (TOC)	mg/L	11	0.40	7668592	10	0.40	7668592			
Orthophosphate (P)	mg/L				0.22	0.010	7667947			
pH	pH				8.23		7667967			
Phenols-4AAP	mg/L				<0.0010	0.0010	7668551			
Alkalinity (Total as CaCO3)	mg/L				130	1.0	7667962			
Nitrite (N)	mg/L				0.016	0.010	7667843			
Dissolved Chloride (Cl-)	mg/L				21	1.0	7667915			
Nitrate (N)	mg/L				0.17	0.10	7667843			
Nitrate + Nitrite (N)	mg/L				0.19	0.10	7667843			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	7667915			
Dissolved Sulphate (SO4)	mg/L				100	1.0	7667915			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBA807			RBA808			RBA809		
Sampling Date		2021/10/25			2021/10/25			2021/10/25		
	UNITS	43-I	RDL	QC Batch	43-II	RDL	QC Batch	4-II	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	7662638	1000	1.0	7662638	2100	1.0	7662638
Inorganics										
Total Ammonia-N	mg/L	11	0.050	7669119	2.7	0.050	7669107	11	0.050	7669107
Conductivity	umho/cm	3700	1.0	7667961	2000	1.0	7667961	3800	1.0	7667961
Total Dissolved Solids	mg/L	3900	10	7667522	1660	10	7667522	3920	10	7667522
Fluoride (F-)	mg/L	0.73	0.10	7667956	0.68	0.10	7667956	0.75	0.10	7667956
Total Kjeldahl Nitrogen (TKN)	mg/L	13	2.0	7668586	3.2	0.10	7668586	12	2.0	7668586
Total Organic Carbon (TOC)	mg/L	1.8	0.40	7668592	1.7	0.40	7668592	2.1	0.40	7668592
Orthophosphate (P)	mg/L	<0.010	0.010	7668077	<0.010	0.010	7667947	<0.010	0.010	7667947
pH	pH	7.87		7667967	7.90		7667967	7.87		7667967
Phenols-4AAP	mg/L	<0.0010	0.0010	7668551	<0.0010	0.0010	7668551	<0.0010	0.0010	7668551
Alkalinity (Total as CaCO3)	mg/L	270	1.0	7667962	320	1.0	7667962	270	1.0	7667962
Nitrite (N)	mg/L	<0.010	0.010	7668026	<0.010	0.010	7668026	<0.010	0.010	7667843
Dissolved Chloride (Cl-)	mg/L	780	5.0	7668044	290	5.0	7668044	840	5.0	7667915
Nitrate (N)	mg/L	<0.10	0.10	7668026	<0.10	0.10	7668026	<0.10	0.10	7667843
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7668026	<0.10	0.10	7668026	<0.10	0.10	7667843
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7668044	<5.0	5.0	7668044	<5.0	5.0	7667915
Dissolved Sulphate (SO4)	mg/L	1400	5.0	7668044	550	5.0	7668044	1500	5.0	7667915
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



BUREAU
VERITAS

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Terrapure Environmental
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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBA790	RBA791		RBA792		RBA793		RBA794		
Sampling Date		2021/10/25	2021/10/25		2021/10/25		2021/10/25		2021/10/25		
	UNITS	P10-I	P10-II	RDL	P10-III	RDL	P10-IV	RDL	G24	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<49	49	<4.9	4.9	<4.9	4.9	7668469
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<5.0	5.0	<0.50	0.50	<0.50	0.50	7668469
Dissolved Arsenic (As)	ug/L	1.9	3.5	1.0	<10	10	<1.0	1.0	<1.0	1.0	7668469
Dissolved Barium (Ba)	ug/L	25	20	2.0	<20	20	9.7	2.0	47	2.0	7668469
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<4.0	4.0	<0.40	0.40	<0.40	0.40	7668469
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<10	10	<1.0	1.0	<1.0	1.0	7668469
Dissolved Boron (B)	ug/L	1300	1500	10	13000	100	1800	10	220	10	7668469
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.90	0.90	<0.090	0.090	0.095	0.090	7668469
Dissolved Calcium (Ca)	ug/L	900000	820000	1000	610000	2000	420000	400	160000	200	7668469
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<50	50	<5.0	5.0	<5.0	5.0	7668469
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<5.0	5.0	<0.50	0.50	<0.50	0.50	7668469
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<9.0	9.0	<0.90	0.90	5.0	0.90	7668469
Dissolved Iron (Fe)	ug/L	<100	<100	100	<1000	1000	<100	100	<100	100	7668469
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<5.0	5.0	<0.50	0.50	<0.50	0.50	7668469
Dissolved Lithium (Li)	ug/L	680	590	25	2700	50	130	5.0	13	5.0	7668469
Dissolved Magnesium (Mg)	ug/L	140000	100000	50	190000	500	82000	50	52000	50	7668469
Dissolved Manganese (Mn)	ug/L	100	110	2.0	150	20	54	2.0	10	2.0	7668469
Dissolved Molybdenum (Mo)	ug/L	<0.50	11	0.50	<5.0	5.0	<0.50	0.50	3.4	0.50	7668469
Dissolved Nickel (Ni)	ug/L	1.2	4.6	1.0	<10	10	<1.0	1.0	12	1.0	7668469
Dissolved Phosphorus (P)	ug/L	<100	100	100	<1000	1000	<100	100	<100	100	7668469
Dissolved Potassium (K)	ug/L	73000	80000	200	38000	2000	35000	200	3400	200	7668469
Dissolved Selenium (Se)	ug/L	3.3	7.4	2.0	<20	20	<2.0	2.0	<2.0	2.0	7668469
Dissolved Silicon (Si)	ug/L	3900	3200	50	3500	500	2600	50	7300	50	7668469
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.90	0.90	<0.090	0.090	<0.090	0.090	7668469
Dissolved Sodium (Na)	ug/L	1500000	2200000	500	1000000	1000	460000	100	18000	100	7668469
Dissolved Strontium (Sr)	ug/L	13000	11000	1.0	10000	10	8200	1.0	1100	1.0	7668469
Dissolved Tellurium (Te)	ug/L	<1.0	3.5	1.0	<10	10	<1.0	1.0	<1.0	1.0	7668469
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.50	0.50	<0.050	0.050	0.42	0.050	7668469
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<10	10	<1.0	1.0	<1.0	1.0	7668469
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<50	50	<5.0	5.0	<5.0	5.0	7668469
Dissolved Tungsten (W)	ug/L	<1.0	5.3	1.0	<10	10	<1.0	1.0	<1.0	1.0	7668469
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<1.0	1.0	<0.10	0.10	5.8	0.10	7668469
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<5.0	5.0	<0.50	0.50	<0.50	0.50	7668469
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<50	50	<5.0	5.0	1600	5.0	7668469
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<10	10	<1.0	1.0	<1.0	1.0	7668469

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
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Terrapure Environmental
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Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBA795		RBA796		RBA797		RBA798		RBA799		
Sampling Date		2021/10/25		2021/10/25		2021/10/25		2021/10/25		2021/10/25		
	UNITS	35-III	RDL	35-V	RDL	35-VI	RDL	35-VII	RDL	P9-I	RDL	QC Batch
Metals												
Dissolved Aluminum (Al)	ug/L	8.0	4.9	<4.9	4.9	<4.9	4.9	6.0	4.9	<25	25	7668469
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<2.5	2.5	7668469
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	15	1.0	<1.0	1.0	<5.0	5.0	7668469
Dissolved Barium (Ba)	ug/L	72	2.0	40	2.0	35	2.0	38	2.0	17	10	7668469
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	<2.0	2.0	7668469
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7668469
Dissolved Boron (B)	ug/L	400	10	81	10	580	10	150	10	4500	50	7668469
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	0.25	0.090	<0.090	0.090	0.10	0.090	<0.45	0.45	7668469
Dissolved Calcium (Ca)	ug/L	650000	1000	140000	200	880000	1000	160000	200	580000	1000	7668469
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<25	25	7668469
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<2.5	2.5	7668469
Dissolved Copper (Cu)	ug/L	<0.90	0.90	4.9	0.90	<0.90	0.90	1.9	0.90	<4.5	4.5	7668469
Dissolved Iron (Fe)	ug/L	1300	100	<100	100	<100	100	<100	100	<500	500	7668469
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<2.5	2.5	7668469
Dissolved Lithium (Li)	ug/L	220	5.0	5.8	5.0	130	5.0	7.2	5.0	1300	25	7668469
Dissolved Magnesium (Mg)	ug/L	51000	50	32000	50	87000	50	25000	50	140000	250	7668469
Dissolved Manganese (Mn)	ug/L	82	2.0	5.6	2.0	73	2.0	8.4	2.0	78	10	7668469
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	2.2	0.50	<0.50	0.50	0.99	0.50	<2.5	2.5	7668469
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	12	1.0	1.4	1.0	1.9	1.0	<5.0	5.0	7668469
Dissolved Phosphorus (P)	ug/L	380	100	<100	100	<100	100	<100	100	<500	500	7668469
Dissolved Potassium (K)	ug/L	17000	200	2000	200	70000	200	4000	200	38000	1000	7668469
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	3.4	2.0	<2.0	2.0	<10	10	7668469
Dissolved Silicon (Si)	ug/L	5800	50	6200	50	6800	50	6400	50	7200	250	7668469
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.45	0.45	7668469
Dissolved Sodium (Na)	ug/L	250000	100	21000	100	1500000	500	20000	100	960000	500	7668469
Dissolved Strontium (Sr)	ug/L	4100	1.0	650	1.0	9700	1.0	820	1.0	8500	5.0	7668469
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	1.2	1.0	<1.0	1.0	<5.0	5.0	7668469
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	0.30	0.050	<0.050	0.050	<0.050	0.050	<0.25	0.25	7668469
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7668469
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<25	25	7668469
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7668469
Dissolved Uranium (U)	ug/L	0.31	0.10	4.2	0.10	<0.10	0.10	2.5	0.10	<0.50	0.50	7668469
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<2.5	2.5	7668469
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	480	5.0	<5.0	5.0	48	5.0	<25	25	7668469
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7668469

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBA800	RBA801		RBA802		RBA803	RBA804	RBA804		
Sampling Date		2021/10/25	2021/10/25		2021/10/25		2021/10/25	2021/10/25	2021/10/25		
	UNITS	P9-II	P9-IIIR	RDL	31-I	RDL	31-II	31-III	31-III Lab-Dup	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	11	<4.9	4.9	12	4.9	5.4	<4.9	<4.9	4.9	7668469
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7668469
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	1.9	1.0	1.9	<1.0	<1.0	1.0	7668469
Dissolved Barium (Ba)	ug/L	26	3.9	2.0	12	2.0	38	6.5	6.2	2.0	7668469
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	<0.40	<0.40	0.40	7668469
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7668469
Dissolved Boron (B)	ug/L	160	550	10	200	10	52	490	520	10	7668469
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	<0.090	<0.090	0.090	7668469
Dissolved Calcium (Ca)	ug/L	160000	220000	200	30000	200	69000	63000	63000	200	7668469
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	<5.0	5.0	7668469
Dissolved Cobalt (Co)	ug/L	1.3	<0.50	0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7668469
Dissolved Copper (Cu)	ug/L	1.1	<0.90	0.90	1.2	0.90	16	<0.90	<0.90	0.90	7668469
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	100	<100	<100	<100	100	7668469
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7668469
Dissolved Lithium (Li)	ug/L	27	47	5.0	9.7	5.0	6.1	31	32	5.0	7668469
Dissolved Magnesium (Mg)	ug/L	43000	36000	50	7600	50	21000	18000	18000	50	7668469
Dissolved Manganese (Mn)	ug/L	71	23	2.0	5.5	2.0	9.3	8.8	8.9	2.0	7668469
Dissolved Molybdenum (Mo)	ug/L	4.9	5.1	0.50	37	0.50	2.1	2.9	2.9	0.50	7668469
Dissolved Nickel (Ni)	ug/L	11	1.5	1.0	9.3	1.0	1.6	<1.0	1.1	1.0	7668469
Dissolved Phosphorus (P)	ug/L	<100	<100	100	430	100	130	<100	<100	100	7668469
Dissolved Potassium (K)	ug/L	3400	14000	200	58000	200	7400	37000	39000	200	7668469
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	<2.0	<2.0	<2.0	2.0	7668469
Dissolved Silicon (Si)	ug/L	4800	4000	50	7500	50	9400	6200	6200	50	7668469
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	<0.090	<0.090	0.090	7668469
Dissolved Sodium (Na)	ug/L	88000	220000	100	950000	500	9200	360000	360000	100	7668469
Dissolved Strontium (Sr)	ug/L	1400	2400	1.0	350	1.0	480	2800	2800	1.0	7668469
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	2.9	1.6	1.0	7668469
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	<0.050	<0.050	<0.050	0.050	7668469
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7668469
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	<5.0	5.0	7668469
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	5.4	1.0	<1.0	1.0	1.0	1.0	7668469
Dissolved Uranium (U)	ug/L	7.2	5.7	0.10	0.46	0.10	0.97	<0.10	<0.10	0.10	7668469
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	2.2	0.50	1.1	<0.50	<0.50	0.50	7668469
Dissolved Zinc (Zn)	ug/L	7.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	<5.0	5.0	7668469
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7668469

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBA805	RBA806			RBA807	RBA808	RBA809		
Sampling Date		2021/10/25	2021/10/25			2021/10/25	2021/10/25	2021/10/25		
	UNITS	33-I	33-II	RDL	QC Batch	43-I	43-II	4-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	14	32	4.9	7668462	<4.9	<4.9	<4.9	4.9	7668469
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7668462	<0.50	<0.50	<0.50	0.50	7668469
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	7668462	<1.0	<1.0	<1.0	1.0	7668469
Dissolved Barium (Ba)	ug/L	30	30	2.0	7668462	11	16	11	2.0	7668469
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	7668462	<0.40	<0.40	<0.40	0.40	7668469
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	7668462	<1.0	<1.0	<1.0	1.0	7668469
Dissolved Boron (B)	ug/L	120	65	10	7668462	760	630	760	10	7668469
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	7668462	<0.090	<0.090	<0.090	0.090	7668469
Dissolved Calcium (Ca)	ug/L	130000	64000	200	7668462	690000	280000	690000	1000	7668469
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	7668462	<5.0	<5.0	<5.0	5.0	7668469
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	7668462	<0.50	<0.50	<0.50	0.50	7668469
Dissolved Copper (Cu)	ug/L	2.6	2.9	0.90	7668462	<0.90	<0.90	<0.90	0.90	7668469
Dissolved Iron (Fe)	ug/L	<100	<100	100	7668462	860	<100	1600	100	7668469
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	7668462	<0.50	<0.50	<0.50	0.50	7668469
Dissolved Lithium (Li)	ug/L	6.5	<5.0	5.0	7668462	190	92	190	5.0	7668469
Dissolved Magnesium (Mg)	ug/L	8100	9800	50	7668462	92000	73000	86000	50	7668469
Dissolved Manganese (Mn)	ug/L	15	25	2.0	7668462	99	59	130	2.0	7668469
Dissolved Molybdenum (Mo)	ug/L	5.2	2.0	0.50	7668462	<0.50	<0.50	<0.50	0.50	7668469
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	7668462	<1.0	<1.0	<1.0	1.0	7668469
Dissolved Phosphorus (P)	ug/L	210	270	100	7668462	<100	<100	<100	100	7668469
Dissolved Potassium (K)	ug/L	21000	10000	200	7668462	31000	16000	30000	200	7668469
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	7668462	<2.0	<2.0	<2.0	2.0	7668469
Dissolved Silicon (Si)	ug/L	4200	4600	50	7668462	4800	4400	4500	50	7668469
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	7668462	<0.090	<0.090	<0.090	0.090	7668469
Dissolved Sodium (Na)	ug/L	84000	26000	100	7668462	460000	210000	440000	100	7668469
Dissolved Strontium (Sr)	ug/L	600	410	1.0	7668462	13000	11000	13000	1.0	7668469
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	7668462	<1.0	<1.0	1.1	1.0	7668469
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7668462	<0.050	<0.050	<0.050	0.050	7668469
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	7668462	<1.0	<1.0	<1.0	1.0	7668469
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7668462	<5.0	<5.0	<5.0	5.0	7668469
Dissolved Tungsten (W)	ug/L	<1.0	1.2	1.0	7668462	<1.0	<1.0	<1.0	1.0	7668469
Dissolved Uranium (U)	ug/L	0.26	0.55	0.10	7668462	<0.10	0.33	<0.10	0.10	7668469
Dissolved Vanadium (V)	ug/L	0.70	1.4	0.50	7668462	<0.50	<0.50	<0.50	0.50	7668469
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7668462	<5.0	<5.0	<5.0	5.0	7668469
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	7668462	<1.0	<1.0	<1.0	1.0	7668469
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBA790	RBA791	RBA791	RBA792	RBA793		RBA796		
Sampling Date		2021/10/25	2021/10/25	2021/10/25	2021/10/25	2021/10/25		2021/10/25		
	UNITS	P10-I	P10-II	P10-II Lab-Dup	P10-III	P10-IV	RDL	35-V	RDL	QC Batch
Semivolatile Organics										
Acenaphthene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Acenaphthylene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Anthracene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Benzo(a)anthracene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Benzo(a)pyrene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Benzo(b/j)fluoranthene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Benzo(g,h,i)perylene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Benzo(k)fluoranthene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
1-Chloronaphthalene	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	<1.0	1.0	7668528
2-Chloronaphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Chrysene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Dibenzo(a,h)anthracene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Fluoranthene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Fluorene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Indeno(1,2,3-cd)pyrene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
1-Methylnaphthalene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
2-Methylnaphthalene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Naphthalene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
5-Nitroacenaphthene	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	<1.0	1.0	7668528
Perylene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Phenanthrene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
Pyrene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	<0.20	0.20	7668528
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Hexachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Pentachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
1,2,3,5-Tetrachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
1,2,4,5-Tetrachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
1,3,5-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2-Chlorophenol	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2	1.2	<0.30	0.30	7668528
4-Chloro-3-Methylphenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
m/p-Cresol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
o-Cresol	ug/L	<2.0	2.6	3.0	<2.0	<2.0	2.0	<0.50	0.50	7668528

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBA790	RBA791	RBA791	RBA792	RBA793		RBA796		
Sampling Date		2021/10/25	2021/10/25	2021/10/25	2021/10/25	2021/10/25		2021/10/25		
	UNITS	P10-I	P10-II	P10-II Lab-Dup	P10-III	P10-IV	RDL	35-V	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,3-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,4-Dichlorophenol	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2	1.2	<0.30	0.30	7668528
2,5-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,6-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
3,4-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
3,5-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,4-Dimethylphenol	ug/L	<2.0	5.2	5.5	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,4-Dinitrophenol	ug/L	<25	<25	<25	<25	<25	25	<6.0	6.0	7668528
4,6-Dinitro-2-methylphenol	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	<2.0	2.0	7668528
2-Nitrophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
4-Nitrophenol	ug/L	<5.6	<5.6	<5.6	<5.6	<5.6	5.6	<1.4	1.4	7668528
Pentachlorophenol	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	<1.0	1.0	7668528
Phenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,3,4,5-Tetrachlorophenol	ug/L	<1.6	<1.6	<1.6	<1.6	<1.6	1.6	<0.40	0.40	7668528
2,3,4,6-Tetrachlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,3,5,6-Tetrachlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,3,4-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,3,5-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,3,6-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,4,5-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
2,4,6-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
3,4,5-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Benzyl butyl phthalate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Biphenyl	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Bis(2-chloroethyl)ether	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Bis(2-chloroethoxy)methane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Bis(2-chloroisopropyl)ether	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Bis(2-ethylhexyl)phthalate	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	<2.0	2.0	7668528
4-Bromophenyl phenyl ether	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2	1.2	<0.30	0.30	7668528
p-Chloroaniline	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	<1.0	1.0	7668528
4-Chlorophenyl phenyl ether	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Di-N-butyl phthalate	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	<2.0	2.0	7668528
di-n-octyl phthalate	ug/L	<3.2	<3.2	<3.2	<3.2	<3.2	3.2	<0.80	0.80	7668528
2,4-Dinitrotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Diethyl phthalate	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	<1.0	1.0	7668528
3,3'-Dichlorobenzidine	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528

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BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBA790	RBA791	RBA791	RBA792	RBA793		RBA796		
Sampling Date		2021/10/25	2021/10/25	2021/10/25	2021/10/25	2021/10/25		2021/10/25		
	UNITS	P10-I	P10-II	P10-II Lab-Dup	P10-III	P10-IV	RDL	35-V	RDL	QC Batch
Dimethyl phthalate	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	<1.0	1.0	7668528
2,6-Dinitrotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Diphenyl Ether	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2	1.2	<0.30	0.30	7668528
Hexachlorobutadiene	ug/L	<1.6	<1.6	<1.6	<1.6	<1.6	1.6	<0.40	0.40	7668528
Hexachlorocyclopentadiene	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	<2.0	2.0	7668528
Hexachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Isophorone	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Nitrobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Nitrosodiphenylamine/Diphenylamine	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	<1.0	1.0	7668528
N-Nitroso-di-n-propylamine	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<0.50	0.50	7668528
Surrogate Recovery (%)										
2,4,6-Tribromophenol	%	85	87	83	76	74		53		7668528
2-Fluorobiphenyl	%	63	58	59	51	63		72		7668528
2-Fluorophenol	%	35	31	31	35	38		25		7668528
D14-Terphenyl	%	107	99	96	97	95		100		7668528
D5-Nitrobenzene	%	67	64	57	55	64		73		7668528
D5-Phenol	%	26	24	25	23	28		19		7668528
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBA797		RBA798	RBA806		
Sampling Date		2021/10/25		2021/10/25	2021/10/25		
	UNITS	35-VI	RDL	35-VII	33-II	RDL	QC Batch
Semivolatile Organics							
Acenaphthene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Acenaphthylene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Anthracene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Benzo(a)anthracene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Benzo(a)pyrene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Benzo(b/j)fluoranthene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Benzo(g,h,i)perylene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Benzo(k)fluoranthene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
1-Chloronaphthalene	ug/L	<4.0	4.0	<1.0	<1.0	1.0	7668528
2-Chloronaphthalene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Chrysene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Dibenzo(a,h)anthracene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Fluoranthene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Fluorene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Indeno(1,2,3-cd)pyrene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
1-Methylnaphthalene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
2-Methylnaphthalene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Naphthalene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
5-Nitroacenaphthene	ug/L	<4.0	4.0	<1.0	<1.0	1.0	7668528
Perylene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Phenanthrene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
Pyrene	ug/L	<0.80	0.80	<0.20	<0.20	0.20	7668528
1,2-Dichlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
1,3-Dichlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
1,4-Dichlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Hexachlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Pentachlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
1,2,3,5-Tetrachlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
1,2,4,5-Tetrachlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
1,2,3-Trichlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
1,2,4-Trichlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
1,3,5-Trichlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2-Chlorophenol	ug/L	<1.2	1.2	<0.30	<0.30	0.30	7668528
4-Chloro-3-Methylphenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
m/p-Cresol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
o-Cresol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
1,2,3,4-Tetrachlorobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



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Bureau Veritas Job #: C1V3595
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Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBA797		RBA798	RBA806		
Sampling Date		2021/10/25		2021/10/25	2021/10/25		
	UNITS	35-VI	RDL	35-VII	33-II	RDL	QC Batch
2,3-Dichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,4-Dichlorophenol	ug/L	<1.2	1.2	<0.30	<0.30	0.30	7668528
2,5-Dichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,6-Dichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
3,4-Dichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
3,5-Dichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,4-Dimethylphenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,4-Dinitrophenol	ug/L	<25	25	<6.0	<6.0	6.0	7668528
4,6-Dinitro-2-methylphenol	ug/L	<8.0	8.0	<2.0	<2.0	2.0	7668528
2-Nitrophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
4-Nitrophenol	ug/L	<5.6	5.6	<1.4	<1.4	1.4	7668528
Pentachlorophenol	ug/L	<4.0	4.0	<1.0	<1.0	1.0	7668528
Phenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,3,4,5-Tetrachlorophenol	ug/L	<1.6	1.6	<0.40	<0.40	0.40	7668528
2,3,4,6-Tetrachlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,3,5,6-Tetrachlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,3,4-Trichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,3,5-Trichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,3,6-Trichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,4,5-Trichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
2,4,6-Trichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
3,4,5-Trichlorophenol	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Benzyl butyl phthalate	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Biphenyl	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Bis(2-chloroethyl)ether	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Bis(2-chloroethoxy)methane	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Bis(2-chloroisopropyl)ether	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Bis(2-ethylhexyl)phthalate	ug/L	<8.0	8.0	<2.0	<2.0	2.0	7668528
4-Bromophenyl phenyl ether	ug/L	<1.2	1.2	<0.30	<0.30	0.30	7668528
p-Chloroaniline	ug/L	<4.0	4.0	<1.0	<1.0	1.0	7668528
4-Chlorophenyl phenyl ether	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Di-N-butyl phthalate	ug/L	<8.0	8.0	<2.0	<2.0	2.0	7668528
di-n-octyl phthalate	ug/L	<3.2	3.2	<0.80	<0.80	0.80	7668528
2,4-Dinitrotoluene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Diethyl phthalate	ug/L	<4.0	4.0	<1.0	<1.0	1.0	7668528
3,3'-Dichlorobenzidine	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Dimethyl phthalate	ug/L	<4.0	4.0	<1.0	<1.0	1.0	7668528
2,6-Dinitrotoluene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBA797		RBA798	RBA806		
Sampling Date		2021/10/25		2021/10/25	2021/10/25		
	UNITS	35-VI	RDL	35-VII	33-II	RDL	QC Batch
Diphenyl Ether	ug/L	<1.2	1.2	<0.30	<0.30	0.30	7668528
Hexachlorobutadiene	ug/L	<1.6	1.6	<0.40	<0.40	0.40	7668528
Hexachlorocyclopentadiene	ug/L	<8.0	8.0	<2.0	<2.0	2.0	7668528
Hexachloroethane	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Isophorone	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Nitrobenzene	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Nitrosodiphenylamine/Diphenylamine	ug/L	<4.0	4.0	<1.0	<1.0	1.0	7668528
N-Nitroso-di-n-propylamine	ug/L	<2.0	2.0	<0.50	<0.50	0.50	7668528
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	90		47	49		7668528
2-Fluorobiphenyl	%	63		76	65		7668528
2-Fluorophenol	%	34		22	18		7668528
D14-Terphenyl	%	101		105	97		7668528
D5-Nitrobenzene	%	70		79	69		7668528
D5-Phenol	%	27		19	18		7668528
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBA790	RBA791	RBA791		RBA792	RBA793		
Sampling Date		2021/10/25	2021/10/25	2021/10/25		2021/10/25	2021/10/25		
	UNITS	P10-I	P10-II	P10-II Lab-Dup	RDL	P10-III	P10-IV	RDL	QC Batch
Volatile Organics									
Acetone (2-Propanone)	ug/L	<50	280	260	50	<10	<10	10	7668556
Benzene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Acrolein	ug/L	<50	<50	<50	50	<10	<10	10	7668563
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Bromomethane	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	<0.50	0.50	7668556
Carbon Tetrachloride	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Chlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Chloroethane	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Chloroform	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Acrylonitrile	ug/L	<25	<25	<25	25	<5.0	<5.0	5.0	7668563
Chloromethane	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	<0.50	0.50	7668556
Dibromochloromethane	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
1,2-Dichloroethane	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
1,2-Dichloropropane	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Ethylbenzene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Ethylene Dibromide	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Methylene Chloride(Dichloromethane)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	<0.50	0.50	7668556
Methyl Ethyl Ketone (2-Butanone)	ug/L	<25	<25	<25	25	<5.0	<5.0	5.0	7668556
Methyl Isobutyl Ketone	ug/L	<25	<25	<25	25	<5.0	<5.0	5.0	7668556
Methyl t-butyl ether (MTBE)	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Styrene	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Tetrachloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Toluene	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1,1-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBA790	RBA791	RBA791		RBA792	RBA793		
Sampling Date		2021/10/25	2021/10/25	2021/10/25		2021/10/25	2021/10/25		
	UNITS	P10-I	P10-II	P10-II Lab-Dup	RDL	P10-III	P10-IV	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Trichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Trichlorofluoromethane (FREON 11)	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Vinyl Chloride	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
p+m-Xylene	ug/L	<0.50	<0.50	<0.50	0.50	0.19	<0.10	0.10	7668556
Methyl Butyl Ketone (2-Hexanone)	ug/L	<25	<25	<25	25	<5.0	<5.0	5.0	7668563
o-Xylene	ug/L	<0.50	<0.50	<0.50	0.50	<0.10	<0.10	0.10	7668556
Total Xylenes	ug/L	<0.50	<0.50	<0.50	0.50	0.19	<0.10	0.10	7668556
Total Trihalomethanes	ug/L	<1.0	<1.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	102	101	105		107	98		7668556
D4-1,2-Dichloroethane	%	110	106	109		110	110		7668556
D8-Toluene	%	95	97	96		98	96		7668556
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



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Bureau Veritas Job #: C1V3595
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VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBA796		RBA797		RBA798	RBA806		
Sampling Date		2021/10/25		2021/10/25		2021/10/25	2021/10/25		
	UNITS	35-V	RDL	35-VI	RDL	35-VII	33-II	RDL	QC Batch
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	10	<50	50	<10	<10	10	7668556
Benzene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Bromodichloromethane	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Acrolein	ug/L	<10	10	<50	50	<10	<10	10	7668563
Bromoform	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
Bromomethane	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	0.50	7668556
Carbon Tetrachloride	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Chlorobenzene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Chloroethane	ug/L	<2.0 (1)	2.0	<1.0	1.0	<0.20	<0.20	0.20	7668556
Chloroform	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Acrylonitrile	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	5.0	7668563
Chloromethane	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	0.50	7668556
Dibromochloromethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,2-Dichlorobenzene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,3-Dichlorobenzene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,4-Dichlorobenzene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1-Dichloroethane	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
1,2-Dichloroethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1-Dichloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
cis-1,2-Dichloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
trans-1,2-Dichloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
1,2-Dichloropropane	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
cis-1,3-Dichloropropene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
trans-1,3-Dichloropropene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
Ethylbenzene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Ethylene Dibromide	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
Methylene Chloride(Dichloromethane)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	0.50	7668556
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	5.0	7668556
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	5.0	7668556
Methyl t-butyl ether (MTBE)	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
Styrene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1,2,2-Tetrachloroethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
Tetrachloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Toluene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
1,1,1-Trichloroethane	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) The detection limit was raised due to background interferences.									



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBA796		RBA797		RBA798	RBA806		
Sampling Date		2021/10/25		2021/10/25		2021/10/25	2021/10/25		
	UNITS	35-V	RDL	35-VI	RDL	35-VII	33-II	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
Trichloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
Vinyl Chloride	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
p+m-Xylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	5.0	7668563
o-Xylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Total Xylenes	ug/L	<0.10	0.10	<0.50	0.50	<0.10	<0.10	0.10	7668556
Total Trihalomethanes	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	0.20	7668556
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	101		102		103	102		7668556
D4-1,2-Dichloroethane	%	109		109		107	107		7668556
D8-Toluene	%	95		96		97	96		7668556
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



BUREAU VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBA790		RBA791		RBA792		RBA793	RBA796		
Sampling Date		2021/10/25		2021/10/25		2021/10/25		2021/10/25	2021/10/25		
	UNITS	P10-I	RDL	P10-II	RDL	P10-III	RDL	P10-IV	35-V	RDL	QC Batch
Calculated Parameters											
Chlordane (Total)	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7660987
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7660987
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7660987
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7660987
Total Endosulfan	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7660987
Total PCB	ug/L	<0.05	0.05	<0.5	0.5	<0.5	0.5	<0.05	<0.05	0.05	7660987
Pesticides & Herbicides											
Aldrin	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Dieldrin	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
a-Chlordane	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
g-Chlordane	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
o,p-DDD	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
p,p-DDD	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
o,p-DDE	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
p,p-DDE	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
o,p-DDT	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
p,p-DDT	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Lindane	ug/L	<0.003	0.003	<0.03	0.03	<0.03	0.03	<0.003	<0.003	0.003	7667749
Endosulfan I (alpha)	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Endosulfan II (beta)	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Endrin	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Heptachlor	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Heptachlor epoxide	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Hexachlorobenzene	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Hexachlorobutadiene	ug/L	<0.009	0.009	<0.09	0.09	<0.09	0.09	<0.009	<0.009	0.009	7667749
Hexachloroethane	ug/L	<0.01	0.01	<0.1	0.1	<0.1	0.1	<0.01	<0.01	0.01	7667749
Methoxychlor	ug/L	<0.01	0.01	<0.1	0.1	<0.1	0.1	<0.01	<0.01	0.01	7667749
Aroclor 1242	ug/L	<0.05	0.05	<0.5	0.5	<0.5	0.5	<0.05	<0.05	0.05	7667749
Aroclor 1248	ug/L	<0.05	0.05	<0.5	0.5	<0.05	0.05	<0.05	<0.05	0.05	7667749
Aroclor 1254	ug/L	<0.05	0.05	<0.5	0.5	<0.05	0.05	<0.05	<0.05	0.05	7667749
Aroclor 1260	ug/L	<0.05	0.05	<0.5	0.5	<0.05	0.05	<0.05	<0.05	0.05	7667749
alpha-BHC	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
beta-BHC	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Endrin aldehyde	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Endrin ketone	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Mirex	ug/L	<0.005	0.005	<0.05	0.05	<0.05	0.05	<0.005	<0.005	0.005	7667749
Toxaphene	ug/L	<0.2	0.2	<2	2	<2	2	<0.2	<0.2	0.2	7667749
RDL = Reportable Detection Limit QC Batch = Quality Control Batch											



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBA790		RBA791		RBA792		RBA793	RBA796		
Sampling Date		2021/10/25		2021/10/25		2021/10/25		2021/10/25	2021/10/25		
	UNITS	P10-I	RDL	P10-II	RDL	P10-III	RDL	P10-IV	35-V	RDL	QC Batch
Surrogate Recovery (%)											
2,4,5,6-Tetrachloro-m-xylene	%	56		72		59		74	65		7667749
Decachlorobiphenyl	%	76		115		83		106	95		7667749
RDL = Reportable Detection Limit QC Batch = Quality Control Batch											



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBA797	RBA798	RBA806		
Sampling Date		2021/10/25	2021/10/25	2021/10/25		
	UNITS	35-VI	35-VII	33-II	RDL	QC Batch
Calculated Parameters						
Chlordane (Total)	ug/L	<0.005	<0.005	<0.005	0.005	7660987
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7660987
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7660987
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7660987
Total Endosulfan	ug/L	<0.005	<0.005	<0.005	0.005	7660987
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	7660987
Pesticides & Herbicides						
Aldrin	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Dieldrin	ug/L	<0.005	<0.005	<0.005	0.005	7667749
a-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	7667749
g-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	7667749
o,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7667749
p,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7667749
o,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7667749
p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7667749
o,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7667749
p,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Lindane	ug/L	<0.003	<0.003	<0.003	0.003	7667749
Endosulfan I (alpha)	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Endosulfan II (beta)	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Endrin	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Heptachlor	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Hexachlorobenzene	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Hexachlorobutadiene	ug/L	<0.009	<0.009	<0.009	0.009	7667749
Hexachloroethane	ug/L	<0.01	<0.01	<0.01	0.01	7667749
Methoxychlor	ug/L	<0.01	<0.01	<0.01	0.01	7667749
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	7667749
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	7667749
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	7667749
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	7667749
alpha-BHC	ug/L	<0.005	<0.005	<0.005	0.005	7667749
beta-BHC	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Endrin aldehyde	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Endrin ketone	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Mirex	ug/L	<0.005	<0.005	<0.005	0.005	7667749
Toxaphene	ug/L	<0.2	<0.2	<0.2	0.2	7667749
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBA797	RBA798	RBA806		
Sampling Date		2021/10/25	2021/10/25	2021/10/25		
	UNITS	35-VI	35-VII	33-II	RDL	QC Batch
Surrogate Recovery (%)						
2,4,5,6-Tetrachloro-m-xylene	%	63	60	62		7667749
Decachlorobiphenyl	%	94	74	84		7667749
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBA790
Sample ID: P10-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
OC Pesticides Summed Parameters	CALC	7660987	N/A	2021/10/29	Automated Statchk
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668540	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBA791
Sample ID: P10-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/10/30	Dawn Howard
OC Pesticides Summed Parameters	CALC	7660987	N/A	2021/10/29	Automated Statchk
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBA791 Dup
Sample ID: P10-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBA792
Sample ID: P10-III
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
OC Pesticides Summed Parameters	CALC	7660987	N/A	2021/10/29	Automated Statchk
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/11/01	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/DIR	7668592	N/A	2021/10/30	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBA792 Dup
Sample ID: P10-III
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBA793
Sample ID: P10-IV
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
OC Pesticides Summed Parameters	CALC	7660987	N/A	2021/10/29	Automated Statchk
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBA794
Sample ID: G24
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/01	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBA794 Dup
Sample ID: G24
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal

Bureau Veritas ID: RBA795
Sample ID: 35-III
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA796
Sample ID: 35-V
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/10/30	Dawn Howard
OC Pesticides Summed Parameters	CALC	7660987	N/A	2021/10/29	Automated Statchk
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668530	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/01	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean



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VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBA796
Sample ID: 35-V
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBA797
Sample ID: 35-VI
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
OC Pesticides Summed Parameters	CALC	7660987	N/A	2021/10/29	Automated Statchk
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBA798
Sample ID: 35-VII
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/10/30	Dawn Howard
OC Pesticides Summed Parameters	CALC	7660987	N/A	2021/10/29	Automated Statchk
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668558	N/A	2021/10/29	Deonarine Ramnarine



TEST SUMMARY

Bureau Veritas ID: RBA798
Sample ID: 35-VII
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7668077	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBA799
Sample ID: P9-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668530	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA800
Sample ID: P9-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668558	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi



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VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBA800
Sample ID: P9-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA800 Dup
Sample ID: P9-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur

Bureau Veritas ID: RBA801
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/01	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA802
Sample ID: 31-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668558	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBA802
Sample ID: 31-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA802 Dup
Sample ID: 31-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan

Bureau Veritas ID: RBA803
Sample ID: 31-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7663213	2021/10/27	2021/11/01	Surleen Kaur Romana
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA804
Sample ID: 31-III
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal



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Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBA804
Sample ID: 31-III
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668558	N/A	2021/11/01	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA804 Dup
Sample ID: 31-III
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti

Bureau Veritas ID: RBA805
Sample ID: 33-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/10/29	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668462	N/A	2021/10/29	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7668077	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687931	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/01	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA805 Dup
Sample ID: 33-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

**TEST SUMMARY**

Bureau Veritas ID: RBA806
Sample ID: 33-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7663213	2021/10/27	2021/11/01	Surleen Kaur Romana
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/10/29	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668462	N/A	2021/10/29	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7669119	N/A	2021/11/01	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/10/30	Dawn Howard
OC Pesticides Summed Parameters	CALC	7660987	N/A	2021/10/29	Automated Statchk
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/01	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7668556	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7668563	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBA806 Dup
Sample ID: 33-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/01	Rajni Tyagi

Bureau Veritas ID: RBA807
Sample ID: 43-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669119	N/A	2021/11/01	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7668077	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur



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Bureau Veritas Job #: C1V3595
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TEST SUMMARY

Bureau Veritas ID: RBA807
Sample ID: 43-I
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA808
Sample ID: 43-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7668044	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7668026	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/01	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione

Bureau Veritas ID: RBA809
Sample ID: 4-II
Matrix: Water

Collected: 2021/10/25
Shipped:
Received: 2021/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667962	N/A	2021/10/30	Surinder Rai
Anions	IC	7667915	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7667961	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667956	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7662638	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668469	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7669107	N/A	2021/10/30	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667843	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667967	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668558	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667947	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7667522	2021/10/28	2021/10/29	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7668586	2021/10/29	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7668592	N/A	2021/10/30	Julianna Castiglione



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
Package 2	2.7°C
Package 3	5.0°C
Package 4	4.3°C
Package 5	2.3°C
Package 6	3.7°C
Package 7	5.7°C

ABN Analysis: Detection limit was raised for 2,4-Dinitrophenol due to matrix interference.

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RBA790 [P10-I] : VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Sample RBA791 [P10-II] : VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

OC Pesticide Analysis: Due to the nature of the sample matrix, a smaller portion of the sample was extracted. Detection limits were adjusted accordingly.

Sample RBA792 [P10-III] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

OC Pesticide Analysis: Due to the nature of the sample matrix, a smaller portion of the sample was extracted. Detection limits were adjusted accordingly.

Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample RBA793 [P10-IV] : ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Sample RBA797 [35-VI] : VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Sample RBA799 [P9-I] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



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Bureau Veritas Job #: C1V3595

Report Date: 2021/11/10

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667749	2,4,5,6-Tetrachloro-m-xylene	2021/10/30	83	50 - 130	77	50 - 130	82	%				
7667749	Decachlorobiphenyl	2021/10/30	105	50 - 130	101	50 - 130	101	%				
7668528	2,4,6-Tribromophenol	2021/10/30	89	10 - 130	89	10 - 130	86	%				
7668528	2-Fluorobiphenyl	2021/10/30	55	30 - 130	62	30 - 130	57	%				
7668528	2-Fluorophenol	2021/10/30	34	10 - 130	46	10 - 130	35	%				
7668528	D14-Terphenyl	2021/10/30	100	30 - 130	110	30 - 130	105	%				
7668528	D5-Nitrobenzene	2021/10/30	61	30 - 130	79	30 - 130	69	%				
7668528	D5-Phenol	2021/10/30	27	10 - 130	33	10 - 130	26	%				
7668556	4-Bromofluorobenzene	2021/10/30	100	70 - 130	103	70 - 130	97	%				
7668556	D4-1,2-Dichloroethane	2021/10/30	100	70 - 130	106	70 - 130	103	%				
7668556	D8-Toluene	2021/10/30	100	70 - 130	97	70 - 130	99	%				
7663213	Total BOD	2021/11/01					<2	mg/L	3.1	30	106	80 - 120
7667522	Total Dissolved Solids	2021/10/29					<10	mg/L	4.1	25	98	90 - 110
7667749	a-Chlordane	2021/11/01	54	50 - 130	87	50 - 130	<0.005	ug/L	NC	30		
7667749	Aldrin	2021/11/01	60	50 - 130	79	50 - 130	<0.005	ug/L	NC	30		
7667749	alpha-BHC	2021/11/01	72	30 - 130	87	30 - 130	<0.005	ug/L	NC	40		
7667749	Aroclor 1242	2021/11/01					<0.05	ug/L	NC	30		
7667749	Aroclor 1248	2021/11/01					<0.05	ug/L	NC	30		
7667749	Aroclor 1254	2021/11/01					<0.05	ug/L	NC	30		
7667749	Aroclor 1260	2021/11/01					<0.05	ug/L	NC	30		
7667749	beta-BHC	2021/11/01	61	30 - 130	76	30 - 130	<0.005	ug/L	NC	40		
7667749	Dieldrin	2021/11/01	77	50 - 130	98	50 - 130	<0.005	ug/L	NC	30		
7667749	Endosulfan I (alpha)	2021/11/01	80	50 - 130	94	50 - 130	<0.005	ug/L	NC	30		
7667749	Endosulfan II (beta)	2021/11/01	72	50 - 130	84	50 - 130	<0.005	ug/L	NC	30		
7667749	Endrin aldehyde	2021/11/01	72	30 - 130	77	30 - 130	<0.005	ug/L	NC	40		
7667749	Endrin ketone	2021/11/01	81	30 - 130	101	30 - 130	<0.005	ug/L	NC	40		
7667749	Endrin	2021/11/01	80	50 - 130	101	50 - 130	<0.005	ug/L	NC	30		
7667749	g-Chlordane	2021/11/01	65	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7667749	Heptachlor epoxide	2021/11/01	68	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7667749	Heptachlor	2021/11/01	68	50 - 130	79	50 - 130	<0.005	ug/L	NC	30		
7667749	Hexachlorobenzene	2021/11/01	70	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667749	Hexachlorobutadiene	2021/11/01	66	50 - 130	77	50 - 130	<0.009	ug/L	NC	30		
7667749	Hexachloroethane	2021/11/01	59	50 - 130	68	50 - 130	<0.01	ug/L	NC	30		
7667749	Lindane	2021/11/01	75	50 - 130	92	50 - 130	<0.003	ug/L	NC	30		
7667749	Methoxychlor	2021/11/01	90	50 - 130	104	50 - 130	<0.01	ug/L	NC	30		
7667749	Mirex	2021/11/01	67	30 - 130	92	30 - 130	<0.005	ug/L	NC	40		
7667749	o,p-DDD	2021/11/01	79	50 - 130	103	50 - 130	<0.005	ug/L	NC	30		
7667749	o,p-DDE	2021/11/01	81	50 - 130	103	50 - 130	<0.005	ug/L	NC	30		
7667749	o,p-DDT	2021/11/01	81	50 - 130	105	50 - 130	<0.005	ug/L	NC	30		
7667749	p,p-DDD	2021/11/01	87	50 - 130	109	50 - 130	<0.005	ug/L	NC	30		
7667749	p,p-DDE	2021/11/01	92	50 - 130	96	50 - 130	<0.005	ug/L	NC	30		
7667749	p,p-DDT	2021/11/01	86	50 - 130	103	50 - 130	<0.005	ug/L	NC	30		
7667749	Toxaphene	2021/11/01					<0.2	ug/L	NC	40		
7667843	Nitrate (N)	2021/10/29	97	80 - 120	93	80 - 120	<0.10	mg/L	1.7	20		
7667843	Nitrite (N)	2021/10/29	102	80 - 120	104	80 - 120	<0.010	mg/L	2.7	20		
7667915	Dissolved Bromide (Br-)	2021/11/01	107	80 - 120	105	80 - 120	<1.0	mg/L				
7667915	Dissolved Chloride (Cl-)	2021/11/01	101	80 - 120	101	70 - 130	<1.0	mg/L	NC	20		
7667915	Dissolved Sulphate (SO4)	2021/11/01	103	80 - 120	103	80 - 120	<1.0	mg/L	20	20		
7667947	Orthophosphate (P)	2021/10/29	112	75 - 125	100	80 - 120	<0.010	mg/L	6.8	25		
7667956	Fluoride (F-)	2021/10/30	89	80 - 120	95	80 - 120	<0.10	mg/L	1.4	20		
7667961	Conductivity	2021/10/30			98	85 - 115	<1.0	umho/cm	11	25		
7667962	Alkalinity (Total as CaCO3)	2021/10/30			95	85 - 115	<1.0	mg/L	1.8	20		
7667967	pH	2021/10/30			102	98 - 103			0.27	N/A		
7668026	Nitrate (N)	2021/10/29	100	80 - 120	100	80 - 120	<0.10	mg/L	3.2	20		
7668026	Nitrite (N)	2021/10/29	103	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
7668044	Dissolved Bromide (Br-)	2021/11/01	105	80 - 120	106	80 - 120	<1.0	mg/L	NC	20		
7668044	Dissolved Chloride (Cl-)	2021/11/01	NC	80 - 120	100	70 - 130	<1.0	mg/L	0.12	20		
7668044	Dissolved Sulphate (SO4)	2021/11/01	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.33	20		
7668077	Orthophosphate (P)	2021/10/29	146 (1)	75 - 125	100	80 - 120	<0.010	mg/L	3.1	25		
7668462	Dissolved Aluminum (Al)	2021/10/29	104	80 - 120	106	80 - 120	<4.9	ug/L	NC	20		
7668462	Dissolved Antimony (Sb)	2021/10/29	105	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		



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QUALITY ASSURANCE REPORT(CONT'D)

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668462	Dissolved Arsenic (As)	2021/10/29	100	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7668462	Dissolved Barium (Ba)	2021/10/29	103	80 - 120	107	80 - 120	<2.0	ug/L	1.5	20		
7668462	Dissolved Beryllium (Be)	2021/10/29	106	80 - 120	103	80 - 120	<0.40	ug/L	NC	20		
7668462	Dissolved Bismuth (Bi)	2021/10/29	94	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7668462	Dissolved Boron (B)	2021/10/29	99	80 - 120	98	80 - 120	<10	ug/L	2.5	20		
7668462	Dissolved Cadmium (Cd)	2021/10/29	103	80 - 120	104	80 - 120	<0.090	ug/L	NC	20		
7668462	Dissolved Calcium (Ca)	2021/10/29	NC	80 - 120	105	80 - 120	<200	ug/L	1.1	20		
7668462	Dissolved Chromium (Cr)	2021/10/29	96	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7668462	Dissolved Cobalt (Co)	2021/10/29	98	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7668462	Dissolved Copper (Cu)	2021/10/29	97	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7668462	Dissolved Iron (Fe)	2021/10/29	98	80 - 120	102	80 - 120	<100	ug/L	1.2	20		
7668462	Dissolved Lead (Pb)	2021/10/29	101	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7668462	Dissolved Lithium (Li)	2021/10/29	127 (1)	80 - 120	121 (1)	80 - 120	<5.0	ug/L	0.030	20		
7668462	Dissolved Magnesium (Mg)	2021/10/29	NC	80 - 120	105	80 - 120	<50	ug/L	2.2	20		
7668462	Dissolved Manganese (Mn)	2021/10/29	100	80 - 120	104	80 - 120	<2.0	ug/L	1.3	20		
7668462	Dissolved Molybdenum (Mo)	2021/10/29	103	80 - 120	99	80 - 120	<0.50	ug/L	18	20		
7668462	Dissolved Nickel (Ni)	2021/10/29	96	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7668462	Dissolved Phosphorus (P)	2021/10/29	105	80 - 120	114	80 - 120	<100	ug/L	NC	20		
7668462	Dissolved Potassium (K)	2021/10/29	104	80 - 120	105	80 - 120	<200	ug/L	1.4	20		
7668462	Dissolved Selenium (Se)	2021/10/29	96	80 - 120	103	80 - 120	<2.0	ug/L	NC	20		
7668462	Dissolved Silicon (Si)	2021/10/29	101	80 - 120	105	80 - 120	<50	ug/L	1.3	20		
7668462	Dissolved Silver (Ag)	2021/10/29	91	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7668462	Dissolved Sodium (Na)	2021/10/29	NC	80 - 120	103	80 - 120	<100	ug/L	1.6	20		
7668462	Dissolved Strontium (Sr)	2021/10/29	NC	80 - 120	103	80 - 120	<1.0	ug/L	1.0	20		
7668462	Dissolved Tellurium (Te)	2021/10/29	96	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7668462	Dissolved Thallium (Tl)	2021/10/29	106	80 - 120	107	80 - 120	<0.050	ug/L	NC	20		
7668462	Dissolved Tin (Sn)	2021/10/29	105	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7668462	Dissolved Titanium (Ti)	2021/10/29	101	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
7668462	Dissolved Tungsten (W)	2021/10/29	103	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7668462	Dissolved Uranium (U)	2021/10/29	102	80 - 120	103	80 - 120	<0.10	ug/L	3.7	20		
7668462	Dissolved Vanadium (V)	2021/10/29	98	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668462	Dissolved Zinc (Zn)	2021/10/29	97	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
7668462	Dissolved Zirconium (Zr)	2021/10/29	109	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
7668469	Dissolved Aluminum (Al)	2021/11/03	102	80 - 120	101	80 - 120	<4.9	ug/L	NC	20		
7668469	Dissolved Antimony (Sb)	2021/11/03	97	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7668469	Dissolved Arsenic (As)	2021/11/03	98	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7668469	Dissolved Barium (Ba)	2021/11/03	97	80 - 120	102	80 - 120	<2.0	ug/L	3.8	20		
7668469	Dissolved Beryllium (Be)	2021/11/03	98	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7668469	Dissolved Bismuth (Bi)	2021/11/03	87	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7668469	Dissolved Boron (B)	2021/11/03	93	80 - 120	99	80 - 120	<10	ug/L	5.5	20		
7668469	Dissolved Cadmium (Cd)	2021/11/03	98	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7668469	Dissolved Calcium (Ca)	2021/11/03	NC	80 - 120	100	80 - 120	<200	ug/L	0.84	20		
7668469	Dissolved Chromium (Cr)	2021/11/03	94	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7668469	Dissolved Cobalt (Co)	2021/11/03	96	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7668469	Dissolved Copper (Cu)	2021/11/03	88	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
7668469	Dissolved Iron (Fe)	2021/11/03	100	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7668469	Dissolved Lead (Pb)	2021/11/03	94	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7668469	Dissolved Lithium (Li)	2021/11/03	103	80 - 120	103	80 - 120	<5.0	ug/L	2.9	20		
7668469	Dissolved Magnesium (Mg)	2021/11/03	105	80 - 120	102	80 - 120	<50	ug/L	1.1	20		
7668469	Dissolved Manganese (Mn)	2021/11/03	98	80 - 120	98	80 - 120	<2.0	ug/L	0.49	20		
7668469	Dissolved Molybdenum (Mo)	2021/11/03	99	80 - 120	100	80 - 120	<0.50	ug/L	2.1	20		
7668469	Dissolved Nickel (Ni)	2021/11/03	94	80 - 120	99	80 - 120	<1.0	ug/L	6.4	20		
7668469	Dissolved Phosphorus (P)	2021/11/03	109	80 - 120	113	80 - 120	<100	ug/L	NC	20		
7668469	Dissolved Potassium (K)	2021/11/03	NC	80 - 120	101	80 - 120	<200	ug/L	3.1	20		
7668469	Dissolved Selenium (Se)	2021/11/03	64 (1)	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7668469	Dissolved Silicon (Si)	2021/11/03	105	80 - 120	101	80 - 120	<50	ug/L	1.2	20		
7668469	Dissolved Silver (Ag)	2021/11/03	80	80 - 120	74 (1)	80 - 120	<0.090	ug/L	NC	20		
7668469	Dissolved Sodium (Na)	2021/11/03	NC	80 - 120	97	80 - 120	<100	ug/L	1.4	20		
7668469	Dissolved Strontium (Sr)	2021/11/03	NC	80 - 120	96	80 - 120	<1.0	ug/L	0.62	20		
7668469	Dissolved Tellurium (Te)	2021/11/03	80	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7668469	Dissolved Thallium (Tl)	2021/11/03	95	80 - 120	103	80 - 120	<0.050	ug/L	NC	20		
7668469	Dissolved Tin (Sn)	2021/11/03	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668469	Dissolved Titanium (Ti)	2021/11/03	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7668469	Dissolved Tungsten (W)	2021/11/03	99	80 - 120	98	80 - 120	<1.0	ug/L	3.3	20		
7668469	Dissolved Uranium (U)	2021/11/03	99	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
7668469	Dissolved Vanadium (V)	2021/11/03	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7668469	Dissolved Zinc (Zn)	2021/11/03	96	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7668469	Dissolved Zirconium (Zr)	2021/11/03	103	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7668528	1,2,3,4-Tetrachlorobenzene	2021/10/30	54	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2,3,5-Tetrachlorobenzene	2021/10/30	54	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2,3-Trichlorobenzene	2021/10/30	48	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2,4,5-Tetrachlorobenzene	2021/10/30	54	30 - 130	49	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2,4-Trichlorobenzene	2021/10/30	53	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2-Dichlorobenzene	2021/10/30	52	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7668528	1,3,5-Trichlorobenzene	2021/10/30	53	30 - 130	70	30 - 130	<0.50	ug/L	NC	40		
7668528	1,3-Dichlorobenzene	2021/10/30	44	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7668528	1,4-Dichlorobenzene	2021/10/30	48	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7668528	1-Chloronaphthalene	2021/10/30	56	30 - 130	57	30 - 130	<1.0	ug/L	NC	40		
7668528	1-Methylnaphthalene	2021/10/30	74	30 - 130	85	30 - 130	<0.20	ug/L	NC	40		
7668528	2,3,4,5-Tetrachlorophenol	2021/10/30	84	10 - 130	88	10 - 130	<0.40	ug/L	NC	40		
7668528	2,3,4,6-Tetrachlorophenol	2021/10/30	87	10 - 130	93	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3,4-Trichlorophenol	2021/10/30	84	10 - 130	89	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3,5,6-Tetrachlorophenol	2021/10/30	93	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3,5-Trichlorophenol	2021/10/30	100	10 - 130	98	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3,6-Trichlorophenol	2021/10/30	84	10 - 130	86	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3-Dichlorophenol	2021/10/30	73	10 - 130	91	10 - 130	<0.50	ug/L	NC	40		
7668528	2,4,5-Trichlorophenol	2021/10/30	97	10 - 130	102	10 - 130	<0.50	ug/L	NC	40		
7668528	2,4,6-Trichlorophenol	2021/10/30	87	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7668528	2,4-Dichlorophenol	2021/10/30	78	10 - 130	96	10 - 130	<0.30	ug/L	NC	40		
7668528	2,4-Dimethylphenol	2021/10/30	38	10 - 130	43	10 - 130	<0.50	ug/L	6.0	40		
7668528	2,4-Dinitrophenol	2021/10/30	29	10 - 130	70	10 - 130	<2.0	ug/L	NC	40		
7668528	2,4-Dinitrotoluene	2021/10/30	97	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7668528	2,5-Dichlorophenol	2021/10/30	82	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668528	2,6-Dichlorophenol	2021/10/30	70	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7668528	2,6-Dinitrotoluene	2021/10/30	90	30 - 130	97	30 - 130	<0.50	ug/L	NC	40		
7668528	2-Chloronaphthalene	2021/10/30	70	30 - 130	72	30 - 130	<0.50	ug/L	NC	40		
7668528	2-Chlorophenol	2021/10/30	69	10 - 130	86	10 - 130	<0.30	ug/L	NC	40		
7668528	2-Methylnaphthalene	2021/10/30	66	30 - 130	76	30 - 130	<0.20	ug/L	NC	40		
7668528	2-Nitrophenol	2021/10/30	72	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7668528	3,3'-Dichlorobenzidine	2021/10/30	4.2 (1)	30 - 130	97	30 - 130	<0.50	ug/L	NC	40		
7668528	3,4,5-Trichlorophenol	2021/10/30	93	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7668528	3,4-Dichlorophenol	2021/10/30	93	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7668528	3,5-Dichlorophenol	2021/10/30	98	10 - 130	95	10 - 130	<0.50	ug/L	NC	40		
7668528	4,6-Dinitro-2-methylphenol	2021/10/30	80	10 - 130	92	10 - 130	<2.0	ug/L	NC	40		
7668528	4-Bromophenyl phenyl ether	2021/10/30	93	30 - 130	85	30 - 130	<0.30	ug/L	NC	40		
7668528	4-Chloro-3-Methylphenol	2021/10/30	82	10 - 130	91	10 - 130	<0.50	ug/L	NC	40		
7668528	4-Chlorophenyl phenyl ether	2021/10/30	76	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7668528	4-Nitrophenol	2021/10/30	24	10 - 130	25	10 - 130	<1.4	ug/L	NC	40		
7668528	5-Nitroacenaphthene	2021/10/30	93	30 - 130	94	30 - 130	<1.0	ug/L	NC	40		
7668528	Acenaphthene	2021/10/30	82	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7668528	Acenaphthylene	2021/10/30	81	30 - 130	83	30 - 130	<0.20	ug/L	NC	40		
7668528	Anthracene	2021/10/30	94	30 - 130	96	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(a)anthracene	2021/10/30	106	30 - 130	114	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(a)pyrene	2021/10/30	87	30 - 130	97	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(b,j)fluoranthene	2021/10/30	100	30 - 130	107	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(g,h,i)perylene	2021/10/30	100	30 - 130	107	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(k)fluoranthene	2021/10/30	101	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzyl butyl phthalate	2021/10/30	99	30 - 130	110	30 - 130	<0.50	ug/L	NC	40		
7668528	Biphenyl	2021/10/30	70	30 - 130	74	30 - 130	<0.50	ug/L	NC	40		
7668528	Bis(2-chloroethoxy)methane	2021/10/30	60	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7668528	Bis(2-chloroethyl)ether	2021/10/30	65	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7668528	Bis(2-chloroisopropyl)ether	2021/10/30	67	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		
7668528	Bis(2-ethylhexyl)phthalate	2021/10/30	99	30 - 130	111	30 - 130	<2.0	ug/L	NC	40		
7668528	Chrysene	2021/10/30	104	30 - 130	112	30 - 130	<0.20	ug/L	NC	40		



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7668528	Dibenzo(a,h)anthracene	2021/10/30	110	30 - 130	109	30 - 130	<0.20	ug/L	NC	40		
7668528	Diethyl phthalate	2021/10/30	87	30 - 130	89	30 - 130	<1.0	ug/L	NC	40		
7668528	Dimethyl phthalate	2021/10/30	83	30 - 130	89	30 - 130	<1.0	ug/L	NC	40		
7668528	Di-N-butyl phthalate	2021/10/30	99	30 - 130	106	30 - 130	<2.0	ug/L	NC	40		
7668528	di-n-octyl phthalate	2021/10/30	104	30 - 130	117	30 - 130	<0.80	ug/L	NC	40		
7668528	Diphenyl Ether	2021/10/30	75	30 - 130	76	30 - 130	<0.30	ug/L	NC	40		
7668528	Fluoranthene	2021/10/30	103	30 - 130	107	30 - 130	<0.20	ug/L	NC	40		
7668528	Fluorene	2021/10/30	93	30 - 130	93	30 - 130	<0.20	ug/L	NC	40		
7668528	Hexachlorobenzene	2021/10/30	86	30 - 130	90	30 - 130	<0.50	ug/L	NC	40		
7668528	Hexachlorobutadiene	2021/10/30	40	30 - 130	53	30 - 130	<0.40	ug/L	NC	40		
7668528	Hexachlorocyclopentadiene	2021/10/30	31	30 - 130	30	30 - 130	<2.0	ug/L	NC	40		
7668528	Hexachloroethane	2021/10/30	36	30 - 130	52	30 - 130	<0.50	ug/L	NC	40		
7668528	Indeno(1,2,3-cd)pyrene	2021/10/30	106	30 - 130	112	30 - 130	<0.20	ug/L	NC	40		
7668528	Isophorone	2021/10/30	63	30 - 130	82	30 - 130	<0.50	ug/L	NC	40		
7668528	m/p-Cresol	2021/10/30	61	10 - 130	69	10 - 130	<0.50	ug/L	NC	40		
7668528	Naphthalene	2021/10/30	55	30 - 130	58	30 - 130	<0.20	ug/L	NC	40		
7668528	Nitrobenzene	2021/10/30	69	30 - 130	85	30 - 130	<0.50	ug/L	NC	40		
7668528	Nitrosodiphenylamine/Diphenylamine	2021/10/30	110	30 - 130	118	30 - 130	<1.0	ug/L	NC	40		
7668528	N-Nitroso-di-n-propylamine	2021/10/30	83	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7668528	o-Cresol	2021/10/30	61	10 - 130	68	10 - 130	<0.50	ug/L	14	40		
7668528	p-Chloroaniline	2021/10/30	47	30 - 130	95	30 - 130	<1.0	ug/L	NC	40		
7668528	Pentachlorobenzene	2021/10/30	67	30 - 130	60	30 - 130	<0.50	ug/L	NC	40		
7668528	Pentachlorophenol	2021/10/30	48	10 - 130	66	10 - 130	<1.0	ug/L	NC	40		
7668528	Perylene	2021/10/30	95	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7668528	Phenanthrene	2021/10/30	99	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7668528	Phenol	2021/10/30	30	10 - 130	34	10 - 130	<0.50	ug/L	NC	40		
7668528	Pyrene	2021/10/30	107	30 - 130	114	30 - 130	<0.20	ug/L	NC	40		
7668530	Phenols-4AAP	2021/10/29	101	80 - 120	102	80 - 120	<0.0010	mg/L	0	20		
7668540	Phenols-4AAP	2021/10/29	99	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
7668551	Phenols-4AAP	2021/10/29	98	80 - 120	100	80 - 120	<0.0010	mg/L	8.0	20		
7668556	1,1,1,2-Tetrachloroethane	2021/10/30	106	70 - 130	109	70 - 130	<0.20	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668556	1,1,1-Trichloroethane	2021/10/30	107	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7668556	1,1,2,2-Tetrachloroethane	2021/10/30	92	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7668556	1,1,2-Trichloroethane	2021/10/30	99	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
7668556	1,1-Dichloroethane	2021/10/30	95	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7668556	1,1-Dichloroethylene	2021/10/30	121	70 - 130	109	70 - 130	<0.10	ug/L	NC	30		
7668556	1,2-Dichlorobenzene	2021/10/30	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7668556	1,2-Dichloroethane	2021/10/30	92	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
7668556	1,2-Dichloropropane	2021/10/30	97	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7668556	1,3-Dichlorobenzene	2021/10/30	102	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7668556	1,4-Dichlorobenzene	2021/10/30	120	70 - 130	117	70 - 130	<0.20	ug/L	NC	30		
7668556	Acetone (2-Propanone)	2021/10/30	122	60 - 140	110	60 - 140	<10	ug/L	6.2	30		
7668556	Benzene	2021/10/30	94	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7668556	Bromodichloromethane	2021/10/30	107	70 - 130	111	70 - 130	<0.10	ug/L	NC	30		
7668556	Bromoform	2021/10/30	110	70 - 130	117	70 - 130	<0.20	ug/L	NC	30		
7668556	Bromomethane	2021/10/30	88	60 - 140	94	60 - 140	<0.50	ug/L	NC	30		
7668556	Carbon Tetrachloride	2021/10/30	108	70 - 130	108	70 - 130	<0.10	ug/L	NC	30		
7668556	Chlorobenzene	2021/10/30	99	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7668556	Chloroethane	2021/10/30	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7668556	Chloroform	2021/10/30	98	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7668556	Chloromethane	2021/10/30	90	60 - 140	77	60 - 140	<0.50	ug/L	NC	30		
7668556	cis-1,2-Dichloroethylene	2021/10/30	101	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7668556	cis-1,3-Dichloropropene	2021/10/30	103	70 - 130	109	70 - 130	<0.20	ug/L	NC	30		
7668556	Dibromochloromethane	2021/10/30	108	70 - 130	111	70 - 130	<0.20	ug/L	NC	30		
7668556	Ethylbenzene	2021/10/30	99	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7668556	Ethylene Dibromide	2021/10/30	95	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7668556	Methyl Ethyl Ketone (2-Butanone)	2021/10/30	98	60 - 140	106	60 - 140	<5.0	ug/L	NC	30		
7668556	Methyl Isobutyl Ketone	2021/10/30	107	70 - 130	114	70 - 130	<5.0	ug/L	NC	30		
7668556	Methyl t-butyl ether (MTBE)	2021/10/30	93	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7668556	Methylene Chloride(Dichloromethane)	2021/10/30	92	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
7668556	o-Xylene	2021/10/30	99	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7668556	p+m-Xylene	2021/10/30	104	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595

Report Date: 2021/11/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668556	Styrene	2021/10/30	108	70 - 130	110	70 - 130	<0.20	ug/L	NC	30		
7668556	Tetrachloroethylene	2021/10/30	95	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7668556	Toluene	2021/10/30	95	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7668556	Total Trihalomethanes	2021/10/30					<0.20	ug/L	NC	30		
7668556	Total Xylenes	2021/10/30					<0.10	ug/L	NC	30		
7668556	trans-1,2-Dichloroethylene	2021/10/30	103	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7668556	trans-1,3-Dichloropropene	2021/10/30	109	70 - 130	111	70 - 130	<0.20	ug/L	NC	30		
7668556	Trichloroethylene	2021/10/30	105	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7668556	Trichlorofluoromethane (FREON 11)	2021/10/30	93	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7668556	Vinyl Chloride	2021/10/30	90	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7668558	Phenols-4AAP	2021/10/29	99	80 - 120	101	80 - 120	<0.0010	mg/L	9.5	20		
7668563	Acrolein	2021/10/30	84	60 - 140	103	60 - 140	<10	ug/L	NC	30		
7668563	Acrylonitrile	2021/10/30	91	60 - 140	99	60 - 140	<5.0	ug/L	NC	30		
7668563	Methyl Butyl Ketone (2-Hexanone)	2021/10/30	117	60 - 140	106	60 - 140	<5.0	ug/L	NC	30		
7668586	Total Kjeldahl Nitrogen (TKN)	2021/11/01	102	80 - 120	98	80 - 120	<0.10	mg/L	2.6	20	116	80 - 120
7668592	Total Organic Carbon (TOC)	2021/10/30	98	80 - 120	95	80 - 120	<0.40	mg/L	1.2	20		
7669107	Total Ammonia-N	2021/10/30	97	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7669119	Total Ammonia-N	2021/11/01	94	75 - 125	98	80 - 120	<0.050	mg/L	NC	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1V3595

Report Date: 2021/11/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7687931	Total Dissolved Solids	2021/11/09					<10	mg/L	0.83	25	98	90 - 110

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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



BUREAU
VERITAS

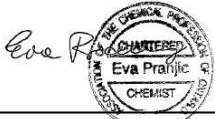
Bureau Veritas Job #: C1V3595
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist



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

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.



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Accounting	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	BV Labs Job #:	Bottle Order #:	Barcode: 847927	
Attention: Accounting	Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	P.O. #:	Project: GW	COC #:	Project Manager: Jolanta Goralczyk	
Tel: (905) 561-0305 Fax: (905) 561-1674	Email: kbailey@terrapureenv.com	Tel: Fax:	Project Name:	Site #:	Barcode: C#847927-32-01		
		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Sampled By:				

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table		Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table <input type="checkbox"/> Other	Special Instructions
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Include Criteria on Certificate of Analysis (Y/N)?

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals - Hg / Cr / VI	List "A" - GW Monitoring	List "B" - GW Monitoring	Biochemical Oxygen Demand (BOD)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)							Turnaround Time (TAT) Required: Please provide advance notice for rush projects		
1	P9-II	Oct 25 2021	NA	GW	Y	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	P9-III R				Y	X												Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)
3	31-I				Y	X												# of Bottles: 6
4	31-II				Y	X												Comments
5	31-III				Y	X												6
6	33-I				Y	X												6
7	33-II				Y	X	X	X										14
8	43-I				Y	X												6
9	43-II				Y	X												6
10	4-II				Y	X												6

RELINQUISHED BY: (Signature/Print) D. Taylor / Dan Taylor	Date: (YY/MM/DD) 21/10/26	Time 9:30	RECEIVED BY: (Signature/Print) See Page 1	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
Time Sensitive		Temperature (°C) on Receipt		Custody Seal Present		Yes	No				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
 * 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.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.



INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Attention: Brad Mullin - GHD Reporting Address: Tel: Fax: Email: bmullin@terrapureenv.com, dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B80569 P.O. #: Project: GW Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: COC #: Project Manager: Jolanta Goralczyk	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects									
Regulation 153 (2011)		Other Regulations		Special Instructions	Field Filtered (please circle)	Metals / Hg / Cr / V	Let 'A' GW Monitoring	Let 'B' GW Monitoring	Biochemical Oxygen Demand (BOD)															
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw																				
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																				
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality																				
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	Reg 405 Table																				
<input type="checkbox"/> Table			<input type="checkbox"/> Other																					
Include Criteria on Certificate of Analysis (Y/N)?																								
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																				
1	P10 - I	21/10/25	N/A	Water	Y	X	X																	13
2	P10 - II				Y	X	X																	13
3	P10 - III				Y	X	X																	13
4	P10 - IV				Y	X	X																	13
5	G24				Y	X																		6
6	35 - III				Y	X																		6
7	35 - IV				Y	X	X																	13
8	35 - V				Y	X	X																	13
9	35 - VI				Y	X	X																	13
10	P9 - I				Y	X																		6

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.

Regular (Standard) TAT

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ (call lab for #)

26-Oct-21 15:16
Jolanta Goralczyk
C1V3595
SYK ENV-1651

RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson	Date: (YY/MM/DD) 21/10/26	Time 9:30	RECEIVED BY: (Signature/Print) Pawel Ptaszek	Date: (YY/MM/DD) 22/10/26	Time 15:16	# jars used and not submitted	Laboratory Use Only
						Time Sensitive	Temperature (°C) on Receipt Pawel Ptaszek
						Custody Seal Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
						Custody Seal Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.

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* SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Accounting	Company Name: Brad Mullin - GHD Reporting	Attention: Brad Mullin - GHD Reporting	Quotation #: B60569	P.O. #:	BV Labs Job #:	Bottle Order #:
Address: 65 Green Mountain Rd West	Stoney Creek ON L8J 1X5	Address:		Project: GW			847927
Tel: (905) 561-0305	Fax: (905) 561-1674	Tel:		Project Name:		COC #:	Project Manager:
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Site #:			Jolanta Goralczyk
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required:	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr / VI	Lut "A" GV Monitoring	Lut "B" GV Monitoring	Biochemical Oxygen Demand (BOD)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		# of Bottles	Comments
1	P9-II	Oct 25 2021	NA	GW	Y	X					6	
2	P9-III R				Y	X					6	
3	31-I				Y	X					6	
4	31-II				Y	X					6	
5	31-III				Y	X					6	
6	33-I				Y	X					6	
7	33-II				Y	X	X	X			6	
8	43-I				Y	X					14	
9	43-II				Y	X					6	
10	4-II				Y	X					6	

RELINQUISHED BY: (Signature/Print) Dan Taylor	Date: (YY/MM/DD) 21/10/26	Time 9:30	RECEIVED BY: (Signature/Print) See Page 1	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only	
							Time Sensitive	Temperature (°C) on Receipt
								Custody Seal Present
								Intact
								Yes
								No

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: GW
 Your C.O.C. #: 847927-30-01, 847927-29-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON
 CANADA L8J 1X5

Report Date: 2021/11/10
 Report #: R6895883
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V5344

Received: 2021/10/27, 15:50

Sample Matrix: Water
 # Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	7	2021/11/02	2021/11/03	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by GC/MS	1	2021/11/02	2021/11/04	CAM SOP-00301	EPA 8270 m
Alkalinity	15	N/A	2021/10/30	CAM SOP-00448	SM 23 2320 B m
Anions	15	N/A	2021/10/30	CAM SOP-00435	SM 23 4110 B m
Conductivity	14	N/A	2021/10/30	CAM SOP-00414	SM 23 2510 m
Conductivity	1	N/A	2021/11/09	CAM SOP-00414	SM 23 2510 m
Fluoride	15	2021/10/28	2021/10/30	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	15	N/A	2021/11/04	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	2	N/A	2021/11/03	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	12	N/A	2021/11/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/11/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/11/01	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	13	N/A	2021/11/02	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	1	N/A	2021/11/03	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	15	N/A	2021/10/29	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	1	2021/10/28	2021/10/30	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides (Selected) & PCB (2)	2	2021/10/28	2021/10/31	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides (Selected) & PCB (2)	4	2021/10/28	2021/11/01	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides (Selected) & PCB (2)	1	2021/11/02	2021/11/05	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	8	N/A	2021/10/29	CAM SOP-00307	EPA 8081A/8082B m
pH	15	2021/10/28	2021/10/30	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	15	N/A	2021/10/29	CAM SOP-00444	OMOE E3179 m
Orthophosphate	15	N/A	2021/10/29	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	14	2021/10/29	2021/11/01	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	1	2021/11/09	2021/11/10	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	2	2021/10/30	2021/11/01	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	13	2021/10/30	2021/11/02	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	9	N/A	2021/11/01	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (3)	6	N/A	2021/11/02	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	2	N/A	2021/10/30	CAM SOP-00226	EPA 8260C m



Your Project #: GW
Your C.O.C. #: 847927-30-01, 847927-29-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/11/10
Report #: R6895883
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V5344

Received: 2021/10/27, 15:50

Sample Matrix: Water
Samples Received: 15

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Volatile Organic Compounds in Water	6	N/A	2021/10/31 CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	8	N/A	2021/10/30 CAM SOP-00226	EPA 8260 m

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane
- (3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
10 Nov 2021 17:38:41

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

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BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBK109			RBK109			RBK110		
Sampling Date		2021/10/26			2021/10/26			2021/10/26		
COC Number		847927-30-01			847927-30-01			847927-30-01		
	UNITS	75-I	RDL	QC Batch	75-I Lab-Dup	RDL	QC Batch	75-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2600	1.0	7663344				870	1.0	7663344
Inorganics										
Total Ammonia-N	mg/L	6.5	0.050	7672455				24	0.050	7672455
Conductivity	umho/cm	6200	1.0	7667814	5800	1.0	7667814	3900	1.0	7667814
Total Dissolved Solids	mg/L	5800	20	7668653				2850	10	7668653
Fluoride (F-)	mg/L	0.84	0.10	7667796	0.85	0.10	7667796	1.1	0.10	7667796
Total Kjeldahl Nitrogen (TKN)	mg/L	7.3	1.0	7671303				28	2.0	7671303
Total Organic Carbon (TOC)	mg/L	2.7	0.40	7671293				5.6	0.40	7671293
Orthophosphate (P)	mg/L	0.011	0.010	7667952				<0.010	0.010	7667952
pH	pH	7.59		7667816	7.65		7667816	7.74		7667816
Phenols-4AAP	mg/L	<0.0010	0.0010	7668540				0.0013	0.0010	7668530
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7667812	210	1.0	7667812	210	1.0	7667812
Nitrite (N)	mg/L	<0.010	0.010	7667837	<0.010	0.010	7667837	<0.010	0.010	7667837
Dissolved Chloride (Cl-)	mg/L	1700	10	7667912				960	10	7667912
Nitrate (N)	mg/L	<0.10	0.10	7667837	<0.10	0.10	7667837	<0.10	0.10	7667837
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7667837	<0.10	0.10	7667837	<0.10	0.10	7667837
Dissolved Bromide (Br-)	mg/L	12	10	7667912				<10	10	7667912
Dissolved Sulphate (SO4)	mg/L	1700	10	7667912				750	10	7667912

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBK110			RBK111			RBK111		
Sampling Date		2021/10/26			2021/10/26			2021/10/26		
COC Number		847927-30-01			847927-30-01			847927-30-01		
	UNITS	75-II Lab-Dup	RDL	QC Batch	75-III	RDL	QC Batch	75-III Lab-Dup	RDL	QC Batch

Calculated Parameters

Hardness (CaCO3)	mg/L				340	1.0	7663344			
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Inorganics

Total Ammonia-N	mg/L				0.60	0.050	7672455			
Conductivity	umho/cm				780	1.0	7667814			
Total Dissolved Solids	mg/L				565	10	7668653	555	10	7668653
Fluoride (F-)	mg/L				0.22	0.10	7667796			
Total Kjeldahl Nitrogen (TKN)	mg/L				1.0	0.10	7671303			
Total Organic Carbon (TOC)	mg/L	5.5	0.40	7671293	5.5	0.40	7671293			
Orthophosphate (P)	mg/L				<0.010	0.010	7667952			
pH	pH				7.94		7667816			
Phenols-4AAP	mg/L				<0.0010	0.0010	7668540			
Alkalinity (Total as CaCO3)	mg/L				190	1.0	7667812			
Nitrite (N)	mg/L				0.032	0.010	7667837			
Dissolved Chloride (Cl-)	mg/L				92	1.0	7667912			
Nitrate (N)	mg/L				<0.10	0.10	7667837			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7667837			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	7667912			
Dissolved Sulphate (SO4)	mg/L				120	1.0	7667912			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBK112			RBK113			RBK113		
Sampling Date		2021/10/26			2021/10/26			2021/10/26		
COC Number		847927-30-01			847927-30-01			847927-30-01		
	UNITS	75-IV	RDL	QC Batch	67-I	RDL	QC Batch	67-I Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	840	1.0	7663344	1400	1.0	7663344			
Inorganics										
Total Ammonia-N	mg/L	5.8	0.050	7672455	33	0.25	7672504	35	0.25	7672504
Conductivity	umho/cm	1600	1.0	7688129	4600	1.0	7667814			
Total Dissolved Solids	mg/L	1540	10	7690940	3870	10	7668653			
Fluoride (F-)	mg/L	0.33	0.10	7667796	1.1	0.10	7667796			
Total Kjeldahl Nitrogen (TKN)	mg/L	6.1	1.0	7671303	40	2.0	7671303			
Total Organic Carbon (TOC)	mg/L	6.5	0.40	7671293	7.4	0.40	7671293			
Orthophosphate (P)	mg/L	<0.010	0.010	7667952	<0.010	0.010	7667952			
pH	pH	7.97		7667816	7.86		7667816			
Phenols-4AAP	mg/L	<0.0010	0.0010	7668551	0.0017	0.0010	7668551			
Alkalinity (Total as CaCO3)	mg/L	310	1.0	7667812	170	1.0	7667812			
Nitrite (N)	mg/L	<0.010	0.010	7667837	<0.010	0.010	7667837			
Dissolved Chloride (Cl-)	mg/L	190	1.0	7667912	1200	10	7667912			
Nitrate (N)	mg/L	<0.10	0.10	7667837	<0.10	0.10	7667837			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7667837	<0.10	0.10	7667837			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7667912	<10	10	7667912			
Dissolved Sulphate (SO4)	mg/L	400	1.0	7667912	1100	10	7667912			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBK114			RBK115			RBK116		
Sampling Date		2021/10/26			2021/10/26			2021/10/26		
COC Number		847927-30-01			847927-30-01			847927-30-01		
	UNITS	67-II	RDL	QC Batch	67-III	RDL	QC Batch	P4-I	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	970	1.0	7663344	410	1.0	7663344	2600	1.0	7663344
Inorganics										
Total Ammonia-N	mg/L	14	0.050	7672455	0.79	0.050	7676306	34	0.25	7672455
Conductivity	umho/cm	3000	1.0	7667814	700	1.0	7667814	7700	1.0	7667814
Total Dissolved Solids	mg/L	2480	10	7668653	435	10	7668653	6640	20	7668653
Fluoride (F ⁻)	mg/L	0.91	0.10	7667796	0.37	0.10	7667796	1.1	0.10	7667796
Total Kjeldahl Nitrogen (TKN)	mg/L	14	1.0	7671303	1.1	0.10	7671303	36	2.0	7671303
Total Organic Carbon (TOC)	mg/L	5.4	0.40	7671293	2.9	0.40	7671293	6.7	0.40	7671293
Orthophosphate (P)	mg/L	<0.010	0.010	7667952	<0.010	0.010	7667952	<0.010	0.010	7667952
pH	pH	7.72		7667816	8.06		7667816	8.04		7667816
Phenols-4AAP	mg/L	0.0012	0.0010	7668530	0.0018	0.0010	7668540	0.0010	0.0010	7668558
Alkalinity (Total as CaCO ₃)	mg/L	310	1.0	7667812	390	1.0	7667812	110	1.0	7667812
Nitrite (N)	mg/L	<0.010	0.010	7667837	<0.010	0.010	7667837	<0.010	0.010	7667837
Dissolved Chloride (Cl ⁻)	mg/L	690	5.0	7667912	9.3	1.0	7667912	2600	20	7667912
Nitrate (N)	mg/L	<0.10	0.10	7667837	0.10	0.10	7667837	<0.10	0.10	7667837
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7667837	0.10	0.10	7667837	<0.10	0.10	7667837
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	7667912	<1.0	1.0	7667912	<20	20	7667912
Dissolved Sulphate (SO ₄)	mg/L	640	5.0	7667912	42	1.0	7667912	1700	20	7667912
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBK117				RBK118				RBK127		
Sampling Date		2021/10/26				2021/10/26				2021/10/26		
COC Number		847927-30-01				847927-30-01				847927-29-01		
	UNITS	P4-II	RDL	QC Batch	P4-III	RDL	QC Batch	4-IV	RDL	QC Batch		
Calculated Parameters												
Hardness (CaCO3)	mg/L	360	1.0	7663344	2000	1.0	7666404	2700	1.0	7666406		
Inorganics												
Total Ammonia-N	mg/L	120	0.50	7672455	14	0.050	7672455	34	0.25	7672455		
Conductivity	umho/cm	7900	1.0	7667814	6500	1.0	7667814	7300	1.0	7667814		
Total Dissolved Solids	mg/L	5160	20	7668653	5510	20	7668653	7400	20	7668653		
Fluoride (F-)	mg/L	1.8	0.10	7667796	1.1	0.10	7667796	1.2	0.10	7667796		
Total Kjeldahl Nitrogen (TKN)	mg/L	120	5.0	7671303	15	2.0	7671303	36	2.0	7671303		
Total Organic Carbon (TOC)	mg/L	32	0.40	7671293	12	0.40	7671293	6.7	0.40	7671293		
Orthophosphate (P)	mg/L	0.035	0.010	7667952	<0.010	0.010	7667952	0.012	0.010	7667952		
pH	pH	8.72		7667816	7.84		7667816	7.99		7667816		
Phenols-4AAP	mg/L	0.71	0.020	7668551	0.0024	0.0010	7668551	0.0012	0.0010	7668540		
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7667812	100	1.0	7667812	110	1.0	7667812		
Nitrite (N)	mg/L	<0.010	0.010	7667837	<0.010	0.010	7667837	<0.010	0.010	7667837		
Dissolved Chloride (Cl-)	mg/L	2400	20	7667912	2300	20	7667912	2700	20	7667912		
Nitrate (N)	mg/L	<0.10	0.10	7667837	<0.10	0.10	7667837	<0.10	0.10	7667837		
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7667837	<0.10	0.10	7667837	<0.10	0.10	7667837		
Dissolved Bromide (Br-)	mg/L	<20	20	7667912	<20	20	7667912	<20	20	7667912		
Dissolved Sulphate (SO4)	mg/L	1200	20	7667912	1300	20	7667912	1800	20	7667912		
RDL = Reportable Detection Limit												
QC Batch = Quality Control Batch												



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBK127			RBK128			RBK129		
Sampling Date		2021/10/26			2021/10/26			2021/10/26		
COC Number		847927-29-01			847927-29-01			847927-29-01		
	UNITS	4-IV Lab-Dup	RDL	QC Batch	68-I	RDL	QC Batch	68-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				2100	1.0	7663344	1700	1.0	7663344
Inorganics										
Total Ammonia-N	mg/L				11	0.050	7672455	0.64	0.050	7672455
Conductivity	umho/cm				4500	1.0	7667814	2400	1.0	7667814
Total Dissolved Solids	mg/L				4290	10	7668653	2380	10	7668653
Fluoride (F-)	mg/L				0.87	0.10	7667796	0.37	0.10	7667796
Total Kjeldahl Nitrogen (TKN)	mg/L				12	2.0	7671303	0.89	0.20	7671303
Total Organic Carbon (TOC)	mg/L				2.7	0.40	7671293	2.0	0.40	7671293
Orthophosphate (P)	mg/L	0.011	0.010	7667952	<0.010	0.010	7667952	<0.010	0.010	7667952
pH	pH				7.64		7667816	7.66		7667816
Phenols-4AAP	mg/L				<0.0010	0.0010	7668540	<0.0010	0.0010	7668530
Alkalinity (Total as CaCO3)	mg/L				210	1.0	7667812	300	1.0	7667812
Nitrite (N)	mg/L				<0.010	0.010	7667837	<0.010	0.010	7667837
Dissolved Chloride (Cl-)	mg/L				1100	10	7667912	910	5.0	7667912
Nitrate (N)	mg/L				<0.10	0.10	7667837	0.11	0.10	7667837
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7667837	0.11	0.10	7667837
Dissolved Bromide (Br-)	mg/L				<10	10	7667912	<5.0	5.0	7667912
Dissolved Sulphate (SO4)	mg/L				1500	10	7667912	200	5.0	7667912

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBK130			RBK130			RBK131		
Sampling Date		2021/10/26			2021/10/26			2021/10/26		
COC Number		847927-29-01			847927-29-01			847927-29-01		
	UNITS	68-III	RDL	QC Batch	68-III Lab-Dup	RDL	QC Batch	68-IV	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	41	1.0	7663344				370	1.0	7663344
Inorganics										
Total Ammonia-N	mg/L	43	0.25	7672455				<0.050	0.050	7672455
Conductivity	umho/cm	3200	1.0	7667814				820	1.0	7667814
Total Dissolved Solids	mg/L	1830	10	7668653				545	10	7668653
Fluoride (F-)	mg/L	1.8	0.10	7667796				0.78	0.10	7667796
Total Kjeldahl Nitrogen (TKN)	mg/L	46	2.0	7671303	44	2.0	7671303	0.19	0.10	7671303
Total Organic Carbon (TOC)	mg/L	50	0.40	7671293				3.0	0.40	7671293
Orthophosphate (P)	mg/L	<0.010	0.010	7667952				<0.010	0.010	7667952
pH	pH	8.87		7667816				7.96		7667816
Phenols-4AAP	mg/L	0.92	0.050	7668540				<0.0010	0.0010	7668540
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7667812				270	1.0	7667812
Nitrite (N)	mg/L	<0.010	0.010	7667837				<0.010	0.010	7667837
Dissolved Chloride (Cl-)	mg/L	440	5.0	7667912				94	1.0	7667912
Nitrate (N)	mg/L	<0.10	0.10	7667837				0.29	0.10	7667837
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7667837				0.29	0.10	7667837
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7667912				<1.0	1.0	7667912
Dissolved Sulphate (SO4)	mg/L	930	5.0	7667912				77	1.0	7667912

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBK109		RBK110		RBK111		RBK112			
Sampling Date		2021/10/26		2021/10/26		2021/10/26		2021/10/26			
COC Number		847927-30-01		847927-30-01		847927-30-01		847927-30-01			
	UNITS	75-I	RDL	75-II	RDL	75-III	QC Batch	75-IV	RDL	QC Batch	
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	4.9	76	7668630	150	4.9	7679988	
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	7668630	<0.50	0.50	7679988	
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	7668630	<1.0	1.0	7679988	
Dissolved Barium (Ba)	ug/L	11	2.0	20	2.0	26	7668630	30	2.0	7679988	
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	7668630	<0.40	0.40	7679988	
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	7668630	<1.0	1.0	7679988	
Dissolved Boron (B)	ug/L	1400	10	830	10	93	7668630	200	10	7679988	
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	7668630	0.17	0.090	7679988	
Dissolved Calcium (Ca)	ug/L	810000	1000	260000	400	85000	7668630	180000	200	7679988	
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	7668630	<5.0	5.0	7679988	
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	0.57	7668630	<0.50	0.50	7679988	
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	3.1	7668630	<0.90	0.90	7679988	
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	7668630	1100	100	7679988	
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	1.4	7668630	3.1	0.50	7679988	
Dissolved Lithium (Li)	ug/L	590	25	91	5.0	26	7668630	55	5.0	7679988	
Dissolved Magnesium (Mg)	ug/L	140000	50	53000	50	31000	7668630	93000	50	7679988	
Dissolved Manganese (Mn)	ug/L	120	2.0	29	2.0	57	7668630	51	2.0	7679988	
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	0.50	0.85	7668630	<0.50	0.50	7679988	
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	1.0	2.9	7668630	1.0	1.0	7679988	
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	7668630	<100	100	7679988	
Dissolved Potassium (K)	ug/L	35000	200	50000	200	6500	7668630	12000	200	7679988	
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	7668630	<2.0	2.0	7679988	
Dissolved Silicon (Si)	ug/L	3900	50	7200	50	5100	7668630	7400	50	7679988	
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	7668630	<0.090	0.090	7679988	
Dissolved Sodium (Na)	ug/L	860000	500	640000	500	60000	7668630	220000	100	7679988	
Dissolved Strontium (Sr)	ug/L	13000	1.0	9600	1.0	940	7668630	4000	1.0	7679988	
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	7668630	<1.0	1.0	7679988	
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	7668630	<0.050	0.050	7679988	
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	7668630	<1.0	1.0	7679988	
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	7668630	<5.0	5.0	7679988	
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	7668630	27	1.0	7679988	
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.10	0.10	1.7	7668630	2.4	0.10	7679988	
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	7668630	<0.50	0.50	7679988	
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	7668630	9.2	5.0	7679988	
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	7668630	<1.0	1.0	7679988	
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



BUREAU VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBK113		RBK114		RBK115	RBK115		RBK116		
Sampling Date		2021/10/26		2021/10/26		2021/10/26	2021/10/26		2021/10/26		
COC Number		847927-30-01		847927-30-01		847927-30-01	847927-30-01		847927-30-01		
	UNITS	67-I	RDL	67-II	RDL	67-III	67-III Lab-Dup	RDL	P4-I	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<25	25	44	41	4.9	<4.9	4.9	7668630
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	0.99	0.76	0.50	<0.50	0.50	7668630
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	5.0	1.0	<1.0	1.0	2.2	1.0	7668630
Dissolved Barium (Ba)	ug/L	19	2.0	11	10	35	34	2.0	25	2.0	7668630
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	<0.40	<0.40	0.40	<0.40	0.40	7668630
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	1.0	<1.0	1.0	7668630
Dissolved Boron (B)	ug/L	980	10	2600	50	220	220	10	1300	10	7668630
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	<0.090	0.090	<0.090	0.090	7668630
Dissolved Calcium (Ca)	ug/L	450000	400	290000	1000	78000	79000	200	860000	1000	7668630
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	5.0	<5.0	5.0	7668630
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	2.5	0.59	0.60	0.50	<0.50	0.50	7668630
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	1.2	1.1	0.90	<0.90	0.90	7668630
Dissolved Iron (Fe)	ug/L	<100	100	2100	500	<100	<100	100	<100	100	7668630
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	0.50	<0.50	0.50	7668630
Dissolved Lithium (Li)	ug/L	120	5.0	91	25	25	25	5.0	440	5.0	7668630
Dissolved Magnesium (Mg)	ug/L	63000	50	61000	250	51000	52000	50	120000	50	7668630
Dissolved Manganese (Mn)	ug/L	41	2.0	100	10	31	31	2.0	74	2.0	7668630
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<2.5	2.5	3.7	3.7	0.50	<0.50	0.50	7668630
Dissolved Nickel (Ni)	ug/L	1.5	1.0	<5.0	5.0	1.3	1.4	1.0	<1.0	1.0	7668630
Dissolved Phosphorus (P)	ug/L	<100	100	<500	500	<100	<100	100	<100	100	7668630
Dissolved Potassium (K)	ug/L	61000	200	37000	1000	5100	5100	200	81000	200	7668630
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	10	<2.0	<2.0	2.0	<2.0	2.0	7668630
Dissolved Silicon (Si)	ug/L	7300	50	6200	250	9100	9100	50	4800	50	7668630
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	<0.090	0.090	<0.090	0.090	7668630
Dissolved Sodium (Na)	ug/L	760000	500	460000	500	56000	56000	100	1400000	500	7668630
Dissolved Strontium (Sr)	ug/L	8400	1.0	4500	5.0	600	600	1.0	11000	1.0	7668630
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	1.1	<1.0	1.0	<1.0	1.0	7668630
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	<0.050	<0.050	0.050	<0.050	0.050	7668630
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	1.0	<1.0	1.0	7668630
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	5.0	<5.0	5.0	7668630
Dissolved Tungsten (W)	ug/L	<1.0	1.0	5.7	5.0	<1.0	<1.0	1.0	<1.0	1.0	7668630
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.50	0.50	2.8	2.8	0.10	0.12	0.10	7668630
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	0.50	<0.50	0.50	7668630
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<25	25	7.0	7.3	5.0	<5.0	5.0	7668630
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	1.0	<1.0	1.0	7668630

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBK117		RBK118	RBK127	RBK128		RBK129		
Sampling Date		2021/10/26		2021/10/26	2021/10/26	2021/10/26		2021/10/26		
COC Number		847927-30-01		847927-30-01	847927-29-01	847927-29-01		847927-29-01		
	UNITS	P4-II	RDL	P4-III	4-IV	68-I	RDL	68-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	6.2	4.9	<4.9	<4.9	<4.9	4.9	<4.9	4.9	7668630
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7668630
Dissolved Arsenic (As)	ug/L	3.9	1.0	2.3	2.3	<1.0	1.0	<1.0	1.0	7668630
Dissolved Barium (Ba)	ug/L	11	2.0	33	25	18	2.0	23	2.0	7668630
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	<0.40	0.40	<0.40	0.40	7668630
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7668630
Dissolved Boron (B)	ug/L	1700	10	300	1300	720	10	670	10	7668630
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	<0.090	0.090	<0.090	0.090	7668630
Dissolved Calcium (Ca)	ug/L	110000	200	680000	870000	710000	1000	460000	1000	7668630
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7668630
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	0.58	0.50	7668630
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	<0.90	0.90	<0.90	0.90	7668630
Dissolved Iron (Fe)	ug/L	<100	100	<100	<100	<100	100	270	100	7668630
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7668630
Dissolved Lithium (Li)	ug/L	190	5.0	52	440	120	5.0	80	5.0	7668630
Dissolved Magnesium (Mg)	ug/L	17000	50	70000	130000	82000	50	130000	50	7668630
Dissolved Manganese (Mn)	ug/L	5.8	2.0	74	72	74	2.0	240	2.0	7668630
Dissolved Molybdenum (Mo)	ug/L	44	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7668630
Dissolved Nickel (Ni)	ug/L	14	1.0	1.4	<1.0	<1.0	1.0	3.4	1.0	7668630
Dissolved Phosphorus (P)	ug/L	140	100	<100	<100	<100	100	<100	100	7668630
Dissolved Potassium (K)	ug/L	100000	200	47000	83000	34000	200	12000	200	7668630
Dissolved Selenium (Se)	ug/L	4.1	2.0	4.0	3.2	<2.0	2.0	<2.0	2.0	7668630
Dissolved Silicon (Si)	ug/L	8400	50	4400	5300	4400	50	4100	50	7668630
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	<0.090	0.090	<0.090	0.090	7668630
Dissolved Sodium (Na)	ug/L	1700000	500	1200000	1400000	590000	500	88000	100	7668630
Dissolved Strontium (Sr)	ug/L	1900	1.0	7700	11000	8400	1.0	6100	1.0	7668630
Dissolved Tellurium (Te)	ug/L	1.5	1.0	1.7	<1.0	<1.0	1.0	<1.0	1.0	7668630
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	<0.050	0.050	<0.050	0.050	7668630
Dissolved Tin (Sn)	ug/L	9.4	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7668630
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7668630
Dissolved Tungsten (W)	ug/L	10	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7668630
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.10	0.11	0.13	0.10	0.52	0.10	7668630
Dissolved Vanadium (V)	ug/L	6.0	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7668630
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7668630
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7668630

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBK130		RBK131		
Sampling Date		2021/10/26		2021/10/26		
COC Number		847927-29-01		847927-29-01		
	UNITS	68-III	RDL	68-IV	RDL	QC Batch
Metals						
Dissolved Aluminum (Al)	ug/L	19	4.9	<4.9	4.9	7668630
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	7668630
Dissolved Arsenic (As)	ug/L	3.3	1.0	<1.0	1.0	7668630
Dissolved Barium (Ba)	ug/L	3.9	2.0	66	2.0	7668630
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	7668630
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	7668630
Dissolved Boron (B)	ug/L	590	10	490	10	7668630
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	7668630
Dissolved Calcium (Ca)	ug/L	13000	200	84000	200	7668630
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	7668630
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	7668630
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	7668630
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	7668630
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	7668630
Dissolved Lithium (Li)	ug/L	30	5.0	20	5.0	7668630
Dissolved Magnesium (Mg)	ug/L	2100	50	39000	50	7668630
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	3.6	2.0	7668630
Dissolved Molybdenum (Mo)	ug/L	22	0.50	<0.50	0.50	7668630
Dissolved Nickel (Ni)	ug/L	6.9	1.0	<1.0	1.0	7668630
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	7668630
Dissolved Potassium (K)	ug/L	39000	200	8000	200	7668630
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	7668630
Dissolved Silicon (Si)	ug/L	11000	50	3200	50	7668630
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	7668630
Dissolved Sodium (Na)	ug/L	670000	500	54000	100	7668630
Dissolved Strontium (Sr)	ug/L	400	1.0	4600	1.0	7668630
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	7668630
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	7668630
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	7668630
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	7668630
Dissolved Tungsten (W)	ug/L	3.4	1.0	<1.0	1.0	7668630
Dissolved Uranium (U)	ug/L	<0.10	0.10	0.24	0.10	7668630
Dissolved Vanadium (V)	ug/L	0.85	0.50	<0.50	0.50	7668630
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	7668630
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	7668630
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344

Report Date: 2021/11/10

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBK109	RBK110	RBK111	RBK113	RBK128	RBK129		
Sampling Date		2021/10/26	2021/10/26	2021/10/26	2021/10/26	2021/10/26	2021/10/26		
COC Number		847927-30-01	847927-30-01	847927-30-01	847927-30-01	847927-29-01	847927-29-01		
	UNITS	75-I	75-II	75-III	67-I	68-I	68-II	RDL	QC Batch
Semivolatile Organics									
Acenaphthene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Acenaphthylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Anthracene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Benzo(a)anthracene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Benzo(a)pyrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Benzo(b/j)fluoranthene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Benzo(g,h,i)perylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Benzo(k)fluoranthene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
1-Chloronaphthalene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7675840
2-Chloronaphthalene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Chrysene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Dibenzo(a,h)anthracene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Fluoranthene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Fluorene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
1-Methylnaphthalene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
2-Methylnaphthalene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Naphthalene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
5-Nitroacenaphthene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7675840
Perylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Phenanthrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
Pyrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7675840
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Hexachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Pentachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
1,3,5-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2-Chlorophenol	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7675840
4-Chloro-3-Methylphenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
m/p-Cresol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
o-Cresol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBK109	RBK110	RBK111	RBK113	RBK128	RBK129		
Sampling Date		2021/10/26	2021/10/26	2021/10/26	2021/10/26	2021/10/26	2021/10/26		
COC Number		847927-30-01	847927-30-01	847927-30-01	847927-30-01	847927-29-01	847927-29-01		
	UNITS	75-I	75-II	75-III	67-I	68-I	68-II	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,3-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,4-Dichlorophenol	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7675840
2,5-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,6-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
3,4-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
3,5-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,4-Dimethylphenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,4-Dinitrophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7675840
4,6-Dinitro-2-methylphenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7675840
2-Nitrophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
4-Nitrophenol	ug/L	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	1.4	7675840
Pentachlorophenol	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7675840
Phenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7675840
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,3,4-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,3,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,3,6-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,4,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
2,4,6-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
3,4,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Benzyl butyl phthalate	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Biphenyl	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Bis(2-chloroethyl)ether	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Bis(2-chloroethoxy)methane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Bis(2-chloroisopropyl)ether	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7675840
4-Bromophenyl phenyl ether	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7675840
p-Chloroaniline	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7675840
4-Chlorophenyl phenyl ether	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Di-N-butyl phthalate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7675840
di-n-octyl phthalate	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7675840
2,4-Dinitrotoluene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Diethyl phthalate	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7675840
3,3'-Dichlorobenzidine	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBK109	RBK110	RBK111	RBK113	RBK128	RBK129		
Sampling Date		2021/10/26	2021/10/26	2021/10/26	2021/10/26	2021/10/26	2021/10/26		
COC Number		847927-30-01	847927-30-01	847927-30-01	847927-30-01	847927-29-01	847927-29-01		
	UNITS	75-I	75-II	75-III	67-I	68-I	68-II	RDL	QC Batch
Dimethyl phthalate	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7675840
2,6-Dinitrotoluene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Diphenyl Ether	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7675840
Hexachlorobutadiene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7675840
Hexachlorocyclopentadiene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7675840
Hexachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Isophorone	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Nitrobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
N-Nitroso-di-n-propylamine	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7675840
Surrogate Recovery (%)									
2,4,6-Tribromophenol	%	99	91	48	89	76	75		7675840
2-Fluorobiphenyl	%	81	71	66	70	72	72		7675840
2-Fluorophenol	%	51	49	28	47	49	45		7675840
D14-Terphenyl	%	97	96	88	98	89	92		7675840
D5-Nitrobenzene	%	85	76	70	75	81	72		7675840
D5-Phenol	%	35	31	26	30	34	31		7675840
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



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VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBK129		RBK130		RBK131		
Sampling Date		2021/10/26		2021/10/26		2021/10/26		
COC Number		847927-29-01		847927-29-01		847927-29-01		
	UNITS	68-II Lab-Dup	RDL	68-III	RDL	68-IV	RDL	QC Batch
Semivolatile Organics								
Acenaphthene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Acenaphthylene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Anthracene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Benzo(a)anthracene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Benzo(a)pyrene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Benzo(b/j)fluoranthene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Benzo(g,h,i)perylene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Benzo(k)fluoranthene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
1-Chloronaphthalene	ug/L	<1.0	1.0	<10	10	<1.0	1.0	7675840
2-Chloronaphthalene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Chrysene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Dibenzo(a,h)anthracene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Fluoranthene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Fluorene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
1-Methylnaphthalene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
2-Methylnaphthalene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Naphthalene	ug/L	<0.20	0.20	<4.0 (1)	4.0	<0.20	0.20	7675840
5-Nitroacenaphthene	ug/L	<1.0	1.0	<10	10	<1.0	1.0	7675840
Perylene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Phenanthrene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
Pyrene	ug/L	<0.20	0.20	<2.0	2.0	<0.20	0.20	7675840
1,2-Dichlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
1,3-Dichlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
1,4-Dichlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Hexachlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Pentachlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
1,3,5-Trichlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2-Chlorophenol	ug/L	<0.30	0.30	<3.0	3.0	<0.30	0.30	7675840
4-Chloro-3-Methylphenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Detection limit was raised due to matrix interference.								



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBK129		RBK130		RBK131		
Sampling Date		2021/10/26		2021/10/26		2021/10/26		
COC Number		847927-29-01		847927-29-01		847927-29-01		
	UNITS	68-II Lab-Dup	RDL	68-III	RDL	68-IV	RDL	QC Batch
m/p-Cresol	ug/L	<0.50	0.50	380	5.0	<0.50	0.50	7675840
o-Cresol	ug/L	<0.50	0.50	23	5.0	<0.50	0.50	7675840
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,3-Dichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,4-Dichlorophenol	ug/L	<0.30	0.30	<3.0	3.0	<0.30	0.30	7675840
2,5-Dichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,6-Dichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
3,4-Dichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
3,5-Dichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,4-Dimethylphenol	ug/L	<0.50	0.50	58	5.0	<0.50	0.50	7675840
2,4-Dinitrophenol	ug/L	<2.0	2.0	<20	20	<2.0	2.0	7675840
4,6-Dinitro-2-methylphenol	ug/L	<2.0	2.0	<20	20	<2.0	2.0	7675840
2-Nitrophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
4-Nitrophenol	ug/L	<1.4	1.4	<14	14	<1.4	1.4	7675840
Pentachlorophenol	ug/L	<1.0	1.0	<10	10	<1.0	1.0	7675840
Phenol	ug/L	<0.50	0.50	220	5.0	<0.50	0.50	7675840
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	0.40	<4.0	4.0	<0.40	0.40	7675840
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,3,4-Trichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,3,5-Trichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,3,6-Trichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,4,5-Trichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
2,4,6-Trichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
3,4,5-Trichlorophenol	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Benzyl butyl phthalate	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Biphenyl	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Bis(2-chloroethyl)ether	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Bis(2-chloroethoxy)methane	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Bis(2-chloroisopropyl)ether	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	2.0	<20	20	<2.0	2.0	7675840
4-Bromophenyl phenyl ether	ug/L	<0.30	0.30	<3.0	3.0	<0.30	0.30	7675840
p-Chloroaniline	ug/L	<1.0	1.0	<10	10	<1.0	1.0	7675840
4-Chlorophenyl phenyl ether	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Di-N-butyl phthalate	ug/L	<2.0	2.0	<20	20	<2.0	2.0	7675840
di-n-octyl phthalate	ug/L	<0.80	0.80	<8.0	8.0	<0.80	0.80	7675840
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBK129		RBK130		RBK131		
Sampling Date		2021/10/26		2021/10/26		2021/10/26		
COC Number		847927-29-01		847927-29-01		847927-29-01		
	UNITS	68-II Lab-Dup	RDL	68-III	RDL	68-IV	RDL	QC Batch
2,4-Dinitrotoluene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Diethyl phthalate	ug/L	<1.0	1.0	<10	10	<1.0	1.0	7675840
3,3'-Dichlorobenzidine	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Dimethyl phthalate	ug/L	<1.0	1.0	<10	10	<1.0	1.0	7675840
2,6-Dinitrotoluene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Diphenyl Ether	ug/L	<0.30	0.30	<3.0	3.0	<0.30	0.30	7675840
Hexachlorobutadiene	ug/L	<0.40	0.40	<4.0	4.0	<0.40	0.40	7675840
Hexachlorocyclopentadiene	ug/L	<2.0	2.0	<20	20	<2.0	2.0	7675840
Hexachloroethane	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Isophorone	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Nitrobenzene	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
N-Nitroso-di-n-propylamine	ug/L	<0.50	0.50	<5.0	5.0	<0.50	0.50	7675840
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	76		97		75		7675840
2-Fluorobiphenyl	%	70		66		82		7675840
2-Fluorophenol	%	42		43		45		7675840
D14-Terphenyl	%	89		96		97		7675840
D5-Nitrobenzene	%	68		72		92		7675840
D5-Phenol	%	29		32		31		7675840
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBK109	RBK110	RBK111	RBK113	RBK128		
Sampling Date		2021/10/26	2021/10/26	2021/10/26	2021/10/26	2021/10/26		
COC Number		847927-30-01	847927-30-01	847927-30-01	847927-30-01	847927-29-01		
	UNITS	75-I	75-II	75-III	67-I	68-I	RDL	QC Batch
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	7667329
Benzene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Bromodichloromethane	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Acrolein	ug/L	<10	<10	<10	<10	<10	10	7667349
Bromoform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7667329
Carbon Tetrachloride	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Chlorobenzene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Chloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
Chloroform	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Acrylonitrile	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7667349
Chloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7667329
Dibromochloromethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
1,2-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
1,3-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
1,4-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
1,1-Dichloroethane	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
1,2-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
1,1-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
cis-1,2-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
trans-1,2-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
1,2-Dichloropropane	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
cis-1,3-Dichloropropene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
trans-1,3-Dichloropropene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
Ethylbenzene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
Methylene Chloride(Dichloromethane)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7667329
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7667329
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7667329
Methyl t-butyl ether (MTBE)	ug/L	<0.20	<0.20	<0.20	0.32	<0.20	0.20	7667329
Styrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
1,1,1,2-Tetrachloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
1,1,1,2,2-Tetrachloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
Tetrachloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
1,1,1-Trichloroethane	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBK109	RBK110	RBK111	RBK113	RBK128		
Sampling Date		2021/10/26	2021/10/26	2021/10/26	2021/10/26	2021/10/26		
COC Number		847927-30-01	847927-30-01	847927-30-01	847927-30-01	847927-29-01		
	UNITS	75-I	75-II	75-III	67-I	68-I	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
Trichloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
p+m-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7667349
o-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Total Xylenes	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7667329
Total Trihalomethanes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7667329
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	104	105	104	105	102		7667329
D4-1,2-Dichloroethane	%	109	112	113	109	109		7667329
D8-Toluene	%	98	96	97	97	96		7667329
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBK129		RBK130		RBK131		
Sampling Date		2021/10/26		2021/10/26		2021/10/26		
COC Number		847927-29-01		847927-29-01		847927-29-01		
	UNITS	68-II	RDL	68-III	RDL	68-IV	RDL	QC Batch
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	10	280	200	<10	10	7667329
Benzene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Bromodichloromethane	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Acrolein	ug/L	<10	10	<200	200	<10	10	7667349
Bromoform	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Bromomethane	ug/L	<0.50	0.50	<10	10	<0.50	0.50	7667329
Carbon Tetrachloride	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Chlorobenzene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Chloroethane	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Chloroform	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Acrylonitrile	ug/L	<5.0	5.0	<100	100	<5.0	5.0	7667349
Chloromethane	ug/L	<0.50	0.50	<10	10	<0.50	0.50	7667329
Dibromochloromethane	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
1,2-Dichlorobenzene	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
1,3-Dichlorobenzene	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
1,4-Dichlorobenzene	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
1,1-Dichloroethane	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
1,2-Dichloroethane	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
1,1-Dichloroethylene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
cis-1,2-Dichloroethylene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
trans-1,2-Dichloroethylene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
1,2-Dichloropropane	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
cis-1,3-Dichloropropene	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
trans-1,3-Dichloropropene	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Ethylbenzene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Ethylene Dibromide	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Methylene Chloride(Dichloromethane)	ug/L	<0.50	0.50	<10	10	<0.50	0.50	7667329
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	5.0	<100	100	<5.0	5.0	7667329
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	<100	100	<5.0	5.0	7667329
Methyl t-butyl ether (MTBE)	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Styrene	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
1,1,2,2-Tetrachloroethane	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Tetrachloroethylene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Toluene	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
1,1,1-Trichloroethane	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBK129		RBK130		RBK131		
Sampling Date		2021/10/26		2021/10/26		2021/10/26		
COC Number		847927-29-01		847927-29-01		847927-29-01		
	UNITS	68-II	RDL	68-III	RDL	68-IV	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Trichloroethylene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Vinyl Chloride	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
p+m-Xylene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	5.0	<100	100	<5.0	5.0	7667349
o-Xylene	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Total Xylenes	ug/L	<0.10	0.10	<2.0	2.0	<0.10	0.10	7667329
Total Trihalomethanes	ug/L	<0.20	0.20	<4.0	4.0	<0.20	0.20	7667329
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	105		105		104		7667329
D4-1,2-Dichloroethane	%	113		110		112		7667329
D8-Toluene	%	95		97		95		7667329
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBK109				RBK110				
Sampling Date		2021/10/26				2021/10/26				
COC Number		847927-30-01				847927-30-01				
	UNITS	75-I	RDL	QC Batch	75-I Lab-Dup	RDL	QC Batch	75-II	RDL	QC Batch
Calculated Parameters										
Chlordane (Total)	ug/L	<0.005	0.005	7663279				<0.005	0.005	7663279
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	7663279				<0.005	0.005	7663279
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	7663279				<0.005	0.005	7663279
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	7663279				<0.005	0.005	7663279
Total Endosulfan	ug/L	<0.005	0.005	7663279				<0.005	0.005	7663279
Total PCB	ug/L	<0.05	0.05	7663279				<0.05	0.05	7663279
Pesticides & Herbicides										
Aldrin	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Dieldrin	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
a-Chlordane	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
g-Chlordane	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
o,p-DDD	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
p,p-DDD	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
o,p-DDE	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
p,p-DDE	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
o,p-DDT	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
p,p-DDT	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Lindane	ug/L	<0.003	0.003	7667749	<0.003	0.003	7667749	<0.003	0.003	7667749
Endosulfan I (alpha)	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Endosulfan II (beta)	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Endrin	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Heptachlor	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Heptachlor epoxide	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Hexachlorobenzene	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Hexachlorobutadiene	ug/L	<0.009	0.009	7667749	<0.009	0.009	7667749	<0.009	0.009	7667749
Hexachloroethane	ug/L	<0.01	0.01	7667749	<0.01	0.01	7667749	<0.01	0.01	7667749
Methoxychlor	ug/L	<0.01	0.01	7667749	<0.01	0.01	7667749	<0.01	0.01	7667749
Aroclor 1242	ug/L	<0.05	0.05	7667749	<0.05	0.05	7667749	<0.05	0.05	7667749
Aroclor 1248	ug/L	<0.05	0.05	7667749	<0.05	0.05	7667749	<0.05	0.05	7667749
Aroclor 1254	ug/L	<0.05	0.05	7667749	<0.05	0.05	7667749	<0.05	0.05	7667749
Aroclor 1260	ug/L	<0.05	0.05	7667749	<0.05	0.05	7667749	<0.05	0.05	7667749
alpha-BHC	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
beta-BHC	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Endrin aldehyde	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
Endrin ketone	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBK109				RBK109				RBK110		
Sampling Date		2021/10/26				2021/10/26				2021/10/26		
COC Number		847927-30-01				847927-30-01				847927-30-01		
	UNITS	75-I	RDL	QC Batch	75-I Lab-Dup	RDL	QC Batch	75-II	RDL	QC Batch		
Mirex	ug/L	<0.005	0.005	7667749	<0.005	0.005	7667749	<0.005	0.005	7667749		
Toxaphene	ug/L	<0.2	0.2	7667749	<0.2	0.2	7667749	<0.2	0.2	7667749		
Surrogate Recovery (%)												
2,4,5,6-Tetrachloro-m-xylene	%	61		7667749	64		7667749	66		7667749		
Decachlorobiphenyl	%	94		7667749	100		7667749	99		7667749		
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate												



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBK111		RBK113	RBK128	RBK129		RBK130		
Sampling Date		2021/10/26		2021/10/26	2021/10/26	2021/10/26		2021/10/26		
COC Number		847927-30-01		847927-30-01	847927-29-01	847927-29-01		847927-29-01		
	UNITS	75-III	QC Batch	67-I	68-I	68-II	RDL	68-III	RDL	QC Batch

Calculated Parameters										
Chlordane (Total)	ug/L	<0.005	7663279	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7663279
o,p-DDD + p,p-DDD	ug/L	<0.005	7663279	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7663279
o,p-DDE + p,p-DDE	ug/L	0.017	7663279	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7663279
o,p-DDT + p,p-DDT	ug/L	<0.005	7663279	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7663279
Total Endosulfan	ug/L	<0.005	7663279	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7663279
Total PCB	ug/L	<0.05	7663279	<0.05	<0.05	<0.05	0.05	<0.5	0.5	7663279

Pesticides & Herbicides										
Aldrin	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Dieldrin	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
a-Chlordane	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
g-Chlordane	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
o,p-DDD	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
p,p-DDD	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
o,p-DDE	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
p,p-DDE	ug/L	0.017	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
o,p-DDT	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
p,p-DDT	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Lindane	ug/L	<0.003	7676574	<0.003	<0.003	<0.003	0.003	<0.03	0.03	7667749
Endosulfan I (alpha)	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Endosulfan II (beta)	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Endrin	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Heptachlor	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Heptachlor epoxide	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Hexachlorobenzene	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Hexachlorobutadiene	ug/L	<0.009	7676574	<0.009	<0.009	<0.009	0.009	<0.09	0.09	7667749
Hexachloroethane	ug/L	<0.01	7676574	<0.01	<0.01	<0.01	0.01	<0.1	0.1	7667749
Methoxychlor	ug/L	<0.01	7676574	<0.01	<0.01	<0.01	0.01	<0.1	0.1	7667749
Aroclor 1242	ug/L	<0.05	7676574	<0.05	<0.05	<0.05	0.05	<0.5	0.5	7667749
Aroclor 1248	ug/L	<0.05	7676574	<0.05	<0.05	<0.05	0.05	<0.5	0.5	7667749
Aroclor 1254	ug/L	<0.05	7676574	<0.05	<0.05	<0.05	0.05	<0.5	0.5	7667749
Aroclor 1260	ug/L	<0.05	7676574	<0.05	<0.05	<0.05	0.05	<0.5	0.5	7667749
alpha-BHC	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
beta-BHC	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Endrin aldehyde	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Endrin ketone	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749
Mirex	ug/L	<0.005	7676574	<0.005	<0.005	<0.005	0.005	<0.05	0.05	7667749

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBK111		RBK113	RBK128	RBK129		RBK130		
Sampling Date		2021/10/26		2021/10/26	2021/10/26	2021/10/26		2021/10/26		
COC Number		847927-30-01		847927-30-01	847927-29-01	847927-29-01		847927-29-01		
	UNITS	75-III	QC Batch	67-I	68-I	68-II	RDL	68-III	RDL	QC Batch
Toxaphene	ug/L	<0.2	7676574	<0.2	<0.2	<0.2	0.2	<2	2	7667749
Surrogate Recovery (%)										
2,4,5,6-Tetrachloro-m-xylene	%	66	7676574	57	56	64		74		7667749
Decachlorobiphenyl	%	106	7676574	88	84	88		106		7667749
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBK131		
Sampling Date		2021/10/26		
COC Number		847927-29-01		
	UNITS	68-IV	RDL	QC Batch
Calculated Parameters				
Chlordane (Total)	ug/L	<0.005	0.005	7663279
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	7663279
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	7663279
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	7663279
Total Endosulfan	ug/L	<0.005	0.005	7663279
Total PCB	ug/L	<0.05	0.05	7663279
Pesticides & Herbicides				
Aldrin	ug/L	<0.005	0.005	7667749
Dieldrin	ug/L	<0.005	0.005	7667749
a-Chlordane	ug/L	<0.005	0.005	7667749
g-Chlordane	ug/L	<0.005	0.005	7667749
o,p-DDD	ug/L	<0.005	0.005	7667749
p,p-DDD	ug/L	<0.005	0.005	7667749
o,p-DDE	ug/L	<0.005	0.005	7667749
p,p-DDE	ug/L	<0.005	0.005	7667749
o,p-DDT	ug/L	<0.005	0.005	7667749
p,p-DDT	ug/L	<0.005	0.005	7667749
Lindane	ug/L	<0.003	0.003	7667749
Endosulfan I (alpha)	ug/L	<0.005	0.005	7667749
Endosulfan II (beta)	ug/L	<0.005	0.005	7667749
Endrin	ug/L	<0.005	0.005	7667749
Heptachlor	ug/L	<0.005	0.005	7667749
Heptachlor epoxide	ug/L	<0.005	0.005	7667749
Hexachlorobenzene	ug/L	<0.005	0.005	7667749
Hexachlorobutadiene	ug/L	<0.009	0.009	7667749
Hexachloroethane	ug/L	<0.01	0.01	7667749
Methoxychlor	ug/L	<0.01	0.01	7667749
Aroclor 1242	ug/L	<0.05	0.05	7667749
Aroclor 1248	ug/L	<0.05	0.05	7667749
Aroclor 1254	ug/L	<0.05	0.05	7667749
Aroclor 1260	ug/L	<0.05	0.05	7667749
alpha-BHC	ug/L	<0.005	0.005	7667749
beta-BHC	ug/L	<0.005	0.005	7667749
Endrin aldehyde	ug/L	<0.005	0.005	7667749
Endrin ketone	ug/L	<0.005	0.005	7667749
Mirex	ug/L	<0.005	0.005	7667749
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBK131		
Sampling Date		2021/10/26		
COC Number		847927-29-01		
	UNITS	68-IV	RDL	QC Batch
Toxaphene	ug/L	<0.2	0.2	7667749
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	71		7667749
Decachlorobiphenyl	%	97		7667749
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK109
Sample ID: 75-I
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/03	Anh Lieu
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO ₃)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH ₄	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
OC Pesticides Summed Parameters	CALC	7663279	N/A	2021/10/29	Automated Statchk
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668540	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBK109 Dup
Sample ID: 75-I
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai

Bureau Veritas ID: RBK110
Sample ID: 75-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/03	Anh Lieu
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO ₃)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH ₄	7672455	N/A	2021/11/02	Viorica Rotaru



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK110
Sample ID: 75-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/10/30	Dawn Howard
OC Pesticides Summed Parameters	CALC	7663279	N/A	2021/10/29	Automated Statchk
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668530	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/30	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBK110 Dup
Sample ID: 75-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione

Bureau Veritas ID: RBK111
Sample ID: 75-III
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/04	Anh Lieu
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7676574	2021/11/02	2021/11/05	Li Peng
OC Pesticides Summed Parameters	CALC	7663279	N/A	2021/10/29	Automated Statchk
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668540	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/01	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/02	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK111 Dup
Sample ID: 75-III
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall

Bureau Veritas ID: RBK112
Sample ID: 75-IV
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7688129	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO ₃)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679988	N/A	2021/11/05	Azita Fazaeli
Total Ammonia-N	LACH/NH ₄	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7690940	2021/11/09	2021/11/10	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBK113
Sample ID: 67-I
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/03	Anh Lieu
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO ₃)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH ₄	7672504	N/A	2021/11/01	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
OC Pesticides Summed Parameters	CALC	7663279	N/A	2021/10/29	Automated Statchk
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK113
Sample ID: 67-I
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBK113 Dup
Sample ID: 67-I
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7672504	N/A	2021/11/01	Amanpreet Sappal

Bureau Veritas ID: RBK114
Sample ID: 67-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668530	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione

Bureau Veritas ID: RBK115
Sample ID: 67-III
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7676306	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668540	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK115
Sample ID: 67-III
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBK115 Dup
Sample ID: 67-III
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/03	Prempal Bhatti

Bureau Veritas ID: RBK116
Sample ID: P4-I
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668558	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBK117
Sample ID: P4-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK117
Sample ID: P4-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBK118
Sample ID: P4-III
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7666404	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668551	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione

Bureau Veritas ID: RBK127
Sample ID: 4-IV
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7666406	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668540	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/02	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK127 Dup
Sample ID: 4-IV
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan

Bureau Veritas ID: RBK128
Sample ID: 68-I
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/03	Anh Lieu
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
OC Pesticides Summed Parameters	CALC	7663279	N/A	2021/10/29	Automated Statchk
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668540	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBK129
Sample ID: 68-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/03	Anh Lieu
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/11/01	Dawn Howard
OC Pesticides Summed Parameters	CALC	7663279	N/A	2021/10/29	Automated Statchk
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668530	N/A	2021/10/29	Deonarine Ramnarine



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK129
Sample ID: 68-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBK129 Dup
Sample ID: 68-II
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/03	Anh Lieu

Bureau Veritas ID: RBK130
Sample ID: 68-III
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/03	Anh Lieu
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO ₃)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/10/31	Dawn Howard
OC Pesticides Summed Parameters	CALC	7663279	N/A	2021/10/29	Automated Statchk
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668540	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBK130 Dup
Sample ID: 68-III
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/02	Rajni Tyagi



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBK131
Sample ID: 68-IV
Matrix: Water

Collected: 2021/10/26
Shipped:
Received: 2021/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7675840	2021/11/02	2021/11/03	Anh Lieu
Alkalinity	AT	7667812	N/A	2021/10/30	Surinder Rai
Anions	IC	7667912	N/A	2021/10/30	Fari Dehdezi
Conductivity	AT	7667814	N/A	2021/10/30	Surinder Rai
Fluoride	ISE	7667796	2021/10/28	2021/10/30	Surinder Rai
Hardness (calculated as CaCO3)		7663344	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7668630	N/A	2021/11/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7672455	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7667837	N/A	2021/10/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7667749	2021/10/28	2021/10/31	Dawn Howard
OC Pesticides Summed Parameters	CALC	7663279	N/A	2021/10/29	Automated Statchk
pH	AT	7667816	2021/10/28	2021/10/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7668540	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7667952	N/A	2021/10/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668653	2021/10/29	2021/11/01	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7671303	2021/10/30	2021/11/01	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7671293	N/A	2021/11/01	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C
Package 2	4.0°C
Package 3	3.7°C
Package 4	2.3°C
Package 5	6.0°C
Package 6	3.0°C
Package 7	2.3°C

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RBK114 [67-II] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample RBK130 [68-III] : VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

OC Pesticide Analysis: Due to the nature of the sample matrix, a smaller portion of the sample was extracted. Detection limits were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344

Report Date: 2021/11/10

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667329	4-Bromofluorobenzene	2021/10/30	104	70 - 130	103	70 - 130	100	%				
7667329	D4-1,2-Dichloroethane	2021/10/30	109	70 - 130	110	70 - 130	108	%				
7667329	D8-Toluene	2021/10/30	96	70 - 130	99	70 - 130	96	%				
7667749	2,4,5,6-Tetrachloro-m-xylene	2021/10/30	83	50 - 130	77	50 - 130	82	%				
7667749	Decachlorobiphenyl	2021/10/30	105	50 - 130	101	50 - 130	101	%				
7675840	2,4,6-Tribromophenol	2021/11/03	90	10 - 130	83	10 - 130	64	%				
7675840	2-Fluorobiphenyl	2021/11/03	67	30 - 130	62	30 - 130	68	%				
7675840	2-Fluorophenol	2021/11/03	53	10 - 130	53	10 - 130	43	%				
7675840	D14-Terphenyl	2021/11/03	97	30 - 130	97	30 - 130	96	%				
7675840	D5-Nitrobenzene	2021/11/03	81	30 - 130	86	30 - 130	85	%				
7675840	D5-Phenol	2021/11/03	34	10 - 130	35	10 - 130	33	%				
7676574	2,4,5,6-Tetrachloro-m-xylene	2021/11/04	90	50 - 130	80	50 - 130	79	%				
7676574	Decachlorobiphenyl	2021/11/04	116	50 - 130	100	50 - 130	101	%				
7667329	1,1,1,2-Tetrachloroethane	2021/10/31	108	70 - 130	111	70 - 130	<0.20	ug/L	NC	30		
7667329	1,1,1-Trichloroethane	2021/10/31	103	70 - 130	108	70 - 130	<0.10	ug/L	NC	30		
7667329	1,1,2,2-Tetrachloroethane	2021/10/31	104	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7667329	1,1,2-Trichloroethane	2021/10/31	104	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7667329	1,1-Dichloroethane	2021/10/31	93	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7667329	1,1-Dichloroethylene	2021/10/31	116	70 - 130	111	70 - 130	<0.10	ug/L	NC	30		
7667329	1,2-Dichlorobenzene	2021/10/31	98	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7667329	1,2-Dichloroethane	2021/10/31	98	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7667329	1,2-Dichloropropane	2021/10/31	99	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7667329	1,3-Dichlorobenzene	2021/10/31	98	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7667329	1,4-Dichlorobenzene	2021/10/31	116	70 - 130	120	70 - 130	<0.20	ug/L	NC	30		
7667329	Acetone (2-Propanone)	2021/10/31	139	60 - 140	113	60 - 140	<10	ug/L	NC	30		
7667329	Benzene	2021/10/31	91	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7667329	Bromodichloromethane	2021/10/31	111	70 - 130	114	70 - 130	<0.10	ug/L	NC	30		
7667329	Bromoform	2021/10/31	118	70 - 130	120	70 - 130	<0.20	ug/L	NC	30		
7667329	Bromomethane	2021/10/31	56 (1)	60 - 140	54 (1)	60 - 140	<0.50	ug/L	NC	30		
7667329	Carbon Tetrachloride	2021/10/31	105	70 - 130	110	70 - 130	<0.10	ug/L	NC	30		
7667329	Chlorobenzene	2021/10/31	98	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344

Report Date: 2021/11/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667329	Chloroethane	2021/10/31	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7667329	Chloroform	2021/10/30	98	70 - 130	100	70 - 130	<0.10	ug/L				
7667329	Chloromethane	2021/10/30	62	60 - 140	69	60 - 140	<0.50	ug/L				
7667329	cis-1,2-Dichloroethylene	2021/10/31	98	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7667329	cis-1,3-Dichloropropene	2021/10/31	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7667329	Dibromochloromethane	2021/10/31	111	70 - 130	114	70 - 130	<0.20	ug/L	NC	30		
7667329	Ethylbenzene	2021/10/31	94	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7667329	Ethylene Dibromide	2021/10/31	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7667329	Methyl Ethyl Ketone (2-Butanone)	2021/10/30	111	60 - 140	112	60 - 140	<5.0	ug/L				
7667329	Methyl Isobutyl Ketone	2021/10/30	123	70 - 130	119	70 - 130	<5.0	ug/L				
7667329	Methyl t-butyl ether (MTBE)	2021/10/30	103	70 - 130	103	70 - 130	<0.20	ug/L				
7667329	Methylene Chloride(Dichloromethane)	2021/10/31	93	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
7667329	o-Xylene	2021/10/31	98	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7667329	p+m-Xylene	2021/10/31	99	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7667329	Styrene	2021/10/31	109	70 - 130	113	70 - 130	<0.20	ug/L	NC	30		
7667329	Tetrachloroethylene	2021/10/31	89	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7667329	Toluene	2021/10/31	91	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7667329	Total Trihalomethanes	2021/10/30					<0.20	ug/L				
7667329	Total Xylenes	2021/10/31					<0.10	ug/L	NC	30		
7667329	trans-1,2-Dichloroethylene	2021/10/31	94	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7667329	trans-1,3-Dichloropropene	2021/10/31	108	70 - 130	112	70 - 130	<0.20	ug/L	NC	30		
7667329	Trichloroethylene	2021/10/30	99	70 - 130	103	70 - 130	<0.10	ug/L				
7667329	Trichlorofluoromethane (FREON 11)	2021/10/31	89	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7667329	Vinyl Chloride	2021/10/31	84	70 - 130	85	70 - 130	<0.20	ug/L	NC	30		
7667349	Acrolein	2021/10/30			96	60 - 140	<10	ug/L				
7667349	Acrylonitrile	2021/10/30			98	60 - 140	<5.0	ug/L				
7667349	Methyl Butyl Ketone (2-Hexanone)	2021/10/30	110	60 - 140	108	60 - 140	<5.0	ug/L				
7667749	a-Chlordane	2021/11/01	54	50 - 130	87	50 - 130	<0.005	ug/L	NC	30		
7667749	Aldrin	2021/11/01	60	50 - 130	79	50 - 130	<0.005	ug/L	NC	30		
7667749	alpha-BHC	2021/11/01	72	30 - 130	87	30 - 130	<0.005	ug/L	NC	40		
7667749	Aroclor 1242	2021/11/01					<0.05	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667749	Aroclor 1248	2021/11/01					<0.05	ug/L	NC	30		
7667749	Aroclor 1254	2021/11/01					<0.05	ug/L	NC	30		
7667749	Aroclor 1260	2021/11/01					<0.05	ug/L	NC	30		
7667749	beta-BHC	2021/11/01	61	30 - 130	76	30 - 130	<0.005	ug/L	NC	40		
7667749	Dieldrin	2021/11/01	77	50 - 130	98	50 - 130	<0.005	ug/L	NC	30		
7667749	Endosulfan I (alpha)	2021/11/01	80	50 - 130	94	50 - 130	<0.005	ug/L	NC	30		
7667749	Endosulfan II (beta)	2021/11/01	72	50 - 130	84	50 - 130	<0.005	ug/L	NC	30		
7667749	Endrin aldehyde	2021/11/01	72	30 - 130	77	30 - 130	<0.005	ug/L	NC	40		
7667749	Endrin ketone	2021/11/01	81	30 - 130	101	30 - 130	<0.005	ug/L	NC	40		
7667749	Endrin	2021/11/01	80	50 - 130	101	50 - 130	<0.005	ug/L	NC	30		
7667749	g-Chlordane	2021/11/01	65	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7667749	Heptachlor epoxide	2021/11/01	68	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7667749	Heptachlor	2021/11/01	68	50 - 130	79	50 - 130	<0.005	ug/L	NC	30		
7667749	Hexachlorobenzene	2021/11/01	70	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		
7667749	Hexachlorobutadiene	2021/11/01	66	50 - 130	77	50 - 130	<0.009	ug/L	NC	30		
7667749	Hexachloroethane	2021/11/01	59	50 - 130	68	50 - 130	<0.01	ug/L	NC	30		
7667749	Lindane	2021/11/01	75	50 - 130	92	50 - 130	<0.003	ug/L	NC	30		
7667749	Methoxychlor	2021/11/01	90	50 - 130	104	50 - 130	<0.01	ug/L	NC	30		
7667749	Mirex	2021/11/01	67	30 - 130	92	30 - 130	<0.005	ug/L	NC	40		
7667749	o,p-DDD	2021/11/01	79	50 - 130	103	50 - 130	<0.005	ug/L	NC	30		
7667749	o,p-DDE	2021/11/01	81	50 - 130	103	50 - 130	<0.005	ug/L	NC	30		
7667749	o,p-DDT	2021/11/01	81	50 - 130	105	50 - 130	<0.005	ug/L	NC	30		
7667749	p,p-DDD	2021/11/01	87	50 - 130	109	50 - 130	<0.005	ug/L	NC	30		
7667749	p,p-DDE	2021/11/01	92	50 - 130	96	50 - 130	<0.005	ug/L	NC	30		
7667749	p,p-DDT	2021/11/01	86	50 - 130	103	50 - 130	<0.005	ug/L	NC	30		
7667749	Toxaphene	2021/11/01					<0.2	ug/L	NC	40		
7667796	Fluoride (F-)	2021/10/30	89	80 - 120	103	80 - 120	<0.10	mg/L	0.97	20		
7667812	Alkalinity (Total as CaCO3)	2021/10/30			95	85 - 115	<1.0	mg/L	0.82	20		
7667814	Conductivity	2021/10/30			99	85 - 115	<1.0	umho/cm	7.3	25		
7667816	pH	2021/10/30			102	98 - 103			0.68	N/A		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667837	Nitrate (N)	2021/10/29	96	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
7667837	Nitrite (N)	2021/10/29	102	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
7667912	Dissolved Bromide (Br-)	2021/10/30	113	80 - 120	107	80 - 120	<1.0	mg/L	NC	20		
7667912	Dissolved Chloride (Cl-)	2021/10/30	NC	80 - 120	101	70 - 130	<1.0	mg/L	5.9	20		
7667912	Dissolved Sulphate (SO4)	2021/10/30	NC	80 - 120	103	80 - 120	<1.0	mg/L	4.5	20		
7667952	Orthophosphate (P)	2021/10/29	155 (2)	75 - 125	100	80 - 120	<0.010	mg/L	9.4	25		
7668530	Phenols-4AAP	2021/10/29	101	80 - 120	102	80 - 120	<0.0010	mg/L	0	20		
7668540	Phenols-4AAP	2021/10/29	99	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
7668551	Phenols-4AAP	2021/10/29	98	80 - 120	100	80 - 120	<0.0010	mg/L	8.0	20		
7668558	Phenols-4AAP	2021/10/29	99	80 - 120	101	80 - 120	<0.0010	mg/L	9.5	20		
7668630	Dissolved Aluminum (Al)	2021/11/03	102	80 - 120	101	80 - 120	<4.9	ug/L	7.6	20		
7668630	Dissolved Antimony (Sb)	2021/11/03	103	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7668630	Dissolved Arsenic (As)	2021/11/03	101	80 - 120	100	80 - 120	<1.0	ug/L	1.6	20		
7668630	Dissolved Barium (Ba)	2021/11/03	99	80 - 120	103	80 - 120	<2.0	ug/L	3.0	20		
7668630	Dissolved Beryllium (Be)	2021/11/03	99	80 - 120	104	80 - 120	<0.40	ug/L	NC	20		
7668630	Dissolved Bismuth (Bi)	2021/11/03	97	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7668630	Dissolved Boron (B)	2021/11/03	91	80 - 120	100	80 - 120	<10	ug/L	1.7	20		
7668630	Dissolved Cadmium (Cd)	2021/11/03	100	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7668630	Dissolved Calcium (Ca)	2021/11/03	NC	80 - 120	101	80 - 120	<200	ug/L	0.83	20		
7668630	Dissolved Chromium (Cr)	2021/11/03	97	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7668630	Dissolved Cobalt (Co)	2021/11/03	98	80 - 120	97	80 - 120	<0.50	ug/L	1.2	20		
7668630	Dissolved Copper (Cu)	2021/11/03	95	80 - 120	97	80 - 120	<0.90	ug/L	9.9	20		
7668630	Dissolved Iron (Fe)	2021/11/03	101	80 - 120	102	80 - 120	<100	ug/L	NC	20		
7668630	Dissolved Lead (Pb)	2021/11/03	95	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7668630	Dissolved Lithium (Li)	2021/11/03	103	80 - 120	108	80 - 120	<5.0	ug/L	0.51	20		
7668630	Dissolved Magnesium (Mg)	2021/11/03	NC	80 - 120	101	80 - 120	<50	ug/L	1.4	20		
7668630	Dissolved Manganese (Mn)	2021/11/03	101	80 - 120	99	80 - 120	<2.0	ug/L	0.88	20		
7668630	Dissolved Molybdenum (Mo)	2021/11/03	101	80 - 120	99	80 - 120	<0.50	ug/L	1.5	20		
7668630	Dissolved Nickel (Ni)	2021/11/03	96	80 - 120	97	80 - 120	<1.0	ug/L	4.8	20		
7668630	Dissolved Phosphorus (P)	2021/11/03	105	80 - 120	116	80 - 120	<100	ug/L	NC	20		
7668630	Dissolved Potassium (K)	2021/11/03	105	80 - 120	103	80 - 120	<200	ug/L	0.15	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668630	Dissolved Selenium (Se)	2021/11/03	95	80 - 120	97	80 - 120	<2.0	ug/L	NC	20		
7668630	Dissolved Silicon (Si)	2021/11/03	103	80 - 120	103	80 - 120	<50	ug/L	0.34	20		
7668630	Dissolved Silver (Ag)	2021/11/03	79 (2)	80 - 120	92	80 - 120	<0.090	ug/L	NC	20		
7668630	Dissolved Sodium (Na)	2021/11/03	NC	80 - 120	100	80 - 120	<100	ug/L	1.4	20		
7668630	Dissolved Strontium (Sr)	2021/11/03	NC	80 - 120	97	80 - 120	<1.0	ug/L	0.061	20		
7668630	Dissolved Tellurium (Te)	2021/11/03	90	80 - 120	99	80 - 120	<1.0	ug/L	5.0	20		
7668630	Dissolved Thallium (Tl)	2021/11/03	97	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
7668630	Dissolved Tin (Sn)	2021/11/03	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7668630	Dissolved Titanium (Ti)	2021/11/03	100	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7668630	Dissolved Tungsten (W)	2021/11/03	97	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7668630	Dissolved Uranium (U)	2021/11/03	98	80 - 120	98	80 - 120	<0.10	ug/L	1.1	20		
7668630	Dissolved Vanadium (V)	2021/11/03	100	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7668630	Dissolved Zinc (Zn)	2021/11/03	98	80 - 120	98	80 - 120	<5.0	ug/L	4.4	20		
7668630	Dissolved Zirconium (Zr)	2021/11/03	103	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7668653	Total Dissolved Solids	2021/11/01					<10	mg/L	1.8	25	100	90 - 110
7671293	Total Organic Carbon (TOC)	2021/11/01	95	80 - 120	97	80 - 120	<0.40	mg/L	0.97	20		
7671303	Total Kjeldahl Nitrogen (TKN)	2021/11/02	NC	80 - 120	101	80 - 120	<0.10	mg/L	4.1	20	105	80 - 120
7672455	Total Ammonia-N	2021/11/02	100	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7672504	Total Ammonia-N	2021/11/01	NC	75 - 125	97	80 - 120	<0.050	mg/L	5.9	20		
7675840	1,2,3,4-Tetrachlorobenzene	2021/11/03	55	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7675840	1,2,3,5-Tetrachlorobenzene	2021/11/03	53	30 - 130	49	30 - 130	<0.50	ug/L	NC	40		
7675840	1,2,3-Trichlorobenzene	2021/11/03	50	30 - 130	48	30 - 130	<0.50	ug/L	NC	40		
7675840	1,2,4,5-Tetrachlorobenzene	2021/11/03	58	30 - 130	49	30 - 130	<0.50	ug/L	NC	40		
7675840	1,2,4-Trichlorobenzene	2021/11/03	47	30 - 130	44	30 - 130	<0.50	ug/L	NC	40		
7675840	1,2-Dichlorobenzene	2021/11/03	50	30 - 130	49	30 - 130	<0.50	ug/L	NC	40		
7675840	1,3,5-Trichlorobenzene	2021/11/03	64	30 - 130	64	30 - 130	<0.50	ug/L	NC	40		
7675840	1,3-Dichlorobenzene	2021/11/03	43	30 - 130	42	30 - 130	<0.50	ug/L	NC	40		
7675840	1,4-Dichlorobenzene	2021/11/03	47	30 - 130	47	30 - 130	<0.50	ug/L	NC	40		
7675840	1-Chloronaphthalene	2021/11/03	61	30 - 130	66	30 - 130	<1.0	ug/L	NC	40		
7675840	1-Methylnaphthalene	2021/11/03	78	30 - 130	76	30 - 130	<0.20	ug/L	NC	40		
7675840	2,3,4,5-Tetrachlorophenol	2021/11/03	92	10 - 130	84	10 - 130	<0.40	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7675840	2,3,4,6-Tetrachlorophenol	2021/11/03	99	10 - 130	110	10 - 130	<0.50	ug/L	NC	40		
7675840	2,3,4-Trichlorophenol	2021/11/03	87	10 - 130	83	10 - 130	<0.50	ug/L	NC	40		
7675840	2,3,5,6-Tetrachlorophenol	2021/11/03	105	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7675840	2,3,5-Trichlorophenol	2021/11/03	95	10 - 130	93	10 - 130	<0.50	ug/L	NC	40		
7675840	2,3,6-Trichlorophenol	2021/11/03	84	10 - 130	81	10 - 130	<0.50	ug/L	NC	40		
7675840	2,3-Dichlorophenol	2021/11/03	76	10 - 130	78	10 - 130	<0.50	ug/L	NC	40		
7675840	2,4,5-Trichlorophenol	2021/11/03	98	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7675840	2,4,6-Trichlorophenol	2021/11/03	89	10 - 130	89	10 - 130	<0.50	ug/L	NC	40		
7675840	2,4-Dichlorophenol	2021/11/03	79	10 - 130	88	10 - 130	<0.30	ug/L	NC	40		
7675840	2,4-Dimethylphenol	2021/11/03	92	10 - 130	58	10 - 130	<0.50	ug/L	NC	40		
7675840	2,4-Dinitrophenol	2021/11/03	90	10 - 130	91	10 - 130	<2.0	ug/L	NC	40		
7675840	2,4-Dinitrotoluene	2021/11/03	93	30 - 130	98	30 - 130	<0.50	ug/L	NC	40		
7675840	2,5-Dichlorophenol	2021/11/03	81	10 - 130	85	10 - 130	<0.50	ug/L	NC	40		
7675840	2,6-Dichlorophenol	2021/11/03	79	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7675840	2,6-Dinitrotoluene	2021/11/03	86	30 - 130	89	30 - 130	<0.50	ug/L	NC	40		
7675840	2-Chloronaphthalene	2021/11/03	80	30 - 130	78	30 - 130	<0.50	ug/L	NC	40		
7675840	2-Chlorophenol	2021/11/03	79	10 - 130	81	10 - 130	<0.30	ug/L	NC	40		
7675840	2-Methylnaphthalene	2021/11/03	75	30 - 130	73	30 - 130	<0.20	ug/L	NC	40		
7675840	2-Nitrophenol	2021/11/03	85	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7675840	3,3'-Dichlorobenzidine	2021/11/03	57	30 - 130	80	30 - 130	<0.50	ug/L	NC	40		
7675840	3,4,5-Trichlorophenol	2021/11/03	97	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7675840	3,4-Dichlorophenol	2021/11/03	100	10 - 130	99	10 - 130	<0.50	ug/L	NC	40		
7675840	3,5-Dichlorophenol	2021/11/03	101	10 - 130	101	10 - 130	<0.50	ug/L	NC	40		
7675840	4,6-Dinitro-2-methylphenol	2021/11/03	117	10 - 130	118	10 - 130	<2.0	ug/L	NC	40		
7675840	4-Bromophenyl phenyl ether	2021/11/03	78	30 - 130	76	30 - 130	<0.30	ug/L	NC	40		
7675840	4-Chloro-3-Methylphenol	2021/11/03	85	10 - 130	78	10 - 130	<0.50	ug/L	NC	40		
7675840	4-Chlorophenyl phenyl ether	2021/11/03	74	30 - 130	74	30 - 130	<0.50	ug/L	NC	40		
7675840	4-Nitrophenol	2021/11/03	58	10 - 130	37	10 - 130	<1.4	ug/L	NC	40		
7675840	5-Nitroacenaphthene	2021/11/03	100	30 - 130	103	30 - 130	<1.0	ug/L	NC	40		
7675840	Acenaphthene	2021/11/03	86	30 - 130	88	30 - 130	<0.20	ug/L	NC	40		
7675840	Acenaphthylene	2021/11/03	80	30 - 130	76	30 - 130	<0.20	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7675840	Anthracene	2021/11/03	89	30 - 130	87	30 - 130	<0.20	ug/L	NC	40		
7675840	Benzo(a)anthracene	2021/11/03	102	30 - 130	104	30 - 130	<0.20	ug/L	NC	40		
7675840	Benzo(a)pyrene	2021/11/03	101	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7675840	Benzo(b,j)fluoranthene	2021/11/03	97	30 - 130	99	30 - 130	<0.20	ug/L	NC	40		
7675840	Benzo(g,h,i)perylene	2021/11/03	90	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7675840	Benzo(k)fluoranthene	2021/11/03	101	30 - 130	108	30 - 130	<0.20	ug/L	NC	40		
7675840	Benzyl butyl phthalate	2021/11/03	103	30 - 130	102	30 - 130	<0.50	ug/L	NC	40		
7675840	Biphenyl	2021/11/03	78	30 - 130	78	30 - 130	<0.50	ug/L	NC	40		
7675840	Bis(2-chloroethoxy)methane	2021/11/03	72	30 - 130	76	30 - 130	<0.50	ug/L	NC	40		
7675840	Bis(2-chloroethyl)ether	2021/11/03	85	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7675840	Bis(2-chloroisopropyl)ether	2021/11/03	76	30 - 130	78	30 - 130	<0.50	ug/L	NC	40		
7675840	Bis(2-ethylhexyl)phthalate	2021/11/03	102	30 - 130	99	30 - 130	<2.0	ug/L	NC	40		
7675840	Chrysene	2021/11/03	100	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7675840	Dibenzo(a,h)anthracene	2021/11/03	99	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7675840	Diethyl phthalate	2021/11/03	89	30 - 130	90	30 - 130	<1.0	ug/L	NC	40		
7675840	Dimethyl phthalate	2021/11/03	89	30 - 130	93	30 - 130	<1.0	ug/L	NC	40		
7675840	Di-N-butyl phthalate	2021/11/03	100	30 - 130	101	30 - 130	<2.0	ug/L	NC	40		
7675840	di-n-octyl phthalate	2021/11/03	108	30 - 130	107	30 - 130	<0.80	ug/L	NC	40		
7675840	Diphenyl Ether	2021/11/03	74	30 - 130	71	30 - 130	<0.30	ug/L	NC	40		
7675840	Fluoranthene	2021/11/03	96	30 - 130	97	30 - 130	<0.20	ug/L	NC	40		
7675840	Fluorene	2021/11/03	88	30 - 130	88	30 - 130	<0.20	ug/L	NC	40		
7675840	Hexachlorobenzene	2021/11/03	80	30 - 130	80	30 - 130	<0.50	ug/L	NC	40		
7675840	Hexachlorobutadiene	2021/11/03	43	30 - 130	42	30 - 130	<0.40	ug/L	NC	40		
7675840	Hexachlorocyclopentadiene	2021/11/03	42	30 - 130	51	30 - 130	<2.0	ug/L	NC	40		
7675840	Hexachloroethane	2021/11/03	41	30 - 130	39	30 - 130	<0.50	ug/L	NC	40		
7675840	Indeno(1,2,3-cd)pyrene	2021/11/03	92	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7675840	Isophorone	2021/11/03	84	30 - 130	86	30 - 130	<0.50	ug/L	NC	40		
7675840	m/p-Cresol	2021/11/03	72	10 - 130	70	10 - 130	<0.50	ug/L	NC	40		
7675840	Naphthalene	2021/11/03	72	30 - 130	69	30 - 130	<0.20	ug/L	NC	40		
7675840	Nitrobenzene	2021/11/03	77	30 - 130	78	30 - 130	<0.50	ug/L	NC	40		
7675840	N-Nitroso-di-n-propylamine	2021/11/03	103	30 - 130	106	30 - 130	<0.50	ug/L	NC	40		



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344

Report Date: 2021/11/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7675840	o-Cresol	2021/11/03	82	10 - 130	74	10 - 130	<0.50	ug/L	NC	40		
7675840	p-Chloroaniline	2021/11/03	62	30 - 130	79	30 - 130	<1.0	ug/L	NC	40		
7675840	Pentachlorobenzene	2021/11/03	68	30 - 130	62	30 - 130	<0.50	ug/L	NC	40		
7675840	Pentachlorophenol	2021/11/03	100	10 - 130	81	10 - 130	<1.0	ug/L	NC	40		
7675840	Perylene	2021/11/03	100	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7675840	Phenanthrene	2021/11/03	93	30 - 130	90	30 - 130	<0.20	ug/L	NC	40		
7675840	Phenol	2021/11/03	32	10 - 130	34	10 - 130	<0.50	ug/L	NC	40		
7675840	Pyrene	2021/11/03	110	30 - 130	110	30 - 130	<0.20	ug/L	NC	40		
7676306	Total Ammonia-N	2021/11/03	101 (3)	75 - 125	99	80 - 120	<0.050	mg/L	8.4	20		
7676574	a-Chlordane	2021/11/04	99	50 - 130	95	50 - 130	<0.005	ug/L	NC	30		
7676574	Aldrin	2021/11/04	93	50 - 130	81	50 - 130	<0.005	ug/L	NC	30		
7676574	alpha-BHC	2021/11/04	101	30 - 130	99	30 - 130	<0.005	ug/L	NC	40		
7676574	Aroclor 1242	2021/11/04					<0.05	ug/L				
7676574	Aroclor 1248	2021/11/04					<0.05	ug/L				
7676574	Aroclor 1254	2021/11/04					<0.05	ug/L				
7676574	Aroclor 1260	2021/11/04					<0.05	ug/L				
7676574	beta-BHC	2021/11/04	91	30 - 130	93	30 - 130	<0.005	ug/L	NC	40		
7676574	Dieldrin	2021/11/04	115	50 - 130	110	50 - 130	<0.005	ug/L	NC	30		
7676574	Endosulfan I (alpha)	2021/11/04	95	50 - 130	94	50 - 130	<0.005	ug/L	NC	30		
7676574	Endosulfan II (beta)	2021/11/04	98	50 - 130	90	50 - 130	<0.005	ug/L	NC	30		
7676574	Endrin aldehyde	2021/11/04	84	30 - 130	86	30 - 130	<0.005	ug/L	NC	40		
7676574	Endrin ketone	2021/11/04	105	30 - 130	93	30 - 130	<0.005	ug/L	NC	40		
7676574	Endrin	2021/11/04	106	50 - 130	102	50 - 130	<0.005	ug/L	NC	30		
7676574	g-Chlordane	2021/11/04	101	50 - 130	97	50 - 130	<0.005	ug/L	NC	30		
7676574	Heptachlor epoxide	2021/11/04	101	50 - 130	97	50 - 130	<0.005	ug/L	NC	30		
7676574	Heptachlor	2021/11/04	93	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7676574	Hexachlorobenzene	2021/11/04	93	50 - 130	90	50 - 130	<0.005	ug/L	NC	30		
7676574	Hexachlorobutadiene	2021/11/04	97	50 - 130	80	50 - 130	<0.009	ug/L	11	30		
7676574	Hexachloroethane	2021/11/04	83	50 - 130	69	50 - 130	<0.01	ug/L	8.0	30		
7676574	Lindane	2021/11/04	115	50 - 130	114	50 - 130	<0.003	ug/L	NC	30		
7676574	Methoxychlor	2021/11/04	122	50 - 130	110	50 - 130	<0.01	ug/L	NC	30		



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344

Report Date: 2021/11/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7676574	Mirex	2021/11/04	109	30 - 130	94	30 - 130	<0.005	ug/L	NC	40		
7676574	o,p-DDD	2021/11/04	122	50 - 130	113	50 - 130	<0.005	ug/L	NC	30		
7676574	o,p-DDE	2021/11/04	118	50 - 130	112	50 - 130	<0.005	ug/L	NC	30		
7676574	o,p-DDT	2021/11/04	104	50 - 130	99	50 - 130	<0.005	ug/L	NC	30		
7676574	p,p-DDD	2021/11/04	115	50 - 130	107	50 - 130	<0.005	ug/L	NC	30		
7676574	p,p-DDE	2021/11/04	97	50 - 130	95	50 - 130	<0.005	ug/L	NC	30		
7676574	p,p-DDT	2021/11/04	91	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7676574	Toxaphene	2021/11/04					<0.2	ug/L	NC	40		
7679988	Dissolved Aluminum (Al)	2021/11/05	99	80 - 120	100	80 - 120	<4.9	ug/L				
7679988	Dissolved Antimony (Sb)	2021/11/05	105	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7679988	Dissolved Arsenic (As)	2021/11/05	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7679988	Dissolved Barium (Ba)	2021/11/05	101	80 - 120	98	80 - 120	<2.0	ug/L	4.6	20		
7679988	Dissolved Beryllium (Be)	2021/11/05	97	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7679988	Dissolved Bismuth (Bi)	2021/11/05	92	80 - 120	94	80 - 120	<1.0	ug/L				
7679988	Dissolved Boron (B)	2021/11/05	96	80 - 120	97	80 - 120	<10	ug/L	0.94	20		
7679988	Dissolved Cadmium (Cd)	2021/11/05	99	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7679988	Dissolved Calcium (Ca)	2021/11/05	NC	80 - 120	100	80 - 120	<200	ug/L				
7679988	Dissolved Chromium (Cr)	2021/11/05	98	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7679988	Dissolved Cobalt (Co)	2021/11/05	96	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7679988	Dissolved Copper (Cu)	2021/11/05	95	80 - 120	97	80 - 120	<0.90	ug/L	0	20		
7679988	Dissolved Iron (Fe)	2021/11/05	97	80 - 120	98	80 - 120	<100	ug/L				
7679988	Dissolved Lead (Pb)	2021/11/05	90	80 - 120	94	80 - 120	<0.50	ug/L	NC	20		
7679988	Dissolved Lithium (Li)	2021/11/05	95	80 - 120	99	80 - 120	<5.0	ug/L				
7679988	Dissolved Magnesium (Mg)	2021/11/05	98	80 - 120	98	80 - 120	<50	ug/L				
7679988	Dissolved Manganese (Mn)	2021/11/05	101	80 - 120	100	80 - 120	<2.0	ug/L				
7679988	Dissolved Molybdenum (Mo)	2021/11/05	102	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7679988	Dissolved Nickel (Ni)	2021/11/05	95	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7679988	Dissolved Phosphorus (P)	2021/11/05	105	80 - 120	107	80 - 120	<100	ug/L				
7679988	Dissolved Potassium (K)	2021/11/05	100	80 - 120	99	80 - 120	<200	ug/L				
7679988	Dissolved Selenium (Se)	2021/11/05	97	80 - 120	96	80 - 120	<2.0	ug/L	NC	20		
7679988	Dissolved Silicon (Si)	2021/11/05	99	80 - 120	100	80 - 120	<50	ug/L				



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344

Report Date: 2021/11/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679988	Dissolved Silver (Ag)	2021/11/05	96	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7679988	Dissolved Sodium (Na)	2021/11/05	99	80 - 120	99	80 - 120	<100	ug/L	1.7	20		
7679988	Dissolved Strontium (Sr)	2021/11/05	98	80 - 120	96	80 - 120	<1.0	ug/L				
7679988	Dissolved Tellurium (Te)	2021/11/05	103	80 - 120	101	80 - 120	<1.0	ug/L				
7679988	Dissolved Thallium (Tl)	2021/11/05	91	80 - 120	93	80 - 120	<0.050	ug/L	NC	20		
7679988	Dissolved Tin (Sn)	2021/11/05	103	80 - 120	101	80 - 120	<1.0	ug/L				
7679988	Dissolved Titanium (Ti)	2021/11/05	95	80 - 120	98	80 - 120	<5.0	ug/L				
7679988	Dissolved Tungsten (W)	2021/11/05	97	80 - 120	97	80 - 120	<1.0	ug/L				
7679988	Dissolved Uranium (U)	2021/11/05	94	80 - 120	95	80 - 120	<0.10	ug/L	6.5	20		
7679988	Dissolved Vanadium (V)	2021/11/05	100	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7679988	Dissolved Zinc (Zn)	2021/11/05	95	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7679988	Dissolved Zirconium (Zr)	2021/11/05	105	80 - 120	103	80 - 120	<1.0	ug/L				
7688129	Conductivity	2021/11/09			102	85 - 115	<1.0	umho/cm	1.1	25		
7690940	Total Dissolved Solids	2021/11/10					<10	mg/L	12	25	100	90 - 110

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

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

(3) C1V5344 -RBK115-06 reported from TKN bottle.



BUREAU
VERITAS

Bureau Veritas Job #: C1V5344
Report Date: 2021/11/10

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

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

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.

CHAIN OF CUSTODY RECORD



Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569			
Attention: Accounting	Attention:	P.O. #: GW			
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project:			
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel:	Project Name:			
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:			
		Sampled By:			

27-Oct-21 15:50
Jolanta Goralczyk
C1V5344
Order #: 327
Manager: Joralczyk

VRV ENV-782 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.
Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ (call lab for #)

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Indi/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____	<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____	

Include Criteria on Certificate of Analysis (Y/N)?

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals) Hg / Cr / V	Let 'A' GW Monitoring	Let 'B' GW Monitoring	Biochemical Oxygen Demand (BOD)	# of Bottles	Comments
1	75 - I	21/10/26	N/A	GW	Y	X	X		13	
2	75 - II				Y	X	X		13	
3	75 - III				Y	X	X		13	
4	75 - IV				Y	X			6	
5	67 - I				Y	X	X		13	
6	67 - II				Y	X			6	
7	67 - III				Y	X			6	
8	P4 - I				Y	X			6	
9	P4 - II				Y	X			6	
10	P4 - III				Y	X			6	

RELINQUISHED BY: (Signature/Print) C. Ambrose / Cooper Richardson	Date: (YY/MM/DD) 21/10/27	Time 9:15	RECEIVED BY: (Signature/Print) Roy. Maloni	Date: (YY/MM/DD) 21/10/27	Time 15:50	# jars used and not submitted
--	------------------------------	--------------	---	------------------------------	---------------	-------------------------------

Laboratory Use Only		Custody Seal	Yes	No
Time Sensitive	Temperature (°C) on Receipt 21-20-ACIR	Present	-	-
		Intact	-	-

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
* 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.
* SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS
White: BV Labs Yellow: Client
ON FILE



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention:		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		COC #:	
Address: Stoney Creek ON L8J 1X5		Address:		Project Name:		Project Manager:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		Jolanta Goralczyk	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com, dtaylor2@terrapureenv.com		Sampled By:		C8347927-29-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)						Turnaround Time (TAT) Required Please provide advance notice for rush projects		
Regulation 153 (2011)			Other Regulations			Special Instructions			Field Filtered (please circle) Metals / Hg / Cr / VI	List "A" GW Monitoring	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)	Regular (Standard) TAT: <small>(will be applied if Rush TAT is not specified)</small>	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw										
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw					Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.					
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality	Job Specific Rush TAT (if applies to entire submission)		Date Required: _____ Time Required: _____							
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table	Rush Confirmation Number: _____ (call lab for #)									
<input type="checkbox"/> Other _____			<input type="checkbox"/> Other _____											
Include Criteria on Certificate of Analysis (Y/N)?						# of Bottles		Comments						
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix										
1	4-IV	2/10/26	N/A	GW	Y	X			6					
2	68-I	↓	↓		Y	X	X		13					
3	68-II	↓	↓		Y	X	X		13					
4	68-III	↓	↓		Y	X	X		13					
5	68-IV	↓	↓		Y	X	X		13					
6														
7														
8														
9														
10														

* RELINQUISHED BY: (Signature/Print) <i>C. Richardson / Cooper Richardson</i>		Date: (YY/MM/DD) 2/10/27	Time 9:15	RECEIVED BY: (Signature/Print) <i>see page 1</i>		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
								Time Sensitive	Temperature (°C) on Reel:	Custody Seal Present	Yes	No
										Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS AN ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT 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.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 847927-28-01, 847927-27-01, 847927-26-01

Report Date: 2021/11/09
Report #: R6894304
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V6641

Received: 2021/10/28, 16:05

Sample Matrix: Water
Samples Received: 22

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	4	2021/10/29	2021/10/30	CAM SOP-00301	EPA 8270 m
Alkalinity	21	N/A	2021/11/01	CAM SOP-00448	SM 23 2320 B m
Anions	3	N/A	2021/11/01	CAM SOP-00435	SM 23 4110 B m
Anions	18	N/A	2021/11/02	CAM SOP-00435	SM 23 4110 B m
Conductivity	21	N/A	2021/11/01	CAM SOP-00414	SM 23 2510 m
Fluoride	20	2021/10/29	2021/11/01	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2021/10/30	2021/11/01	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/11/02	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	20	N/A	2021/11/04	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/11/01	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	20	N/A	2021/11/04	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	9	N/A	2021/11/02	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	12	N/A	2021/11/03	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	21	N/A	2021/11/01	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	4	2021/11/01	2021/11/02	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	4	N/A	2021/11/01	CAM SOP-00307	EPA 8081A/8082B m
pH	20	2021/10/29	2021/11/01	CAM SOP-00413	SM 4500H+ B m
pH	1	2021/10/30	2021/11/01	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	5	N/A	2021/10/29	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	10	N/A	2021/10/30	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	5	N/A	2021/11/01	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/11/03	CAM SOP-00444	OMOE E3179 m
Orthophosphate	21	N/A	2021/11/01	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	19	2021/10/30	2021/11/02	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	1	2021/11/01	2021/11/02	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	1	2021/11/08	2021/11/09	CAM SOP-00428	SM 23 2540C m



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 847927-28-01, 847927-27-01, 847927-26-01

Report Date: 2021/11/09

Report #: R6894304

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V6641

Received: 2021/10/28, 16:05

Sample Matrix: Water
Samples Received: 22

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Kjeldahl Nitrogen in Water	4	2021/11/01	2021/11/02	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	17	2021/11/01	2021/11/03	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	21	N/A	2021/11/02	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	4	N/A	2021/10/31	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	4	N/A	2021/10/30	CAM SOP-00226	EPA 8260 m

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

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

(3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

09 Nov 2021 18:27:44

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

Jolanta Goralczyk, Project Manager

Email: Jolanta.Goralczyk@bureauveritas.com

Phone# (905)817-5751

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This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR016			RBR017		RBR018		
Sampling Date		2021/10/27			2021/10/27		2021/10/27		
COC Number		847927-28-01			847927-28-01		847927-28-01		
	UNITS	P11-I	RDL	QC Batch	P11-II	RDL	P11-III	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	2100	1.0	7665950	760	1.0	64	1.0	7665950
Inorganics									
Total Ammonia-N	mg/L	37	0.25	7676243	0.59	0.050	16	0.050	7676243
Conductivity	umho/cm	8300	1.0	7670337	1700	1.0	1500	1.0	7670337
Total Dissolved Solids	mg/L	5880	20	7668807	1150	10	935	10	7668807
Fluoride (F-)	mg/L	1.0	0.10	7670328	0.46	0.10	1.8	0.10	7670328
Total Kjeldahl Nitrogen (TKN)	mg/L	41	2.0	7673057	0.74	0.10	18	1.0	7673057
Total Organic Carbon (TOC)	mg/L	5.9	0.40	7673030	1.3	0.40	24	0.40	7673030
Orthophosphate (P)	mg/L	<0.010	0.010	7670545	<0.010	0.010	<0.010	0.010	7670553
pH	pH	7.26		7670342	7.75		9.61		7670342
Phenols-4AAP	mg/L	0.0011	0.0010	7669965	<0.0010	0.0010	0.26	0.020	7669980
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7670335	310	1.0	66	1.0	7670335
Nitrite (N)	mg/L	<0.010	0.010	7670507	<0.010	0.010	<0.010	0.010	7670507
Dissolved Chloride (Cl-)	mg/L	1500	20	7670582	200	5.0	200	5.0	7670582
Nitrate (N)	mg/L	<0.10	0.10	7670507	<0.10	0.10	<0.10	0.10	7670507
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7670507	<0.10	0.10	<0.10	0.10	7670507
Dissolved Bromide (Br-)	mg/L	<20	20	7670582	<5.0	5.0	<5.0	5.0	7670582
Dissolved Sulphate (SO4)	mg/L	1600	20	7670582	330	5.0	330	5.0	7670582
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



**BUREAU
VERITAS**

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR018			RBR019			RBR019		
Sampling Date		2021/10/27			2021/10/27			2021/10/27		
COC Number		847927-28-01			847927-28-01			847927-28-01		
	UNITS	P11-III Lab-Dup	RDL	QC Batch	2-II	RDL	QC Batch	2-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1900	1.0	7665950			
Inorganics										
Total Ammonia-N	mg/L				82	0.50	7675820			
Conductivity	umho/cm				14000	1.0	7670337			
Total Dissolved Solids	mg/L	935	10	7668807	8050	20	7668807			
Fluoride (F-)	mg/L				4.1	0.10	7670328			
Total Kjeldahl Nitrogen (TKN)	mg/L				90	2.0	7673054	91	2.0	7673054
Total Organic Carbon (TOC)	mg/L				17	0.40	7673030			
Orthophosphate (P)	mg/L				0.026	0.010	7670553			
pH	pH				8.45		7670342			
Phenols-4AAP	mg/L				0.23	0.050	7669980			
Alkalinity (Total as CaCO3)	mg/L				61	1.0	7670335			
Nitrite (N)	mg/L				<0.010	0.010	7670507			
Dissolved Chloride (Cl-)	mg/L				3500	50	7670582			
Nitrate (N)	mg/L				<0.10	0.10	7670507			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7670507			
Dissolved Bromide (Br-)	mg/L				<50	50	7670582			
Dissolved Sulphate (SO4)	mg/L				2500	50	7670582			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR020			RBR020			RBR022		
Sampling Date		2021/10/27			2021/10/27			2021/10/27		
COC Number		847927-28-01			847927-28-01			847927-28-01		
	UNITS	2-IV	RDL	QC Batch	2-IV Lab-Dup	RDL	QC Batch	35-IV	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	7665950				1900	1.0	7665950
Inorganics										
Total Ammonia-N	mg/L	38	0.25	7676243	38	0.25	7676243	83	0.25	7673063
Conductivity	umho/cm	8300	1.0	7670337				14000	1.0	7670337
Total Dissolved Solids	mg/L	5820	20	7668807				9110	20	7668807
Fluoride (F-)	mg/L	1.1	0.10	7670328				4.5	0.10	7670328
Total Kjeldahl Nitrogen (TKN)	mg/L	39	2.0	7673057				89	5.0	7673057
Total Organic Carbon (TOC)	mg/L	5.8	0.40	7673030	5.9	0.40	7673030	18	0.40	7673030
Orthophosphate (P)	mg/L	<0.010	0.010	7670545				0.013	0.010	7670545
pH	pH	7.24		7670342				8.90		7670342
Phenols-4AAP	mg/L	<0.0010	0.0010	7669980				0.24	0.050	7669965
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7670335				98	1.0	7670335
Nitrite (N)	mg/L	<0.010	0.010	7670507				<0.010	0.010	7670507
Dissolved Chloride (Cl-)	mg/L	1700	20	7670582				3300	50	7670578
Nitrate (N)	mg/L	<0.10	0.10	7670507				<0.10	0.10	7670507
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7670507				<0.10	0.10	7670507
Dissolved Bromide (Br-)	mg/L	<20	20	7670582				<50	50	7670578
Dissolved Sulphate (SO4)	mg/L	1800	20	7670582				2500	50	7670578

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR022			RBR023			RBR023		
Sampling Date		2021/10/27			2021/10/27			2021/10/27		
COC Number		847927-28-01			847927-28-01			847927-28-01		
	UNITS	35-IV Lab-Dup	RDL	QC Batch	4-I	RDL	QC Batch	4-I Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				1700	1.0	7665950			
Inorganics										
Total Ammonia-N	mg/L				4.5	0.050	7675820			
Conductivity	umho/cm				4300	1.0	7670337			
Total Dissolved Solids	mg/L				3200	10	7668807			
Fluoride (F-)	mg/L				0.72	0.10	7670328			
Total Kjeldahl Nitrogen (TKN)	mg/L				4.6	1.0	7673057			
Total Organic Carbon (TOC)	mg/L				1.9	0.40	7673030			
Orthophosphate (P)	mg/L				<0.010	0.010	7670553	<0.010	0.010	7670553
pH	pH				7.74		7670342			
Phenols-4AAP	mg/L				<0.0010	0.0010	7669965			
Alkalinity (Total as CaCO3)	mg/L				250	1.0	7670335			
Nitrite (N)	mg/L				<0.010	0.010	7670507			
Dissolved Chloride (Cl-)	mg/L	3300	50	7670578	550	10	7670582			
Nitrate (N)	mg/L				<0.10	0.10	7670507			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7670507			
Dissolved Bromide (Br-)	mg/L	<50	50	7670578	<10	10	7670582			
Dissolved Sulphate (SO4)	mg/L	2500	50	7670578	1300	10	7670582			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR024			RBR025			RBR113		
Sampling Date		2021/10/27			2021/10/27			2021/10/27		
COC Number		847927-28-01			847927-28-01			847927-27-01		
	UNITS	36-IR	RDL	QC Batch	36-IIR	RDL	QC Batch	36-IVR	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2200	1.0	7665950	5500	1.0	7665950	640	1.0	7665950
Inorganics										
Total Ammonia-N	mg/L	9.2	0.050	7675820	8.5	0.050	7673063	<0.050	0.050	7675820
Conductivity	umho/cm	6800	1.0	7670337	21000	1.0	7670337	1400	1.0	7670337
Total Dissolved Solids	mg/L	5030	20	7668807	15500	20	7668807	935	10	7668807
Fluoride (F-)	mg/L	1.0	0.10	7670328	0.68	0.10	7670328	0.99	0.10	7670328
Total Kjeldahl Nitrogen (TKN)	mg/L	10	1.0	7673057	9.0	1.0	7673057	0.29	0.10	7673057
Total Organic Carbon (TOC)	mg/L	2.6	0.40	7673030	1.9	0.40	7673030	3.7	0.40	7673030
Orthophosphate (P)	mg/L	<0.010	0.010	7670553	0.021	0.010	7670553	<0.010	0.010	7670545
pH	pH	7.50		7670342	7.84		7670342	7.99		7670342
Phenols-4AAP	mg/L	<0.0010	0.0010	7669980	0.0040	0.0010	7669980	<0.0010	0.0010	7669965
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7670335	230	1.0	7670335	300	1.0	7670335
Nitrite (N)	mg/L	<0.010	0.010	7670507	<0.010	0.010	7670507	<0.010	0.010	7670507
Dissolved Chloride (Cl-)	mg/L	1200	10	7670582	6600	100	7670582	110	1.0	7670582
Nitrate (N)	mg/L	<0.10	0.10	7670507	<0.10	0.10	7670507	0.30	0.10	7670507
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7670507	<0.10	0.10	7670507	0.30	0.10	7670507
Dissolved Bromide (Br-)	mg/L	<10	10	7670582	<100	100	7670582	<1.0	1.0	7670582
Dissolved Sulphate (SO4)	mg/L	1600	10	7670582	2000	100	7670582	320	1.0	7670582
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR114			RBR115		RBR116		
Sampling Date		2021/10/27			2021/10/27		2021/10/27		
COC Number		847927-27-01			847927-27-01		847927-27-01		
	UNITS	36-VR	RDL	QC Batch	P1-I	QC Batch	P1-II	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	600	1.0	7668088	1700	7668089	1500	1.0	7668089
Inorganics									
Total Ammonia-N	mg/L	20	0.050	7673063	36	7673063	35	0.25	7673063
Conductivity	umho/cm	4300	1.0	7670337	6300	7670337	6100	1.0	7670337
Total Dissolved Solids	mg/L	2340	10	7668807	4400	7668807	4070	20	7687931
Fluoride (F ⁻)	mg/L	2.4	0.10	7670328	0.98	7670328	0.99	0.10	7670328
Total Kjeldahl Nitrogen (TKN)	mg/L	20	1.0	7673057	37	7673057	39	2.0	7673057
Total Organic Carbon (TOC)	mg/L	6.4	0.40	7673030	6.4	7673030	6.7	0.40	7673030
Orthophosphate (P)	mg/L	<0.010	0.010	7670545	<0.010	7670553	<0.010	0.010	7670545
pH	pH	7.76		7670342	7.39	7670342	7.43		7670342
Phenols-4AAP	mg/L	0.11	0.010	7669965	0.0013	7669965	0.0015	0.0010	7669980
Alkalinity (Total as CaCO ₃)	mg/L	100	1.0	7670335	180	7670335	190	1.0	7670335
Nitrite (N)	mg/L	<0.010	0.010	7670507	<0.010	7670507	<0.010	0.010	7670507
Dissolved Chloride (Cl ⁻)	mg/L	820	10	7670582	1100	7670582	1100	10	7670582
Nitrate (N)	mg/L	<0.10	0.10	7670507	<0.10	7670507	<0.10	0.10	7670507
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7670507	<0.10	7670507	<0.10	0.10	7670507
Dissolved Bromide (Br ⁻)	mg/L	<10	10	7670582	<10	7670582	<10	10	7670582
Dissolved Sulphate (SO ₄)	mg/L	630	10	7670582	1500	7670582	1400	10	7670582
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR117			RBR117			RBR118		
Sampling Date		2021/10/27			2021/10/27			2021/10/27		
COC Number		847927-27-01			847927-27-01			847927-27-01		
	UNITS	P1-III	RDL	QC Batch	P1-III Lab-Dup	RDL	QC Batch	62-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	440	1.0	7668089				2200	1.0	7668089
Inorganics										
Total Ammonia-N	mg/L	0.24	0.050	7676243				22	0.050	7673063
Conductivity	umho/cm	910	1.0	7670337				7600	1.0	7670337
Total Dissolved Solids	mg/L	530	10	7668807				5470	20	7668807
Fluoride (F-)	mg/L	1.0	0.10	7670328				0.96	0.10	7670328
Total Kjeldahl Nitrogen (TKN)	mg/L	0.65	0.10	7673057				23	1.0	7673057
Total Organic Carbon (TOC)	mg/L	5.9	0.40	7673030				3.5	0.40	7673030
Orthophosphate (P)	mg/L	0.045	0.010	7670553				<0.010	0.010	7670553
pH	pH	7.98		7670342				7.27		7670342
Phenols-4AAP	mg/L	<0.0010	0.0010	7669965				<0.0010	0.0010	7669965
Alkalinity (Total as CaCO3)	mg/L	310	1.0	7670335				180	1.0	7670335
Nitrite (N)	mg/L	<0.010	0.010	7670507	<0.010	0.010	7670507	<0.010	0.010	7670507
Dissolved Chloride (Cl-)	mg/L	35	1.0	7670582				1400	20	7670578
Nitrate (N)	mg/L	0.25	0.10	7670507	0.25	0.10	7670507	<0.10	0.10	7670507
Nitrate + Nitrite (N)	mg/L	0.25	0.10	7670507	0.25	0.10	7670507	<0.10	0.10	7670507
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7670582				<20	20	7670578
Dissolved Sulphate (SO4)	mg/L	140	1.0	7670582				1600	20	7670578

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR118			RBR119			RBR119		
Sampling Date		2021/10/27			2021/10/27			2021/10/27		
COC Number		847927-27-01			847927-27-01			847927-27-01		
	UNITS	62-I Lab-Dup	RDL	QC Batch	62-II	RDL	QC Batch	62-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1700	1.0	7668089			
Inorganics										
Total Ammonia-N	mg/L				22	0.050	7675820	23	0.050	7675820
Conductivity	umho/cm				6000	1.0	7670337			
Total Dissolved Solids	mg/L				3900	10	7668807			
Fluoride (F-)	mg/L				0.96	0.10	7670328			
Total Kjeldahl Nitrogen (TKN)	mg/L	23	1.0	7673057	24	1.0	7673057			
Total Organic Carbon (TOC)	mg/L				3.8	0.40	7673030			
Orthophosphate (P)	mg/L				<0.010	0.010	7670553			
pH	pH				7.38		7670342			
Phenols-4AAP	mg/L				<0.0010	0.0010	7669965			
Alkalinity (Total as CaCO3)	mg/L				200	1.0	7670335			
Nitrite (N)	mg/L				<0.010	0.010	7670507			
Dissolved Chloride (Cl-)	mg/L				1200	10	7670578			
Nitrate (N)	mg/L				<0.10	0.10	7670507			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7670507			
Dissolved Bromide (Br-)	mg/L				<10	10	7670578			
Dissolved Sulphate (SO4)	mg/L				1500	10	7670578			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR120			RBR120			RBR121		
Sampling Date		2021/10/27			2021/10/27			2021/10/27		
COC Number		847927-27-01			847927-27-01			847927-27-01		
	UNITS	62-III	RDL	QC Batch	62-III Lab-Dup	RDL	QC Batch	62-IV	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	650	1.0	7668089				470	1.0	7668089
Inorganics										
Total Ammonia-N	mg/L	0.19	0.050	7673063				<0.050	0.050	7673063
Conductivity	umho/cm	1600	1.0	7670337	1600	1.0	7670337	1100	1.0	7671663
Total Dissolved Solids	mg/L	990	10	7668807				675	10	7668807
Fluoride (F-)	mg/L	0.20	0.10	7670328	0.20	0.10	7670328	0.32	0.10	7671648
Total Kjeldahl Nitrogen (TKN)	mg/L	0.37	0.10	7673057				0.29	0.10	7673057
Total Organic Carbon (TOC)	mg/L	1.8	0.40	7673030				3.4	0.40	7673030
Orthophosphate (P)	mg/L	<0.010	0.010	7670545				<0.010	0.010	7670553
pH	pH	7.62		7670342	7.60		7670342	7.79		7671657
Phenols-4AAP	mg/L	<0.0010	0.0010	7669965				<0.0010	0.0010	7669965
Alkalinity (Total as CaCO3)	mg/L	370	1.0	7670335	370	1.0	7670335	290	1.0	7671652
Nitrite (N)	mg/L	<0.010	0.010	7670507				<0.010	0.010	7670507
Dissolved Chloride (Cl-)	mg/L	180	5.0	7670582				120	1.0	7670582
Nitrate (N)	mg/L	<0.10	0.10	7670507				<0.10	0.10	7670507
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7670507				<0.10	0.10	7670507
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7670582				<1.0	1.0	7670582
Dissolved Sulphate (SO4)	mg/L	260	5.0	7670582				130	1.0	7670582

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR121			RBR122			RBR155		
Sampling Date		2021/10/27			2021/10/27			2021/10/27		
COC Number		847927-27-01			847927-27-01			847927-26-01		
	UNITS	62-IV Lab-Dup	RDL	QC Batch	41-I	RDL	QC Batch	41-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1700	1.0	7668089	690	1.0	7665950
Inorganics										
Total Ammonia-N	mg/L				4.5	0.050	7675820	<0.050	0.050	7673063
Conductivity	umho/cm	1100	1.0	7671663	4300	1.0	7670337	1200	1.0	7670337
Total Dissolved Solids	mg/L				3210	10	7668807	775	10	7668807
Fluoride (F-)	mg/L	0.29	0.10	7671648	0.72	0.10	7670328	0.37	0.10	7670328
Total Kjeldahl Nitrogen (TKN)	mg/L				4.6	1.0	7673057	0.42	0.10	7673057
Total Organic Carbon (TOC)	mg/L				1.8	0.40	7673030	4.2	0.40	7673030
Orthophosphate (P)	mg/L				<0.010	0.010	7670545	<0.010	0.010	7670545
pH	pH	7.79		7671657	7.54		7670342	7.65		7670342
Phenols-4AAP	mg/L				<0.0010	0.0010	7669965	<0.0010	0.0010	7677083
Alkalinity (Total as CaCO3)	mg/L	300	1.0	7671652	260	1.0	7670335	520	1.0	7670335
Nitrite (N)	mg/L				<0.010	0.010	7670521	<0.010	0.010	7670507
Dissolved Chloride (Cl-)	mg/L				570	10	7670582	53	1.0	7670582
Nitrate (N)	mg/L				<0.10	0.10	7670521	<0.10	0.10	7670507
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7670521	<0.10	0.10	7670507
Dissolved Bromide (Br-)	mg/L				<10	10	7670582	<1.0	1.0	7670582
Dissolved Sulphate (SO4)	mg/L				1400	10	7670582	110	1.0	7670582

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RBR156		
Sampling Date		2021/10/27		
COC Number		847927-26-01		
	UNITS	41-III	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	670	1.0	7668089
Inorganics				
Total Ammonia-N	mg/L	<0.050	0.050	7675820
Conductivity	umho/cm	1400	1.0	7670337
Total Dissolved Solids	mg/L	780	10	7668818
Fluoride (F-)	mg/L	0.33	0.10	7670328
Total Kjeldahl Nitrogen (TKN)	mg/L	0.23	0.10	7673057
Total Organic Carbon (TOC)	mg/L	3.7	0.40	7675024
Orthophosphate (P)	mg/L	<0.010	0.010	7670553
pH	pH	7.69		7670342
Phenols-4AAP	mg/L	<0.0010	0.0010	7669980
Alkalinity (Total as CaCO3)	mg/L	540	1.0	7670335
Nitrite (N)	mg/L	<0.010	0.010	7670507
Dissolved Chloride (Cl-)	mg/L	69	1.0	7670582
Nitrate (N)	mg/L	<0.10	0.10	7670507
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7670507
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7670582
Dissolved Sulphate (SO4)	mg/L	140	1.0	7670582
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBR016		RBR017	RBR018		RBR019		RBR020		
Sampling Date		2021/10/27		2021/10/27	2021/10/27		2021/10/27		2021/10/27		
COC Number		847927-28-01		847927-28-01	847927-28-01		847927-28-01		847927-28-01		
	UNITS	P11-I	RDL	P11-II	P11-III	RDL	2-II	RDL	2-IV	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	5.4	<4.9	4.9	<25	25	<4.9	4.9	7669712
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	7669712
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.6	1.0	<5.0	5.0	<1.0	1.0	7669712
Dissolved Barium (Ba)	ug/L	21	2.0	10	12	2.0	10	10	21	2.0	7669712
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	<2.0	2.0	<0.40	0.40	7669712
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	7669712
Dissolved Boron (B)	ug/L	1200	10	360	190	10	1800	50	1200	10	7669712
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.45	0.45	<0.090	0.090	7669712
Dissolved Calcium (Ca)	ug/L	700000	1000	190000	25000	200	690000	1000	680000	1000	7669712
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<25	25	<5.0	5.0	7669712
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	7669712
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	<4.5	4.5	<0.90	0.90	7669712
Dissolved Iron (Fe)	ug/L	<100	100	<100	<100	100	<500	500	<100	100	7669712
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	7669712
Dissolved Lithium (Li)	ug/L	290	5.0	76	16	5.0	310	25	290	5.0	7669712
Dissolved Magnesium (Mg)	ug/L	92000	50	67000	350	50	32000	250	91000	50	7669712
Dissolved Manganese (Mn)	ug/L	66	2.0	31	<2.0	2.0	16	10	65	2.0	7669712
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	22	0.50	21	2.5	<0.50	0.50	7669712
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	4.9	1.0	7.3	5.0	<1.0	1.0	7669712
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	100	<500	500	<100	100	7669712
Dissolved Potassium (K)	ug/L	64000	200	9400	49000	200	99000	1000	64000	200	7669712
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	<10	10	<2.0	2.0	7669712
Dissolved Silicon (Si)	ug/L	4600	50	4200	11000	50	3000	250	4600	50	7669712
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.45	0.45	<0.090	0.090	7669712
Dissolved Sodium (Na)	ug/L	970000	500	83000	250000	100	2300000	500	930000	500	7669712
Dissolved Strontium (Sr)	ug/L	9000	1.0	4800	500	1.0	6100	5.0	8800	1.0	7669712
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	7669712
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	0.050	<0.25	0.25	<0.050	0.050	7669712
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	7669712
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<25	25	<5.0	5.0	7669712
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	8.6	1.0	9.6	5.0	<1.0	1.0	7669712
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.10	<0.10	0.10	<0.50	0.50	<0.10	0.10	7669712
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.69	0.50	<2.5	2.5	<0.50	0.50	7669712
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<25	25	<5.0	5.0	7669712
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	7669712

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBR022		RBR023		RBR024		RBR025		
Sampling Date		2021/10/27		2021/10/27		2021/10/27		2021/10/27		
COC Number		847927-28-01		847927-28-01		847927-28-01		847927-28-01		
	UNITS	35-IV	RDL	4-I	RDL	36-IR	RDL	36-IIR	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	29	25	<4.9	4.9	<4.9	4.9	<25	25	7669712
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	0.50	<0.50	0.50	<2.5	2.5	7669712
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7669712
Dissolved Barium (Ba)	ug/L	12	10	14	2.0	20	2.0	21	10	7669712
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	0.40	<0.40	0.40	<2.0	2.0	7669712
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7669712
Dissolved Boron (B)	ug/L	1800	50	390	10	2700	10	5100	50	7669712
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	0.090	<0.090	0.090	<0.45	0.45	7669712
Dissolved Calcium (Ca)	ug/L	700000	1000	600000	1000	710000	1000	1600000	2000	7669712
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	5.0	<5.0	5.0	<25	25	7669712
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	0.50	<0.50	0.50	<2.5	2.5	7669712
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	0.90	<0.90	0.90	<4.5	4.5	7669712
Dissolved Iron (Fe)	ug/L	<500	500	<100	100	<100	100	<500	500	7669712
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	0.50	<0.50	0.50	<2.5	2.5	7669712
Dissolved Lithium (Li)	ug/L	300	25	49	5.0	540	25	2500	50	7669712
Dissolved Magnesium (Mg)	ug/L	32000	250	59000	50	110000	50	390000	250	7669712
Dissolved Manganese (Mn)	ug/L	16	10	73	2.0	63	2.0	100	10	7669712
Dissolved Molybdenum (Mo)	ug/L	27	2.5	<0.50	0.50	<0.50	0.50	<2.5	2.5	7669712
Dissolved Nickel (Ni)	ug/L	9.2	5.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7669712
Dissolved Phosphorus (P)	ug/L	<500	500	<100	100	<100	100	<500	500	7669712
Dissolved Potassium (K)	ug/L	99000	1000	16000	200	39000	200	62000	1000	7669712
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	2.0	<2.0	2.0	<10	10	7669712
Dissolved Silicon (Si)	ug/L	3000	250	4000	50	4400	50	4500	250	7669712
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	0.090	<0.090	0.090	<0.45	0.45	7669712
Dissolved Sodium (Na)	ug/L	2300000	500	330000	100	690000	500	2500000	500	7669712
Dissolved Strontium (Sr)	ug/L	6200	5.0	7000	1.0	8600	1.0	28000	5.0	7669712
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7669712
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	0.050	<0.050	0.050	<0.25	0.25	7669712
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7669712
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	5.0	<5.0	5.0	<25	25	7669712
Dissolved Tungsten (W)	ug/L	9.1	5.0	<1.0	1.0	<1.0	1.0	9.6	5.0	7669712
Dissolved Uranium (U)	ug/L	<0.50	0.50	0.24	0.10	0.66	0.10	<0.50	0.50	7669712
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	0.50	<0.50	0.50	<2.5	2.5	7669712
Dissolved Zinc (Zn)	ug/L	<25	25	<5.0	5.0	<5.0	5.0	<25	25	7669712
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7669712
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBR113	RBR113		RBR114			RBR115		
Sampling Date		2021/10/27	2021/10/27		2021/10/27			2021/10/27		
COC Number		847927-27-01	847927-27-01		847927-27-01			847927-27-01		
	UNITS	36-IVR	36-IVR Lab-Dup	QC Batch	36-VR	RDL	QC Batch	P1-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	7669712	29	4.9	7669736	<4.9	4.9	7669712
Dissolved Antimony (Sb)	ug/L	0.60	0.63	7669712	<0.50	0.50	7669736	<0.50	0.50	7669712
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	7669712	<1.0	1.0	7669736	<1.0	1.0	7669712
Dissolved Barium (Ba)	ug/L	33	32	7669712	24	2.0	7669736	21	2.0	7669712
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	7669712	<0.40	0.40	7669736	<0.40	0.40	7669712
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	7669712	<1.0	1.0	7669736	<1.0	1.0	7669712
Dissolved Boron (B)	ug/L	50	50	7669712	330	10	7669736	1000	10	7669712
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	7669712	<0.090	0.090	7669736	<0.090	0.090	7669712
Dissolved Calcium (Ca)	ug/L	160000	160000	7669712	180000	200	7669736	570000	1000	7669712
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	7669712	<5.0	5.0	7669736	<5.0	5.0	7669712
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	7669712	<0.50	0.50	7669736	<0.50	0.50	7669712
Dissolved Copper (Cu)	ug/L	5.1	5.4	7669712	<0.90	0.90	7669736	<0.90	0.90	7669712
Dissolved Iron (Fe)	ug/L	<100	<100	7669712	<100	100	7669736	<100	100	7669712
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	7669712	<0.50	0.50	7669736	<0.50	0.50	7669712
Dissolved Lithium (Li)	ug/L	15	16	7669712	37	5.0	7669736	150	5.0	7669712
Dissolved Magnesium (Mg)	ug/L	58000	58000	7669712	39000	50	7669736	67000	50	7669712
Dissolved Manganese (Mn)	ug/L	5.2	5.4	7669712	10	2.0	7669736	37	2.0	7669712
Dissolved Molybdenum (Mo)	ug/L	8.7	8.2	7669712	5.3	0.50	7669736	<0.50	0.50	7669712
Dissolved Nickel (Ni)	ug/L	21	20	7669712	3.7	1.0	7669736	1.4	1.0	7669712
Dissolved Phosphorus (P)	ug/L	<100	<100	7669712	<100	100	7669736	<100	100	7669712
Dissolved Potassium (K)	ug/L	2900	2900	7669712	28000	200	7669736	54000	200	7669712
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	7669712	<2.0	2.0	7669736	<2.0	2.0	7669712
Dissolved Silicon (Si)	ug/L	4500	4500	7669712	3800	50	7669736	6200	50	7669712
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	7669712	<0.090	0.090	7669736	<0.090	0.090	7669712
Dissolved Sodium (Na)	ug/L	62000	63000	7669712	600000	100	7669736	700000	500	7669712
Dissolved Strontium (Sr)	ug/L	1100	1200	7669712	2600	1.0	7669736	7200	1.0	7669712
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	7669712	<1.0	1.0	7669736	<1.0	1.0	7669712
Dissolved Thallium (Tl)	ug/L	0.27	0.27	7669712	<0.050	0.050	7669736	<0.050	0.050	7669712
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	7669712	<1.0	1.0	7669736	<1.0	1.0	7669712
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	7669712	<5.0	5.0	7669736	<5.0	5.0	7669712
Dissolved Tungsten (W)	ug/L	16	16	7669712	4.2	1.0	7669736	1.1	1.0	7669712
Dissolved Uranium (U)	ug/L	22	22	7669712	4.2	0.10	7669736	<0.10	0.10	7669712
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	7669712	<0.50	0.50	7669736	<0.50	0.50	7669712
Dissolved Zinc (Zn)	ug/L	150	150	7669712	<5.0	5.0	7669736	<5.0	5.0	7669712
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	7669712	<1.0	1.0	7669736	<1.0	1.0	7669712
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBR116		RBR117		RBR118	RBR119		
Sampling Date		2021/10/27		2021/10/27		2021/10/27	2021/10/27		
COC Number		847927-27-01		847927-27-01		847927-27-01	847927-27-01		
	UNITS	P1-II	RDL	P1-III	RDL	62-I	62-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	8.3	4.9	<4.9	<4.9	4.9	7669712
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	1.4	0.50	<0.50	<0.50	0.50	7669712
Dissolved Arsenic (As)	ug/L	<1.0	1.0	1.3	1.0	<1.0	<1.0	1.0	7669712
Dissolved Barium (Ba)	ug/L	23	2.0	30	2.0	15	15	2.0	7669712
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7669712
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Boron (B)	ug/L	980	10	360	10	1300	1100	10	7669712
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7669712
Dissolved Calcium (Ca)	ug/L	510000	1000	93000	200	730000	550000	1000	7669712
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7669712
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7669712
Dissolved Copper (Cu)	ug/L	<0.90	0.90	3.8	0.90	<0.90	<0.90	0.90	7669712
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	<100	100	7669712
Dissolved Lead (Pb)	ug/L	<0.50	0.50	0.98	0.50	<0.50	<0.50	0.50	7669712
Dissolved Lithium (Li)	ug/L	130	5.0	21	5.0	350	200	5.0	7669712
Dissolved Magnesium (Mg)	ug/L	66000	50	52000	50	100000	80000	50	7669712
Dissolved Manganese (Mn)	ug/L	40	2.0	41	2.0	79	61	2.0	7669712
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	5.8	0.50	<0.50	<0.50	0.50	7669712
Dissolved Nickel (Ni)	ug/L	1.4	1.0	1.4	1.0	<1.0	<1.0	1.0	7669712
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	<100	100	7669712
Dissolved Potassium (K)	ug/L	53000	200	8200	200	49000	46000	200	7669712
Dissolved Selenium (Se)	ug/L	<2.0	2.0	3.4	2.0	<2.0	<2.0	2.0	7669712
Dissolved Silicon (Si)	ug/L	6400	50	17000	50	4000	4500	50	7669712
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7669712
Dissolved Sodium (Na)	ug/L	680000	500	27000	100	820000	620000	500	7669712
Dissolved Strontium (Sr)	ug/L	7500	1.0	890	1.0	11000	9000	1.0	7669712
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	<0.050	0.050	7669712
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7669712
Dissolved Tungsten (W)	ug/L	1.3	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Uranium (U)	ug/L	<0.10	0.10	3.3	0.10	<0.10	<0.10	0.10	7669712
Dissolved Vanadium (V)	ug/L	<0.50	0.50	3.5	0.50	<0.50	<0.50	0.50	7669712
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	30	5.0	<5.0	<5.0	5.0	7669712
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RBR120	RBR121		RBR122		RBR155	RBR156		
Sampling Date		2021/10/27	2021/10/27		2021/10/27		2021/10/27	2021/10/27		
COC Number		847927-27-01	847927-27-01		847927-27-01		847927-26-01	847927-26-01		
	UNITS	62-III	62-IV	RDL	41-I	RDL	41-II	41-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	28	4.9	<4.9	4.9	<4.9	6.0	4.9	7669712
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7669712
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Barium (Ba)	ug/L	35	59	2.0	13	2.0	52	35	2.0	7669712
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7669712
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Boron (B)	ug/L	98	63	10	390	10	220	190	10	7669712
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	0.20	0.19	0.090	7669712
Dissolved Calcium (Ca)	ug/L	160000	120000	200	590000	1000	160000	160000	200	7669712
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7669712
Dissolved Cobalt (Co)	ug/L	<0.50	0.87	0.50	<0.50	0.50	<0.50	<0.50	0.50	7669712
Dissolved Copper (Cu)	ug/L	<0.90	1.3	0.90	<0.90	0.90	1.3	1.9	0.90	7669712
Dissolved Iron (Fe)	ug/L	480	170	100	<100	100	<100	<100	100	7669712
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7669712
Dissolved Lithium (Li)	ug/L	22	13	5.0	47	5.0	7.1	<5.0	5.0	7669712
Dissolved Magnesium (Mg)	ug/L	61000	42000	50	60000	50	69000	68000	50	7669712
Dissolved Manganese (Mn)	ug/L	97	280	2.0	72	2.0	98	40	2.0	7669712
Dissolved Molybdenum (Mo)	ug/L	0.79	1.5	0.50	<0.50	0.50	0.52	<0.50	0.50	7669712
Dissolved Nickel (Ni)	ug/L	1.7	3.7	1.0	1.0	1.0	1.4	1.0	1.0	7669712
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	100	<100	<100	100	7669712
Dissolved Potassium (K)	ug/L	4300	2200	200	16000	200	1300	1200	200	7669712
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7669712
Dissolved Silicon (Si)	ug/L	6200	7200	50	4100	50	8100	7400	50	7669712
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7669712
Dissolved Sodium (Na)	ug/L	110000	76000	100	340000	100	57000	56000	100	7669712
Dissolved Strontium (Sr)	ug/L	830	690	1.0	7200	1.0	1200	880	1.0	7669712
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	<0.050	<0.050	0.050	7669712
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7669712
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
Dissolved Uranium (U)	ug/L	1.7	2.2	0.10	0.25	0.10	2.7	2.6	0.10	7669712
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7669712
Dissolved Zinc (Zn)	ug/L	32	5.6	5.0	<5.0	5.0	7.0	<5.0	5.0	7669712
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7669712
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBR021		RBR022		RBR122	RBR155		
Sampling Date		2021/10/27		2021/10/27		2021/10/27	2021/10/27		
COC Number		847927-28-01		847927-28-01		847927-27-01	847927-26-01		
	UNITS	35-III	RDL	35-IV	RDL	41-I	41-II	RDL	QC Batch
Semivolatile Organics									
Acenaphthene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Acenaphthylene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Anthracene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Benzo(a)anthracene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Benzo(a)pyrene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Benzo(b/j)fluoranthene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Benzo(g,h,i)perylene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Benzo(k)fluoranthene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
1-Chloronaphthalene	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7668528
2-Chloronaphthalene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Chrysene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Dibenzo(a,h)anthracene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Fluoranthene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Fluorene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
1-Methylnaphthalene	ug/L	<0.20	0.20	0.82	0.20	<0.20	<0.20	0.20	7668528
2-Methylnaphthalene	ug/L	<0.20	0.20	0.42	0.20	<0.20	<0.20	0.20	7668528
Naphthalene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
5-Nitroacenaphthene	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7668528
Perylene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Phenanthrene	ug/L	<0.20	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
Pyrene	ug/L	0.22	0.20	<0.20	0.20	<0.20	<0.20	0.20	7668528
1,2-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
1,3-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
1,4-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Hexachlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Pentachlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
1,3,5-Trichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2-Chlorophenol	ug/L	<0.30	0.30	<0.30	0.30	<0.30	<0.30	0.30	7668528
4-Chloro-3-Methylphenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
m/p-Cresol	ug/L	<0.50	0.50	20	0.50	<0.50	<0.50	0.50	7668528
o-Cresol	ug/L	<0.50	0.50	5.2	0.50	<0.50	<0.50	0.50	7668528
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBR021		RBR022		RBR122	RBR155		
Sampling Date		2021/10/27		2021/10/27		2021/10/27	2021/10/27		
COC Number		847927-28-01		847927-28-01		847927-27-01	847927-26-01		
	UNITS	35-III	RDL	35-IV	RDL	41-I	41-II	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,3-Dichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,4-Dichlorophenol	ug/L	<0.30	0.30	<0.30	0.30	<0.30	<0.30	0.30	7668528
2,5-Dichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,6-Dichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
3,4-Dichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
3,5-Dichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,4-Dimethylphenol	ug/L	<0.50	0.50	4.3	0.50	<0.50	<0.50	0.50	7668528
2,4-Dinitrophenol	ug/L	<6.0 (1)	6.0	<25 (2)	25	<6.0 (2)	<6.0 (2)	6.0	7668528
4,6-Dinitro-2-methylphenol	ug/L	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7668528
2-Nitrophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
4-Nitrophenol	ug/L	<1.4	1.4	<1.4	1.4	<1.4	<1.4	1.4	7668528
Pentachlorophenol	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7668528
Phenol	ug/L	<0.50	0.50	52	0.50	<0.50	<0.50	0.50	7668528
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7668528
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,3,4-Trichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,3,5-Trichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,3,6-Trichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,4,5-Trichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
2,4,6-Trichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
3,4,5-Trichlorophenol	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Benzyl butyl phthalate	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Biphenyl	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Bis(2-chloroethyl)ether	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Bis(2-chloroethoxy)methane	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Bis(2-chloroisopropyl)ether	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7668528
4-Bromophenyl phenyl ether	ug/L	<0.30	0.30	<0.30	0.30	<0.30	<0.30	0.30	7668528
p-Chloroaniline	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7668528
4-Chlorophenyl phenyl ether	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Di-N-butyl phthalate	ug/L	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7668528
di-n-octyl phthalate	ug/L	<0.80	0.80	<0.80	0.80	<0.80	<0.80	0.80	7668528
2,4-Dinitrotoluene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Detection limit was raised due to matrix interference.

(2) Detection limit was raised due to matrix interference.



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RBR021		RBR022		RBR122	RBR155		
Sampling Date		2021/10/27		2021/10/27		2021/10/27	2021/10/27		
COC Number		847927-28-01		847927-28-01		847927-27-01	847927-26-01		
	UNITS	35-III	RDL	35-IV	RDL	41-I	41-II	RDL	QC Batch
Diethyl phthalate	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7668528
3,3'-Dichlorobenzidine	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Dimethyl phthalate	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7668528
2,6-Dinitrotoluene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Diphenyl Ether	ug/L	<0.30	0.30	<0.30	0.30	<0.30	<0.30	0.30	7668528
Hexachlorobutadiene	ug/L	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7668528
Hexachlorocyclopentadiene	ug/L	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7668528
Hexachloroethane	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Isophorone	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Nitrobenzene	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7668528
N-Nitroso-di-n-propylamine	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7668528
Surrogate Recovery (%)									
2,4,6-Tribromophenol	%	72		90		79	66		7668528
2-Fluorobiphenyl	%	80		64		74	66		7668528
2-Fluorophenol	%	30		31		35	26		7668528
D14-Terphenyl	%	106		97		106	94		7668528
D5-Nitrobenzene	%	82		63		75	72		7668528
D5-Phenol	%	23		29		26	22		7668528
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBR021		RBR022	RBR122	RBR155		
Sampling Date		2021/10/27		2021/10/27	2021/10/27	2021/10/27		
COC Number		847927-28-01		847927-28-01	847927-27-01	847927-26-01		
	UNITS	35-III	RDL	35-IV	41-I	41-II	RDL	QC Batch
Volatile Organics								
Acetone (2-Propanone)	ug/L	340	200	<10	<10	<10	10	7667329
Benzene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Bromodichloromethane	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Acrolein	ug/L	<200	200	<10	<10	<10	10	7667349
Bromoform	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Bromomethane	ug/L	<10	10	<0.50	<0.50	<0.50	0.50	7667329
Carbon Tetrachloride	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Chlorobenzene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Chloroethane	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Chloroform	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Acrylonitrile	ug/L	<100	100	<5.0	<5.0	<5.0	5.0	7667349
Chloromethane	ug/L	<10	10	<0.50	<0.50	<0.50	0.50	7667329
Dibromochloromethane	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
1,2-Dichlorobenzene	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
1,3-Dichlorobenzene	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
1,4-Dichlorobenzene	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
1,1-Dichloroethane	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
1,2-Dichloroethane	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
1,1-Dichloroethylene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
cis-1,2-Dichloroethylene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
trans-1,2-Dichloroethylene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
1,2-Dichloropropane	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Ethylbenzene	ug/L	2.7	2.0	<0.10	<0.10	<0.10	0.10	7667329
Ethylene Dibromide	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Methylene Chloride(Dichloromethane)	ug/L	<10	10	<0.50	<0.50	<0.50	0.50	7667329
Methyl Ethyl Ketone (2-Butanone)	ug/L	<100	100	<5.0	<5.0	<5.0	5.0	7667329
Methyl Isobutyl Ketone	ug/L	<100	100	<5.0	<5.0	<5.0	5.0	7667329
Methyl t-butyl ether (MTBE)	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Styrene	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
1,1,1,2-Tetrachloroethane	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
1,1,2,2-Tetrachloroethane	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Tetrachloroethylene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Toluene	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
1,1,1-Trichloroethane	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RBR021		RBR022	RBR122	RBR155		
Sampling Date		2021/10/27		2021/10/27	2021/10/27	2021/10/27		
COC Number		847927-28-01		847927-28-01	847927-27-01	847927-26-01		
	UNITS	35-III	RDL	35-IV	41-I	41-II	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Trichloroethylene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Trichlorofluoromethane (FREON 11)	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Vinyl Chloride	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
p+m-Xylene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Methyl Butyl Ketone (2-Hexanone)	ug/L	<100	100	<5.0	<5.0	<5.0	5.0	7667349
o-Xylene	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Total Xylenes	ug/L	<2.0	2.0	<0.10	<0.10	<0.10	0.10	7667329
Total Trihalomethanes	ug/L	<4.0	4.0	<0.20	<0.20	<0.20	0.20	7667329
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	105		103	103	105		7667329
D4-1,2-Dichloroethane	%	111		107	114	109		7667329
D8-Toluene	%	97		97	94	97		7667329
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBR021	RBR022	RBR122	RBR155		
Sampling Date		2021/10/27	2021/10/27	2021/10/27	2021/10/27		
COC Number		847927-28-01	847927-28-01	847927-27-01	847927-26-01		
	UNITS	35-III	35-IV	41-I	41-II	RDL	QC Batch
Calculated Parameters							
Chlordane (Total)	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7666956
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7666956
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	0.005	7666956
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7666956
Total Endosulfan	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7666956
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	7666956
Pesticides & Herbicides							
Aldrin	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Dieldrin	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
a-Chlordane	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
g-Chlordane	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
o,p-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
p,p-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
o,p-DDE	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	0.005	7672250
o,p-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
p,p-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Lindane	ug/L	<0.003	<0.003	<0.003	<0.003	0.003	7672250
Endosulfan I (alpha)	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Endosulfan II (beta)	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Endrin	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Heptachlor	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Hexachlorobenzene	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Hexachlorobutadiene	ug/L	<0.009	<0.009	<0.009	<0.009	0.009	7672250
Hexachloroethane	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	7672250
Methoxychlor	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	7672250
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	7672250
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	7672250
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	7672250
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	7672250
alpha-BHC	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
beta-BHC	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Endrin aldehyde	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Endrin ketone	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
Mirex	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	7672250
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RBR021	RBR022	RBR122	RBR155		
Sampling Date		2021/10/27	2021/10/27	2021/10/27	2021/10/27		
COC Number		847927-28-01	847927-28-01	847927-27-01	847927-26-01		
	UNITS	35-III	35-IV	41-I	41-II	RDL	QC Batch
Toxaphene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	7672250
Surrogate Recovery (%)							
2,4,5,6-Tetrachloro-m-xylene	%	50	61	48 (1)	49 (1)		7672250
Decachlorobiphenyl	%	107	129	114	91		7672250
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) The Surrogate recovery was below the control limit as stipulated by Ontario Regulation 153, however, this recovery is still within Bureau Veritas Laboratories's performance based limits. Results reported with surrogate recoveries within this range are still valid but may have an associated low bias.							



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR016
Sample ID: P11-I
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7676243	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR017
Sample ID: P11-II
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7676243	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669980	N/A	2021/11/01	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR018
Sample ID: P11-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR018
Sample ID: P11-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7676243	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669980	N/A	2021/11/01	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR018 Dup
Sample ID: P11-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall

Bureau Veritas ID: RBR019
Sample ID: 2-II
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7675820	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669980	N/A	2021/11/01	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673054	2021/11/01	2021/11/02	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR019 Dup
Sample ID: 2-II
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7673054	2021/11/01	2021/11/02	Massarat Jan



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR020
Sample ID: 2-IV
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7676243	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669980	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR020 Dup
Sample ID: 2-IV
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7676243	N/A	2021/11/03	Viorica Rotaru
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR021
Sample ID: 35-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
OC Pesticides (Selected) & PCB	GC/ECD	7672250	2021/11/01	2021/11/02	Li Peng
OC Pesticides Summed Parameters	CALC	7666956	N/A	2021/11/01	Automated Statchk
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBR022
Sample ID: 35-IV
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670578	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk



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VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR022
Sample ID: 35-IV
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7672250	2021/11/01	2021/11/02	Li Peng
OC Pesticides Summed Parameters	CALC	7666956	N/A	2021/11/01	Automated Statchk
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/11/01	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBR022 Dup
Sample ID: 35-IV
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7670578	N/A	2021/11/01	Fari Dehdezi

Bureau Veritas ID: RBR023
Sample ID: 4-I
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7675820	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione



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VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR023 Dup
Sample ID: 4-I
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan

Bureau Veritas ID: RBR024
Sample ID: 36-IR
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7675820	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669980	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR025
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669980	N/A	2021/11/01	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione



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Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR113
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7675820	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR113 Dup
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli

Bureau Veritas ID: RBR114
Sample ID: 36-VR
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668088	N/A	2021/11/02	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669736	N/A	2021/11/01	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione



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VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR115
Sample ID: P1-I
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR116
Sample ID: P1-II
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669980	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687931	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR117
Sample ID: P1-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk



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Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR117
Sample ID: P1-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7676243	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR117 Dup
Sample ID: P1-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal

Bureau Veritas ID: RBR118
Sample ID: 62-I
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670578	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR118 Dup
Sample ID: 62-I
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi



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VERITAS

Bureau Veritas Job #: C1V6641
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Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR119
Sample ID: 62-II
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670578	N/A	2021/11/01	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7675820	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR119 Dup
Sample ID: 62-II
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7675820	N/A	2021/11/03	Viorica Rotaru

Bureau Veritas ID: RBR120
Sample ID: 62-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione



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VERITAS

Bureau Veritas Job #: C1V6641
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Terrapure Environmental
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Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR120 Dup
Sample ID: 62-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai

Bureau Veritas ID: RBR121
Sample ID: 62-IV
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7671652	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7671663	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7671648	2021/10/30	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7671657	2021/10/30	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione

Bureau Veritas ID: RBR121 Dup
Sample ID: 62-IV
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7671652	N/A	2021/11/01	Surinder Rai
Conductivity	AT	7671663	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7671648	2021/10/30	2021/11/01	Surinder Rai
pH	AT	7671657	2021/10/30	2021/11/01	Surinder Rai

Bureau Veritas ID: RBR122
Sample ID: 41-I
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai



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Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR122
Sample ID: 41-I
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7675820	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670521	N/A	2021/11/01	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7672250	2021/11/01	2021/11/02	Li Peng
OC Pesticides Summed Parameters	CALC	7666956	N/A	2021/11/01	Automated Statchk
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669965	N/A	2021/10/29	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean

Bureau Veritas ID: RBR155
Sample ID: 41-II
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7668528	2021/10/29	2021/10/30	Anh Lieu
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7665950	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7673063	N/A	2021/11/02	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7672250	2021/11/01	2021/11/02	Li Peng
OC Pesticides Summed Parameters	CALC	7666956	N/A	2021/11/01	Automated Statchk
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7670545	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668807	2021/10/30	2021/11/02	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7673030	N/A	2021/11/02	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7667329	N/A	2021/10/31	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7667349	N/A	2021/10/30	Rebecca McClean



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Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RBR156
Sample ID: 41-III
Matrix: Water

Collected: 2021/10/27
Shipped:
Received: 2021/10/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7670335	N/A	2021/11/01	Surinder Rai
Anions	IC	7670582	N/A	2021/11/02	Fari Dehdezi
Conductivity	AT	7670337	N/A	2021/11/01	Surinder Rai
Fluoride	ISE	7670328	2021/10/29	2021/11/01	Surinder Rai
Hardness (calculated as CaCO3)		7668089	N/A	2021/11/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7669712	N/A	2021/11/04	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7675820	N/A	2021/11/03	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7670507	N/A	2021/11/01	Chandra Nandlal
pH	AT	7670342	2021/10/29	2021/11/01	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7669980	N/A	2021/10/30	Deonarine Ramnarine
Orthophosphate	KONE	7670553	N/A	2021/11/01	Avneet Kour Sudan
Total Dissolved Solids	BAL	7668818	2021/11/01	2021/11/02	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7673057	2021/11/01	2021/11/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7675024	N/A	2021/11/02	Julianna Castiglione



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.3°C
Package 2	2.3°C
Package 3	3.3°C
Package 4	4.3°C
Package 5	3.0°C
Package 6	5.0°C

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RBR019 [2-II] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample RBR021 [35-III] : VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

Sample RBR022 [35-IV] : ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample RBR025 [36-IIR] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



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QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667329	4-Bromofluorobenzene	2021/10/30	104	70 - 130	103	70 - 130	100	%				
7667329	D4-1,2-Dichloroethane	2021/10/30	109	70 - 130	110	70 - 130	108	%				
7667329	D8-Toluene	2021/10/30	96	70 - 130	99	70 - 130	96	%				
7668528	2,4,6-Tribromophenol	2021/10/30	89	10 - 130	89	10 - 130	86	%				
7668528	2-Fluorobiphenyl	2021/10/30	55	30 - 130	62	30 - 130	57	%				
7668528	2-Fluorophenol	2021/10/30	34	10 - 130	46	10 - 130	35	%				
7668528	D14-Terphenyl	2021/10/30	100	30 - 130	110	30 - 130	105	%				
7668528	D5-Nitrobenzene	2021/10/30	61	30 - 130	79	30 - 130	69	%				
7668528	D5-Phenol	2021/10/30	27	10 - 130	33	10 - 130	26	%				
7672250	2,4,5,6-Tetrachloro-m-xylene	2021/11/02	68	50 - 130	62	50 - 130	65	%				
7672250	Decachlorobiphenyl	2021/11/02	119	50 - 130	112	50 - 130	115	%				
7667329	1,1,1,2-Tetrachloroethane	2021/10/31	108	70 - 130	111	70 - 130	<0.20	ug/L	NC	30		
7667329	1,1,1-Trichloroethane	2021/10/31	103	70 - 130	108	70 - 130	<0.10	ug/L	NC	30		
7667329	1,1,2,2-Tetrachloroethane	2021/10/31	104	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7667329	1,1,2-Trichloroethane	2021/10/31	104	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7667329	1,1-Dichloroethane	2021/10/31	93	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7667329	1,1-Dichloroethylene	2021/10/31	116	70 - 130	111	70 - 130	<0.10	ug/L	NC	30		
7667329	1,2-Dichlorobenzene	2021/10/31	98	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7667329	1,2-Dichloroethane	2021/10/31	98	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7667329	1,2-Dichloropropane	2021/10/31	99	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7667329	1,3-Dichlorobenzene	2021/10/31	98	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7667329	1,4-Dichlorobenzene	2021/10/31	116	70 - 130	120	70 - 130	<0.20	ug/L	NC	30		
7667329	Acetone (2-Propanone)	2021/10/31	139	60 - 140	113	60 - 140	<10	ug/L	NC	30		
7667329	Benzene	2021/10/31	91	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7667329	Bromodichloromethane	2021/10/31	111	70 - 130	114	70 - 130	<0.10	ug/L	NC	30		
7667329	Bromoform	2021/10/31	118	70 - 130	120	70 - 130	<0.20	ug/L	NC	30		
7667329	Bromomethane	2021/10/31	56 (1)	60 - 140	54 (1)	60 - 140	<0.50	ug/L	NC	30		
7667329	Carbon Tetrachloride	2021/10/31	105	70 - 130	110	70 - 130	<0.10	ug/L	NC	30		
7667329	Chlorobenzene	2021/10/31	98	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7667329	Chloroethane	2021/10/31	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7667329	Chloroform	2021/10/30	98	70 - 130	100	70 - 130	<0.10	ug/L				



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Terrapure Environmental

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7667329	Chloromethane	2021/10/30	62	60 - 140	69	60 - 140	<0.50	ug/L				
7667329	cis-1,2-Dichloroethylene	2021/10/31	98	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7667329	cis-1,3-Dichloropropene	2021/10/31	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7667329	Dibromochloromethane	2021/10/31	111	70 - 130	114	70 - 130	<0.20	ug/L	NC	30		
7667329	Ethylbenzene	2021/10/31	94	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7667329	Ethylene Dibromide	2021/10/31	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7667329	Methyl Ethyl Ketone (2-Butanone)	2021/10/30	111	60 - 140	112	60 - 140	<5.0	ug/L				
7667329	Methyl Isobutyl Ketone	2021/10/30	123	70 - 130	119	70 - 130	<5.0	ug/L				
7667329	Methyl t-butyl ether (MTBE)	2021/10/30	103	70 - 130	103	70 - 130	<0.20	ug/L				
7667329	Methylene Chloride(Dichloromethane)	2021/10/31	93	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
7667329	o-Xylene	2021/10/31	98	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7667329	p+m-Xylene	2021/10/31	99	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7667329	Styrene	2021/10/31	109	70 - 130	113	70 - 130	<0.20	ug/L	NC	30		
7667329	Tetrachloroethylene	2021/10/31	89	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7667329	Toluene	2021/10/31	91	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7667329	Total Trihalomethanes	2021/10/30					<0.20	ug/L				
7667329	Total Xylenes	2021/10/31					<0.10	ug/L	NC	30		
7667329	trans-1,2-Dichloroethylene	2021/10/31	94	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7667329	trans-1,3-Dichloropropene	2021/10/31	108	70 - 130	112	70 - 130	<0.20	ug/L	NC	30		
7667329	Trichloroethylene	2021/10/30	99	70 - 130	103	70 - 130	<0.10	ug/L				
7667329	Trichlorofluoromethane (FREON 11)	2021/10/31	89	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7667329	Vinyl Chloride	2021/10/31	84	70 - 130	85	70 - 130	<0.20	ug/L	NC	30		
7667349	Acrolein	2021/10/30			96	60 - 140	<10	ug/L				
7667349	Acrylonitrile	2021/10/30			98	60 - 140	<5.0	ug/L				
7667349	Methyl Butyl Ketone (2-Hexanone)	2021/10/30	110	60 - 140	108	60 - 140	<5.0	ug/L				
7668528	1,2,3,4-Tetrachlorobenzene	2021/10/30	54	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2,3,5-Tetrachlorobenzene	2021/10/30	54	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2,3-Trichlorobenzene	2021/10/30	48	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2,4,5-Tetrachlorobenzene	2021/10/30	54	30 - 130	49	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2,4-Trichlorobenzene	2021/10/30	53	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7668528	1,2-Dichlorobenzene	2021/10/30	52	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668528	1,3,5-Trichlorobenzene	2021/10/30	53	30 - 130	70	30 - 130	<0.50	ug/L	NC	40		
7668528	1,3-Dichlorobenzene	2021/10/30	44	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7668528	1,4-Dichlorobenzene	2021/10/30	48	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7668528	1-Chloronaphthalene	2021/10/30	56	30 - 130	57	30 - 130	<1.0	ug/L	NC	40		
7668528	1-Methylnaphthalene	2021/10/30	74	30 - 130	85	30 - 130	<0.20	ug/L	NC	40		
7668528	2,3,4,5-Tetrachlorophenol	2021/10/30	84	10 - 130	88	10 - 130	<0.40	ug/L	NC	40		
7668528	2,3,4,6-Tetrachlorophenol	2021/10/30	87	10 - 130	93	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3,4-Trichlorophenol	2021/10/30	84	10 - 130	89	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3,5,6-Tetrachlorophenol	2021/10/30	93	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3,5-Trichlorophenol	2021/10/30	100	10 - 130	98	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3,6-Trichlorophenol	2021/10/30	84	10 - 130	86	10 - 130	<0.50	ug/L	NC	40		
7668528	2,3-Dichlorophenol	2021/10/30	73	10 - 130	91	10 - 130	<0.50	ug/L	NC	40		
7668528	2,4,5-Trichlorophenol	2021/10/30	97	10 - 130	102	10 - 130	<0.50	ug/L	NC	40		
7668528	2,4,6-Trichlorophenol	2021/10/30	87	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7668528	2,4-Dichlorophenol	2021/10/30	78	10 - 130	96	10 - 130	<0.30	ug/L	NC	40		
7668528	2,4-Dimethylphenol	2021/10/30	38	10 - 130	43	10 - 130	<0.50	ug/L	6.0	40		
7668528	2,4-Dinitrophenol	2021/10/30	29	10 - 130	70	10 - 130	<2.0	ug/L	NC	40		
7668528	2,4-Dinitrotoluene	2021/10/30	97	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7668528	2,5-Dichlorophenol	2021/10/30	82	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7668528	2,6-Dichlorophenol	2021/10/30	70	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7668528	2,6-Dinitrotoluene	2021/10/30	90	30 - 130	97	30 - 130	<0.50	ug/L	NC	40		
7668528	2-Chloronaphthalene	2021/10/30	70	30 - 130	72	30 - 130	<0.50	ug/L	NC	40		
7668528	2-Chlorophenol	2021/10/30	69	10 - 130	86	10 - 130	<0.30	ug/L	NC	40		
7668528	2-Methylnaphthalene	2021/10/30	66	30 - 130	76	30 - 130	<0.20	ug/L	NC	40		
7668528	2-Nitrophenol	2021/10/30	72	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7668528	3,3'-Dichlorobenzidine	2021/10/30	4.2 (2)	30 - 130	97	30 - 130	<0.50	ug/L	NC	40		
7668528	3,4,5-Trichlorophenol	2021/10/30	93	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7668528	3,4-Dichlorophenol	2021/10/30	93	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7668528	3,5-Dichlorophenol	2021/10/30	98	10 - 130	95	10 - 130	<0.50	ug/L	NC	40		
7668528	4,6-Dinitro-2-methylphenol	2021/10/30	80	10 - 130	92	10 - 130	<2.0	ug/L	NC	40		
7668528	4-Bromophenyl phenyl ether	2021/10/30	93	30 - 130	85	30 - 130	<0.30	ug/L	NC	40		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668528	4-Chloro-3-Methylphenol	2021/10/30	82	10 - 130	91	10 - 130	<0.50	ug/L	NC	40		
7668528	4-Chlorophenyl phenyl ether	2021/10/30	76	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7668528	4-Nitrophenol	2021/10/30	24	10 - 130	25	10 - 130	<1.4	ug/L	NC	40		
7668528	5-Nitroacenaphthene	2021/10/30	93	30 - 130	94	30 - 130	<1.0	ug/L	NC	40		
7668528	Acenaphthene	2021/10/30	82	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7668528	Acenaphthylene	2021/10/30	81	30 - 130	83	30 - 130	<0.20	ug/L	NC	40		
7668528	Anthracene	2021/10/30	94	30 - 130	96	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(a)anthracene	2021/10/30	106	30 - 130	114	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(a)pyrene	2021/10/30	87	30 - 130	97	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(b,j)fluoranthene	2021/10/30	100	30 - 130	107	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(g,h,i)perylene	2021/10/30	100	30 - 130	107	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzo(k)fluoranthene	2021/10/30	101	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7668528	Benzyl butyl phthalate	2021/10/30	99	30 - 130	110	30 - 130	<0.50	ug/L	NC	40		
7668528	Biphenyl	2021/10/30	70	30 - 130	74	30 - 130	<0.50	ug/L	NC	40		
7668528	Bis(2-chloroethoxy)methane	2021/10/30	60	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7668528	Bis(2-chloroethyl)ether	2021/10/30	65	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7668528	Bis(2-chloroisopropyl)ether	2021/10/30	67	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		
7668528	Bis(2-ethylhexyl)phthalate	2021/10/30	99	30 - 130	111	30 - 130	<2.0	ug/L	NC	40		
7668528	Chrysene	2021/10/30	104	30 - 130	112	30 - 130	<0.20	ug/L	NC	40		
7668528	Dibenzo(a,h)anthracene	2021/10/30	110	30 - 130	109	30 - 130	<0.20	ug/L	NC	40		
7668528	Diethyl phthalate	2021/10/30	87	30 - 130	89	30 - 130	<1.0	ug/L	NC	40		
7668528	Dimethyl phthalate	2021/10/30	83	30 - 130	89	30 - 130	<1.0	ug/L	NC	40		
7668528	Di-N-butyl phthalate	2021/10/30	99	30 - 130	106	30 - 130	<2.0	ug/L	NC	40		
7668528	di-n-octyl phthalate	2021/10/30	104	30 - 130	117	30 - 130	<0.80	ug/L	NC	40		
7668528	Diphenyl Ether	2021/10/30	75	30 - 130	76	30 - 130	<0.30	ug/L	NC	40		
7668528	Fluoranthene	2021/10/30	103	30 - 130	107	30 - 130	<0.20	ug/L	NC	40		
7668528	Fluorene	2021/10/30	93	30 - 130	93	30 - 130	<0.20	ug/L	NC	40		
7668528	Hexachlorobenzene	2021/10/30	86	30 - 130	90	30 - 130	<0.50	ug/L	NC	40		
7668528	Hexachlorobutadiene	2021/10/30	40	30 - 130	53	30 - 130	<0.40	ug/L	NC	40		
7668528	Hexachlorocyclopentadiene	2021/10/30	31	30 - 130	30	30 - 130	<2.0	ug/L	NC	40		
7668528	Hexachloroethane	2021/10/30	36	30 - 130	52	30 - 130	<0.50	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7668528	Indeno(1,2,3-cd)pyrene	2021/10/30	106	30 - 130	112	30 - 130	<0.20	ug/L	NC	40		
7668528	Isophorone	2021/10/30	63	30 - 130	82	30 - 130	<0.50	ug/L	NC	40		
7668528	m/p-Cresol	2021/10/30	61	10 - 130	69	10 - 130	<0.50	ug/L	NC	40		
7668528	Naphthalene	2021/10/30	55	30 - 130	58	30 - 130	<0.20	ug/L	NC	40		
7668528	Nitrobenzene	2021/10/30	69	30 - 130	85	30 - 130	<0.50	ug/L	NC	40		
7668528	Nitrosodiphenylamine/Diphenylamine	2021/10/30	110	30 - 130	118	30 - 130	<1.0	ug/L	NC	40		
7668528	N-Nitroso-di-n-propylamine	2021/10/30	83	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7668528	o-Cresol	2021/10/30	61	10 - 130	68	10 - 130	<0.50	ug/L	14	40		
7668528	p-Chloroaniline	2021/10/30	47	30 - 130	95	30 - 130	<1.0	ug/L	NC	40		
7668528	Pentachlorobenzene	2021/10/30	67	30 - 130	60	30 - 130	<0.50	ug/L	NC	40		
7668528	Pentachlorophenol	2021/10/30	48	10 - 130	66	10 - 130	<1.0	ug/L	NC	40		
7668528	Perylene	2021/10/30	95	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7668528	Phenanthrene	2021/10/30	99	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7668528	Phenol	2021/10/30	30	10 - 130	34	10 - 130	<0.50	ug/L	NC	40		
7668528	Pyrene	2021/10/30	107	30 - 130	114	30 - 130	<0.20	ug/L	NC	40		
7668807	Total Dissolved Solids	2021/11/02					<10	mg/L	0	25	97	90 - 110
7668818	Total Dissolved Solids	2021/11/02					<10	mg/L	2.1	25	98	90 - 110
7669712	Dissolved Aluminum (Al)	2021/11/04	99	80 - 120	99	80 - 120	<4.9	ug/L	NC	20		
7669712	Dissolved Antimony (Sb)	2021/11/04	104	80 - 120	99	80 - 120	<0.50	ug/L	5.0	20		
7669712	Dissolved Arsenic (As)	2021/11/04	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7669712	Dissolved Barium (Ba)	2021/11/04	97	80 - 120	98	80 - 120	<2.0	ug/L	0.95	20		
7669712	Dissolved Beryllium (Be)	2021/11/04	101	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7669712	Dissolved Bismuth (Bi)	2021/11/04	92	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7669712	Dissolved Boron (B)	2021/11/04	97	80 - 120	98	80 - 120	<10	ug/L	0.25	20		
7669712	Dissolved Cadmium (Cd)	2021/11/04	101	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7669712	Dissolved Calcium (Ca)	2021/11/04	NC	80 - 120	99	80 - 120	<200	ug/L	1.3	20		
7669712	Dissolved Chromium (Cr)	2021/11/04	96	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7669712	Dissolved Cobalt (Co)	2021/11/04	94	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7669712	Dissolved Copper (Cu)	2021/11/04	97	80 - 120	97	80 - 120	<0.90	ug/L	5.2	20		
7669712	Dissolved Iron (Fe)	2021/11/04	95	80 - 120	95	80 - 120	<100	ug/L	NC	20		
7669712	Dissolved Lead (Pb)	2021/11/04	92	80 - 120	94	80 - 120	<0.50	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7669712	Dissolved Lithium (Li)	2021/11/04	101	80 - 120	97	80 - 120	<5.0	ug/L	6.2	20		
7669712	Dissolved Magnesium (Mg)	2021/11/04	NC	80 - 120	98	80 - 120	<50	ug/L	1.2	20		
7669712	Dissolved Manganese (Mn)	2021/11/04	98	80 - 120	98	80 - 120	<2.0	ug/L	3.5	20		
7669712	Dissolved Molybdenum (Mo)	2021/11/04	104	80 - 120	99	80 - 120	<0.50	ug/L	6.1	20		
7669712	Dissolved Nickel (Ni)	2021/11/04	92	80 - 120	94	80 - 120	<1.0	ug/L	0.89	20		
7669712	Dissolved Phosphorus (P)	2021/11/04	109	80 - 120	103	80 - 120	<100	ug/L	NC	20		
7669712	Dissolved Potassium (K)	2021/11/04	99	80 - 120	97	80 - 120	<200	ug/L	0.18	20		
7669712	Dissolved Selenium (Se)	2021/11/04	99	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7669712	Dissolved Silicon (Si)	2021/11/04	100	80 - 120	100	80 - 120	<50	ug/L	0.42	20		
7669712	Dissolved Silver (Ag)	2021/11/04	94	80 - 120	92	80 - 120	<0.090	ug/L	NC	20		
7669712	Dissolved Sodium (Na)	2021/11/04	NC	80 - 120	98	80 - 120	<100	ug/L	1.6	20		
7669712	Dissolved Strontium (Sr)	2021/11/04	NC	80 - 120	97	80 - 120	<1.0	ug/L	0.66	20		
7669712	Dissolved Tellurium (Te)	2021/11/04	103	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7669712	Dissolved Thallium (Tl)	2021/11/04	94	80 - 120	95	80 - 120	<0.050	ug/L	0	20		
7669712	Dissolved Tin (Sn)	2021/11/04	103	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7669712	Dissolved Titanium (Ti)	2021/11/04	100	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7669712	Dissolved Tungsten (W)	2021/11/04	99	80 - 120	97	80 - 120	<1.0	ug/L	1.1	20		
7669712	Dissolved Uranium (U)	2021/11/04	98	80 - 120	96	80 - 120	<0.10	ug/L	2.4	20		
7669712	Dissolved Vanadium (V)	2021/11/04	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7669712	Dissolved Zinc (Zn)	2021/11/04	97	80 - 120	96	80 - 120	<5.0	ug/L	1.9	20		
7669712	Dissolved Zirconium (Zr)	2021/11/04	106	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7669736	Dissolved Aluminum (Al)	2021/11/01	102	80 - 120	100	80 - 120	<4.9	ug/L				
7669736	Dissolved Antimony (Sb)	2021/11/01	101	80 - 120	100	80 - 120	<0.50	ug/L				
7669736	Dissolved Arsenic (As)	2021/11/01	98	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7669736	Dissolved Barium (Ba)	2021/11/01	98	80 - 120	100	80 - 120	<2.0	ug/L	0.73	20		
7669736	Dissolved Beryllium (Be)	2021/11/01	97	80 - 120	97	80 - 120	<0.40	ug/L				
7669736	Dissolved Bismuth (Bi)	2021/11/01	94	80 - 120	97	80 - 120	<1.0	ug/L				
7669736	Dissolved Boron (B)	2021/11/01	94	80 - 120	96	80 - 120	<10	ug/L	3.6	20		
7669736	Dissolved Cadmium (Cd)	2021/11/01	100	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7669736	Dissolved Calcium (Ca)	2021/11/01	NC	80 - 120	102	80 - 120	<200	ug/L	2.5	20		
7669736	Dissolved Chromium (Cr)	2021/11/01	96	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7669736	Dissolved Cobalt (Co)	2021/11/01	96	80 - 120	99	80 - 120	<0.50	ug/L				
7669736	Dissolved Copper (Cu)	2021/11/01	94	80 - 120	95	80 - 120	<0.90	ug/L	NC	20		
7669736	Dissolved Iron (Fe)	2021/11/01	96	80 - 120	98	80 - 120	<100	ug/L	1.8	20		
7669736	Dissolved Lead (Pb)	2021/11/01	96	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7669736	Dissolved Lithium (Li)	2021/11/01	99	80 - 120	99	80 - 120	<5.0	ug/L				
7669736	Dissolved Magnesium (Mg)	2021/11/01	NC	80 - 120	99	80 - 120	<50	ug/L	0.35	20		
7669736	Dissolved Manganese (Mn)	2021/11/01	99	80 - 120	101	80 - 120	<2.0	ug/L	0.45	20		
7669736	Dissolved Molybdenum (Mo)	2021/11/01	100	80 - 120	101	80 - 120	<0.50	ug/L				
7669736	Dissolved Nickel (Ni)	2021/11/01	96	80 - 120	98	80 - 120	<1.0	ug/L				
7669736	Dissolved Phosphorus (P)	2021/11/01	105	80 - 120	109	80 - 120	<100	ug/L				
7669736	Dissolved Potassium (K)	2021/11/01	99	80 - 120	99	80 - 120	<200	ug/L	0.24	20		
7669736	Dissolved Selenium (Se)	2021/11/01	94	80 - 120	99	80 - 120	<2.0	ug/L				
7669736	Dissolved Silicon (Si)	2021/11/01	100	80 - 120	103	80 - 120	<50	ug/L				
7669736	Dissolved Silver (Ag)	2021/11/01	51 (3)	80 - 120	99	80 - 120	<0.090	ug/L				
7669736	Dissolved Sodium (Na)	2021/11/01	NC	80 - 120	97	80 - 120	<100	ug/L	0.55	20		
7669736	Dissolved Strontium (Sr)	2021/11/01	NC	80 - 120	99	80 - 120	<1.0	ug/L				
7669736	Dissolved Tellurium (Te)	2021/11/01	95	80 - 120	100	80 - 120	<1.0	ug/L				
7669736	Dissolved Thallium (Tl)	2021/11/01	100	80 - 120	97	80 - 120	<0.050	ug/L				
7669736	Dissolved Tin (Sn)	2021/11/01	103	80 - 120	102	80 - 120	<1.0	ug/L				
7669736	Dissolved Titanium (Ti)	2021/11/01	99	80 - 120	100	80 - 120	<5.0	ug/L				
7669736	Dissolved Tungsten (W)	2021/11/01	102	80 - 120	97	80 - 120	<1.0	ug/L				
7669736	Dissolved Uranium (U)	2021/11/01	101	80 - 120	98	80 - 120	<0.10	ug/L				
7669736	Dissolved Vanadium (V)	2021/11/01	94	80 - 120	95	80 - 120	<0.50	ug/L				
7669736	Dissolved Zinc (Zn)	2021/11/01	96	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7669736	Dissolved Zirconium (Zr)	2021/11/01	103	80 - 120	103	80 - 120	<1.0	ug/L				
7669965	Phenols-4AAP	2021/10/29	98	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7669980	Phenols-4AAP	2021/10/30	99	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7670328	Fluoride (F-)	2021/11/01	100	80 - 120	104	80 - 120	<0.10	mg/L	1.5	20		
7670335	Alkalinity (Total as CaCO3)	2021/11/01			94	85 - 115	<1.0	mg/L	0.17	20		
7670337	Conductivity	2021/11/01			100	85 - 115	<1.0	umho/cm	0.060	25		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7670342	pH	2021/11/01			102	98 - 103			0.24	N/A		
7670507	Nitrate (N)	2021/11/01	98	80 - 120	96	80 - 120	<0.10	mg/L	0.88	20		
7670507	Nitrite (N)	2021/11/01	108	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
7670521	Nitrate (N)	2021/11/01	95	80 - 120	94	80 - 120	<0.10	mg/L	0.91	20		
7670521	Nitrite (N)	2021/11/01	103	80 - 120	108	80 - 120	<0.010	mg/L				
7670545	Orthophosphate (P)	2021/11/01	107	75 - 125	101	80 - 120	<0.010	mg/L	0.030	25		
7670553	Orthophosphate (P)	2021/11/01	115	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7670578	Dissolved Bromide (Br-)	2021/11/01	109	80 - 120	107	80 - 120	<1.0	mg/L	NC	20		
7670578	Dissolved Chloride (Cl-)	2021/11/01	NC	80 - 120	102	70 - 130	<1.0	mg/L	0.10	20		
7670578	Dissolved Sulphate (SO4)	2021/11/01	NC	80 - 120	104	80 - 120	<1.0	mg/L	0.33	20		
7670582	Dissolved Bromide (Br-)	2021/11/02	100	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7670582	Dissolved Chloride (Cl-)	2021/11/02	NC	80 - 120	96	70 - 130	<1.0	mg/L	9.0	20		
7670582	Dissolved Sulphate (SO4)	2021/11/02	NC	80 - 120	99	80 - 120	<1.0	mg/L	9.6	20		
7671648	Fluoride (F-)	2021/11/01	104	80 - 120	103	80 - 120	<0.10	mg/L	7.2	20		
7671652	Alkalinity (Total as CaCO3)	2021/11/01			96	85 - 115	<1.0	mg/L	0.97	20		
7671657	pH	2021/11/01			102	98 - 103			0.0013	N/A		
7671663	Conductivity	2021/11/01			103	85 - 115	<1.0	umho/cm	2.5	25		
7672250	a-Chlordane	2021/11/02	83	50 - 130	82	50 - 130	<0.005	ug/L	NC	30		
7672250	Aldrin	2021/11/02	80	50 - 130	73	50 - 130	<0.005	ug/L	NC	30		
7672250	alpha-BHC	2021/11/02	76	30 - 130	79	30 - 130	<0.005	ug/L	NC	40		
7672250	Aroclor 1242	2021/11/02					<0.05	ug/L	NC	30		
7672250	Aroclor 1248	2021/11/02					<0.05	ug/L	NC	30		
7672250	Aroclor 1254	2021/11/02					<0.05	ug/L	NC	30		
7672250	Aroclor 1260	2021/11/02					<0.05	ug/L	NC	30		
7672250	beta-BHC	2021/11/02	68	30 - 130	70	30 - 130	<0.005	ug/L	NC	40		
7672250	Dieldrin	2021/11/02	92	50 - 130	98	50 - 130	<0.005	ug/L	NC	30		
7672250	Endosulfan I (alpha)	2021/11/02	84	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7672250	Endosulfan II (beta)	2021/11/02	82	50 - 130	82	50 - 130	<0.005	ug/L	NC	30		
7672250	Endrin aldehyde	2021/11/02	65	30 - 130	66	30 - 130	<0.005	ug/L	NC	40		
7672250	Endrin ketone	2021/11/02	92	30 - 130	90	30 - 130	<0.005	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7672250	Endrin	2021/11/02	85	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7672250	g-Chlordane	2021/11/02	87	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		
7672250	Heptachlor epoxide	2021/11/02	84	50 - 130	85	50 - 130	<0.005	ug/L	NC	30		
7672250	Heptachlor	2021/11/02	76	50 - 130	76	50 - 130	<0.005	ug/L	NC	30		
7672250	Hexachlorobenzene	2021/11/02	84	50 - 130	82	50 - 130	<0.005	ug/L	NC	30		
7672250	Hexachlorobutadiene	2021/11/02	71	50 - 130	66	50 - 130	<0.009	ug/L	6.2	30		
7672250	Hexachloroethane	2021/11/02	61	50 - 130	55	50 - 130	<0.01	ug/L	7.3	30		
7672250	Lindane	2021/11/02	79	50 - 130	81	50 - 130	<0.003	ug/L	NC	30		
7672250	Methoxychlor	2021/11/02	113	50 - 130	113	50 - 130	<0.01	ug/L	NC	30		
7672250	Mirex	2021/11/02	97	30 - 130	94	30 - 130	<0.005	ug/L	NC	40		
7672250	o,p-DDD	2021/11/02	101	50 - 130	98	50 - 130	<0.005	ug/L	NC	30		
7672250	o,p-DDE	2021/11/02	86	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		
7672250	o,p-DDT	2021/11/02	99	50 - 130	95	50 - 130	<0.005	ug/L	NC	30		
7672250	p,p-DDD	2021/11/02	90	50 - 130	96	50 - 130	<0.005	ug/L	NC	30		
7672250	p,p-DDE	2021/11/02	81	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7672250	p,p-DDT	2021/11/02	90	50 - 130	90	50 - 130	<0.005	ug/L	NC	30		
7672250	Toxaphene	2021/11/02					<0.2	ug/L	NC	40		
7673030	Total Organic Carbon (TOC)	2021/11/02	95	80 - 120	97	80 - 120	<0.40	mg/L	0.34	20		
7673054	Total Kjeldahl Nitrogen (TKN)	2021/11/02	NC	80 - 120	98	80 - 120	<0.10	mg/L	0.79	20	98	80 - 120
7673057	Total Kjeldahl Nitrogen (TKN)	2021/11/03	NC	80 - 120	101	80 - 120	<0.10	mg/L	1.6	20	100	80 - 120
7673063	Total Ammonia-N	2021/11/02	102	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7675024	Total Organic Carbon (TOC)	2021/11/02	93	80 - 120	95	80 - 120	<0.40	mg/L	1.1	20		
7675820	Total Ammonia-N	2021/11/03	NC	75 - 125	98	80 - 120	<0.050	mg/L	1.8	20		
7676243	Total Ammonia-N	2021/11/03	NC	75 - 125	99	80 - 120	<0.050	mg/L	0.19	20		
7677083	Phenols-4AAP	2021/11/03	103	80 - 120	100	80 - 120	<0.0010	mg/L	4.9	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641

Report Date: 2021/11/09

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7687931	Total Dissolved Solids	2021/11/09					<10	mg/L	0.83	25	98	90 - 110

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.
- (2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
- (3) Metal Analysis: Matrix Spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

Bureau Veritas Job #: C1V6641
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

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

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Bureau Veritas Laboratories
 6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

28-Oct-21 16:05

Jolanta Goralczyk
 C1V6641

INVOICE TO:
 Company Name: #16786 Terrapure Environmental
 Attention: Accounting
 Address: 65 Green Mountain Rd West
 Stoney Creek ON L8J 1X5
 (905) 561-0305 Fax: (905) 561-1674
 Email: kbailey@terrapureenv.com

REPORT TO:
 Company Name:
 Attention: Brad Mullin - GHD Reporting
 Address:
 Tel:
 Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com

PROJECT INFORMATION:
 Quotation #: B60569
 P.O. #:
 Project: GW
 Project Name:
 Site #:
 Sampled By:

Project Manager:
 Jolanta Goralczyk
 Bottle Order #:
 847927
 Project Manager:
 Jolanta Goralczyk
 Turnaround Time (TAT) Required
 Please provide advance notice for rush projects

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
 Table 1 Res/Park Medium/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other For RSC
 Table

Other Regulations
 CCME Sanitary Sewer Bylaw
 Reg 558 Storm Sewer Bylaw
 MISA Municipality
 PWQO Reg 406 Table
 Other

Special Instructions

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle):
 Metals/ Hg / Cr / V
 List "A" GW Monitoring
 List "B" GW Monitoring
 Biochemical Oxygen Demand (BOD)

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.
 Job Specific Rush TAT (if applies to entire submission)
 Date Required: Time Required:
 Rush Confirmation Number: (call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals/ Hg / Cr / V	List "A" GW Monitoring	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)	# of Bottles	Comments
1	P11-I	21/10/27	N/A	GW	Y	X			6	
2	P11-II				Y	X			6	
3	P11-III				Y	X			6	
4	2-II				Y	X			6	
5	2-IV				Y	X			6	
6	35-III				Y		X		7	
7	35-IV				Y	X	X		13	
8	4-I				Y	X			6	
9	36-IR				Y	X			6	
10	36-IIR				Y	X			6	

RELINQUISHED BY: (Signature/Print) C. Richardson/Cooper Richardson Date: (YY/MM/DD) 21/10/28 Time 9:15 RECEIVED BY: (Signature/Print) Y. Thompson Date: (YY/MM/DD) 21/10/28 Time 16:05 # jars used and not submitted Laboratory Use Only

Time Sensitive Temperature (°C) on Receipt Custody Seal Present Intact Yes No
 SEE ACTR

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
 * 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.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.
 SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS
 White: BV Labs Yellow: Client



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#16786 Terrapure Environmental	Company Name:	Brad Mullin - GHD Reporting	Quotation #:	B60569	BV Labs Job #:	847927
Attention:	Accounting	Attention:	Brad Mullin - GHD Reporting	P.O. #:		COG #:	
Address:	65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:		Project:	GW	Project Manager:	Jelanta Goralczyk
Tel:	(905) 561-0305	Tel:		Project Name:			
Fax:	(905) 561-1674	Fax:		Site #:			
Email:	kbailey@terrapureenv.com	Email:	bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)							Turnaround Time (TAT) Required: Please provide advance notice for rush projects					
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle) Metals / Hg / Cr VI	List "A" GW Monitoring	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)								Regular (Standard) TAT: <i>(will be applied if Rush TAT is not specified)</i>	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw													<input checked="" type="checkbox"/>	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw														
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____														
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	Reg 406 Table _____														
<input type="checkbox"/> Other _____			<input type="checkbox"/> Other _____															
Include Criteria on Certificate of Analysis (Y/N)?																		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix												# of Bottles	Comments	
1	36 - IV R	21/10/27	N/A	GW	Y	X										6		
2	36 - IV R				Y	X										6		
3	P1 - I				Y	X										6		
4	P1 - II				Y	X										6		
5	P1 - III				Y	X										6		
6	62 - I				Y	X										6		
7	62 - II				Y	X										6		
8	62 - III				Y	X										6		
9	62 - IV				Y	X										6		
10	41 - I				Y	X	X									13		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
C. Richardson / Capra Richardson	21/10/28	9:15	SEE PAGE 1				Time Sensitive	Temperature (°C) on Race	Custody Seal Present	Yes	No
									Intact		

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* 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.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Attention: Brad Mullin - GHD Reporting Address: Tel: Fax: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: GW Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: COC #: Project Manager: Jolanta Goralczyk C#847927-26-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)					Turnaround Time (TAT) Required Please provide advance notice for rush projects				
Regulation 153 (2011)		Other Regulations		Special Instructions	Field Filtered (please circle): Metals/ Hg / Cr / V	Let 'A' GW Monitoring	Let 'B' GW Monitoring	Biochemical Oxygen Demand (BOD)						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.
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw										
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Rag 558	<input type="checkbox"/> Storm Sewer Bylaw										
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality										
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	Reg 406 Table										
Include Criteria on Certificate of Analysis (Y/N)?														
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix								# of Bottles	Comments	
1	41-II	21/10/27	11:16	GW	Y	X	X					13		
2	41-III	↓	↓	↓	Y	X						6		
3														
4														
5														
6														
7														
8														
9														
10														

RELINQUISHED BY: (Signature/Print) C. P. [Signature] / Cooper Richardson	Date: (YY/MM/DD) 21/10/28	Time 9:15	RECEIVED BY: (Signature/Print) SEE PAGE 1	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
									Present		
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.

** 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.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Additional

CHAIN OF CUSTODY RECORD Page 4 of 4

Bureau Veritas Laboratories
 6740 Carleton Place, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West, Stoney Creek ON L3J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Brad Mullin - GHD Reporting Attention: Address: Tel: Fax: Email: btmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: GW Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: B47927 COC #: Project Manager: Jolanta Goralczyk Sampled Time (TAT) Required:	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table:		Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 556 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Municipality <input type="checkbox"/> PVQO <input type="checkbox"/> Reg 406 Table <input type="checkbox"/> Other:		Special Instructions	
---	--	--	--	-----------------------------	--

Include Criteria on Certificate of Analysis (Y/N)?

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (Please circle)	Metals / Hg / Cr / Vt	100' GW Monitoring	150' GW Monitoring	Biocological Oxygen Demand (BOD)	Comments
1	12-IV	Oct 29 2011	MA	GW	Y	X				
2	41-II	Nov 1 2011		GW	N				X	Phenol for job # C1V6641
3				GW						
4				GW						
5				GW						
6				GW						
7				GW						
8				GW						
9				GW						
10				GW						

28-Oct-21 16:05
 Jolanta Goralczyk

C1V6641
 BVV ENV 1412

RELINQUISHED BY: (Signature/Print) <i>Den Taylor</i>		Date: (YY/MM/DD) 31/11/02		Time: 9:20		RECEIVED BY: (Signature/Print) <i>See pg 1</i>		Date: (YY/MM/DD)		Time:		# Jars used and not submitted		Laboratory Use Only Time Sensitive:		Temperature (°C) on Receipt:		Custody Seal: Preserved, Intact		Yes: No:	
---	--	----------------------------------	--	-------------------	--	---	--	------------------	--	-------	--	-------------------------------	--	--	--	------------------------------	--	---------------------------------	--	----------	--

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.
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 * SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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Your Project #: GW
 Your C.O.C. #: 847927-11-01, 847927-10-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON
 CANADA L8J 1X5

Report Date: 2021/11/09
 Report #: R6893674
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V8652

Received: 2021/10/29, 17:54

Sample Matrix: Water
 # Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/11/02	2021/11/05	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by GC/MS	3	2021/11/04	2021/11/05	CAM SOP-00301	EPA 8270 m
Alkalinity	19	N/A	2021/11/03	CAM SOP-00448	SM 23 2320 B m
Anions	19	N/A	2021/11/04	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	1	2021/10/30	2021/11/04	CAM SOP-00427	SM 23 5210B m
Conductivity	19	N/A	2021/11/03	CAM SOP-00414	SM 23 2510 m
Fluoride	19	2021/11/02	2021/11/03	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	19	N/A	2021/11/08	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	18	N/A	2021/11/06	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/11/08	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/11/04	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	18	N/A	2021/11/05	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	3	N/A	2021/11/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Water (1)	12	N/A	2021/11/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Water (1)	4	N/A	2021/11/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	1	2021/11/02	2021/11/05	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides (Selected) & PCB (2)	3	2021/11/02	2021/11/06	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	2	N/A	2021/11/02	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	2	N/A	2021/11/03	CAM SOP-00307	EPA 8081A/8082B m
pH	19	2021/11/02	2021/11/03	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	19	N/A	2021/11/02	CAM SOP-00444	OMOE E3179 m
Orthophosphate	19	N/A	2021/11/03	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	19	2021/11/02	2021/11/03	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	12	2021/11/03	2021/11/03	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	4	2021/11/03	2021/11/04	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	3	2021/11/03	2021/11/05	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	14	N/A	2021/11/03	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (3)	5	N/A	2021/11/04	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	4	N/A	2021/11/02	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	4	N/A	2021/11/02	CAM SOP-00226	EPA 8260 m



Your Project #: GW
Your C.O.C. #: 847927-11-01, 847927-10-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/11/09
Report #: R6893674
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V8652

Received: 2021/10/29, 17:54

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane
- (3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
09 Nov 2021 13:31:12

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB600			RCB601			RCB601		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-11-01			847927-11-01			847927-11-01		
	UNITS	58-I	RDL	QC Batch	P8-II	RDL	QC Batch	P8-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	230	1.0	7671054	960	1.0	7671054			
Inorganics										
Total Ammonia-N	mg/L	83	0.25	7677766	0.11	0.050	7677766			
Total BOD	mg/L	330	2	7671012						
Conductivity	umho/cm	8100	1.0	7676370	2400	1.0	7676370			
Total Dissolved Solids	mg/L	4800	20	7675625	1620	10	7675625	1670	10	7675625
Fluoride (F-)	mg/L	3.4	0.10	7676362	1.1	0.10	7676362			
Total Kjeldahl Nitrogen (TKN)	mg/L	91	5.0	7677993	1.2	0.10	7677989			
Total Organic Carbon (TOC)	mg/L	370	4.0	7678115	4.2	0.40	7678115			
Orthophosphate (P)	mg/L	0.023	0.010	7676348	<0.010	0.010	7676348			
pH	pH	11.9		7676376	7.67		7676376			
Phenols-4AAP	mg/L	6.3	0.20	7672946	<0.0010	0.0010	7672946			
Alkalinity (Total as CaCO3)	mg/L	920	1.0	7676365	270	1.0	7676365			
Nitrite (N)	mg/L	0.022	0.010	7675902	<0.010	0.010	7676504			
Dissolved Chloride (Cl-)	mg/L	1400	10	7676356	260	5.0	7676356			
Nitrate (N)	mg/L	<0.10	0.10	7675902	3.04	0.10	7676504			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7675902	3.04	0.10	7676504			
Dissolved Bromide (Br-)	mg/L	16	10	7676356	<5.0	5.0	7676356			
Dissolved Sulphate (SO4)	mg/L	440	10	7676356	680	5.0	7676356			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB602			RCB602			RCB603		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-11-01			847927-11-01			847927-11-01		
	UNITS	G27	RDL	QC Batch	G27 Lab-Dup	RDL	QC Batch	72-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	860	1.0	7671054				48000	1.0	7671054
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7677766				36	0.25	7677766
Conductivity	umho/cm	2000	1.0	7676370	2000	1.0	7676370	>100000	1.0	7676370
Total Dissolved Solids	mg/L	1470	10	7671555				115000	20	7671555
Fluoride (F-)	mg/L	1.0	0.10	7676362	1.0	0.10	7676362	0.15	0.10	7676362
Total Kjeldahl Nitrogen (TKN)	mg/L	1.5	0.10	7677536				39	2.5	7678649
Total Organic Carbon (TOC)	mg/L	3.4	0.40	7677494				0.73	0.40	7677494
Orthophosphate (P)	mg/L	<0.010	0.010	7676348				<0.010	0.010	7676511
pH	pH	7.74		7676376	7.69		7676376	6.70		7676376
Phenols-4AAP	mg/L	<0.0010	0.0010	7672946				0.057	0.010	7672946
Alkalinity (Total as CaCO3)	mg/L	300	1.0	7676365	310	1.0	7676365	68	1.0	7676365
Nitrite (N)	mg/L	0.014	0.010	7676504				<0.10	0.10	7676504
Dissolved Chloride (Cl-)	mg/L	200	5.0	7676356				67000	500	7676356
Nitrate (N)	mg/L	5.07	0.10	7676504				<1.0	1.0	7676504
Nitrate + Nitrite (N)	mg/L	5.08	0.10	7676504				<1.0	1.0	7676504
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7676356				860	500	7676356
Dissolved Sulphate (SO4)	mg/L	600	5.0	7676356				870	500	7676356

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



**BUREAU
VERITAS**

Bureau Veritas Job #: C1V8652
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Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB603			RCB604			RCB604		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-11-01			847927-11-01			847927-11-01		
	UNITS	72-I Lab-Dup	RDL	QC Batch	72-II	RDL	QC Batch	72-II Lab-Dup	RDL	QC Batch

Calculated Parameters

Hardness (CaCO ₃)	mg/L				16000	1.0	7671054			
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Inorganics

Total Ammonia-N	mg/L				19	0.050	7677766	20	0.050	7677766
Conductivity	umho/cm				57000	1.0	7676370			
Total Dissolved Solids	mg/L				40300	20	7675625			
Fluoride (F-)	mg/L				0.49	0.10	7676362			
Total Kjeldahl Nitrogen (TKN)	mg/L				33	2.0	7677993			
Total Organic Carbon (TOC)	mg/L	0.69	0.40	7677494	2.0	0.40	7677494			
Orthophosphate (P)	mg/L				<0.010	0.010	7676348			
pH	pH				7.37		7676376			
Phenols-4AAP	mg/L				0.013	0.010	7672946			
Alkalinity (Total as CaCO ₃)	mg/L				180	1.0	7676365			
Nitrite (N)	mg/L				0.015	0.010	7675902			
Dissolved Chloride (Cl-)	mg/L				20000	200	7676356			
Nitrate (N)	mg/L				<0.10	0.10	7675902			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7675902			
Dissolved Bromide (Br-)	mg/L				260	200	7676356			
Dissolved Sulphate (SO ₄)	mg/L				1400	200	7676356			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
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Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB605			RCB606			RCB606		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-11-01			847927-11-01			847927-11-01		
	UNITS	72-III	RDL	QC Batch	77-I	RDL	QC Batch	77-I Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	4700	1.0	7671054	52000	1.0	7671054			
Inorganics										
Total Ammonia-N	mg/L	9.2	0.050	7677766	39	0.25	7677766			
Conductivity	umho/cm	20000	1.0	7676370	>100000	1.0	7676370			
Total Dissolved Solids	mg/L	13400	20	7675625	136000	20	7675625			
Fluoride (F-)	mg/L	0.87	0.10	7676362	0.16	0.10	7676362			
Total Kjeldahl Nitrogen (TKN)	mg/L	10	0.50	7677989	49	10	7677993			
Total Organic Carbon (TOC)	mg/L	2.1	0.40	7677494	1.9	0.40	7678115			
Orthophosphate (P)	mg/L	<0.010	0.010	7676348	<0.010	0.010	7676511	<0.010	0.010	7676511
pH	pH	7.51		7676376	6.62		7676376			
Phenols-4AAP	mg/L	0.0061	0.0010	7672946	0.065	0.010	7672946			
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7676365	58	1.0	7676365			
Nitrite (N)	mg/L	<0.010	0.010	7676504	<0.10	0.10	7676504			
Dissolved Chloride (Cl-)	mg/L	6300	100	7676356	65000	500	7676356			
Nitrate (N)	mg/L	<0.10	0.10	7676504	<1.0	1.0	7676504			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7676504	<1.0	1.0	7676504			
Dissolved Bromide (Br-)	mg/L	<100	100	7676356	870	500	7676356			
Dissolved Sulphate (SO4)	mg/L	2000	100	7676356	920	500	7676356			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB607			RCB607			RCB608		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-11-01			847927-11-01			847927-11-01		
	UNITS	77-II	RDL	QC Batch	77-II Lab-Dup	RDL	QC Batch	77-III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	39000	1.0	7671054				1200	1.0	7671054
Inorganics										
Total Ammonia-N	mg/L	29	0.050	7677766				0.14	0.050	7677766
Conductivity	umho/cm	>100000	1.0	7676370				2600	1.0	7676370
Total Dissolved Solids	mg/L	101000	20	7675625				1920	10	7675625
Fluoride (F-)	mg/L	0.20	0.10	7676362				0.83	0.10	7676362
Total Kjeldahl Nitrogen (TKN)	mg/L	40	1.0	7677536				0.50	0.10	7677989
Total Organic Carbon (TOC)	mg/L	9.3	0.40	7677494				5.5	0.40	7677494
Orthophosphate (P)	mg/L	<0.010	0.010	7676348				<0.010	0.010	7676511
pH	pH	6.65		7676376				7.56		7676376
Phenols-4AAP	mg/L	0.051	0.010	7672946				<0.0010	0.0010	7672946
Alkalinity (Total as CaCO3)	mg/L	70	1.0	7676365				390	1.0	7676365
Nitrite (N)	mg/L	<0.10	0.10	7676504	<0.10	0.10	7676504	<0.010	0.010	7676504
Dissolved Chloride (Cl-)	mg/L	60000	500	7676356				290	5.0	7676356
Nitrate (N)	mg/L	<1.0	1.0	7676504	<1.0	1.0	7676504	<0.10	0.10	7676504
Nitrate + Nitrite (N)	mg/L	<1.0	1.0	7676504	<1.0	1.0	7676504	<0.10	0.10	7676504
Dissolved Bromide (Br-)	mg/L	800	500	7676356				<5.0	5.0	7676356
Dissolved Sulphate (SO4)	mg/L	1100	500	7676356				700	5.0	7676356
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB609			RCB624			RCB625		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-11-01			847927-10-01			847927-10-01		
	UNITS	P7-IR	RDL	QC Batch	P7-II	RDL	QC Batch	P7-III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2600	1.0	7671054	890	1.0	7671054	450	1.0	7671054
Inorganics										
Total Ammonia-N	mg/L	21	0.050	7677766	18	0.050	7677766	13	0.050	7677766
Conductivity	umho/cm	12000	1.0	7676370	3000	1.0	7676370	3200	1.0	7676370
Total Dissolved Solids	mg/L	7190	20	7671555	2120	10	7675625	1480	10	7671555
Fluoride (F-)	mg/L	0.61	0.10	7676362	1.1	0.10	7676362	1.3	0.10	7676362
Total Kjeldahl Nitrogen (TKN)	mg/L	22	1.0	7677989	24	1.0	7677989	14	0.50	7677989
Total Organic Carbon (TOC)	mg/L	7.7	0.40	7678115	14	0.40	7678115	11	0.40	7678115
Orthophosphate (P)	mg/L	0.018	0.010	7676511	0.029	0.010	7676511	0.059	0.010	7676348
pH	pH	7.38		7676376	8.96		7676376	8.49		7676376
Phenols-4AAP	mg/L	0.043	0.0020	7672946	0.37	0.020	7672946	0.28	0.020	7672946
Alkalinity (Total as CaCO3)	mg/L	87	1.0	7676365	69	1.0	7676365	140	1.0	7676365
Nitrite (N)	mg/L	<0.010	0.010	7676504	<0.010	0.010	7676504	0.069	0.010	7676504
Dissolved Chloride (Cl-)	mg/L	2900	20	7676356	290	5.0	7676356	500	5.0	7676356
Nitrate (N)	mg/L	<0.10	0.10	7676504	<0.10	0.10	7676504	0.34	0.10	7676504
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7676504	<0.10	0.10	7676504	0.41	0.10	7676504
Dissolved Bromide (Br-)	mg/L	26	20	7676356	<5.0	5.0	7676356	<5.0	5.0	7676356
Dissolved Sulphate (SO4)	mg/L	1500	20	7676356	980	5.0	7676356	680	5.0	7676356
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB626			RCB626			RCB627		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-10-01			847927-10-01			847927-10-01		
	UNITS	P7-IV	RDL	QC Batch	P7-IV Lab-Dup	RDL	QC Batch	P5-IR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	170	1.0	7671054				1700	1.0	7671054
Inorganics										
Total Ammonia-N	mg/L	20	0.050	7677766				51	0.25	7677766
Conductivity	umho/cm	1800	1.0	7676370				7100	1.0	7676370
Total Dissolved Solids	mg/L	1040	10	7675625				4900	20	7671555
Fluoride (F-)	mg/L	1.3	0.10	7676362				1.2	0.10	7676362
Total Kjeldahl Nitrogen (TKN)	mg/L	21	1.0	7677993				71	2.0	7677989
Total Organic Carbon (TOC)	mg/L	26	0.40	7678115	26	0.40	7678115	9.5	0.40	7677494
Orthophosphate (P)	mg/L	<0.010	0.010	7676348				<0.010	0.010	7676348
pH	pH	9.31		7676376				7.66		7676376
Phenols-4AAP	mg/L	1.7	0.10	7672946				0.011	0.0010	7672946
Alkalinity (Total as CaCO3)	mg/L	93	1.0	7676365				68	1.0	7676365
Nitrite (N)	mg/L	<0.010	0.010	7676504				<0.010	0.010	7676504
Dissolved Chloride (Cl-)	mg/L	100	5.0	7676356				1300	10	7676356
Nitrate (N)	mg/L	<0.10	0.10	7676504				<0.10	0.10	7676504
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7676504				<0.10	0.10	7676504
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7676356				<10	10	7676356
Dissolved Sulphate (SO4)	mg/L	510	5.0	7676356				1900	10	7676356

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB628			RCB629			RCB630		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-10-01			847927-10-01			847927-10-01		
	UNITS	P5-IIR	RDL	QC Batch	P5-IIIR	RDL	QC Batch	P5-IVR	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1600	1.0	7671054	350	1.0	7671054	890	1.0	7671054
Inorganics										
Total Ammonia-N	mg/L	1.6	0.050	7677766	57	0.25	7677766	0.10	0.050	7678872
Conductivity	umho/cm	3100	1.0	7676370	5500	1.0	7676370	1500	1.0	7676370
Total Dissolved Solids	mg/L	2600	10	7675625	2860	10	7671555	1150	10	7675625
Fluoride (F-)	mg/L	0.52	0.10	7676362	1.7	0.10	7676362	0.68	0.10	7676362
Total Kjeldahl Nitrogen (TKN)	mg/L	1.8	0.50	7677989	57	5.0	7677989	0.96	0.10	7677989
Total Organic Carbon (TOC)	mg/L	2.7	0.40	7678115	14	0.40	7678115	7.5	0.40	7677494
Orthophosphate (P)	mg/L	<0.010	0.010	7676348	<0.010	0.010	7676348	<0.010	0.010	7676348
pH	pH	7.61		7676376	7.94		7676376	7.41		7676376
Phenols-4AAP	mg/L	0.0013	0.0010	7672946	0.13	0.010	7672946	0.0014	0.0010	7672946
Alkalinity (Total as CaCO3)	mg/L	250	1.0	7676365	140	1.0	7676365	460	1.0	7676365
Nitrite (N)	mg/L	<0.010	0.010	7676504	<0.010	0.010	7676504	0.038	0.010	7676504
Dissolved Chloride (Cl-)	mg/L	300	5.0	7676356	1500	10	7676356	21	1.0	7676356
Nitrate (N)	mg/L	<0.10	0.10	7676504	<0.10	0.10	7676504	2.10	0.10	7676504
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7676504	<0.10	0.10	7676504	2.14	0.10	7676504
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7676356	<10	10	7676356	<1.0	1.0	7676356
Dissolved Sulphate (SO4)	mg/L	1100	5.0	7676356	450	10	7676356	430	1.0	7676356
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB630			RCB631			RCB631		
Sampling Date		2021/10/28			2021/10/28			2021/10/28		
COC Number		847927-10-01			847927-10-01			847927-10-01		
	UNITS	P5-IVR Lab-Dup	RDL	QC Batch	12-I	RDL	QC Batch	12-I Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				49000	1.0	7671054			
Inorganics										
Total Ammonia-N	mg/L	0.085	0.050	7678872	36	0.25	7677766			
Conductivity	umho/cm				>100000	1.0	7676370			
Total Dissolved Solids	mg/L				123000	20	7671555			
Fluoride (F-)	mg/L				0.15	0.10	7676362			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.1	0.10	7677989	45	5.0	7677993	46	5.0	7677993
Total Organic Carbon (TOC)	mg/L				3.7	0.40	7678115			
Orthophosphate (P)	mg/L	<0.010	0.010	7676348	<0.010	0.010	7676511			
pH	pH				6.58		7676376			
Phenols-4AAP	mg/L				0.064	0.010	7672946			
Alkalinity (Total as CaCO3)	mg/L				60	1.0	7676365			
Nitrite (N)	mg/L				<0.10	0.10	7676504			
Dissolved Chloride (Cl-)	mg/L				73000	500	7676356			
Nitrate (N)	mg/L				<1.0	1.0	7676504			
Nitrate + Nitrite (N)	mg/L				<1.0	1.0	7676504			
Dissolved Bromide (Br-)	mg/L				1000	500	7676356			
Dissolved Sulphate (SO4)	mg/L				890	500	7676356			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCB632			RCB632		
Sampling Date		2021/10/28			2021/10/28		
COC Number		847927-10-01			847927-10-01		
	UNITS	2-III	RDL	QC Batch	2-III Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	2500	1.0	7671054			
Inorganics							
Total Ammonia-N	mg/L	21	0.050	7677766			
Conductivity	umho/cm	11000	1.0	7676370			
Total Dissolved Solids	mg/L	7100	20	7671555			
Fluoride (F-)	mg/L	0.59	0.10	7676362			
Total Kjeldahl Nitrogen (TKN)	mg/L	22	1.0	7677989			
Total Organic Carbon (TOC)	mg/L	8.2	0.40	7678115			
Orthophosphate (P)	mg/L	0.018	0.010	7676348			
pH	pH	7.76		7676376			
Phenols-4AAP	mg/L	0.046	0.010	7672946			
Alkalinity (Total as CaCO3)	mg/L	100	1.0	7676365			
Nitrite (N)	mg/L	<0.010	0.010	7675902			
Dissolved Chloride (Cl-)	mg/L	2800	20	7676356	2900	20	7676356
Nitrate (N)	mg/L	<0.10	0.10	7675902			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7675902			
Dissolved Bromide (Br-)	mg/L	25	20	7676356	24	20	7676356
Dissolved Sulphate (SO4)	mg/L	1500	20	7676356	1500	20	7676356
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCB600		RCB601	RCB602		RCB603		
Sampling Date		2021/10/28		2021/10/28	2021/10/28		2021/10/28		
COC Number		847927-11-01		847927-11-01	847927-11-01		847927-11-01		
	UNITS	58-I	RDL	P8-II	G27	RDL	72-I	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	930	25	140	470	4.9	<250	250	7672406
Dissolved Antimony (Sb)	ug/L	7.7	2.5	<0.50	<0.50	0.50	<25	25	7672406
Dissolved Arsenic (As)	ug/L	74	5.0	<1.0	<1.0	1.0	<50	50	7672406
Dissolved Barium (Ba)	ug/L	43	10	35	58	2.0	130	100	7672406
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	<0.40	0.40	<20	20	7672406
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<50	50	7672406
Dissolved Boron (B)	ug/L	290	50	120	130	10	5600	500	7672406
Dissolved Cadmium (Cd)	ug/L	<1.8 (1)	1.8	<0.090	0.11	0.090	<4.5	4.5	7672406
Dissolved Calcium (Ca)	ug/L	94000	1000	260000	240000	200	13000000	20000	7672406
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	<5.0	5.0	<250	250	7672406
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	1.0	0.51	0.50	<25	25	7672406
Dissolved Copper (Cu)	ug/L	<4.5	4.5	1.3	2.7	0.90	<45	45	7672406
Dissolved Iron (Fe)	ug/L	<500	500	200	700	100	<5000	5000	7672406
Dissolved Lead (Pb)	ug/L	2.9	2.5	<0.50	1.4	0.50	<25	25	7672406
Dissolved Lithium (Li)	ug/L	92	25	26	20	5.0	23000	250	7672406
Dissolved Magnesium (Mg)	ug/L	<250	250	77000	64000	50	3600000	2500	7672406
Dissolved Manganese (Mn)	ug/L	<10	10	47	28	2.0	2000	100	7672406
Dissolved Molybdenum (Mo)	ug/L	810	2.5	7.2	4.2	0.50	<25	25	7672406
Dissolved Nickel (Ni)	ug/L	150	5.0	22	7.4	1.0	<50	50	7672406
Dissolved Phosphorus (P)	ug/L	<500	500	<100	<100	100	<5000	5000	7672406
Dissolved Potassium (K)	ug/L	390000	1000	4200	4100	200	270000	10000	7672406
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	<2.0	2.0	<100	100	7672406
Dissolved Silicon (Si)	ug/L	9600	250	4500	5100	50	4100	2500	7672406
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	<0.090	0.090	<4.5	4.5	7672406
Dissolved Sodium (Na)	ug/L	1100000	500	170000	140000	100	21000000	5000	7672406
Dissolved Strontium (Sr)	ug/L	380	5.0	2700	1800	1.0	270000	50	7672406
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<50	50	7672406
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	0.79	0.23	0.050	<2.5	2.5	7672406
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<50	50	7672406
Dissolved Titanium (Ti)	ug/L	<25	25	5.4	12	5.0	<250	250	7672406
Dissolved Tungsten (W)	ug/L	88	5.0	<1.0	<1.0	1.0	<50	50	7672406
Dissolved Uranium (U)	ug/L	<0.50	0.50	13	12	0.10	<5.0	5.0	7672406
Dissolved Vanadium (V)	ug/L	67	2.5	0.56	1.0	0.50	<25	25	7672406
Dissolved Zinc (Zn)	ug/L	<25	25	990	220	5.0	<250	250	7672406
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<50	50	7672406

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Metals Analysis:Detection Limit was raised due to matrix interferences.



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCB604		RCB605		RCB606		RCB607		
Sampling Date		2021/10/28		2021/10/28		2021/10/28		2021/10/28		
COC Number		847927-11-01		847927-11-01		847927-11-01		847927-11-01		
	UNITS	72-II	RDL	72-III	RDL	77-I	RDL	77-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<49	49	<25	25	<250	250	850	250	7672406
Dissolved Antimony (Sb)	ug/L	<5.0	5.0	<2.5	2.5	<25	25	<25	25	7672406
Dissolved Arsenic (As)	ug/L	<10	10	<5.0	5.0	<50	50	<50	50	7672406
Dissolved Barium (Ba)	ug/L	41	20	18	10	130	100	100	100	7672406
Dissolved Beryllium (Be)	ug/L	<4.0	4.0	<2.0	2.0	<20	20	<20	20	7672406
Dissolved Bismuth (Bi)	ug/L	<10	10	<5.0	5.0	<50	50	<50	50	7672406
Dissolved Boron (B)	ug/L	6500	100	7100	50	5300	500	6100	500	7672406
Dissolved Cadmium (Cd)	ug/L	<0.90	0.90	<0.45	0.45	<4.5	4.5	<4.5	4.5	7672406
Dissolved Calcium (Ca)	ug/L	4400000	4000	1300000	1000	15000000	20000	11000000	10000	7672406
Dissolved Chromium (Cr)	ug/L	<50	50	<25	25	<250	250	<250	250	7672406
Dissolved Cobalt (Co)	ug/L	<5.0	5.0	<2.5	2.5	<25	25	<25	25	7672406
Dissolved Copper (Cu)	ug/L	<9.0	9.0	<4.5	4.5	<45	45	<45	45	7672406
Dissolved Iron (Fe)	ug/L	<1000	1000	<500	500	<5000	5000	<5000	5000	7672406
Dissolved Lead (Pb)	ug/L	<5.0	5.0	<2.5	2.5	<25	25	<25	25	7672406
Dissolved Lithium (Li)	ug/L	9200	250	3300	50	26000	500	19000	250	7672406
Dissolved Magnesium (Mg)	ug/L	1200000	500	350000	250	3700000	2500	2900000	2500	7672406
Dissolved Manganese (Mn)	ug/L	540	20	220	10	2100	100	1600	100	7672406
Dissolved Molybdenum (Mo)	ug/L	<5.0	5.0	<2.5	2.5	<25	25	<25	25	7672406
Dissolved Nickel (Ni)	ug/L	<10	10	<5.0	5.0	<50	50	<50	50	7672406
Dissolved Phosphorus (P)	ug/L	<1000	1000	<500	500	<5000	5000	<5000	5000	7672406
Dissolved Potassium (K)	ug/L	140000	2000	66000	1000	290000	10000	230000	10000	7672406
Dissolved Selenium (Se)	ug/L	<20	20	<10	10	<100	100	<100	100	7672406
Dissolved Silicon (Si)	ug/L	3600	500	5500	250	<2500	2500	3700	2500	7672406
Dissolved Silver (Ag)	ug/L	<0.90	0.90	<0.45	0.45	<4.5	4.5	<4.5	4.5	7672406
Dissolved Sodium (Na)	ug/L	7500000	5000	2600000	500	23000000	5000	17000000	5000	7672406
Dissolved Strontium (Sr)	ug/L	90000	10	25000	5.0	290000	50	220000	50	7672406
Dissolved Tellurium (Te)	ug/L	<10	10	<5.0	5.0	<50	50	<50	50	7672406
Dissolved Thallium (Tl)	ug/L	<0.50	0.50	<0.25	0.25	<2.5	2.5	<2.5	2.5	7672406
Dissolved Tin (Sn)	ug/L	<10	10	<5.0	5.0	<50	50	<50	50	7672406
Dissolved Titanium (Ti)	ug/L	<50	50	<25	25	<250	250	<250	250	7672406
Dissolved Tungsten (W)	ug/L	<10	10	<5.0	5.0	<50	50	<50	50	7672406
Dissolved Uranium (U)	ug/L	<1.0	1.0	<0.50	0.50	<5.0	5.0	<5.0	5.0	7672406
Dissolved Vanadium (V)	ug/L	<5.0	5.0	<2.5	2.5	<25	25	<25	25	7672406
Dissolved Zinc (Zn)	ug/L	<50	50	<25	25	<250	250	<250	250	7672406
Dissolved Zirconium (Zr)	ug/L	<10	10	<5.0	5.0	<50	50	<50	50	7672406
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCB608		RCB609		RCB624	RCB625	RCB626		
Sampling Date		2021/10/28		2021/10/28		2021/10/28	2021/10/28	2021/10/28		
COC Number		847927-11-01		847927-11-01		847927-10-01	847927-10-01	847927-10-01		
	UNITS	77-III	RDL	P7-IR	RDL	P7-II	P7-III	P7-IV	RDL	QC Batch

Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<25	25	5.6	26	12	4.9	7672406
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7672406
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	5.0	1.3	1.0	1.8	1.0	7672406
Dissolved Barium (Ba)	ug/L	35	2.0	38	10	16	27	11	2.0	7672406
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	<0.40	<0.40	<0.40	0.40	7672406
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7672406
Dissolved Boron (B)	ug/L	250	10	1600	50	390	440	500	10	7672406
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	<0.090	<0.090	0.090	7672406
Dissolved Calcium (Ca)	ug/L	200000	200	790000	1000	340000	140000	57000	200	7672406
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	<5.0	5.0	7672406
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7672406
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	<0.90	<0.90	<0.90	0.90	7672406
Dissolved Iron (Fe)	ug/L	1900	100	<500	500	<100	<100	<100	100	7672406
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7672406
Dissolved Lithium (Li)	ug/L	51	5.0	690	25	26	33	24	5.0	7672406
Dissolved Magnesium (Mg)	ug/L	160000	50	140000	250	13000	25000	7000	50	7672406
Dissolved Manganese (Mn)	ug/L	130	2.0	40	10	2.7	16	3.7	2.0	7672406
Dissolved Molybdenum (Mo)	ug/L	2.2	0.50	4.9	2.5	28	9.3	37	0.50	7672406
Dissolved Nickel (Ni)	ug/L	1.4	1.0	<5.0	5.0	7.3	4.9	14	1.0	7672406
Dissolved Phosphorus (P)	ug/L	<100	100	<500	500	<100	<100	<100	100	7672406
Dissolved Potassium (K)	ug/L	3600	200	74000	1000	70000	30000	71000	200	7672406
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	10	<2.0	<2.0	<2.0	2.0	7672406
Dissolved Silicon (Si)	ug/L	6400	50	8800	250	6200	5000	8100	50	7672406
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	<0.090	<0.090	0.090	7672406
Dissolved Sodium (Na)	ug/L	180000	100	1100000	500	300000	320000	230000	100	7672406
Dissolved Strontium (Sr)	ug/L	2500	1.0	12000	5.0	2500	1500	1300	1.0	7672406
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7672406
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	<0.050	<0.050	<0.050	0.050	7672406
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7672406
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	<5.0	5.0	7672406
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	5.0	8.4	3.7	15	1.0	7672406
Dissolved Uranium (U)	ug/L	4.2	0.10	0.82	0.50	<0.10	0.70	<0.10	0.10	7672406
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7672406
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	<5.0	5.0	7672406
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7672406

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCB627		RCB628		RCB629		RCB630		
Sampling Date		2021/10/28		2021/10/28		2021/10/28		2021/10/28		
COC Number		847927-10-01		847927-10-01		847927-10-01		847927-10-01		
	UNITS	P5-IR	RDL	P5-IIR	RDL	P5-IIIR	RDL	P5-IVR	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	<4.9	4.9	5.4	4.9	<4.9	4.9	7672406
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7672406
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7672406
Dissolved Barium (Ba)	ug/L	27	10	13	2.0	13	2.0	49	2.0	7672406
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	0.40	<0.40	0.40	<0.40	0.40	7672406
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7672406
Dissolved Boron (B)	ug/L	900	50	390	10	470	10	160	10	7672406
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	0.090	<0.090	0.090	0.12	0.090	7672406
Dissolved Calcium (Ca)	ug/L	610000	1000	500000	1000	73000	200	240000	400	7672406
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	7672406
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	0.50	<0.50	0.50	0.61	0.50	7672406
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	0.90	<0.90	0.90	2.1	0.90	7672406
Dissolved Iron (Fe)	ug/L	<500	500	<100	100	<100	100	610	100	7672406
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7672406
Dissolved Lithium (Li)	ug/L	82	25	63	5.0	34	5.0	5.9	5.0	7672406
Dissolved Magnesium (Mg)	ug/L	52000	250	93000	50	42000	50	72000	50	7672406
Dissolved Manganese (Mn)	ug/L	45	10	71	2.0	10	2.0	420	2.0	7672406
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	<0.50	0.50	2.9	0.50	3.2	0.50	7672406
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	<1.0	1.0	4.4	1.0	12	1.0	7672406
Dissolved Phosphorus (P)	ug/L	<500	500	<100	100	<100	100	<100	100	7672406
Dissolved Potassium (K)	ug/L	68000	1000	11000	200	63000	200	6700	200	7672406
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	2.0	<2.0	2.0	<2.0	2.0	7672406
Dissolved Silicon (Si)	ug/L	5400	250	3400	50	9200	50	5100	50	7672406
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	0.090	<0.090	0.090	<0.090	0.090	7672406
Dissolved Sodium (Na)	ug/L	910000	500	110000	100	890000	500	23000	100	7672406
Dissolved Strontium (Sr)	ug/L	5900	5.0	6500	1.0	2400	1.0	7300	1.0	7672406
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7672406
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	0.050	<0.050	0.050	0.24	0.050	7672406
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7672406
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	7672406
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	1.0	6.7	1.0	<1.0	1.0	7672406
Dissolved Uranium (U)	ug/L	<0.50	0.50	<0.10	0.10	<0.10	0.10	7.7	0.10	7672406
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7672406
Dissolved Zinc (Zn)	ug/L	<25	25	<5.0	5.0	<5.0	5.0	780	5.0	7672406
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7672406
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCB631		RCB632		
Sampling Date		2021/10/28		2021/10/28		
COC Number		847927-10-01		847927-10-01		
	UNITS	12-I	RDL	2-III	RDL	QC Batch
Metals						
Dissolved Aluminum (Al)	ug/L	<250	250	<25	25	7672406
Dissolved Antimony (Sb)	ug/L	<25	25	<2.5	2.5	7672406
Dissolved Arsenic (As)	ug/L	<50	50	<5.0	5.0	7672406
Dissolved Barium (Ba)	ug/L	130	100	37	10	7672406
Dissolved Beryllium (Be)	ug/L	<20	20	<2.0	2.0	7672406
Dissolved Bismuth (Bi)	ug/L	<50	50	<5.0	5.0	7672406
Dissolved Boron (B)	ug/L	5600	500	1500	50	7672406
Dissolved Cadmium (Cd)	ug/L	<4.5	4.5	<0.45	0.45	7672406
Dissolved Calcium (Ca)	ug/L	13000000	20000	790000	1000	7672406
Dissolved Chromium (Cr)	ug/L	<250	250	<25	25	7672406
Dissolved Cobalt (Co)	ug/L	<25	25	<2.5	2.5	7672406
Dissolved Copper (Cu)	ug/L	<45	45	<4.5	4.5	7672406
Dissolved Iron (Fe)	ug/L	<5000	5000	<500	500	7672406
Dissolved Lead (Pb)	ug/L	<25	25	<2.5	2.5	7672406
Dissolved Lithium (Li)	ug/L	24000	250	640	25	7672406
Dissolved Magnesium (Mg)	ug/L	3600000	2500	130000	250	7672406
Dissolved Manganese (Mn)	ug/L	2200	100	38	10	7672406
Dissolved Molybdenum (Mo)	ug/L	<25	25	3.5	2.5	7672406
Dissolved Nickel (Ni)	ug/L	<50	50	<5.0	5.0	7672406
Dissolved Phosphorus (P)	ug/L	<5000	5000	<500	500	7672406
Dissolved Potassium (K)	ug/L	280000	10000	74000	1000	7672406
Dissolved Selenium (Se)	ug/L	<100	100	<10	10	7672406
Dissolved Silicon (Si)	ug/L	3200	2500	9100	250	7672406
Dissolved Silver (Ag)	ug/L	<4.5	4.5	<0.45	0.45	7672406
Dissolved Sodium (Na)	ug/L	21000000	5000	1100000	500	7672406
Dissolved Strontium (Sr)	ug/L	280000	50	11000	5.0	7672406
Dissolved Tellurium (Te)	ug/L	<50	50	<5.0	5.0	7672406
Dissolved Thallium (Tl)	ug/L	<2.5	2.5	<0.25	0.25	7672406
Dissolved Tin (Sn)	ug/L	<50	50	<5.0	5.0	7672406
Dissolved Titanium (Ti)	ug/L	<250	250	<25	25	7672406
Dissolved Tungsten (W)	ug/L	<50	50	<5.0	5.0	7672406
Dissolved Uranium (U)	ug/L	<5.0	5.0	0.72	0.50	7672406
Dissolved Vanadium (V)	ug/L	<25	25	<2.5	2.5	7672406
Dissolved Zinc (Zn)	ug/L	<250	250	<25	25	7672406
Dissolved Zirconium (Zr)	ug/L	<50	50	<5.0	5.0	7672406
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RCB600		RCB603		RCB604	RCB605		
Sampling Date		2021/10/28		2021/10/28		2021/10/28	2021/10/28		
COC Number		847927-11-01		847927-11-01		847927-11-01	847927-11-01		
	UNITS	58-I	RDL	72-I	RDL	72-II	72-III	RDL	QC Batch
Semivolatile Organics									
Acenaphthene	ug/L	55	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Acenaphthylene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Anthracene	ug/L	28	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Benzo(a)anthracene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Benzo(a)pyrene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Benzo(b/j)fluoranthene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Benzo(g,h,i)perylene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Benzo(k)fluoranthene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
1-Chloronaphthalene	ug/L	<50	50	<1.0	1.0	<10	<10	10	7679989
2-Chloronaphthalene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Chrysene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Dibenzo(a,h)anthracene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Fluoranthene	ug/L	36	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Fluorene	ug/L	39	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Indeno(1,2,3-cd)pyrene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
1-Methylnaphthalene	ug/L	34	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
2-Methylnaphthalene	ug/L	38	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Naphthalene	ug/L	550	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
5-Nitroacenaphthene	ug/L	<50	50	<1.0	1.0	<10	<10	10	7679989
Perylene	ug/L	<10	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Phenanthrene	ug/L	85	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
Pyrene	ug/L	28	10	<0.20	0.20	<2.0	<2.0	2.0	7679989
1,2-Dichlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
1,3-Dichlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
1,4-Dichlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Hexachlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Pentachlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
1,2,3,5-Tetrachlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
1,2,4,5-Tetrachlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
1,2,3-Trichlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
1,2,4-Trichlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
1,3,5-Trichlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2-Chlorophenol	ug/L	<15	15	<0.30	0.30	<3.0	<3.0	3.0	7679989
4-Chloro-3-Methylphenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
m/p-Cresol	ug/L	470	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
o-Cresol	ug/L	110	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



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VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RCB600		RCB603		RCB604	RCB605		
Sampling Date		2021/10/28		2021/10/28		2021/10/28	2021/10/28		
COC Number		847927-11-01		847927-11-01		847927-11-01	847927-11-01		
	UNITS	58-I	RDL	72-I	RDL	72-II	72-III	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,3-Dichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,4-Dichlorophenol	ug/L	<15	15	<0.30	0.30	<3.0	<3.0	3.0	7679989
2,5-Dichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,6-Dichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
3,4-Dichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
3,5-Dichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,4-Dimethylphenol	ug/L	64	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,4-Dinitrophenol	ug/L	<100	100	<2.0	2.0	<20	<20	20	7679989
4,6-Dinitro-2-methylphenol	ug/L	<100	100	<2.0	2.0	<20	<20	20	7679989
2-Nitrophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
4-Nitrophenol	ug/L	<70	70	<1.4	1.4	<14	<14	14	7679989
Pentachlorophenol	ug/L	<50	50	<1.0	1.0	<10	<10	10	7679989
Phenol	ug/L	910	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,3,4,5-Tetrachlorophenol	ug/L	<20	20	<0.40	0.40	<4.0	<4.0	4.0	7679989
2,3,4,6-Tetrachlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,3,5,6-Tetrachlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,3,4-Trichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,3,5-Trichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,3,6-Trichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,4,5-Trichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
2,4,6-Trichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
3,4,5-Trichlorophenol	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Benzyl butyl phthalate	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Biphenyl	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Bis(2-chloroethyl)ether	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Bis(2-chloroethoxy)methane	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Bis(2-chloroisopropyl)ether	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Bis(2-ethylhexyl)phthalate	ug/L	<100	100	<2.0	2.0	<20	<20	20	7679989
4-Bromophenyl phenyl ether	ug/L	<15	15	<0.30	0.30	<3.0	<3.0	3.0	7679989
p-Chloroaniline	ug/L	<50	50	<1.0	1.0	<10	<10	10	7679989
4-Chlorophenyl phenyl ether	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Di-N-butyl phthalate	ug/L	<100	100	<2.0	2.0	<20	<20	20	7679989
di-n-octyl phthalate	ug/L	<40	40	<0.80	0.80	<8.0	<8.0	8.0	7679989
2,4-Dinitrotoluene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Diethyl phthalate	ug/L	<50	50	<1.0	1.0	<10	<10	10	7679989
3,3'-Dichlorobenzidine	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RCB600		RCB603		RCB604	RCB605		
Sampling Date		2021/10/28		2021/10/28		2021/10/28	2021/10/28		
COC Number		847927-11-01		847927-11-01		847927-11-01	847927-11-01		
	UNITS	58-I	RDL	72-I	RDL	72-II	72-III	RDL	QC Batch
Dimethyl phthalate	ug/L	<50	50	<1.0	1.0	<10	<10	10	7679989
2,6-Dinitrotoluene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Diphenyl Ether	ug/L	<15	15	<0.30	0.30	<3.0	<3.0	3.0	7679989
Hexachlorobutadiene	ug/L	<20	20	<0.40	0.40	<4.0	<4.0	4.0	7679989
Hexachlorocyclopentadiene	ug/L	<100	100	<2.0	2.0	<20	<20	20	7679989
Hexachloroethane	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Isophorone	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Nitrobenzene	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Nitrosodiphenylamine/Diphenylamine	ug/L	<50	50	<1.0	1.0	<10	<10	10	7679989
N-Nitroso-di-n-propylamine	ug/L	<25	25	<0.50	0.50	<5.0	<5.0	5.0	7679989
Surrogate Recovery (%)									
2,4,6-Tribromophenol	%	81		87		89	72		7679989
2-Fluorobiphenyl	%	59		63		66	68		7679989
2-Fluorophenol	%	31		56		39	41		7679989
D14-Terphenyl	%	96		106		109	100		7679989
D5-Nitrobenzene	%	59		79		72	75		7679989
D5-Phenol	%	26		48		24	25		7679989
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RCB600		RCB603	RCB603	RCB604	RCB605		
Sampling Date		2021/10/28		2021/10/28	2021/10/28	2021/10/28	2021/10/28		
COC Number		847927-11-01		847927-11-01	847927-11-01	847927-11-01	847927-11-01		
	UNITS	58-I	RDL	72-I	72-I Lab-Dup	72-II	72-III	RDL	QC Batch

Volatile Organics									
Acetone (2-Propanone)	ug/L	<1000	1000	<500	<500	<500	<500	500	7673408
Benzene	ug/L	17	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Bromodichloromethane	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Acrolein	ug/L	<1000	1000	<500	<500	<500	<500	500	7672651
Bromoform	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Bromomethane	ug/L	<50	50	<25	<25	<25	<25	25	7673408
Carbon Tetrachloride	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Chlorobenzene	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Chloroethane	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Chloroform	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Acrylonitrile	ug/L	<500	500	<250	<250	<250	<250	250	7672651
Chloromethane	ug/L	<50	50	<25	<25	<25	<25	25	7673408
Dibromochloromethane	ug/L	<20	20	<10	<10	<10	<10	10	7673408
1,2-Dichlorobenzene	ug/L	<20	20	<10	<10	<10	<10	10	7673408
1,3-Dichlorobenzene	ug/L	<20	20	<10	<10	<10	<10	10	7673408
1,4-Dichlorobenzene	ug/L	<20	20	<10	<10	<10	<10	10	7673408
1,1-Dichloroethane	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
1,2-Dichloroethane	ug/L	<20	20	<10	<10	<10	<10	10	7673408
1,1-Dichloroethylene	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
cis-1,2-Dichloroethylene	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
trans-1,2-Dichloroethylene	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
1,2-Dichloropropane	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
cis-1,3-Dichloropropene	ug/L	<20	20	<10	<10	<10	<10	10	7673408
trans-1,3-Dichloropropene	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Ethylbenzene	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Ethylene Dibromide	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Methylene Chloride(Dichloromethane)	ug/L	<50	50	<25	<25	<25	<25	25	7673408
Methyl Ethyl Ketone (2-Butanone)	ug/L	<500	500	<250	<250	<250	<250	250	7673408
Methyl Isobutyl Ketone	ug/L	<500	500	<250	<250	<250	<250	250	7673408
Methyl t-butyl ether (MTBE)	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Styrene	ug/L	<20	20	<10	<10	<10	<10	10	7673408
1,1,1,2-Tetrachloroethane	ug/L	<20	20	<10	<10	<10	<10	10	7673408
1,1,2,2-Tetrachloroethane	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Tetrachloroethylene	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Toluene	ug/L	29	20	<10	<10	<10	<10	10	7673408

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RCB600		RCB603	RCB603	RCB604	RCB605		
Sampling Date		2021/10/28		2021/10/28	2021/10/28	2021/10/28	2021/10/28		
COC Number		847927-11-01		847927-11-01	847927-11-01	847927-11-01	847927-11-01		
	UNITS	58-I	RDL	72-I	72-I Lab-Dup	72-II	72-III	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
1,1,2-Trichloroethane	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Trichloroethylene	ug/L	<10	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Trichlorofluoromethane (FREON 11)	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Vinyl Chloride	ug/L	<20	20	<10	<10	<10	<10	10	7673408
p+m-Xylene	ug/L	27	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Methyl Butyl Ketone (2-Hexanone)	ug/L	<500	500	<250	<250	<250	<250	250	7672651
o-Xylene	ug/L	18	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Total Xylenes	ug/L	45	10	<5.0	<5.0	<5.0	<5.0	5.0	7673408
Total Trihalomethanes	ug/L	<20	20	<10	<10	<10	<10	10	7673408
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	105		104	101	97	96		7673408
D4-1,2-Dichloroethane	%	105		103	105	106	108		7673408
D8-Toluene	%	97		97	97	98	97		7673408
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RCB600		RCB603	RCB604	RCB605		
Sampling Date		2021/10/28		2021/10/28	2021/10/28	2021/10/28		
COC Number		847927-11-01		847927-11-01	847927-11-01	847927-11-01		
	UNITS	58-I	RDL	72-I	72-II	72-III	RDL	QC Batch
Calculated Parameters								
Chlordane (Total)	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7671083
o,p-DDD + p,p-DDD	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7671083
o,p-DDE + p,p-DDE	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7671083
o,p-DDT + p,p-DDT	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7671083
Total Endosulfan	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7671083
Total PCB	ug/L	<1	1	<0.05	<0.05	<0.05	0.05	7671083
Pesticides & Herbicides								
Aldrin	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Dieldrin	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
a-Chlordane	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
g-Chlordane	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
o,p-DDD	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
p,p-DDD	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
o,p-DDE	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
p,p-DDE	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
o,p-DDT	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
p,p-DDT	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Lindane	ug/L	<0.03	0.03	<0.003	<0.003	<0.003	0.003	7676574
Endosulfan I (alpha)	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Endosulfan II (beta)	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Endrin	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Heptachlor	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Heptachlor epoxide	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Hexachlorobenzene	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Hexachlorobutadiene	ug/L	<0.09	0.09	<0.009	<0.009	<0.009	0.009	7676574
Hexachloroethane	ug/L	<0.1	0.1	<0.01	<0.01	<0.01	0.01	7676574
Methoxychlor	ug/L	<0.1	0.1	<0.01	<0.01	<0.01	0.01	7676574
Aroclor 1242	ug/L	<1	1	<0.05	<0.05	<0.05	0.05	7676574
Aroclor 1248	ug/L	<1	1	<0.05	<0.05	<0.05	0.05	7676574
Aroclor 1254	ug/L	<1	1	<0.05	<0.05	<0.05	0.05	7676574
Aroclor 1260	ug/L	<1	1	<0.05	<0.05	<0.05	0.05	7676574
alpha-BHC	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
beta-BHC	ug/L	<0.07	0.07	<0.005	<0.005	<0.005	0.005	7676574
Endrin aldehyde	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Endrin ketone	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
Mirex	ug/L	<0.05	0.05	<0.005	<0.005	<0.005	0.005	7676574
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RCB600		RCB603	RCB604	RCB605		
Sampling Date		2021/10/28		2021/10/28	2021/10/28	2021/10/28		
COC Number		847927-11-01		847927-11-01	847927-11-01	847927-11-01		
	UNITS	58-I	RDL	72-I	72-II	72-III	RDL	QC Batch
Toxaphene	ug/L	<2	2	<0.2	<0.2	<0.2	0.2	7676574
Surrogate Recovery (%)								
2,4,5,6-Tetrachloro-m-xylene	%	101		59	74	69		7676574
Decachlorobiphenyl	%	114		81	119	104		7676574
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB600
Sample ID: 58-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7671012	2021/10/30	2021/11/04	Surleen Kaur Romana
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7675902	N/A	2021/11/03	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7676574	2021/11/02	2021/11/06	Li Peng
OC Pesticides Summed Parameters	CALC	7671083	N/A	2021/11/02	Automated Statchk
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677993	2021/11/03	2021/11/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7673408	N/A	2021/11/02	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7672651	N/A	2021/11/02	Gladys Guerrero

Bureau Veritas ID: RCB601
Sample ID: P8-II
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB601 Dup
Sample ID: P8-II
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall

Bureau Veritas ID: RCB602
Sample ID: G27
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7671555	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677536	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/04	Julianna Castiglione

Bureau Veritas ID: RCB602 Dup
Sample ID: G27
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai

Bureau Veritas ID: RCB603
Sample ID: 72-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/02	2021/11/05	Anh Lieu
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB603
Sample ID: 72-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/05	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7676574	2021/11/02	2021/11/05	Li Peng
OC Pesticides Summed Parameters	CALC	7671083	N/A	2021/11/03	Automated Statchk
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676511	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7671555	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7678649	2021/11/03	2021/11/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/03	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7673408	N/A	2021/11/02	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7672651	N/A	2021/11/02	Gladys Guerrero

Bureau Veritas ID: RCB603 Dup
Sample ID: 72-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/03	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7673408	N/A	2021/11/02	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7672651	N/A	2021/11/02	Gladys Guerrero

Bureau Veritas ID: RCB604
Sample ID: 72-II
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7675902	N/A	2021/11/03	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7676574	2021/11/02	2021/11/06	Li Peng
OC Pesticides Summed Parameters	CALC	7671083	N/A	2021/11/03	Automated Statchk
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677993	2021/11/03	2021/11/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/04	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7673408	N/A	2021/11/02	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7672651	N/A	2021/11/02	Gladys Guerrero



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB604 Dup
Sample ID: 72-II
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru

Bureau Veritas ID: RCB605
Sample ID: 72-III
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7676574	2021/11/02	2021/11/06	Li Peng
OC Pesticides Summed Parameters	CALC	7671083	N/A	2021/11/02	Automated Statchk
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/03	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7673408	N/A	2021/11/02	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7672651	N/A	2021/11/02	Gladys Guerrero

Bureau Veritas ID: RCB606
Sample ID: 77-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/08	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/05	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676511	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677993	2021/11/03	2021/11/05	Massarat Jan



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB606
Sample ID: 77-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione

Bureau Veritas ID: RCB606 Dup
Sample ID: 77-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7676511	N/A	2021/11/03	Avneet Kour Sudan

Bureau Veritas ID: RCB607
Sample ID: 77-II
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/05	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677536	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/04	Julianna Castiglione

Bureau Veritas ID: RCB607 Dup
Sample ID: 77-II
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/05	Chandra Nandlal

Bureau Veritas ID: RCB608
Sample ID: 77-III
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB608
Sample ID: 77-III
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676511	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/03	Julianna Castiglione

Bureau Veritas ID: RCB609
Sample ID: P7-IR
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676511	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7671555	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione

Bureau Veritas ID: RCB624
Sample ID: P7-II
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB624
Sample ID: P7-II
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7676511	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione

Bureau Veritas ID: RCB625
Sample ID: P7-III
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7671555	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione

Bureau Veritas ID: RCB626
Sample ID: P7-IV
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677993	2021/11/03	2021/11/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB626 Dup
Sample ID: P7-IV
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione

Bureau Veritas ID: RCB627
Sample ID: P5-IR
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7671555	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/04	Julianna Castiglione

Bureau Veritas ID: RCB628
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB629
Sample ID: P5-IIIR
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7671555	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione

Bureau Veritas ID: RCB630
Sample ID: P5-IVR
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7678872	N/A	2021/11/04	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/04	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7675625	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7677494	N/A	2021/11/04	Julianna Castiglione

Bureau Veritas ID: RCB630 Dup
Sample ID: P5-IVR
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7678872	N/A	2021/11/04	Viorica Rotaru
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB631
Sample ID: 12-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7676504	N/A	2021/11/05	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676511	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7671555	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677993	2021/11/03	2021/11/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione

Bureau Veritas ID: RCB631 Dup
Sample ID: 12-I
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7677993	2021/11/03	2021/11/04	Massarat Jan

Bureau Veritas ID: RCB632
Sample ID: 2-III
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7676365	N/A	2021/11/03	Surinder Rai
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7676370	N/A	2021/11/03	Surinder Rai
Fluoride	ISE	7676362	2021/11/02	2021/11/03	Surinder Rai
Hardness (calculated as CaCO3)		7671054	N/A	2021/11/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7672406	N/A	2021/11/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7677766	N/A	2021/11/05	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7675902	N/A	2021/11/03	Chandra Nandlal
pH	AT	7676376	2021/11/02	2021/11/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7672946	N/A	2021/11/02	Deonarine Ramnarine
Orthophosphate	KONE	7676348	N/A	2021/11/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7671555	2021/11/02	2021/11/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7677989	2021/11/03	2021/11/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7678115	N/A	2021/11/03	Julianna Castiglione



**BUREAU
VERITAS**

Bureau Veritas Job #: C1V8652
Report Date: 2021/11/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RCB632 Dup
Sample ID: 2-III
Matrix: Water

Collected: 2021/10/28
Shipped:
Received: 2021/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7676356	N/A	2021/11/04	Fari Dehdezi



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
Package 2	2.3°C
Package 3	5.3°C
Package 4	4.7°C
Package 5	2.3°C
Package 6	2.3°C

VOC Water Analysis: Due to foaming, samples required dilution. The detection limits were adjusted accordingly.

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RCB600 [58-I] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction and a further dilution was required. Detection limits were adjusted accordingly.

OC Pesticide Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RCB603 [72-I] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RCB604 [72-II] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Sample RCB605 [72-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Sample RCB606 [77-I] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RCB607 [77-II] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RCB609 [P7-IR] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RCB627 [P5-IR] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RCB631 [12-I] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RCB632 [2-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652

Report Date: 2021/11/09

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7673408	4-Bromofluorobenzene	2021/11/02	101	70 - 130	105	70 - 130	100	%				
7673408	D4-1,2-Dichloroethane	2021/11/02	102	70 - 130	105	70 - 130	102	%				
7673408	D8-Toluene	2021/11/02	99	70 - 130	98	70 - 130	97	%				
7676574	2,4,5,6-Tetrachloro-m-xylene	2021/11/04	90	50 - 130	80	50 - 130	79	%				
7676574	Decachlorobiphenyl	2021/11/04	116	50 - 130	100	50 - 130	101	%				
7679989	2,4,6-Tribromophenol	2021/11/04	88	10 - 130	88	10 - 130	74	%				
7679989	2-Fluorobiphenyl	2021/11/04	66	30 - 130	60	30 - 130	71	%				
7679989	2-Fluorophenol	2021/11/04	42	10 - 130	45	10 - 130	42	%				
7679989	D14-Terphenyl	2021/11/04	94	30 - 130	97	30 - 130	94	%				
7679989	D5-Nitrobenzene	2021/11/04	86	30 - 130	87	30 - 130	87	%				
7679989	D5-Phenol	2021/11/04	28	10 - 130	30	10 - 130	27	%				
7671012	Total BOD	2021/11/04					<2	mg/L	3.6	30	95	80 - 120
7671555	Total Dissolved Solids	2021/11/03					<10	mg/L	2.8	25	97	90 - 110
7672406	Dissolved Aluminum (Al)	2021/11/06	98	80 - 120	102	80 - 120	<4.9	ug/L	NC	20		
7672406	Dissolved Antimony (Sb)	2021/11/06	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7672406	Dissolved Arsenic (As)	2021/11/06	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7672406	Dissolved Barium (Ba)	2021/11/06	97	80 - 120	99	80 - 120	<2.0	ug/L	2.5	20		
7672406	Dissolved Beryllium (Be)	2021/11/06	100	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
7672406	Dissolved Bismuth (Bi)	2021/11/06	100	80 - 120	99	80 - 120	<1.0	ug/L				
7672406	Dissolved Boron (B)	2021/11/06	99	80 - 120	100	80 - 120	<10	ug/L	1.0	20		
7672406	Dissolved Cadmium (Cd)	2021/11/06	100	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7672406	Dissolved Calcium (Ca)	2021/11/06	NC	80 - 120	97	80 - 120	<200	ug/L	3.5	20		
7672406	Dissolved Chromium (Cr)	2021/11/06	95	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7672406	Dissolved Cobalt (Co)	2021/11/06	100	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7672406	Dissolved Copper (Cu)	2021/11/06	93	80 - 120	95	80 - 120	<0.90	ug/L	2.9	20		
7672406	Dissolved Iron (Fe)	2021/11/06	101	80 - 120	100	80 - 120	<100	ug/L	NC	20		
7672406	Dissolved Lead (Pb)	2021/11/06	96	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7672406	Dissolved Lithium (Li)	2021/11/06	101	80 - 120	101	80 - 120	<5.0	ug/L				
7672406	Dissolved Magnesium (Mg)	2021/11/06	97	80 - 120	101	80 - 120	<50	ug/L	4.0	20		
7672406	Dissolved Manganese (Mn)	2021/11/06	99	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
7672406	Dissolved Molybdenum (Mo)	2021/11/06	98	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7672406	Dissolved Nickel (Ni)	2021/11/06	94	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7672406	Dissolved Phosphorus (P)	2021/11/06	102	80 - 120	110	80 - 120	<100	ug/L	NC	20		
7672406	Dissolved Potassium (K)	2021/11/06	100	80 - 120	101	80 - 120	<200	ug/L	1.7	20		
7672406	Dissolved Selenium (Se)	2021/11/06	97	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7672406	Dissolved Silicon (Si)	2021/11/06	99	80 - 120	100	80 - 120	<50	ug/L	2.8	20		
7672406	Dissolved Silver (Ag)	2021/11/06	92	80 - 120	90	80 - 120	<0.090	ug/L	NC	20		
7672406	Dissolved Sodium (Na)	2021/11/06	NC	80 - 120	99	80 - 120	120, RDL=100	ug/L	1.9	20		
7672406	Dissolved Strontium (Sr)	2021/11/06	97	80 - 120	97	80 - 120	<1.0	ug/L	1.7	20		
7672406	Dissolved Tellurium (Te)	2021/11/06	103	80 - 120	100	80 - 120	<1.0	ug/L				
7672406	Dissolved Thallium (Tl)	2021/11/06	98	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
7672406	Dissolved Tin (Sn)	2021/11/06	103	80 - 120	100	80 - 120	<1.0	ug/L				
7672406	Dissolved Titanium (Ti)	2021/11/06	97	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7672406	Dissolved Tungsten (W)	2021/11/06	97	80 - 120	97	80 - 120	<1.0	ug/L				
7672406	Dissolved Uranium (U)	2021/11/06	102	80 - 120	100	80 - 120	<0.10	ug/L	1.5	20		
7672406	Dissolved Vanadium (V)	2021/11/06	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7672406	Dissolved Zinc (Zn)	2021/11/06	98	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7672406	Dissolved Zirconium (Zr)	2021/11/06	105	80 - 120	101	80 - 120	<1.0	ug/L				
7672651	Acrolein	2021/11/02	92	60 - 140	97	60 - 140	<10	ug/L	NC	30		
7672651	Acrylonitrile	2021/11/02	93	60 - 140	100	60 - 140	<5.0	ug/L	NC	30		
7672651	Methyl Butyl Ketone (2-Hexanone)	2021/11/02	123	60 - 140	120	60 - 140	<5.0	ug/L	NC	30		
7672946	Phenols-4AAP	2021/11/02	NC	80 - 120	99	80 - 120	<0.0010	mg/L	0.72	20		
7673408	1,1,1,2-Tetrachloroethane	2021/11/02	108	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7673408	1,1,1-Trichloroethane	2021/11/02	110	70 - 130	108	70 - 130	<0.10	ug/L	NC	30		
7673408	1,1,2,2-Tetrachloroethane	2021/11/02	95	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7673408	1,1,2-Trichloroethane	2021/11/02	102	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7673408	1,1-Dichloroethane	2021/11/02	97	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7673408	1,1-Dichloroethylene	2021/11/02	104	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7673408	1,2-Dichlorobenzene	2021/11/02	96	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7673408	1,2-Dichloroethane	2021/11/02	97	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7673408	1,2-Dichloropropane	2021/11/02	99	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7673408	1,3-Dichlorobenzene	2021/11/02	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7673408	1,4-Dichlorobenzene	2021/11/02	111	70 - 130	111	70 - 130	<0.20	ug/L	NC	30		
7673408	Acetone (2-Propanone)	2021/11/02	109	60 - 140	105	60 - 140	<10	ug/L	NC	30		
7673408	Benzene	2021/11/02	97	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7673408	Bromodichloromethane	2021/11/02	108	70 - 130	110	70 - 130	<0.10	ug/L	NC	30		
7673408	Bromoform	2021/11/02	114	70 - 130	117	70 - 130	<0.20	ug/L	NC	30		
7673408	Bromomethane	2021/11/02	87	60 - 140	95	60 - 140	<0.50	ug/L	NC	30		
7673408	Carbon Tetrachloride	2021/11/02	111	70 - 130	111	70 - 130	<0.10	ug/L	NC	30		
7673408	Chlorobenzene	2021/11/02	99	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7673408	Chloroethane	2021/11/02	111	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
7673408	Chloroform	2021/11/02	101	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7673408	Chloromethane	2021/11/02	92	60 - 140	87	60 - 140	<0.50	ug/L	NC	30		
7673408	cis-1,2-Dichloroethylene	2021/11/02	104	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7673408	cis-1,3-Dichloropropene	2021/11/02	104	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7673408	Dibromochloromethane	2021/11/02	109	70 - 130	109	70 - 130	<0.20	ug/L	NC	30		
7673408	Ethylbenzene	2021/11/02	98	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7673408	Ethylene Dibromide	2021/11/02	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7673408	Methyl Ethyl Ketone (2-Butanone)	2021/11/02	106	60 - 140	105	60 - 140	<5.0	ug/L	NC	30		
7673408	Methyl Isobutyl Ketone	2021/11/02	114	70 - 130	111	70 - 130	<5.0	ug/L	NC	30		
7673408	Methyl t-butyl ether (MTBE)	2021/11/02	104	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7673408	Methylene Chloride(Dichloromethane)	2021/11/02	100	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
7673408	o-Xylene	2021/11/02	99	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7673408	p+m-Xylene	2021/11/02	104	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7673408	Styrene	2021/11/02	108	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7673408	Tetrachloroethylene	2021/11/02	97	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7673408	Toluene	2021/11/02	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7673408	Total Trihalomethanes	2021/11/02					<0.20	ug/L	NC	30		
7673408	Total Xylenes	2021/11/02					<0.10	ug/L	NC	30		
7673408	trans-1,2-Dichloroethylene	2021/11/02	103	70 - 130	103	70 - 130	<0.10	ug/L	NC	30		
7673408	trans-1,3-Dichloropropene	2021/11/02	109	70 - 130	110	70 - 130	<0.20	ug/L	NC	30		
7673408	Trichloroethylene	2021/11/02	106	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7673408	Trichlorofluoromethane (FREON 11)	2021/11/02	106	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		



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7673408	Vinyl Chloride	2021/11/02	103	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7675625	Total Dissolved Solids	2021/11/03					<10	mg/L	3.0	25	95	90 - 110
7675902	Nitrate (N)	2021/11/03	104	80 - 120	102	80 - 120	<0.10	mg/L	0.16	20		
7675902	Nitrite (N)	2021/11/03	104	80 - 120	105	80 - 120	<0.010	mg/L	3.3	20		
7676348	Orthophosphate (P)	2021/11/03	111	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7676356	Dissolved Bromide (Br-)	2021/11/04	101	80 - 120	103	80 - 120	<1.0	mg/L	0.85	20		
7676356	Dissolved Chloride (Cl-)	2021/11/04	NC	80 - 120	98	70 - 130	<1.0	mg/L	1.5	20		
7676356	Dissolved Sulphate (SO4)	2021/11/04	NC	80 - 120	99	80 - 120	<1.0	mg/L	1.0	20		
7676362	Fluoride (F-)	2021/11/03	102	80 - 120	102	80 - 120	<0.10	mg/L	0.51	20		
7676365	Alkalinity (Total as CaCO3)	2021/11/03			97	85 - 115	<1.0	mg/L	0.45	20		
7676370	Conductivity	2021/11/03			101	85 - 115	<1.0	umho/cm	0	25		
7676376	pH	2021/11/03			102	98 - 103			0.57	N/A		
7676504	Nitrate (N)	2021/11/05	91	80 - 120	104	80 - 120	<0.10	mg/L	NC	20		
7676504	Nitrite (N)	2021/11/05	109	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7676511	Orthophosphate (P)	2021/11/03	112	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7676574	a-Chlordane	2021/11/04	99	50 - 130	95	50 - 130	<0.005	ug/L	NC	30		
7676574	Aldrin	2021/11/04	93	50 - 130	81	50 - 130	<0.005	ug/L	NC	30		
7676574	alpha-BHC	2021/11/04	101	30 - 130	99	30 - 130	<0.005	ug/L	NC	40		
7676574	Aroclor 1242	2021/11/04					<0.05	ug/L				
7676574	Aroclor 1248	2021/11/04					<0.05	ug/L				
7676574	Aroclor 1254	2021/11/04					<0.05	ug/L				
7676574	Aroclor 1260	2021/11/04					<0.05	ug/L				
7676574	beta-BHC	2021/11/04	91	30 - 130	93	30 - 130	<0.005	ug/L	NC	40		
7676574	Dieldrin	2021/11/04	115	50 - 130	110	50 - 130	<0.005	ug/L	NC	30		
7676574	Endosulfan I (alpha)	2021/11/04	95	50 - 130	94	50 - 130	<0.005	ug/L	NC	30		
7676574	Endosulfan II (beta)	2021/11/04	98	50 - 130	90	50 - 130	<0.005	ug/L	NC	30		
7676574	Endrin aldehyde	2021/11/04	84	30 - 130	86	30 - 130	<0.005	ug/L	NC	40		
7676574	Endrin ketone	2021/11/04	105	30 - 130	93	30 - 130	<0.005	ug/L	NC	40		
7676574	Endrin	2021/11/04	106	50 - 130	102	50 - 130	<0.005	ug/L	NC	30		
7676574	g-Chlordane	2021/11/04	101	50 - 130	97	50 - 130	<0.005	ug/L	NC	30		



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7676574	Heptachlor epoxide	2021/11/04	101	50 - 130	97	50 - 130	<0.005	ug/L	NC	30		
7676574	Heptachlor	2021/11/04	93	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7676574	Hexachlorobenzene	2021/11/04	93	50 - 130	90	50 - 130	<0.005	ug/L	NC	30		
7676574	Hexachlorobutadiene	2021/11/04	97	50 - 130	80	50 - 130	<0.009	ug/L	11	30		
7676574	Hexachloroethane	2021/11/04	83	50 - 130	69	50 - 130	<0.01	ug/L	8.0	30		
7676574	Lindane	2021/11/04	115	50 - 130	114	50 - 130	<0.003	ug/L	NC	30		
7676574	Methoxychlor	2021/11/04	122	50 - 130	110	50 - 130	<0.01	ug/L	NC	30		
7676574	Mirex	2021/11/04	109	30 - 130	94	30 - 130	<0.005	ug/L	NC	40		
7676574	o,p-DDD	2021/11/04	122	50 - 130	113	50 - 130	<0.005	ug/L	NC	30		
7676574	o,p-DDE	2021/11/04	118	50 - 130	112	50 - 130	<0.005	ug/L	NC	30		
7676574	o,p-DDT	2021/11/04	104	50 - 130	99	50 - 130	<0.005	ug/L	NC	30		
7676574	p,p-DDD	2021/11/04	115	50 - 130	107	50 - 130	<0.005	ug/L	NC	30		
7676574	p,p-DDE	2021/11/04	97	50 - 130	95	50 - 130	<0.005	ug/L	NC	30		
7676574	p,p-DDT	2021/11/04	91	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7676574	Toxaphene	2021/11/04					<0.2	ug/L	NC	40		
7677494	Total Organic Carbon (TOC)	2021/11/03	92	80 - 120	95	80 - 120	<0.40	mg/L	5.3	20		
7677536	Total Kjeldahl Nitrogen (TKN)	2021/11/03	102	80 - 120	100	80 - 120	<0.10	mg/L	NC	20	104	80 - 120
7677766	Total Ammonia-N	2021/11/05	NC	75 - 125	98	80 - 120	<0.050	mg/L	1.4	20		
7677989	Total Kjeldahl Nitrogen (TKN)	2021/11/03	105	80 - 120	99	80 - 120	<0.10	mg/L	12	20	98	80 - 120
7677993	Total Kjeldahl Nitrogen (TKN)	2021/11/04	NC	80 - 120	103	80 - 120	<0.10	mg/L	2.9	20	101	80 - 120
7678115	Total Organic Carbon (TOC)	2021/11/03	NC	80 - 120	98	80 - 120	<0.40	mg/L	0.86	20		
7678649	Total Kjeldahl Nitrogen (TKN)	2021/11/04	104	80 - 120	100	80 - 120	<0.10	mg/L	9.5	20	99	80 - 120
7678872	Total Ammonia-N	2021/11/04	94	75 - 125	97	80 - 120	<0.050	mg/L	19	20		
7679989	1,2,3,4-Tetrachlorobenzene	2021/11/04	59	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,3,5-Tetrachlorobenzene	2021/11/04	60	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,3-Trichlorobenzene	2021/11/04	58	30 - 130	54	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,4,5-Tetrachlorobenzene	2021/11/04	59	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,4-Trichlorobenzene	2021/11/04	56	30 - 130	51	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2-Dichlorobenzene	2021/11/04	61	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7679989	1,3,5-Trichlorobenzene	2021/11/04	68	30 - 130	65	30 - 130	<0.50	ug/L	NC	40		
7679989	1,3-Dichlorobenzene	2021/11/04	57	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		



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7679989	1,4-Dichlorobenzene	2021/11/04	60	30 - 130	57	30 - 130	<0.50	ug/L	NC	40		
7679989	1-Chloronaphthalene	2021/11/04	62	30 - 130	57	30 - 130	<1.0	ug/L	NC	40		
7679989	1-Methylnaphthalene	2021/11/04	73	30 - 130	67	30 - 130	<0.20	ug/L	NC	40		
7679989	2,3,4,5-Tetrachlorophenol	2021/11/04	83	10 - 130	83	10 - 130	<0.40	ug/L	NC	40		
7679989	2,3,4,6-Tetrachlorophenol	2021/11/04	97	10 - 130	101	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,4-Trichlorophenol	2021/11/04	83	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,5,6-Tetrachlorophenol	2021/11/04	82	10 - 130	83	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,5-Trichlorophenol	2021/11/04	91	10 - 130	95	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,6-Trichlorophenol	2021/11/04	84	10 - 130	86	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3-Dichlorophenol	2021/11/04	76	10 - 130	75	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4,5-Trichlorophenol	2021/11/04	92	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4,6-Trichlorophenol	2021/11/04	89	10 - 130	93	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4-Dichlorophenol	2021/11/04	81	10 - 130	81	10 - 130	<0.30	ug/L	NC	40		
7679989	2,4-Dimethylphenol	2021/11/04	49	10 - 130	54	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4-Dinitrophenol	2021/11/04	80	10 - 130	84	10 - 130	<2.0	ug/L	NC	40		
7679989	2,4-Dinitrotoluene	2021/11/04	100	30 - 130	102	30 - 130	<0.50	ug/L	NC	40		
7679989	2,5-Dichlorophenol	2021/11/04	79	10 - 130	81	10 - 130	<0.50	ug/L	NC	40		
7679989	2,6-Dichlorophenol	2021/11/04	77	10 - 130	78	10 - 130	<0.50	ug/L	NC	40		
7679989	2,6-Dinitrotoluene	2021/11/04	90	30 - 130	93	30 - 130	<0.50	ug/L	NC	40		
7679989	2-Chloronaphthalene	2021/11/04	75	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		
7679989	2-Chlorophenol	2021/11/04	77	10 - 130	78	10 - 130	<0.30	ug/L	NC	40		
7679989	2-Methylnaphthalene	2021/11/04	69	30 - 130	65	30 - 130	<0.20	ug/L	NC	40		
7679989	2-Nitrophenol	2021/11/04	86	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7679989	3,3'-Dichlorobenzidine	2021/11/04	87	30 - 130	90	30 - 130	<0.50	ug/L	NC	40		
7679989	3,4,5-Trichlorophenol	2021/11/04	88	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7679989	3,4-Dichlorophenol	2021/11/04	95	10 - 130	99	10 - 130	<0.50	ug/L	NC	40		
7679989	3,5-Dichlorophenol	2021/11/04	101	10 - 130	102	10 - 130	<0.50	ug/L	NC	40		
7679989	4,6-Dinitro-2-methylphenol	2021/11/04	114	10 - 130	120	10 - 130	<2.0	ug/L	NC	40		
7679989	4-Bromophenyl phenyl ether	2021/11/04	81	30 - 130	77	30 - 130	<0.30	ug/L	NC	40		
7679989	4-Chloro-3-Methylphenol	2021/11/04	76	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7679989	4-Chlorophenyl phenyl ether	2021/11/04	77	30 - 130	73	30 - 130	<0.50	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679989	4-Nitrophenol	2021/11/04	20	10 - 130	21	10 - 130	<1.4	ug/L	NC	40		
7679989	5-Nitroacenaphthene	2021/11/04	100	30 - 130	102	30 - 130	<1.0	ug/L				
7679989	Acenaphthene	2021/11/04	87	30 - 130	82	30 - 130	<0.20	ug/L	NC	40		
7679989	Acenaphthylene	2021/11/04	85	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7679989	Anthracene	2021/11/04	90	30 - 130	90	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(a)anthracene	2021/11/04	100	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(a)pyrene	2021/11/04	105	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(b,j)fluoranthene	2021/11/04	99	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(g,h,i)perylene	2021/11/04	100	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(k)fluoranthene	2021/11/04	104	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzyl butyl phthalate	2021/11/04	98	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7679989	Biphenyl	2021/11/04	77	30 - 130	72	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroethoxy)methane	2021/11/04	75	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroethyl)ether	2021/11/04	85	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroisopropyl)ether	2021/11/04	78	30 - 130	76	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-ethylhexyl)phthalate	2021/11/04	97	30 - 130	95	30 - 130	<2.0	ug/L	NC	40		
7679989	Chrysene	2021/11/04	97	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7679989	Dibenzo(a,h)anthracene	2021/11/04	108	30 - 130	108	30 - 130	<0.20	ug/L	NC	40		
7679989	Diethyl phthalate	2021/11/04	88	30 - 130	92	30 - 130	<1.0	ug/L	NC	40		
7679989	Dimethyl phthalate	2021/11/04	90	30 - 130	93	30 - 130	<1.0	ug/L	NC	40		
7679989	Di-N-butyl phthalate	2021/11/04	100	30 - 130	99	30 - 130	<2.0	ug/L	NC	40		
7679989	di-n-octyl phthalate	2021/11/04	106	30 - 130	106	30 - 130	<0.80	ug/L	NC	40		
7679989	Diphenyl Ether	2021/11/04	77	30 - 130	71	30 - 130	<0.30	ug/L	NC	40		
7679989	Fluoranthene	2021/11/04	95	30 - 130	96	30 - 130	<0.20	ug/L	NC	40		
7679989	Fluorene	2021/11/04	92	30 - 130	89	30 - 130	<0.20	ug/L	NC	40		
7679989	Hexachlorobenzene	2021/11/04	84	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7679989	Hexachlorobutadiene	2021/11/04	55	30 - 130	52	30 - 130	<0.40	ug/L	NC	40		
7679989	Hexachlorocyclopentadiene	2021/11/04	61	30 - 130	57	30 - 130	<2.0	ug/L	NC	40		
7679989	Hexachloroethane	2021/11/04	61	30 - 130	51	30 - 130	<0.50	ug/L	NC	40		
7679989	Indeno(1,2,3-cd)pyrene	2021/11/04	104	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7679989	Isophorone	2021/11/04	86	30 - 130	87	30 - 130	<0.50	ug/L	NC	40		



BUREAU
VERITAS

Bureau Veritas Job #: C1V8652

Report Date: 2021/11/09

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679989	m/p-Cresol	2021/11/04	60	10 - 130	63	10 - 130	<0.50	ug/L	NC	40		
7679989	Naphthalene	2021/11/04	68	30 - 130	65	30 - 130	<0.20	ug/L	NC	40		
7679989	Nitrobenzene	2021/11/04	81	30 - 130	78	30 - 130	<0.50	ug/L	NC	40		
7679989	Nitrosodiphenylamine/Diphenylamine	2021/11/04	119	30 - 130	120	30 - 130	<1.0	ug/L	NC	40		
7679989	N-Nitroso-di-n-propylamine	2021/11/04	111	30 - 130	112	30 - 130	<0.50	ug/L	NC	40		
7679989	o-Cresol	2021/11/04	69	10 - 130	72	10 - 130	<0.50	ug/L	NC	40		
7679989	p-Chloroaniline	2021/11/04	91	30 - 130	85	30 - 130	<1.0	ug/L	NC	40		
7679989	Pentachlorobenzene	2021/11/04	66	30 - 130	55	30 - 130	<0.50	ug/L	NC	40		
7679989	Pentachlorophenol	2021/11/04	62	10 - 130	66	10 - 130	<1.0	ug/L	NC	40		
7679989	Perylene	2021/11/04	99	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7679989	Phenanthrene	2021/11/04	94	30 - 130	94	30 - 130	<0.20	ug/L	NC	40		
7679989	Phenol	2021/11/04	31	10 - 130	32	10 - 130	<0.50	ug/L	NC	40		
7679989	Pyrene	2021/11/04	108	30 - 130	110	30 - 130	<0.20	ug/L	NC	40		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).



VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

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
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

29-Oct-21 17:54

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INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	Jolanta Goralczyk C1V8652		
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #:	Bottle Order #:		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: GW	847927		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name: DIM ENV 1517	COC #:		
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:	Project Manager: Jolanta Goralczyk		
		Sampled By:	C#B47927-11-01		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					Field Filtered (please circle): Metals / Hg / Cr / V	List 'A' GW Monitoring	List 'B' GW Monitoring	Biochemical Oxygen Demand (BOD)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										# of Bottles	Comments					
Regulation 153 (2011)		Other Regulations		Special Instructions																					
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw																					
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																					
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality																					
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	Reg 405 Table																					
<input type="checkbox"/>			<input type="checkbox"/>	Other																					

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
Dan Taylor		21/10/29	9:00	Jaspruit Sam / Nam		2021/10/29	17:54		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
										Pkt to ACTE	Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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

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.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

Bureau Veritas Canada (2019) Inc.

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Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

Page 2 of 2

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Brad Mullin - GHD Reporting Attention: Address: Tel: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: GW Project: Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: 847927 COC #: Project Manager: Jolanta Goralczyk C#847927-10-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table	Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table <input type="checkbox"/> Other	Special Instructions
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Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle):	Metals / Hg / Cr / VI	List 'A' GW Monitoring	List 'B' GW Monitoring	Biochemical Oxygen Demand (BOD)
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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.

Regular (Standard) TAT

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ (call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	Metals / Hg / Cr / VI	List 'A' GW Monitoring	List 'B' GW Monitoring	Biochemical Oxygen Demand (BOD)	# of Bottles	Comments
1	P7-II			GW			X			6	
2	P7-III			GW			X			6	
3	P7-IV			GW			X			6	
4	P5-IR			GW			X			6	
5	P5-IIR			GW			X			6	
6	P5-IIIR			GW			X			6	
7	P5-IVR			GW			X			6	
8	12-I			GW			X			6	
9	2-III			GW			X			6	
10				GW							

RELINQUISHED BY: (Signature/Print) Dan Taylor	Date: (YY/MM/DD) 21/10/29	Time 9:00	RECEIVED BY: (Signature/Print) See Page 1	Date: (YY/MM/DD) Time # jars used and not submitted	Laboratory Use Only Time Sensitive Temperature (°C) on Recept: _____ Intact		Custody Seal Present Intact	Yes No
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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client