



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. #: 834487-01-01, 834487-02-01, 834487-03-01

Report Date: 2021/08/06
Report #: R6752730
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L1918

Received: 2021/07/28, 15:29

Sample Matrix: Water
Samples Received: 21

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	21	N/A	2021/07/30	CAM SOP-00448	SM 23 2320 B m
Anions	3	N/A	2021/07/30	CAM SOP-00435	SM 23 4110 B m
Anions	18	N/A	2021/08/03	CAM SOP-00435	SM 23 4110 B m
Conductivity	21	N/A	2021/07/30	CAM SOP-00414	SM 23 2510 m
Fluoride	21	2021/07/30	2021/07/30	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	21	N/A	2021/08/05	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	13	N/A	2021/08/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	8	N/A	2021/08/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	21	N/A	2021/08/03	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	3	N/A	2021/07/29	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	18	N/A	2021/08/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	21	2021/07/30	2021/07/30	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	20	N/A	2021/07/29	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/07/30	CAM SOP-00444	OMOE E3179 m
Orthophosphate	3	N/A	2021/07/30	CAM SOP-00461	EPA 365.1 m
Orthophosphate	18	N/A	2021/08/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	21	2021/07/31	2021/08/03	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	8	2021/07/29	2021/07/30	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	13	2021/07/29	2021/08/03	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	3	N/A	2021/07/29	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	18	N/A	2021/07/30	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.



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Encryption Key

Hongmei Zhao (Grace)
Project Manager
06 Aug 2021 10:12:48

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.



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO002			QFO002			QFO003		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-01-01			834487-01-01			834487-01-01		
	UNITS	P9-I	RDL	QC Batch	P9-I Lab-Dup	RDL	QC Batch	P9-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2900	1.0	7487957				640	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	10	0.050	7491223				0.084	0.050	7493234
Conductivity	umho/cm	13000	1.0	7493671				2300	1.0	7493818
Total Dissolved Solids	mg/L	8060	20	7491199				1420	10	7495611
Fluoride (F-)	mg/L	0.89	0.10	7493661				1.0	0.10	7493787
Total Kjeldahl Nitrogen (TKN)	mg/L	11	0.50	7491225				0.42	0.10	7491397
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7491216				2.8	0.40	7491363
Orthophosphate (P)	mg/L	<0.010	0.010	7494261	<0.010	0.010	7494261	<0.010	0.010	7494261
pH	pH	7.61		7493677				7.93		7493792
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955				<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7493675				190	1.0	7493814
Nitrite (N)	mg/L	<0.010	0.010	7494181				<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	3200	20	7494165	3400	20	7494165	360	5.0	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181				0.40	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181				0.40	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<20	20	7494165	<20	20	7494165	<5.0	5.0	7494165
Dissolved Sulphate (SO4)	mg/L	1500	20	7494165	1600	20	7494165	430	5.0	7494165

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



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RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO004			QFO004			QFO005		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-01-01			834487-01-01			834487-01-01		
	UNITS	P9-IIIIR	RDL	QC Batch	P9-IIIIR Lab-Dup	RDL	QC Batch	36-IR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	800	1.0	7487957				2100	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	17	0.050	7491223				10 (1)	0.050	7491223
Conductivity	umho/cm	4000	1.0	7493671				6500	1.0	7493818
Total Dissolved Solids	mg/L	2510	10	7495611	2510	10	7495611	4810	20	7491199
Fluoride (F-)	mg/L	1.9	0.10	7493661				1.1	0.10	7493787
Total Kjeldahl Nitrogen (TKN)	mg/L	18	1.0	7491225				9.5 (1)	1.0	7491225
Total Organic Carbon (TOC)	mg/L	3.4	0.40	7491216				2.7	0.40	7491216
Orthophosphate (P)	mg/L	<0.010	0.010	7494261				<0.010	0.010	7494261
pH	pH	8.12		7493677				7.57		7493792
Phenols-4AAP	mg/L	0.0039	0.0010	7490562				<0.0010	0.0010	7490562
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7493675				220	1.0	7493814
Nitrite (N)	mg/L	<0.010	0.010	7494181				<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	740	10	7494165				1200	10	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<10	10	7494165				<10	10	7494165
Dissolved Sulphate (SO4)	mg/L	800	10	7494165				1700	10	7494165

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO006				QFO007				QFO008		
Sampling Date		2021/07/27				2021/07/27				2021/07/27		
COC Number		834487-01-01				834487-01-01				834487-01-01		
	UNITS	36-IIR	RDL	QC Batch	36-IIIR	RDL	QC Batch	36-IVR	RDL	QC Batch		
Calculated Parameters												
Hardness (CaCO3)	mg/L	5400	1.0	7487957	2000	1.0	7487957	760	1.0	7487957		
Inorganics												
Total Ammonia-N	mg/L	8.6	0.050	7491223	4.0	0.050	7491223	<0.050	0.050	7491223		
Conductivity	umho/cm	21000	1.0	7493671	6500	1.0	7493671	2100	1.0	7493671		
Total Dissolved Solids	mg/L	14000	20	7491199	4980	20	7495611	1310	10	7491199		
Fluoride (F-)	mg/L	0.63	0.10	7493661	1.2	0.10	7493661	1.4	0.10	7493661		
Total Kjeldahl Nitrogen (TKN)	mg/L	8.5	0.50	7491225	4.3	0.20	7491225	0.20	0.10	7491225		
Total Organic Carbon (TOC)	mg/L	2.0	0.40	7491216	1.8	0.40	7491216	1.9	0.40	7491216		
Orthophosphate (P)	mg/L	0.018	0.010	7494261	<0.010	0.010	7494261	<0.010	0.010	7494261		
pH	pH	7.41		7493677	7.80		7493677	7.88		7493677		
Phenols-4AAP	mg/L	<0.0010	0.0010	7490562	<0.0010	0.0010	7490562	<0.0010	0.0010	7490562		
Alkalinity (Total as CaCO3)	mg/L	270	1.0	7493675	240	1.0	7493675	220	1.0	7493675		
Nitrite (N)	mg/L	<0.010	0.010	7494181	<0.010	0.010	7494181	<0.010	0.010	7494181		
Dissolved Chloride (Cl-)	mg/L	6800	50	7494165	1000	10	7494165	240	5.0	7494165		
Nitrate (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7494181	<0.10	0.10	7494181		
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7494181	<0.10	0.10	7494181		
Dissolved Bromide (Br-)	mg/L	67	50	7494165	<10	10	7494165	<5.0	5.0	7494165		
Dissolved Sulphate (SO4)	mg/L	1600	50	7494165	1800	10	7494165	550	5.0	7494165		
RDL = Reportable Detection Limit												
QC Batch = Quality Control Batch												



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RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO008			QFO009			QFO010		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-01-01			834487-01-01			834487-01-01		
	UNITS	36-IVR Lab-Dup	RDL	QC Batch	36-VR	RDL	QC Batch	2-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				550	1.0	7487957	1000	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L				66 (1)	0.25	7493234	2.4	0.050	7491223
Conductivity	umho/cm				6500	1.0	7493671	3100	1.0	7493671
Total Dissolved Solids	mg/L				3330	10	7491199	1860	10	7491199
Fluoride (F-)	mg/L				3.0	0.10	7493661	0.36	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L				61 (1)	5.0	7491397	2.6	0.10	7491225
Total Organic Carbon (TOC)	mg/L				15	0.40	7491363	3.9	0.40	7491216
Orthophosphate (P)	mg/L				<0.010	0.010	7491173	<0.010	0.010	7494261
pH	pH				9.25		7493677	7.58		7493677
Phenols-4AAP	mg/L				0.29	0.010	7490955	<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L				140	1.0	7493675	380	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7494181	<0.010	0.010	7491179	<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L				1800	10	7492403	530	5.0	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7491179	<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7491179	<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L				<10	10	7492403	<5.0	5.0	7494165
Dissolved Sulphate (SO4)	mg/L				470	10	7492403	470	5.0	7494165

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



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RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO011			QFO035			QFO035		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-01-01			834487-02-01			834487-02-01		
	UNITS	2-II	RDL	QC Batch	62-I	RDL	QC Batch	62-I Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	650	1.0	7487957	2200	1.0	7487957			
Inorganics										
Total Ammonia-N	mg/L	0.10	0.050	7491223	24	0.050	7491223			
Conductivity	umho/cm	2300	1.0	7493671	7800	1.0	7493671	7700	1.0	7493671
Total Dissolved Solids	mg/L	1370	10	7491199	5560	20	7491199			
Fluoride (F-)	mg/L	0.95	0.10	7493661	1.0	0.10	7493661	1.0	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L	0.26	0.10	7491225	25	2.0	7491225			
Total Organic Carbon (TOC)	mg/L	2.7	0.40	7491216	3.5	0.40	7491216			
Orthophosphate (P)	mg/L	<0.010	0.010	7494261	<0.010	0.010	7491173			
pH	pH	7.86		7493677	7.39		7493677	7.40		7493677
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955	<0.0010	0.0010	7490955			
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7493675	190	1.0	7493675	190	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7494181	<0.010	0.010	7491179			
Dissolved Chloride (Cl-)	mg/L	350	5.0	7494165	1400	20	7492403	1500	20	7492403
Nitrate (N)	mg/L	0.40	0.10	7494181	<0.10	0.10	7491179			
Nitrate + Nitrite (N)	mg/L	0.40	0.10	7494181	<0.10	0.10	7491179			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494165	<20	20	7492403	<20	20	7492403
Dissolved Sulphate (SO4)	mg/L	420	5.0	7494165	1500	20	7492403	1600	20	7492403

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



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RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO036			QFO037			QFO037		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-02-01		
	UNITS	62-II	RDL	QC Batch	62-III	RDL	QC Batch	62-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1600	1.0	7487957	620	1.0	7487957			
Inorganics										
Total Ammonia-N	mg/L	24	0.050	7491223	0.17	0.050	7491223			
Conductivity	umho/cm	6200	1.0	7493671	1600	1.0	7493671			
Total Dissolved Solids	mg/L	4030	10	7491199	995	10	7491199			
Fluoride (F-)	mg/L	1.0	0.10	7493661	0.22	0.10	7493661			
Total Kjeldahl Nitrogen (TKN)	mg/L	25	2.0	7491225	0.25	0.10	7491225			
Total Organic Carbon (TOC)	mg/L	4.0	0.40	7491216	1.7	0.40	7491216			
Orthophosphate (P)	mg/L	<0.010	0.010	7494261	<0.010	0.010	7491173	<0.010	0.010	7491173
pH	pH	7.47		7493677	7.69		7493677			
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955	<0.0010	0.0010	7490955			
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7493675	370	1.0	7493675			
Nitrite (N)	mg/L	<0.010	0.010	7494181	0.011	0.010	7491179			
Dissolved Chloride (Cl-)	mg/L	1200	10	7494165	170	1.0	7492403			
Nitrate (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7491179			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7491179			
Dissolved Bromide (Br-)	mg/L	<10	10	7494165	<1.0	1.0	7492403			
Dissolved Sulphate (SO4)	mg/L	1400	10	7494165	220	1.0	7492403			

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



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RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO038			QFO038			QFO039		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-02-01		
	UNITS	62-IV	RDL	QC Batch	62-IV Lab-Dup	RDL	QC Batch	41-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	880	1.0	7487957				1900	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	0.46	0.050	7491223				6.3 (1)	0.050	7491223
Conductivity	umho/cm	2300	1.0	7493671				4900	1.0	7493671
Total Dissolved Solids	mg/L	1530	10	7491199	1530	10	7491199	3480	10	7491199
Fluoride (F-)	mg/L	0.34	0.10	7493661				0.80	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L	0.59	0.10	7491225				6.2 (1)	0.50	7491225
Total Organic Carbon (TOC)	mg/L	3.5	0.40	7491216				2.1	0.40	7491216
Orthophosphate (P)	mg/L	<0.010	0.010	7494261				<0.010	0.010	7494261
pH	pH	7.73		7493677				7.57		7493677
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955				<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	250	1.0	7493675				230	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7494181				<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	350	5.0	7494165				790	10	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494165				<10	10	7494165
Dissolved Sulphate (SO4)	mg/L	400	5.0	7494165				1400	10	7494165

RDL = Reportable Detection Limit
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 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



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RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO040			QFO040			QFO041		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-02-01		
	UNITS	41-II	RDL	QC Batch	41-II Lab-Dup	RDL	QC Batch	41-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	480	1.0	7487957				580	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7491223	<0.050	0.050	7491223	<0.050	0.050	7491223
Conductivity	umho/cm	1000	1.0	7493671				1300	1.0	7493671
Total Dissolved Solids	mg/L	560	10	7495611				720	10	7491199
Fluoride (F-)	mg/L	0.37	0.10	7493661				0.29	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L	0.13	0.10	7491225	0.10	0.10	7491225	0.16	0.10	7491225
Total Organic Carbon (TOC)	mg/L	1.4	0.40	7491216	1.4	0.40	7491216	2.3	0.40	7491216
Orthophosphate (P)	mg/L	<0.010	0.010	7494261				<0.010	0.010	7494261
pH	pH	7.82		7493677				7.73		7493677
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955	<0.0010	0.0010	7490955	<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	420	1.0	7493675				460	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7494181				<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	38	1.0	7494165				61	1.0	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7494165				<1.0	1.0	7494165
Dissolved Sulphate (SO4)	mg/L	87	1.0	7494165				150	1.0	7494165

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO042			QFO043			QFO043		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-02-01		
	UNITS	75-I	RDL	QC Batch	75-II	RDL	QC Batch	75-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2300	1.0	7487957	810	1.0	7487957			
Inorganics										
Total Ammonia-N	mg/L	6.9 (1)	0.050	7491223	27	0.050	7493234	27	0.050	7493234
Conductivity	umho/cm	7500	1.0	7493671	5200	1.0	7493671			
Total Dissolved Solids	mg/L	5560	20	7491199	3020	10	7491199			
Fluoride (F-)	mg/L	0.91	0.10	7493661	1.1	0.10	7493661			
Total Kjeldahl Nitrogen (TKN)	mg/L	6.8 (1)	0.50	7491225	27	2.0	7491397	27	2.0	7491397
Total Organic Carbon (TOC)	mg/L	2.5	0.40	7491216	7.4	0.40	7491363			
Orthophosphate (P)	mg/L	<0.010	0.010	7494261	<0.010	0.010	7494261			
pH	pH	7.47		7493677	7.65		7493677			
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955	0.0010	0.0010	7490955			
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7493675	180	1.0	7493675			
Nitrite (N)	mg/L	<0.010	0.010	7494181	<0.010	0.010	7494181			
Dissolved Chloride (Cl-)	mg/L	1400	20	7494165	1200	10	7494165			
Nitrate (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7494181			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7494181			
Dissolved Bromide (Br-)	mg/L	<20	20	7494165	<10	10	7494165			
Dissolved Sulphate (SO4)	mg/L	1400	20	7494165	760	10	7494165			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO044			QFO044			QFO061		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-03-01		
	UNITS	75-III	RDL	QC Batch	75-III Lab-Dup	RDL	QC Batch	4-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1000	1.0	7487957				580	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	2.4	0.050	7491223				<0.050	0.050	7491223
Conductivity	umho/cm	3100	1.0	7493818				1300	1.0	7493818
Total Dissolved Solids	mg/L	1960	10	7491199				720	10	7491199
Fluoride (F-)	mg/L	0.38	0.10	7493787				0.31	0.10	7493787
Total Kjeldahl Nitrogen (TKN)	mg/L	2.7	0.10	7491225				0.14	0.10	7491225
Total Organic Carbon (TOC)	mg/L	3.8	0.40	7491216				2.2	0.40	7491216
Orthophosphate (P)	mg/L	<0.010	0.010	7494261				<0.010	0.010	7494261
pH	pH	7.75		7493792				7.82		7493792
Phenols-4AAP	mg/L	<0.0010	0.0010	7490562				<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	380	1.0	7493814				460	1.0	7493814
Nitrite (N)	mg/L	<0.010	0.010	7494189	<0.010	0.010	7494189	<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	560	5.0	7494165				62	1.0	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494189	<0.10	0.10	7494189	<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494189	<0.10	0.10	7494189	<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494165				<1.0	1.0	7494165
Dissolved Sulphate (SO4)	mg/L	500	5.0	7494165				150	1.0	7494165

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

BV Labs ID		QFO061		
Sampling Date		2021/07/27		
COC Number		834487-03-01		
	UNITS	4-I Lab-Dup	RDL	QC Batch
Inorganics				
Conductivity	umho/cm	1300	1.0	7493818
Fluoride (F-)	mg/L	0.29	0.10	7493787
pH	pH	7.83		7493792
Alkalinity (Total as CaCO3)	mg/L	460	1.0	7493814
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate				



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO002		QFO003	QFO004		QFO005		
Sampling Date		2021/07/27		2021/07/27	2021/07/27		2021/07/27		
COC Number		834487-01-01		834487-01-01	834487-01-01		834487-01-01		
	UNITS	P9-I	RDL	P9-II	P9-IIIR	RDL	36-IR	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	8.4	4.9	<4.9	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	20	2.0	27	12	2.0	20	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	6400	50	170	740	10	2200	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	830000	1000	190000	270000	200	670000	1000	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	<100	100	<100	<100	100	<100	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	1800	25	26	55	5.0	470	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	210000	50	41000	31000	50	95000	50	7493051
Dissolved Manganese (Mn)	ug/L	60	2.0	8.0	17	2.0	55	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	6.7	1.9	0.50	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9.6	2.6	1.0	<1.0	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	100	<100	100	7493051
Dissolved Potassium (K)	ug/L	53000	200	4500	24000	200	37000	200	7493051
Dissolved Selenium (Se)	ug/L	4.6	2.0	<2.0	<2.0	2.0	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	6800	50	3000	3700	50	4500	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	1400000	500	230000	510000	100	630000	500	7493051
Dissolved Strontium (Sr)	ug/L	13000	1.0	2300	3100	1.0	8100	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	0.050	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	4.8	1.0	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	0.25	0.10	7.5	1.8	0.10	0.57	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO006		QFO007		QFO008			QFO009		
Sampling Date		2021/07/27		2021/07/27		2021/07/27			2021/07/27		
COC Number		834487-01-01		834487-01-01		834487-01-01			834487-01-01		
	UNITS	36-IIR	RDL	36-IIIR	RDL	36-IVR	RDL	QC Batch	36-VR	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	14	4.9	<4.9	4.9	7493051	590	4.9	7493055
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493051	<0.50	0.50	7493055
Dissolved Arsenic (As)	ug/L	1.2	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
Dissolved Barium (Ba)	ug/L	23	2.0	10	2.0	15	2.0	7493051	25	2.0	7493055
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	7493051	<0.40	0.40	7493055
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
Dissolved Boron (B)	ug/L	3800	10	4000	10	93	10	7493051	510	10	7493055
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	7493051	<0.090	0.090	7493055
Dissolved Calcium (Ca)	ug/L	1500000	2000	620000	1000	180000	200	7493051	170000	200	7493055
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493051	<5.0	5.0	7493055
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	0.77	0.50	7493051	<0.50	0.50	7493055
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	7493051	<0.90	0.90	7493055
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	100	7493051	<100	100	7493055
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493051	<0.50	0.50	7493055
Dissolved Lithium (Li)	ug/L	2200	25	980	25	30	5.0	7493051	44	5.0	7493055
Dissolved Magnesium (Mg)	ug/L	380000	50	120000	50	74000	50	7493051	31000	50	7493055
Dissolved Manganese (Mn)	ug/L	110	2.0	56	2.0	35	2.0	7493051	6.3	2.0	7493055
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	0.50	8.5	0.50	7493051	11	0.50	7493055
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	1.0	8.9	1.0	7493051	7.5	1.0	7493055
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	7493051	180	100	7493055
Dissolved Potassium (K)	ug/L	65000	200	33000	200	3900	200	7493051	47000	200	7493055
Dissolved Selenium (Se)	ug/L	2.8	2.0	<2.0	2.0	<2.0	2.0	7493051	2.2	2.0	7493055
Dissolved Silicon (Si)	ug/L	5000	50	3800	50	4300	50	7493051	5700	50	7493055
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	7493051	<0.090	0.090	7493055
Dissolved Sodium (Na)	ug/L	2500000	500	710000	500	140000	100	7493051	1100000	500	7493055
Dissolved Strontium (Sr)	ug/L	30000	1.0	7600	1.0	2200	1.0	7493051	2300	1.0	7493055
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	0.067	0.050	7493051	<0.050	0.050	7493055
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493051	<5.0	5.0	7493055
Dissolved Tungsten (W)	ug/L	9.7	1.0	<1.0	1.0	13	1.0	7493051	7.5	1.0	7493055
Dissolved Uranium (U)	ug/L	0.20	0.10	7.1	0.10	15	0.10	7493051	3.9	0.10	7493055
Dissolved Vanadium (V)	ug/L	<0.50	0.50	1.1	0.50	<0.50	0.50	7493051	<0.50	0.50	7493055
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	57	5.0	7493051	<5.0	5.0	7493055
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO010	QFO011		QFO035	QFO036		QFO037		
Sampling Date		2021/07/27	2021/07/27		2021/07/27	2021/07/27		2021/07/27		
COC Number		834487-01-01	834487-01-01		834487-02-01	834487-02-01		834487-02-01		
	UNITS	2-I	2-II	RDL	62-I	62-II	RDL	62-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<4.9	<4.9	4.9	<4.9	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	7.3	27	2.0	16	17	2.0	34	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	410	200	10	1300	990	10	89	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	240000	190000	200	700000	520000	1000	150000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	<0.90	0.90	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	<100	100	560	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	39	27	5.0	350	200	5.0	21	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	97000	40000	50	100000	79000	50	59000	50	7493051
Dissolved Manganese (Mn)	ug/L	62	8.1	2.0	80	60	2.0	100	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	<0.50	6.2	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	2.8	9.5	1.0	<1.0	<1.0	1.0	1.3	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	<100	100	<100	100	7493051
Dissolved Potassium (K)	ug/L	13000	4500	200	51000	45000	200	3600	200	7493051
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	<2.0	2.0	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	6400	3200	50	4000	4500	50	5800	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	270000	230000	100	840000	640000	500	100000	100	7493051
Dissolved Strontium (Sr)	ug/L	3000	2200	1.0	11000	9300	1.0	790	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	<0.050	0.050	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	0.20	7.2	0.10	<0.10	<0.10	0.10	1.3	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	<5.0	5.0	35	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO038		QFO039	QFO039			QFO040		
Sampling Date		2021/07/27		2021/07/27	2021/07/27			2021/07/27		
COC Number		834487-02-01		834487-02-01	834487-02-01			834487-02-01		
	UNITS	62-IV	RDL	41-I	41-I Lab-Dup	RDL	QC Batch	41-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	<4.9	4.9	7493055	19	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	140	2.0	15	15	2.0	7493055	33	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	7493055	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	140	10	410	420	10	7493055	130	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	7493055	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	220000	200	640000	640000	1000	7493055	100000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	7493055	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	1.4	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	7493055	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	500	100	<100	<100	100	7493055	<100	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	24	5.0	59	59	5.0	7493055	18	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	78000	50	66000	67000	50	7493055	55000	50	7493051
Dissolved Manganese (Mn)	ug/L	430	2.0	77	78	2.0	7493055	39	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	1.5	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	3.1	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	100	7493055	<100	100	7493051
Dissolved Potassium (K)	ug/L	3600	200	20000	20000	200	7493055	1300	200	7493051
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	7493055	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	6900	50	4200	4100	50	7493055	7600	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	7493055	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	160000	100	400000	410000	100	7493055	30000	100	7493051
Dissolved Strontium (Sr)	ug/L	1500	1.0	8000	7900	1.0	7493055	840	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	0.050	7493055	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	7493055	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	2.9	0.10	0.24	0.23	0.10	7493055	0.97	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	9.1	5.0	<5.0	<5.0	5.0	7493055	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO041		QFO042	QFO042	QFO043		QFO044		
Sampling Date		2021/07/27		2021/07/27	2021/07/27	2021/07/27		2021/07/27		
COC Number		834487-02-01		834487-02-01	834487-02-01	834487-02-01		834487-02-01		
	UNITS	41-III	RDL	75-I	75-I Lab-Dup	75-II	RDL	75-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	<4.9	<4.9	4.9	15	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	54	2.0	12	11	22	2.0	7.3	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	<0.40	0.40	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	110	10	1400	1400	630	10	400	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	130000	200	740000	720000	240000	1000	230000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	<0.90	0.90	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	790	100	<100	<100	<100	100	<100	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	9.9	5.0	480	450	71	5.0	40	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	62000	50	110000	120000	49000	50	100000	50	7493051
Dissolved Manganese (Mn)	ug/L	54	2.0	110	110	29	2.0	63	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	0.52	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	2.6	1.0	<1.0	<1.0	<1.0	1.0	2.7	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	<100	100	<100	100	7493051
Dissolved Potassium (K)	ug/L	1700	200	32000	32000	48000	200	14000	200	7493051
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	2.2	2.0	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	5400	50	3400	3500	6500	50	6100	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	50000	100	750000	760000	670000	500	270000	100	7493051
Dissolved Strontium (Sr)	ug/L	740	1.0	13000	13000	10000	1.0	3200	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	<0.050	0.050	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	2.3	0.10	0.11	<0.10	<0.10	0.10	0.20	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO061		
Sampling Date		2021/07/27		
COC Number		834487-03-01		
	UNITS	4-I	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	36	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	110	10	7493051
Dissolved Cadmium (Cd)	ug/L	0.12	0.090	7493051
Dissolved Calcium (Ca)	ug/L	130000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	120	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	8.7	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	62000	50	7493051
Dissolved Manganese (Mn)	ug/L	43	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	1.2	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	100	7493051
Dissolved Potassium (K)	ug/L	1600	200	7493051
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	5400	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	48000	100	7493051
Dissolved Strontium (Sr)	ug/L	710	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	2.2	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7493051
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO002
Sample ID: P9-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO002 Dup
Sample ID: P9-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan

BV Labs ID: QFO003
Sample ID: P9-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493234	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7491397	2021/07/29	2021/07/30	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7491363	N/A	2021/07/29	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO004
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO004 Dup
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai

BV Labs ID: QFO005
Sample ID: 36-IR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO006
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO007
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO008
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO008
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO008 Dup
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal

BV Labs ID: QFO009
Sample ID: 36-VR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493055	N/A	2021/08/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493234	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7491179	N/A	2021/07/29	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491397	2021/07/29	2021/07/30	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7491363	N/A	2021/07/29	Nimarta Singh

BV Labs ID: QFO010
Sample ID: 2-l
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO010
Sample ID: 2-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO011
Sample ID: 2-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO035
Sample ID: 62-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7491179	N/A	2021/07/29	Chandra Nandlal



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO035
Sample ID: 62-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO035 Dup
Sample ID: 62-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai

BV Labs ID: QFO036
Sample ID: 62-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO037
Sample ID: 62-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO037
Sample ID: 62-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7491179	N/A	2021/07/29	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO037 Dup
Sample ID: 62-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan

BV Labs ID: QFO038
Sample ID: 62-IV
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493055	N/A	2021/08/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO038 Dup
Sample ID: 62-IV
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur

BV Labs ID: QFO039
Sample ID: 41-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493055	N/A	2021/08/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO039 Dup
Sample ID: 41-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493055	N/A	2021/08/04	Prempal Bhatti

BV Labs ID: QFO040
Sample ID: 41-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO040
Sample ID: 41-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO040 Dup
Sample ID: 41-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO041
Sample ID: 41-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO042
Sample ID: 75-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO042
Sample ID: 75-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO042 Dup
Sample ID: 75-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu

BV Labs ID: QFO043
Sample ID: 75-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493234	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491397	2021/07/29	2021/07/30	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7491363	N/A	2021/07/29	Nimarta Singh

BV Labs ID: QFO043 Dup
Sample ID: 75-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7493234	N/A	2021/08/03	Amanpreet Sappal
Total Kjeldahl Nitrogen in Water	SKAL	7491397	2021/07/29	2021/07/30	Rajni Tyagi



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO044
Sample ID: 75-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO044 Dup
Sample ID: 75-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal

BV Labs ID: QFO061
Sample ID: 4-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO061 Dup
Sample ID: 4-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai



GENERAL COMMENTS

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

Package 1	3.7°C
Package 2	3.0°C
Package 3	3.0°C

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

Sample QFO005 [36-IR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFO006 [36-IIR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFO009 [36-VR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFO039 [41-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFO042 [75-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

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
7490562	Phenols-4AAP	2021/07/29	98	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7490955	Phenols-4AAP	2021/07/29	100	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
7491173	Orthophosphate (P)	2021/07/30	113	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7491179	Nitrate (N)	2021/07/29	86	80 - 120	90	80 - 120	<0.10	mg/L	NC	20		
7491179	Nitrite (N)	2021/07/29	108	80 - 120	111	80 - 120	<0.010	mg/L				
7491199	Total Dissolved Solids	2021/08/03					<10	mg/L	0.33	25	95	90 - 110
7491216	Total Organic Carbon (TOC)	2021/07/30	96	80 - 120	97	80 - 120	<0.40	mg/L	3.0	20		
7491223	Total Ammonia-N	2021/08/03	107	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7491225	Total Kjeldahl Nitrogen (TKN)	2021/07/30	105	80 - 120	105	80 - 120	<0.10	mg/L	NC	20	110	80 - 120
7491363	Total Organic Carbon (TOC)	2021/07/29	94	80 - 120	94	80 - 120	<0.40	mg/L	0.93	20		
7491397	Total Kjeldahl Nitrogen (TKN)	2021/07/30	NC	80 - 120	101	80 - 120	<0.10	mg/L	1.9	20	101	80 - 120
7492403	Dissolved Bromide (Br-)	2021/07/30	104	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7492403	Dissolved Chloride (Cl-)	2021/07/30	NC	80 - 120	100	70 - 130	<1.0	mg/L	7.2	20		
7492403	Dissolved Sulphate (SO4)	2021/07/30	NC	80 - 120	98	80 - 120	<1.0	mg/L	6.4	20		
7493051	Dissolved Aluminum (Al)	2021/08/05	97	80 - 120	99	80 - 120	<4.9	ug/L	NC	20		
7493051	Dissolved Antimony (Sb)	2021/08/05	100	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Arsenic (As)	2021/08/05	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Barium (Ba)	2021/08/05	98	80 - 120	98	80 - 120	<2.0	ug/L	5.0	20		
7493051	Dissolved Beryllium (Be)	2021/08/05	87	80 - 120	92	80 - 120	<0.40	ug/L	NC	20		
7493051	Dissolved Bismuth (Bi)	2021/08/05	78 (1)	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Boron (B)	2021/08/05	NC	80 - 120	89	80 - 120	<10	ug/L	1.7	20		
7493051	Dissolved Cadmium (Cd)	2021/08/05	100	80 - 120	103	80 - 120	<0.090	ug/L	NC	20		
7493051	Dissolved Calcium (Ca)	2021/08/05	NC	80 - 120	97	80 - 120	<200	ug/L	2.0	20		
7493051	Dissolved Chromium (Cr)	2021/08/05	94	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Cobalt (Co)	2021/08/05	99	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Copper (Cu)	2021/08/05	89	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7493051	Dissolved Iron (Fe)	2021/08/05	98	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7493051	Dissolved Lead (Pb)	2021/08/05	98	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Lithium (Li)	2021/08/05	NC	80 - 120	102	80 - 120	<5.0	ug/L	5.2	20		
7493051	Dissolved Magnesium (Mg)	2021/08/05	NC	80 - 120	102	80 - 120	<50	ug/L	1.1	20		
7493051	Dissolved Manganese (Mn)	2021/08/05	99	80 - 120	99	80 - 120	<2.0	ug/L	2.8	20		



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

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
7493051	Dissolved Molybdenum (Mo)	2021/08/05	101	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Nickel (Ni)	2021/08/05	94	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Phosphorus (P)	2021/08/05	111	80 - 120	114	80 - 120	<100	ug/L	NC	20		
7493051	Dissolved Potassium (K)	2021/08/05	NC	80 - 120	100	80 - 120	<200	ug/L	0.49	20		
7493051	Dissolved Selenium (Se)	2021/08/05	55 (1)	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7493051	Dissolved Silicon (Si)	2021/08/05	103	80 - 120	102	80 - 120	<50	ug/L	3.0	20		
7493051	Dissolved Silver (Ag)	2021/08/05	80	80 - 120	90	80 - 120	<0.090	ug/L	NC	20		
7493051	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	98	80 - 120	<100	ug/L	1.8	20		
7493051	Dissolved Strontium (Sr)	2021/08/05	NC	80 - 120	98	80 - 120	<1.0	ug/L	0.67	20		
7493051	Dissolved Tellurium (Te)	2021/08/05	79 (1)	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Thallium (Tl)	2021/08/05	100	80 - 120	105	80 - 120	<0.050	ug/L	NC	20		
7493051	Dissolved Tin (Sn)	2021/08/05	106	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Titanium (Ti)	2021/08/05	103	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Tungsten (W)	2021/08/05	103	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Uranium (U)	2021/08/05	100	80 - 120	102	80 - 120	<0.10	ug/L	10	20		
7493051	Dissolved Vanadium (V)	2021/08/05	98	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Zinc (Zn)	2021/08/05	94	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Zirconium (Zr)	2021/08/05	105	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Aluminum (Al)	2021/08/04	104	80 - 120	103	80 - 120	<4.9	ug/L	NC	20		
7493055	Dissolved Antimony (Sb)	2021/08/04	107	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Arsenic (As)	2021/08/04	103	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Barium (Ba)	2021/08/04	102	80 - 120	100	80 - 120	<2.0	ug/L	0.36	20		
7493055	Dissolved Beryllium (Be)	2021/08/04	98	80 - 120	100	80 - 120	<0.40	ug/L	NC	20		
7493055	Dissolved Bismuth (Bi)	2021/08/04	93	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Boron (B)	2021/08/04	102	80 - 120	100	80 - 120	<10	ug/L	1.9	20		
7493055	Dissolved Cadmium (Cd)	2021/08/04	99	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7493055	Dissolved Calcium (Ca)	2021/08/04	NC	80 - 120	100	80 - 120	<200	ug/L	0.39	20		
7493055	Dissolved Chromium (Cr)	2021/08/04	100	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7493055	Dissolved Cobalt (Co)	2021/08/04	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Copper (Cu)	2021/08/04	98	80 - 120	102	80 - 120	<0.90	ug/L	NC	20		
7493055	Dissolved Iron (Fe)	2021/08/04	99	80 - 120	99	80 - 120	<100	ug/L	NC	20		



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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
7493055	Dissolved Lead (Pb)	2021/08/04	96	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Lithium (Li)	2021/08/04	103	80 - 120	111	80 - 120	<5.0	ug/L	0.38	20		
7493055	Dissolved Magnesium (Mg)	2021/08/04	NC	80 - 120	100	80 - 120	<50	ug/L	2.0	20		
7493055	Dissolved Manganese (Mn)	2021/08/04	99	80 - 120	98	80 - 120	<2.0	ug/L	2.1	20		
7493055	Dissolved Molybdenum (Mo)	2021/08/04	107	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Nickel (Ni)	2021/08/04	97	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Phosphorus (P)	2021/08/04	105	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7493055	Dissolved Potassium (K)	2021/08/04	105	80 - 120	100	80 - 120	<200	ug/L	1.9	20		
7493055	Dissolved Selenium (Se)	2021/08/04	73 (2)	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7493055	Dissolved Silicon (Si)	2021/08/04	106	80 - 120	102	80 - 120	<50	ug/L	0.54	20		
7493055	Dissolved Silver (Ag)	2021/08/04	51 (2)	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7493055	Dissolved Sodium (Na)	2021/08/04	NC	80 - 120	99	80 - 120	<100	ug/L	1.7	20		
7493055	Dissolved Strontium (Sr)	2021/08/04	NC	80 - 120	99	80 - 120	<1.0	ug/L	1.2	20		
7493055	Dissolved Tellurium (Te)	2021/08/04	72 (2)	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Thallium (Tl)	2021/08/04	98	80 - 120	100	80 - 120	<0.050	ug/L	NC	20		
7493055	Dissolved Tin (Sn)	2021/08/04	105	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Titanium (Ti)	2021/08/04	104	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7493055	Dissolved Tungsten (W)	2021/08/04	101	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Uranium (U)	2021/08/04	103	80 - 120	103	80 - 120	<0.10	ug/L	3.8	20		
7493055	Dissolved Vanadium (V)	2021/08/04	103	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Zinc (Zn)	2021/08/04	95	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7493055	Dissolved Zirconium (Zr)	2021/08/04	110	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7493234	Total Ammonia-N	2021/08/03	NC	75 - 125	100	80 - 120	<0.050	mg/L	0.13	20		
7493661	Fluoride (F-)	2021/07/30	89	80 - 120	95	80 - 120	<0.10	mg/L	0.46	20		
7493671	Conductivity	2021/07/30			100	85 - 115	<1.0	umho/cm	0.13	25		
7493675	Alkalinity (Total as CaCO3)	2021/07/30			95	85 - 115	<1.0	mg/L	0.34	20		
7493677	pH	2021/07/30			101	98 - 103			0.17	N/A		
7493787	Fluoride (F-)	2021/07/30	103	80 - 120	95	80 - 120	<0.10	mg/L	5.6	20		
7493792	pH	2021/07/30			102	98 - 103			0.080	N/A		
7493814	Alkalinity (Total as CaCO3)	2021/07/30			97	85 - 115	<1.0	mg/L	0.012	20		



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

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
7493818	Conductivity	2021/07/30			100	85 - 115	<1.0	umho/cm	0.24	25		
7494165	Dissolved Bromide (Br-)	2021/08/03	107	80 - 120	103	80 - 120	<1.0	mg/L	NC	20		
7494165	Dissolved Chloride (Cl-)	2021/08/03	NC	80 - 120	100	70 - 130	<1.0	mg/L	6.7	20		
7494165	Dissolved Sulphate (SO4)	2021/08/03	NC	80 - 120	101	80 - 120	<1.0	mg/L	7.2	20		
7494181	Nitrate (N)	2021/08/03	104	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7494181	Nitrite (N)	2021/08/03	106	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7494189	Nitrate (N)	2021/08/03	100	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
7494189	Nitrite (N)	2021/08/03	104	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7494261	Orthophosphate (P)	2021/08/04	110	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7495611	Total Dissolved Solids	2021/08/03					<10	mg/L	0.20	25	102	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.

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) "Matrix Spike exceeds acceptance limits, probable matrix interference".

(2) 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 #: C1L1918
Report Date: 2021/08/06

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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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	Company Name: Brad Mullin - GHD Reporting	Project Name: GW	Project Name: GW	BV Labs Job #:	Bottle Order #:
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #:	Address: 65 Green Mountain Rd West	Project: GW	Project: GW		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project Name:	Tel: (905) 561-0305 Fax: (905) 561-1674	Site #:	Site #:	COC #:	Project Manager:
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Sampled By:					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)		T turnaround Time (TAT) Required:			
Regulation 153 (2011)			Other Regulations			Special Instructions		Please provide advance notice for rush projects			
<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		Field Filtered (please circle): Metals / Hg / Cr / V	Last "A" GW Monitoring	Regular (Standard) TAT:			
<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				(will be applied if Rush TAT is not specified):		<input checked="" type="checkbox"/>	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality: _____				Standard TAT = 5-7 Working days for most tests.			
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	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.			
Include Criteria on Certificate of Analysis (Y/N)?								Job Specific Rush TAT (if applies to entire submission)			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix							
1	62-I	July 27 2021	NA	GW	Y	X			6		
2	62-II			GW	Y	X			6		
3	62-III			GW	Y	X			6		
4	62-IV			GW	Y	X			6		
5	41-I			GW	Y	X			6		
6	41-II			GW	Y	X			6		
7	41-III			GW	Y	X			6		
8	75-I			GW	Y	X			6		
9	75-II			GW	Y	X			6		
10	75-III			GW	Y	X			6		

* RELINQUISHED BY: (Signature/Print) D Taylor / Dan Taylor	Date: (YY/MM/DD) 21/07/21	Time 11:30	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 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 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



CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name:	Attention: Brad Mullin - GHD Reporting	Attention:	Quotation #: B60569	Quotation #:	BV Labs Job #:	Bottle Order #:
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:			P.O. #:	P.O. #:		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel:			Project: GW	Project:	COC #:	Project Manager:
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com			Project Name:	Project Name:		
				Site #:	Site #:		
				Sampled By:	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:						
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle)	Metals	Hg / Cr VI	List "A" GW Monitoring											Please provide advance notice for rush projects	
<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																Regular (Standard) TAT:		
<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																(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	Municipality _____																Standard TAT = 5-7 Working days for most tests.		
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	Reg 405 Table _____																Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
Include Criteria on Certificate of Analysis (Y/N)?																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 VI	List "A" GW Monitoring	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										# of Bottles	Comments		
1	4-I	July 27 2021	NA	GW	Y	X													6			
2				GW		X																
3				GW		X																
4				GW		X																
5				GW		X																
6				GW		X																
7				GW		X																
8				GW		X																
9				GW		X																
10				GW		X																

* 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		21/07/23	11:30	See page - 1					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.

** 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. #: 834487-04-01, 834487-05-01, 834487-06-01

Report Date: 2021/08/20
Report #: R6774985
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L4129

Received: 2021/07/29, 16:05

Sample Matrix: Water
Samples Received: 29

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/08/11	CAM SOP-00448	SM 23 2320 B m
Alkalinity	2	N/A	2021/08/20	CAM SOP-00448	SM 23 2320 B m
Alkalinity	9	N/A	2021/08/03	CAM SOP-00448	SM 23 2320 B m
Alkalinity	17	N/A	2021/08/04	CAM SOP-00448	SM 23 2320 B m
Anions	3	N/A	2021/08/20	CAM SOP-00435	SM 23 4110 B m
Anions	26	N/A	2021/08/04	CAM SOP-00435	SM 23 4110 B m
Conductivity	9	N/A	2021/08/03	CAM SOP-00414	SM 23 2510 m
Conductivity	20	N/A	2021/08/04	CAM SOP-00414	SM 23 2510 m
Fluoride	9	2021/07/30	2021/08/03	CAM SOP-00449	SM 23 4500-F C m
Fluoride	19	2021/07/30	2021/08/04	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2021/07/30	2021/08/05	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	9	N/A	2021/08/04	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	20	N/A	2021/08/05	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/08/13	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/08/16	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	9	N/A	2021/08/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	17	N/A	2021/08/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	29	N/A	2021/08/04	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	27	N/A	2021/08/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	2	N/A	2021/08/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	9	2021/07/30	2021/08/03	CAM SOP-00413	SM 4500H+ B m
pH	20	2021/07/30	2021/08/04	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	19	N/A	2021/07/30	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	9	N/A	2021/08/03	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/08/04	CAM SOP-00444	OMOE E3179 m
Orthophosphate	9	N/A	2021/08/04	CAM SOP-00461	EPA 365.1 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. #: 834487-04-01, 834487-05-01, 834487-06-01

Report Date: 2021/08/20
Report #: R6774985
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L4129

Received: 2021/07/29, 16:05

Sample Matrix: Water
Samples Received: 29

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Orthophosphate	20	N/A	2021/08/05 CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	29	2021/08/03	2021/08/04 CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/07/30	2021/08/03 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	5	2021/07/30	2021/08/04 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	23	2021/07/30	2021/08/05 CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	29	N/A	2021/07/31 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



Bureau Veritas
20 Aug 2021 17:59:47

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 #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ364			QFZ365			QFZ365		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-04-01		
	UNITS	35-IV	RDL	QC Batch	P16	RDL	QC Batch	P16 Lab-Dup	RDL	QC Batch

Calculated Parameters

Hardness (CaCO3)	mg/L	2000	1.0	7490721	600	1.0	7490721			
Inorganics										
Total Ammonia-N	mg/L	87	0.25	7493722	11	0.050	7494236			
Conductivity	umho/cm	14000	1.0	7494086	2700	1.0	7494086	2700	1.0	7494086
Total Dissolved Solids	mg/L	8600	20	7495524	1480	10	7495524			
Fluoride (F-)	mg/L	5.0	0.10	7494080	2.0	0.10	7494080	2.0	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	87	2.0	7493848	12	0.50	7493848			
Total Organic Carbon (TOC)	mg/L	18	0.40	7493517	13	0.40	7494260			
Orthophosphate (P)	mg/L	<0.010	0.010	7494241	<0.010	0.010	7494241			
pH	pH	8.96		7494087	7.77		7494087	7.79		7494087
Phenols-4AAP	mg/L	0.32	0.010	7493184	0.059	0.0010	7493500			
Alkalinity (Total as CaCO3)	mg/L	110	1.0	7494085	120	1.0	7494085	120	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494189	<0.010	0.010	7494215			
Dissolved Chloride (Cl-)	mg/L	3700	50	7494172	560	5.0	7494172			
Nitrate (N)	mg/L	<0.10	0.10	7494189	<0.10	0.10	7494215			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494189	<0.10	0.10	7494215			
Dissolved Bromide (Br-)	mg/L	<50	50	7494172	<5.0	5.0	7494172			
Dissolved Sulphate (SO4)	mg/L	2300	50	7494172	320	5.0	7494172			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ366			QFZ367			QFZ368		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-04-01		
	UNITS	P17	RDL	QC Batch	P12	RDL	QC Batch	P7 IR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	49	1.0	7490721	250	1.0	7490721	2700	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	110	0.25	7493722	15	0.050	7494236	20	0.050	7493722
Conductivity	umho/cm	9000	1.0	7494086	2200	1.0	7494086	6800	1.0	7494086
Total Dissolved Solids	mg/L	4680	20	7493807	1170	10	7495524	5460	20	7495524
Fluoride (F-)	mg/L	3.4	0.10	7494080	1.6	0.10	7494080	1.2	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	110	5.0	7493492	17	1.0	7493848	18	1.0	7493848
Total Organic Carbon (TOC)	mg/L	33	0.40	7493517	30	0.40	7494260	10	0.40	7493517
Orthophosphate (P)	mg/L	0.064	0.010	7494241	0.011	0.010	7494241	<0.010	0.010	7494241
pH	pH	9.56		7494087	10.7		7494087	8.64		7494087
Phenols-4AAP	mg/L	0.71	0.050	7493500	0.21	0.010	7493184	0.31	0.020	7493500
Alkalinity (Total as CaCO3)	mg/L	330	1.0	7494085	120	1.0	7494085	2.7	1.0	7531698
Nitrite (N)	mg/L	0.011	0.010	7494215	<0.010	0.010	7494189	<0.010	0.010	7494189
Dissolved Chloride (Cl-)	mg/L	2300	20	7494172	300	5.0	7495625	1700	10	7530620
Nitrate (N)	mg/L	<0.10	0.10	7494215	<0.10	0.10	7494189	<0.10	0.10	7494189
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215	<0.10	0.10	7494189	<0.10	0.10	7494189
Dissolved Bromide (Br-)	mg/L	<20	20	7494172	<5.0	5.0	7495625	16	10	7530620
Dissolved Sulphate (SO4)	mg/L	250	20	7494172	440	5.0	7495625	870	10	7530620

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ369			QFZ369			QFZ370		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-04-01		
	UNITS	P7 II	RDL	QC Batch	P7 II Lab-Dup	RDL	QC Batch	P7 III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7490721				790	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	22	0.050	7493722				35	0.25	7494236
Conductivity	umho/cm	5400	1.0	7494086				4500	1.0	7494086
Total Dissolved Solids	mg/L	3570	10	7493807				2220	10	7495524
Fluoride (F-)	mg/L	1.1	0.10	7494080				1.7	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	23	1.0	7493848	23	1.0	7493848	35	2.0	7493848
Total Organic Carbon (TOC)	mg/L	10	0.40	7493517				13	0.40	7494260
Orthophosphate (P)	mg/L	0.057	0.010	7494241				0.046	0.010	7494283
pH	pH	7.61		7494087				8.41		7494087
Phenols-4AAP	mg/L	0.17	0.010	7493184				0.26	0.020	7493500
Alkalinity (Total as CaCO3)	mg/L	82	1.0	7512902				73	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494189				0.039	0.010	7494228
Dissolved Chloride (Cl-)	mg/L	950	10	7530620	990	10	7530620	700	10	7494172
Nitrate (N)	mg/L	<0.10	0.10	7494189				0.50	0.10	7494228
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494189				0.54	0.10	7494228
Dissolved Bromide (Br-)	mg/L	<10	10	7530620	<10	10	7530620	<10	10	7494172
Dissolved Sulphate (SO4)	mg/L	1400	10	7530620	1400	10	7530620	1100	10	7494172
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ371			QFZ372			QFZ372		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-04-01		
	UNITS	P7 IV	RDL	QC Batch	G27	RDL	QC Batch	G27 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	350	1.0	7490721	1100	1.0	7490721			
Inorganics										
Total Ammonia-N	mg/L	19	0.050	7494236	1.3	0.050	7493722			
Conductivity	umho/cm	1900	1.0	7494086	2500	1.0	7494123			
Total Dissolved Solids	mg/L	930	10	7493807	1910	10	7495524	1920	10	7495524
Fluoride (F-)	mg/L	1.7	0.10	7494080	1.8	0.10	7494104			
Total Kjeldahl Nitrogen (TKN)	mg/L	20	1.0	7493848	1.7	0.10	7493492			
Total Organic Carbon (TOC)	mg/L	17	0.40	7494260	6.4	0.40	7493517			
Orthophosphate (P)	mg/L	<0.010	0.010	7494283	0.010	0.010	7494283			
pH	pH	7.93		7494087	7.76		7494124			
Phenols-4AAP	mg/L	0.96	0.050	7493184	0.0024	0.0010	7493500			
Alkalinity (Total as CaCO3)	mg/L	48	1.0	7494085	92	1.0	7494114			
Nitrite (N)	mg/L	<0.010	0.010	7494215	<0.010	0.010	7494215			
Dissolved Chloride (Cl-)	mg/L	91	5.0	7494172	220	5.0	7494172			
Nitrate (N)	mg/L	<0.10	0.10	7494215	0.11	0.10	7494215			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215	0.11	0.10	7494215			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494172	<5.0	5.0	7494172			
Dissolved Sulphate (SO4)	mg/L	480	5.0	7494172	850	5.0	7494172			

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



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ373			QFZ373			QFZ377		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-05-01		
	UNITS	40-I	RDL	QC Batch	40-I Lab-Dup	RDL	QC Batch	P8-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7490721				2100	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	3.6	0.050	7493722				160	0.50	7494236
Conductivity	umho/cm	4200	1.0	7494123				18000	1.0	7494123
Total Dissolved Solids	mg/L	2670	10	7495524				10100	20	7493807
Fluoride (F-)	mg/L	1.2	0.10	7494104				3.5	0.10	7494104
Total Kjeldahl Nitrogen (TKN)	mg/L	3.7	0.50	7493492				150	5.0	7493848
Total Organic Carbon (TOC)	mg/L	3.5	0.40	7493517				23	0.40	7494260
Orthophosphate (P)	mg/L	<0.010	0.010	7494283				<0.010	0.010	7494283
pH	pH	7.65		7494124				7.23		7494124
Phenols-4AAP	mg/L	<0.0010	0.0010	7493500				0.0058	0.0010	7493500
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7494114				360	1.0	7494114
Nitrite (N)	mg/L	0.075	0.010	7494228				0.029	0.010	7494228
Dissolved Chloride (Cl-)	mg/L	550	10	7495625	530	10	7495625	4100	50	7495625
Nitrate (N)	mg/L	0.67	0.10	7494228				<0.10	0.10	7494228
Nitrate + Nitrite (N)	mg/L	0.75	0.10	7494228				<0.10	0.10	7494228
Dissolved Bromide (Br-)	mg/L	<10	10	7495625	<10	10	7495625	<50	50	7495625
Dissolved Sulphate (SO4)	mg/L	1400	10	7495625	1400	10	7495625	1600	50	7495625

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



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ378			QFZ378			QFZ379		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-05-01			834487-05-01			834487-05-01		
	UNITS	P8-II	RDL	QC Batch	P8-II Lab-Dup	RDL	QC Batch	P11-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1200	1.0	7490721				770	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	0.58	0.050	7494236				0.56	0.050	7494236
Conductivity	umho/cm	2600	1.0	7494123	2600	1.0	7494123	1700	1.0	7494086
Total Dissolved Solids	mg/L	1760	10	7493807				1070	10	7493807
Fluoride (F-)	mg/L	1.5	0.10	7494104	1.5	0.10	7494104	0.51	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	0.79	0.10	7493848				0.68	0.10	7493848
Total Organic Carbon (TOC)	mg/L	4.1	0.40	7494260				1.3	0.40	7494260
Orthophosphate (P)	mg/L	<0.010	0.010	7494283				<0.010	0.010	7494283
pH	pH	7.70		7494124	7.72		7494124	8.25		7494087
Phenols-4AAP	mg/L	0.0018	0.0010	7493500				<0.0010	0.0010	7493500
Alkalinity (Total as CaCO3)	mg/L	170	1.0	7494114	170	1.0	7494114	310	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494215				<0.010	0.010	7494215
Dissolved Chloride (Cl-)	mg/L	170	5.0	7494172				180	5.0	7494172
Nitrate (N)	mg/L	0.19	0.10	7494215				<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	0.19	0.10	7494215				<0.10	0.10	7494215
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494172				<5.0	5.0	7494172
Dissolved Sulphate (SO4)	mg/L	950	5.0	7494172				290	5.0	7494172

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



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ380			QFZ380			QFZ381		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-05-01			834487-05-01			834487-05-01		
	UNITS	14-I	RDL	QC Batch	14-I Lab-Dup	RDL	QC Batch	44-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	900	1.0	7490721				1300	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	0.059	0.050	7494236	<0.050	0.050	7494236	2.7	0.050	7494236
Conductivity	umho/cm	1600	1.0	7494123				3100	1.0	7494123
Total Dissolved Solids	mg/L	1250	10	7493807				2080	10	7493807
Fluoride (F-)	mg/L	0.30	0.10	7494104				0.63	0.10	7494104
Total Kjeldahl Nitrogen (TKN)	mg/L	0.22	0.10	7493848				3.0	0.10	7493848
Total Organic Carbon (TOC)	mg/L	1.5	0.40	7494260				2.2	0.40	7494260
Orthophosphate (P)	mg/L	0.010	0.010	7494283				0.014	0.010	7494283
pH	pH	7.82		7494124				7.76		7494124
Phenols-4AAP	mg/L	<0.0010	0.0010	7493184				0.0032	0.0010	7493184
Alkalinity (Total as CaCO3)	mg/L	410	1.0	7494114				350	1.0	7494114
Nitrite (N)	mg/L	<0.010	0.010	7494215				<0.010	0.010	7494228
Dissolved Chloride (Cl-)	mg/L	92	1.0	7495625				340	5.0	7495625
Nitrate (N)	mg/L	<0.10	0.10	7494215				<0.10	0.10	7494228
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215				<0.10	0.10	7494228
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7495625				<5.0	5.0	7495625
Dissolved Sulphate (SO4)	mg/L	410	1.0	7495625				840	5.0	7495625

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



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VERITAS**

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ381			QFZ382			QFZ382		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-05-01			834487-05-01			834487-05-01		
	UNITS	44-I Lab-Dup	RDL	QC Batch	44-II	RDL	QC Batch	44-II Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				510	1.0	7490721			
Inorganics										
Total Ammonia-N	mg/L				<0.050	0.050	7494236			
Conductivity	umho/cm				970	1.0	7494123			
Total Dissolved Solids	mg/L				575	10	7493807	545	10	7493807
Fluoride (F-)	mg/L				0.25	0.10	7494104			
Total Kjeldahl Nitrogen (TKN)	mg/L				<0.10	0.10	7494243			
Total Organic Carbon (TOC)	mg/L				1.0	0.40	7494260			
Orthophosphate (P)	mg/L				<0.010	0.010	7494283			
pH	pH				7.75		7494124			
Phenols-4AAP	mg/L				<0.0010	0.0010	7493184			
Alkalinity (Total as CaCO3)	mg/L				380	1.0	7494114			
Nitrite (N)	mg/L	<0.010	0.010	7494228	<0.010	0.010	7494189			
Dissolved Chloride (Cl-)	mg/L				23	1.0	7495625			
Nitrate (N)	mg/L	<0.10	0.10	7494228	<0.10	0.10	7494189			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494228	<0.10	0.10	7494189			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	7495625			
Dissolved Sulphate (SO4)	mg/L				130	1.0	7495625			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ383		QFZ384			QFZ385		
Sampling Date		2021/07/28		2021/07/28			2021/07/28		
COC Number		834487-05-01		834487-05-01			834487-05-01		
	UNITS	45-I	QC Batch	45-II	RDL	QC Batch	76-I	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	430	7490721	470	1.0	7492497	36000	1.0	7492497
Inorganics									
Total Ammonia-N	mg/L	0.17	7494236	0.13	0.050	7494236	34	0.25	7494236
Conductivity	umho/cm	840	7494086	1100	1.0	7494086	>100000	1.0	7494123
Total Dissolved Solids	mg/L	480	7493807	605	10	7493807	81800	20	7493807
Fluoride (F-)	mg/L	0.26	7494080	0.27	0.10	7494080	0.21	0.10	7494104
Total Kjeldahl Nitrogen (TKN)	mg/L	0.22	7493848	0.24	0.10	7493848	35	1.0	7493848
Total Organic Carbon (TOC)	mg/L	0.99	7494260	1.6	0.40	7494260	8.8	0.40	7494260
Orthophosphate (P)	mg/L	<0.010	7494283	<0.010	0.010	7494283	<0.010	0.010	7494283
pH	pH	8.32	7494087	8.32		7494087	6.81		7494124
Phenols-4AAP	mg/L	0.0038	7493500	<0.0010	0.0010	7493500	0.016	0.010	7493500
Alkalinity (Total as CaCO3)	mg/L	300	7494085	300	1.0	7494085	120	1.0	7494114
Nitrite (N)	mg/L	<0.010	7494215	<0.010	0.010	7494228	<0.10	0.10	7494228
Dissolved Chloride (Cl-)	mg/L	42	7494172	140	1.0	7494172	50000	500	7495625
Nitrate (N)	mg/L	<0.10	7494215	<0.10	0.10	7494228	<1.0	1.0	7494228
Nitrate + Nitrite (N)	mg/L	<0.10	7494215	<0.10	0.10	7494228	<1.0	1.0	7494228
Dissolved Bromide (Br-)	mg/L	<1.0	7494172	<1.0	1.0	7494172	540	500	7495625
Dissolved Sulphate (SO4)	mg/L	99	7494172	99	1.0	7494172	1000	500	7495625
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ386		QFZ387			QFZ388		
Sampling Date		2021/07/28		2021/07/28			2021/07/28		
COC Number		834487-05-01		834487-06-01			834487-06-01		
	UNITS	76-II	QC Batch	76-III	RDL	QC Batch	67-I	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	780	7492497	660	1.0	7490721	1500	1.0	7490721
Inorganics									
Total Ammonia-N	mg/L	<0.050	7493722	<0.050	0.050	7493722	39	0.25	7493722
Conductivity	umho/cm	2900	7494123	2200	1.0	7494086	6200	1.0	7494086
Total Dissolved Solids	mg/L	1620	7493807	1220	10	7495524	3740	10	7493807
Fluoride (F ⁻)	mg/L	0.25	7494104	0.27	0.10	7494080	1.2	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	0.21	7493492	0.16	0.10	7493492	36	2.0	7493492
Total Organic Carbon (TOC)	mg/L	3.3	7493517	3.3	0.40	7493517	7.1	0.40	7493517
Orthophosphate (P)	mg/L	<0.010	7494283	<0.010	0.010	7494283	<0.010	0.010	7494241
pH	pH	7.67	7494124	8.15		7494087	7.72		7494087
Phenols-4AAP	mg/L	<0.0010	7493500	<0.0010	0.0010	7493500	<0.0010	0.0010	7493500
Alkalinity (Total as CaCO ₃)	mg/L	520	7494114	510	1.0	7494085	160	1.0	7494085
Nitrite (N)	mg/L	<0.010	7494228	<0.010	0.010	7494215	<0.010	0.010	7494215
Dissolved Chloride (Cl ⁻)	mg/L	380	7495625	230	5.0	7494172	1200	10	7494172
Nitrate (N)	mg/L	<0.10	7494228	<0.10	0.10	7494215	<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	<0.10	7494228	<0.10	0.10	7494215	<0.10	0.10	7494215
Dissolved Bromide (Br ⁻)	mg/L	<5.0	7495625	<5.0	5.0	7494172	<10	10	7494172
Dissolved Sulphate (SO ₄)	mg/L	350	7495625	290	5.0	7494172	1300	10	7494172
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ389			QFZ390			QFZ391		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-06-01			834487-06-01			834487-06-01		
	UNITS	4-II	RDL	QC Batch	3-II	RDL	QC Batch	46-IR	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1400	1.0	7490721	1600	1.0	7490721	1800	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	39	0.25	7494236	3.5	0.050	7494236	35	0.25	7493722
Conductivity	umho/cm	6200	1.0	7494086	4300	1.0	7494086	7200	1.0	7494086
Total Dissolved Solids	mg/L	3600	10	7493807	2820	10	7495524	4900	20	7493807
Fluoride (F-)	mg/L	1.3	0.10	7494080	1.2	0.10	7494080	1.3	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	34	2.0	7493848	3.9	0.20	7493848	31	2.0	7493848
Total Organic Carbon (TOC)	mg/L	7.1	0.40	7494260	3.4	0.40	7494260	7.8	0.40	7493517
Orthophosphate (P)	mg/L	<0.010	0.010	7494241	<0.010	0.010	7494283	<0.010	0.010	7494283
pH	pH	7.72		7494087	8.12		7494087	8.03		7494087
Phenols-4AAP	mg/L	0.0011	0.0010	7493184	<0.0010	0.0010	7493500	<0.0010	0.0010	7493500
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7494085	210	1.0	7494085	130	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494215	0.093	0.010	7494215	<0.010	0.010	7494215
Dissolved Chloride (Cl-)	mg/L	1200	10	7494172	510	10	7494172	1500	10	7494172
Nitrate (N)	mg/L	<0.10	0.10	7494215	0.76	0.10	7494215	<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215	0.85	0.10	7494215	<0.10	0.10	7494215
Dissolved Bromide (Br-)	mg/L	<10	10	7494172	<10	10	7494172	<10	10	7494172
Dissolved Sulphate (SO4)	mg/L	1300	10	7494172	1300	10	7494172	1800	10	7494172
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ392			QFZ392			QFZ393		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-06-01			834487-06-01			834487-06-01		
	UNITS	46-IIR	RDL	QC Batch	46-IIR Lab-Dup	RDL	QC Batch	46-IIIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	970	1.0	7490721				870	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	0.28	0.050	7494236				<0.050	0.050	7493722
Conductivity	umho/cm	2600	1.0	7494086				2100	1.0	7494086
Total Dissolved Solids	mg/L	1620	10	7493807				1300	10	7495524
Fluoride (F-)	mg/L	0.44	0.10	7494080				0.20	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	0.48	0.10	7493848				0.52	0.10	7493492
Total Organic Carbon (TOC)	mg/L	3.2	0.40	7494260				7.8	0.40	7493517
Orthophosphate (P)	mg/L	<0.010	0.010	7494283				0.010	0.010	7494283
pH	pH	7.81		7494087				8.15		7494087
Phenols-4AAP	mg/L	<0.0010	0.0010	7493184				<0.0010	0.0010	7493500
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7494085				370	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494215				<0.010	0.010	7494215
Dissolved Chloride (Cl-)	mg/L	390	5.0	7494172	410	5.0	7494172	180	5.0	7494172
Nitrate (N)	mg/L	<0.10	0.10	7494215				<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215				<0.10	0.10	7494215
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494172	<5.0	5.0	7494172	<5.0	5.0	7494172
Dissolved Sulphate (SO4)	mg/L	610	5.0	7494172	620	5.0	7494172	430	5.0	7494172

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



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ394			QFZ394			QFZ395		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-06-01			834487-06-01			834487-06-01		
	UNITS	31-II	RDL	QC Batch	31-II Lab-Dup	RDL	QC Batch	58-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	150	1.0	7490721				130	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	0.36	0.050	7493722				79	0.25	7493722
Conductivity	umho/cm	360	1.0	7494086				6500	1.0	7494086
Total Dissolved Solids	mg/L	250	10	7493807				3660	20	7495524
Fluoride (F-)	mg/L	0.53	0.10	7494080				9.4	0.50	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	0.76	0.10	7493848				86	5.0	7493492
Total Organic Carbon (TOC)	mg/L	6.5	0.40	7494260	6.6	0.40	7494260	320	2.0	7493517
Orthophosphate (P)	mg/L	<0.010	0.010	7494241				<0.10 (1)	0.10	7494283
pH	pH	9.77		7494087				11.1		7494087
Phenols-4AAP	mg/L	0.0017	0.0010	7493500	0.0013	0.0010	7493500	5.5	0.20	7493184
Alkalinity (Total as CaCO3)	mg/L	21	1.0	7531698				620	1.0	7494085
Nitrite (N)	mg/L	0.298	0.010	7494215				<0.010	0.010	7494215
Dissolved Chloride (Cl-)	mg/L	27	1.0	7530620				1200	10	7494172
Nitrate (N)	mg/L	0.47	0.10	7494215				<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	0.77	0.10	7494215				<0.10	0.10	7494215
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7530620				12	10	7494172
Dissolved Sulphate (SO4)	mg/L	62	1.0	7530620				280	10	7494172

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.

BV Labs ID		QFZ395		
Sampling Date		2021/07/28		
COC Number		834487-06-01		
	UNITS	58-I Lab-Dup	RDL	QC Batch
Inorganics				
Orthophosphate (P)	mg/L	<0.10	0.10	7494283
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate				



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ364	QFZ364		QFZ365		QFZ366		
Sampling Date		2021/07/28	2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-04-01	834487-04-01		834487-04-01		834487-04-01		
	UNITS	35-IV	35-IV Lab-Dup	RDL	P16	RDL	P17	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	10	10	4.9	<4.9	4.9	87	4.9	7494191
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Arsenic (As)	ug/L	3.3	3.3	1.0	<1.0	1.0	2.6	1.0	7494191
Dissolved Barium (Ba)	ug/L	12	12	2.0	10	2.0	8.4	2.0	7494191
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7494191
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Boron (B)	ug/L	1700	1700	10	430	10	440	10	7494191
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7494191
Dissolved Calcium (Ca)	ug/L	740000	750000	1000	140000	200	14000	200	7494191
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7494191
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	100	<100	100	7494191
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Lithium (Li)	ug/L	360	360	5.0	30	5.0	27	5.0	7494191
Dissolved Magnesium (Mg)	ug/L	37000	38000	50	60000	50	3700	50	7494191
Dissolved Manganese (Mn)	ug/L	17	17	2.0	33	2.0	<2.0	2.0	7494191
Dissolved Molybdenum (Mo)	ug/L	30	30	0.50	1.8	0.50	42	0.50	7494191
Dissolved Nickel (Ni)	ug/L	8.4	8.6	1.0	2.3	1.0	18	1.0	7494191
Dissolved Phosphorus (P)	ug/L	110	110	100	<100	100	210	100	7494191
Dissolved Potassium (K)	ug/L	110000	110000	200	35000	200	120000	200	7494191
Dissolved Selenium (Se)	ug/L	2.9	3.6	2.0	<2.0	2.0	3.2	2.0	7494191
Dissolved Silicon (Si)	ug/L	3300	3500	50	4700	50	7000	50	7494191
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7494191
Dissolved Sodium (Na)	ug/L	2400000	2400000	500	310000	100	1800000	500	7494191
Dissolved Strontium (Sr)	ug/L	6900	6900	1.0	1900	1.0	1000	1.0	7494191
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7494191
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Tungsten (W)	ug/L	11	11	1.0	2.7	1.0	21	1.0	7494191
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	<0.10	0.10	7494191
Dissolved Vanadium (V)	ug/L	1.5	1.5	0.50	<0.50	0.50	1.1	0.50	7494191
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ367			QFZ368		QFZ369		
Sampling Date		2021/07/28			2021/07/28		2021/07/28		
COC Number		834487-04-01			834487-04-01		834487-04-01		
	UNITS	P12	RDL	QC Batch	P7 IR	RDL	P7 II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	8.5	4.9	7494191	<4.9	4.9	5.3	4.9	7512755
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7494191	<0.50	0.50	<0.50	0.50	7512755
Dissolved Arsenic (As)	ug/L	3.9	1.0	7494191	6.6	1.0	<1.0	1.0	7512755
Dissolved Barium (Ba)	ug/L	41	2.0	7494191	74	2.0	30	2.0	7512755
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7494191	<0.40	0.40	<0.40	0.40	7512755
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7494191	<1.0	1.0	<1.0	1.0	7512755
Dissolved Boron (B)	ug/L	200	10	7494191	1100	10	550	10	7512755
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7494191	<0.090	0.090	<0.090	0.090	7512755
Dissolved Calcium (Ca)	ug/L	100000	200	7494191	850000	1000	590000	1000	7512755
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7494191	<5.0	5.0	<5.0	5.0	7512755
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7494191	<0.50	0.50	<0.50	0.50	7512755
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7494191	<0.90	0.90	<0.90	0.90	7512755
Dissolved Iron (Fe)	ug/L	<100	100	7494191	<100	100	<100	100	7512755
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7494191	<0.50	0.50	<0.50	0.50	7512755
Dissolved Lithium (Li)	ug/L	29	5.0	7494191	810	25	57	5.0	7512755
Dissolved Magnesium (Mg)	ug/L	810	50	7494191	140000	50	52000	50	7512755
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7494191	16	2.0	11	2.0	7512755
Dissolved Molybdenum (Mo)	ug/L	40	0.50	7494191	7.2	0.50	7.1	0.50	7512755
Dissolved Nickel (Ni)	ug/L	9.8	1.0	7494191	5.0	1.0	3.7	1.0	7512755
Dissolved Phosphorus (P)	ug/L	<100	100	7494191	<100	100	160	100	7512755
Dissolved Potassium (K)	ug/L	90000	200	7494191	110000	200	67000	200	7512755
Dissolved Selenium (Se)	ug/L	2.6	2.0	7494191	31 (1)	2.0	9.5 (1)	2.0	7512755
Dissolved Silicon (Si)	ug/L	11000	50	7494191	6900	50	9600	50	7512755
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7494191	<0.090	0.090	<0.090	0.090	7512755
Dissolved Sodium (Na)	ug/L	320000	100	7494191	950000	500	560000	500	7512755
Dissolved Strontium (Sr)	ug/L	1700	1.0	7494191	11000	1.0	5200	1.0	7512755
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7494191	<1.0	1.0	<1.0	1.0	7512755
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7494191	<0.050	0.050	<0.050	0.050	7512755
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7494191	<1.0	1.0	<1.0	1.0	7512755
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7494191	<5.0	5.0	<5.0	5.0	7512755
Dissolved Tungsten (W)	ug/L	14	1.0	7494191	5.0	1.0	3.7	1.0	7512755
Dissolved Uranium (U)	ug/L	<0.10	0.10	7494191	0.98	0.10	<0.10	0.10	7512755
Dissolved Vanadium (V)	ug/L	0.85	0.50	7494191	3.1	0.50	0.83	0.50	7512755
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7494191	<5.0	5.0	<5.0	5.0	7512755
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7494191	<1.0	1.0	<1.0	1.0	7512755
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) Selenium values exhibit unusually high variance, possibly due to losses of volatile Se compounds.									



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ370		QFZ371	QFZ372		QFZ373		QFZ377		
Sampling Date		2021/07/28		2021/07/28	2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-04-01		834487-04-01	834487-04-01		834487-04-01		834487-05-01		
	UNITS	P7 III	RDL	P7 IV	G27	RDL	40-I	RDL	P8-I	RDL	QC Batch

Metals											
Dissolved Aluminum (Al)	ug/L	18	4.9	27	230	4.9	5.1	4.9	77	25	7494191
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<2.5	2.5	7494191
Dissolved Arsenic (As)	ug/L	1.3	1.0	1.8	1.3	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Barium (Ba)	ug/L	49	2.0	6.0	66	2.0	16	2.0	47	10	7494191
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	<2.0	2.0	7494191
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Boron (B)	ug/L	860	10	710	180	10	1100	10	2200	50	7494191
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	0.091	0.090	<0.45	0.45	7494191
Dissolved Calcium (Ca)	ug/L	270000	200	110000	370000	200	520000	1000	650000	1000	7494191
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	<25	25	7494191
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.69	0.50	<0.50	0.50	<2.5	2.5	7494191
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	<0.90	0.90	<4.5	4.5	7494191
Dissolved Iron (Fe)	ug/L	<100	100	<100	350	100	250	100	3800	500	7494191
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.80	0.50	0.54	0.50	<2.5	2.5	7494191
Dissolved Lithium (Li)	ug/L	72	5.0	34	26	5.0	120	5.0	240	25	7494191
Dissolved Magnesium (Mg)	ug/L	29000	50	15000	48000	50	96000	50	110000	250	7494191
Dissolved Manganese (Mn)	ug/L	4.2	2.0	5.8	89	2.0	97	2.0	970	10	7494191
Dissolved Molybdenum (Mo)	ug/L	9.1	0.50	72	17	0.50	1.8	0.50	<2.5	2.5	7494191
Dissolved Nickel (Ni)	ug/L	6.8	1.0	15	4.1	1.0	2.2	1.0	<5.0	5.0	7494191
Dissolved Phosphorus (P)	ug/L	130	100	<100	<100	100	<100	100	<500	500	7494191
Dissolved Potassium (K)	ug/L	62000	200	55000	13000	200	29000	200	140000	1000	7494191
Dissolved Selenium (Se)	ug/L	2.5	2.0	<2.0	<2.0	2.0	<2.0	2.0	<10	10	7494191
Dissolved Silicon (Si)	ug/L	5700	50	10000	3700	50	4700	50	23000	250	7494191
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	<0.45	0.45	7494191
Dissolved Sodium (Na)	ug/L	590000	500	200000	160000	100	370000	100	2900000	500	7494191
Dissolved Strontium (Sr)	ug/L	3300	1.0	1700	2700	1.0	4900	1.0	5700	5.0	7494191
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.098	0.050	<0.050	0.050	<0.25	0.25	7494191
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	6.9	5.0	<5.0	5.0	<25	25	7494191
Dissolved Tungsten (W)	ug/L	7.1	1.0	13	1.5	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Uranium (U)	ug/L	0.20	0.10	<0.10	3.0	0.10	0.59	0.10	<0.50	0.50	7494191
Dissolved Vanadium (V)	ug/L	0.85	0.50	1.4	0.61	0.50	<0.50	0.50	4.0	2.5	7494191
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	38	5.0	5.1	5.0	<25	25	7494191
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7494191

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ378	QFZ379	QFZ380		QFZ381		QFZ382		
Sampling Date		2021/07/28	2021/07/28	2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-05-01	834487-05-01	834487-05-01		834487-05-01		834487-05-01		
	UNITS	P8-II	P11-II	14-I	RDL	44-I	RDL	44-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	14	<4.9	6.6	4.9	<4.9	4.9	<4.9	4.9	7494191
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	1.4	1.0	7494191
Dissolved Barium (Ba)	ug/L	32	11	12	2.0	19	2.0	43	2.0	7494191
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7494191
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Boron (B)	ug/L	130	330	100	10	280	10	41	10	7494191
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.24	0.090	<0.090	0.090	<0.090	0.090	7494191
Dissolved Calcium (Ca)	ug/L	330000	190000	140000	200	440000	1000	120000	200	7494191
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Cobalt (Co)	ug/L	3.1	<0.50	3.0	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7494191
Dissolved Iron (Fe)	ug/L	690	<100	160	100	<100	100	300	100	7494191
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.67	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Lithium (Li)	ug/L	29	79	86	5.0	73	5.0	33	5.0	7494191
Dissolved Magnesium (Mg)	ug/L	77000	70000	130000	50	52000	50	53000	50	7494191
Dissolved Manganese (Mn)	ug/L	230	65	100	2.0	44	2.0	35	2.0	7494191
Dissolved Molybdenum (Mo)	ug/L	13	<0.50	0.82	0.50	<0.50	0.50	0.72	0.50	7494191
Dissolved Nickel (Ni)	ug/L	8.5	<1.0	3.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	100	<100	100	<100	100	7494191
Dissolved Potassium (K)	ug/L	5600	9300	4000	200	13000	200	2400	200	7494191
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7494191
Dissolved Silicon (Si)	ug/L	3700	4300	7400	50	3900	50	7600	50	7494191
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7494191
Dissolved Sodium (Na)	ug/L	130000	92000	36000	100	260000	100	22000	100	7494191
Dissolved Strontium (Sr)	ug/L	2700	4800	2300	1.0	11000	1.0	860	1.0	7494191
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Thallium (Tl)	ug/L	0.23	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7494191
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Uranium (U)	ug/L	6.1	<0.10	10	0.10	<0.10	0.10	2.8	0.10	7494191
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Zinc (Zn)	ug/L	220	<5.0	12	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ383	QFZ384		QFZ385		QFZ386		
Sampling Date		2021/07/28	2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-05-01	834487-05-01		834487-05-01		834487-05-01		
	UNITS	45-I	45-II	RDL	76-I	RDL	76-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<250	250	<4.9	4.9	7494191
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<25	25	<0.50	0.50	7494191
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Barium (Ba)	ug/L	47	41	2.0	100	100	51	2.0	7494191
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<20	20	<0.40	0.40	7494191
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Boron (B)	ug/L	36	40	10	7400	500	100	10	7494191
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<4.5	4.5	<0.090	0.090	7494191
Dissolved Calcium (Ca)	ug/L	110000	120000	200	10000000	10000	220000	200	7494191
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<250	250	<5.0	5.0	7494191
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<25	25	<0.50	0.50	7494191
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<45	45	<0.90	0.90	7494191
Dissolved Iron (Fe)	ug/L	240	<100	100	<5000	5000	<100	100	7494191
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<25	25	1.5	0.50	7494191
Dissolved Lithium (Li)	ug/L	28	27	5.0	20000	250	25	5.0	7494191
Dissolved Magnesium (Mg)	ug/L	36000	39000	50	2600000	2500	60000	50	7494191
Dissolved Manganese (Mn)	ug/L	32	36	2.0	1300	100	47	2.0	7494191
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	<25	25	0.54	0.50	7494191
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	<50	50	4.1	1.0	7494191
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<5000	5000	<100	100	7494191
Dissolved Potassium (K)	ug/L	2600	4100	200	260000	10000	4300	200	7494191
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<100	100	<2.0	2.0	7494191
Dissolved Silicon (Si)	ug/L	5000	4900	50	3800	2500	5900	50	7494191
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<4.5	4.5	<0.090	0.090	7494191
Dissolved Sodium (Na)	ug/L	17000	60000	100	16000000	5000	380000	100	7494191
Dissolved Strontium (Sr)	ug/L	2100	740	1.0	190000	50	1200	1.0	7494191
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<2.5	2.5	<0.050	0.050	7494191
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<250	250	<5.0	5.0	7494191
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Uranium (U)	ug/L	0.20	0.96	0.10	<5.0	5.0	3.2	0.10	7494191
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<25	25	<0.50	0.50	7494191
Dissolved Zinc (Zn)	ug/L	14	41	5.0	<250	250	140	5.0	7494191
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ387		QFZ388		QFZ389		QFZ390		
Sampling Date		2021/07/28		2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-06-01		834487-06-01		834487-06-01		834487-06-01		
	UNITS	76-III	RDL	67-I	RDL	4-II	RDL	3-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	7.0	4.9	<4.9	4.9	<4.9	4.9	<4.9	4.9	7493067
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493067
Dissolved Arsenic (As)	ug/L	1.1	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Barium (Ba)	ug/L	34	2.0	18	2.0	17	2.0	16	2.0	7493067
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7493067
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Boron (B)	ug/L	99	10	1100	10	1100	10	1100	10	7493067
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7493067
Dissolved Calcium (Ca)	ug/L	180000	200	490000	400	470000	1000	500000	1000	7493067
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493067
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493067
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7493067
Dissolved Iron (Fe)	ug/L	340	100	<100	100	<100	100	230	100	7493067
Dissolved Lead (Pb)	ug/L	1.2	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493067
Dissolved Lithium (Li)	ug/L	19	5.0	130	5.0	120	5.0	110	5.0	7493067
Dissolved Magnesium (Mg)	ug/L	50000	50	62000	50	63000	50	92000	50	7493067
Dissolved Manganese (Mn)	ug/L	53	2.0	45	2.0	46	2.0	98	2.0	7493067
Dissolved Molybdenum (Mo)	ug/L	0.51	0.50	<0.50	0.50	<0.50	0.50	1.7	0.50	7493067
Dissolved Nickel (Ni)	ug/L	2.8	1.0	1.5	1.0	1.4	1.0	1.8	1.0	7493067
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	<100	100	7493067
Dissolved Potassium (K)	ug/L	4100	200	62000	200	63000	200	30000	200	7493067
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7.6	2.0	4.5	2.0	<2.0	2.0	7493067
Dissolved Silicon (Si)	ug/L	6200	50	6700	50	7100	50	4900	50	7493067
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7493067
Dissolved Sodium (Na)	ug/L	300000	100	730000	500	740000	500	350000	100	7493067
Dissolved Strontium (Sr)	ug/L	1100	1.0	8900	1.0	8800	1.0	4900	1.0	7493067
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7493067
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493067
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Uranium (U)	ug/L	2.3	0.10	0.14	0.10	0.11	0.10	0.51	0.10	7493067
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493067
Dissolved Zinc (Zn)	ug/L	110	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493067
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ391		QFZ392	QFZ393		QFZ394		
Sampling Date		2021/07/28		2021/07/28	2021/07/28		2021/07/28		
COC Number		834487-06-01		834487-06-01	834487-06-01		834487-06-01		
	UNITS	46-IR	RDL	46-IIR	46-IIIR	QC Batch	31-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	27	7493067	<4.9	4.9	7512755
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	7493067	<0.50	0.50	7512755
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Barium (Ba)	ug/L	21	2.0	68	45	7493067	47	2.0	7512755
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	7493067	<0.40	0.40	7512755
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Boron (B)	ug/L	810	10	210	110	7493067	50	10	7512755
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.37	7493067	<0.090	0.090	7512755
Dissolved Calcium (Ca)	ug/L	610000	1000	240000	220000	7493067	56000	200	7512755
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	7493067	<5.0	5.0	7512755
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	7493067	<0.50	0.50	7512755
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	1.4	7493067	12	0.90	7512755
Dissolved Iron (Fe)	ug/L	<100	100	160	<100	7493067	<100	100	7512755
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	7493067	<0.50	0.50	7512755
Dissolved Lithium (Li)	ug/L	120	5.0	40	12	7493067	23	5.0	7512755
Dissolved Magnesium (Mg)	ug/L	73000	50	87000	78000	7493067	2400	50	7512755
Dissolved Manganese (Mn)	ug/L	100	2.0	150	160	7493067	<2.0	2.0	7512755
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	2.8	7493067	8.2	0.50	7512755
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	3.4	7493067	2.1	1.0	7512755
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	7493067	<100	100	7512755
Dissolved Potassium (K)	ug/L	63000	200	11000	2400	7493067	9500	200	7512755
Dissolved Selenium (Se)	ug/L	5.0	2.0	<2.0	<2.0	7493067	<2.0	2.0	7512755
Dissolved Silicon (Si)	ug/L	4100	50	5000	5900	7493067	1100	50	7512755
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	7493067	<0.090	0.090	7512755
Dissolved Sodium (Na)	ug/L	820000	500	210000	160000	7493067	22000	100	7512755
Dissolved Strontium (Sr)	ug/L	9100	1.0	3300	790	7493067	350	1.0	7512755
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	7493067	<0.050	0.050	7512755
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	7493067	<5.0	5.0	7512755
Dissolved Tungsten (W)	ug/L	1.2	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Uranium (U)	ug/L	0.11	0.10	1.1	5.9	7493067	<0.10	0.10	7512755
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	7493067	0.83	0.50	7512755
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	17	7493067	<5.0	5.0	7512755
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ395		
Sampling Date		2021/07/28		
COC Number		834487-06-01		
	UNITS	58-I	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	1500	4.9	7493067
Dissolved Antimony (Sb)	ug/L	29	0.50	7493067
Dissolved Arsenic (As)	ug/L	96	1.0	7493067
Dissolved Barium (Ba)	ug/L	30	2.0	7493067
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7493067
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7493067
Dissolved Boron (B)	ug/L	570	10	7493067
Dissolved Cadmium (Cd)	ug/L	<1.5 (1)	1.5	7493067
Dissolved Calcium (Ca)	ug/L	53000	200	7493067
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7493067
Dissolved Cobalt (Co)	ug/L	1.5	0.50	7493067
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7493067
Dissolved Iron (Fe)	ug/L	<100	100	7493067
Dissolved Lead (Pb)	ug/L	15	0.50	7493067
Dissolved Lithium (Li)	ug/L	66	5.0	7493067
Dissolved Magnesium (Mg)	ug/L	71	50	7493067
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7493067
Dissolved Molybdenum (Mo)	ug/L	950	0.50	7493067
Dissolved Nickel (Ni)	ug/L	140	1.0	7493067
Dissolved Phosphorus (P)	ug/L	360	100	7493067
Dissolved Potassium (K)	ug/L	380000	1000	7493067
Dissolved Selenium (Se)	ug/L	3.1	2.0	7493067
Dissolved Silicon (Si)	ug/L	17000	50	7493067
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7493067
Dissolved Sodium (Na)	ug/L	1100000	500	7493067
Dissolved Strontium (Sr)	ug/L	270	1.0	7493067
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7493067
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7493067
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7493067
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7493067
Dissolved Tungsten (W)	ug/L	130	1.0	7493067
Dissolved Uranium (U)	ug/L	<0.10	0.10	7493067
Dissolved Vanadium (V)	ug/L	70	0.50	7493067
Dissolved Zinc (Zn)	ug/L	5.8	5.0	7493067
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Metals Analysis: Detection Limit was raised due to matrix interferences.				



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ395		
Sampling Date		2021/07/28		
COC Number		834487-06-01		
	UNITS	58-I	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7493067
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ364
Sample ID: 35-IV
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ364 Dup
Sample ID: 35-IV
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti

BV Labs ID: QFZ365
Sample ID: P16
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ365 Dup
Sample ID: P16
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai

BV Labs ID: QFZ366
Sample ID: P17
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ367
Sample ID: P12
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ368
Sample ID: P7 IR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7531698	N/A	2021/08/20	Surinder Rai
Anions	IC	7530620	N/A	2021/08/20	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512755	N/A	2021/08/16	Nan Raykha
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ369
Sample ID: P7 II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7512902	N/A	2021/08/11	Surinder Rai
Anions	IC	7530620	N/A	2021/08/20	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512755	N/A	2021/08/16	Nan Raykha
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ369 Dup
Sample ID: P7 II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7530620	N/A	2021/08/20	Fari Dehdezi
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ370
Sample ID: P7 III
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ371
Sample ID: P7 IV
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/05	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/04	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ372
Sample ID: G27
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ372
Sample ID: G27
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ372 Dup
Sample ID: G27
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan

BV Labs ID: QFZ373
Sample ID: 40-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ373 Dup
Sample ID: 40-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ377
Sample ID: P8-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ378
Sample ID: P8-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ378 Dup
Sample ID: P8-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ379
Sample ID: P11-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ380
Sample ID: 14-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ380 Dup
Sample ID: 14-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ381
Sample ID: 44-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ381 Dup
Sample ID: 44-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/04	Chandra Nandlal

BV Labs ID: QFZ382
Sample ID: 44-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7494243	2021/07/30	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ382 Dup
Sample ID: 44-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall

BV Labs ID: QFZ383
Sample ID: 45-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ384
Sample ID: 45-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7492497	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ385
Sample ID: 76-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7492497	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/04	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/04	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ386
Sample ID: 76-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7492497	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ387
Sample ID: 76-III
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ387
Sample ID: 76-III
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ388
Sample ID: 67-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ389
Sample ID: 4-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ389
Sample ID: 4-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ390
Sample ID: 3-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ391
Sample ID: 46-IR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ392
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ392 Dup
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi

BV Labs ID: QFZ393
Sample ID: 46-IIIR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ394
Sample ID: 31-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7531698	N/A	2021/08/20	Surinder Rai
Anions	IC	7530620	N/A	2021/08/20	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512755	N/A	2021/08/13	Nan Raykha
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ394 Dup
Sample ID: 31-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ395
Sample ID: 58-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ395 Dup
Sample ID: 58-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan



GENERAL COMMENTS

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

Package 1	2.7°C
Package 2	1.7°C
Package 3	3.3°C
Package 4	2.3°C
Package 5	2.3°C

Sample QFZ368 [P7 IR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFZ377 [P8-I] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFZ385 [76-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.

Sample QFZ388 [67-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFZ389 [4-II] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFZ391 [46-IR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

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
7493067	Dissolved Aluminum (Al)	2021/08/04	99	80 - 120	100	80 - 120	<4.9	ug/L				
7493067	Dissolved Antimony (Sb)	2021/08/04	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493067	Dissolved Arsenic (As)	2021/08/04	99	80 - 120	100	80 - 120	<1.0	ug/L	1.6	20		
7493067	Dissolved Barium (Ba)	2021/08/04	101	80 - 120	98	80 - 120	<2.0	ug/L	1.7	20		
7493067	Dissolved Beryllium (Be)	2021/08/04	97	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7493067	Dissolved Bismuth (Bi)	2021/08/04	103	80 - 120	107	80 - 120	<1.0	ug/L				
7493067	Dissolved Boron (B)	2021/08/04	92	80 - 120	93	80 - 120	<10	ug/L	0.90	20		
7493067	Dissolved Cadmium (Cd)	2021/08/04	100	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7493067	Dissolved Calcium (Ca)	2021/08/04	NC	80 - 120	100	80 - 120	<200	ug/L				
7493067	Dissolved Chromium (Cr)	2021/08/04	98	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7493067	Dissolved Cobalt (Co)	2021/08/04	98	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7493067	Dissolved Copper (Cu)	2021/08/04	101	80 - 120	104	80 - 120	<0.90	ug/L	5.0	20		
7493067	Dissolved Iron (Fe)	2021/08/04	98	80 - 120	98	80 - 120	<100	ug/L				
7493067	Dissolved Lead (Pb)	2021/08/04	99	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7493067	Dissolved Lithium (Li)	2021/08/04	97	80 - 120	102	80 - 120	<5.0	ug/L				
7493067	Dissolved Magnesium (Mg)	2021/08/04	NC	80 - 120	100	80 - 120	<50	ug/L				
7493067	Dissolved Manganese (Mn)	2021/08/04	98	80 - 120	98	80 - 120	<2.0	ug/L				
7493067	Dissolved Molybdenum (Mo)	2021/08/04	103	80 - 120	100	80 - 120	<0.50	ug/L	5.5	20		
7493067	Dissolved Nickel (Ni)	2021/08/04	94	80 - 120	97	80 - 120	<1.0	ug/L	3.8	20		
7493067	Dissolved Phosphorus (P)	2021/08/04	107	80 - 120	105	80 - 120	<100	ug/L				
7493067	Dissolved Potassium (K)	2021/08/04	101	80 - 120	102	80 - 120	<200	ug/L				
7493067	Dissolved Selenium (Se)	2021/08/04	99	80 - 120	102	80 - 120	<2.0	ug/L	NC	20		
7493067	Dissolved Silicon (Si)	2021/08/04	102	80 - 120	102	80 - 120	<50	ug/L				
7493067	Dissolved Silver (Ag)	2021/08/04	97	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7493067	Dissolved Sodium (Na)	2021/08/04	NC	80 - 120	102	80 - 120	<100	ug/L	2.8	20		
7493067	Dissolved Strontium (Sr)	2021/08/04	NC	80 - 120	95	80 - 120	<1.0	ug/L				
7493067	Dissolved Tellurium (Te)	2021/08/04	99	80 - 120	102	80 - 120	<1.0	ug/L				
7493067	Dissolved Thallium (Tl)	2021/08/04	106	80 - 120	105	80 - 120	<0.050	ug/L	NC	20		
7493067	Dissolved Tin (Sn)	2021/08/04	103	80 - 120	103	80 - 120	<1.0	ug/L				
7493067	Dissolved Titanium (Ti)	2021/08/04	98	80 - 120	98	80 - 120	<5.0	ug/L				
7493067	Dissolved Tungsten (W)	2021/08/04	101	80 - 120	103	80 - 120	<1.0	ug/L				



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

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
7493067	Dissolved Uranium (U)	2021/08/04	97	80 - 120	103	80 - 120	<0.10	ug/L	7.0	20		
7493067	Dissolved Vanadium (V)	2021/08/04	97	80 - 120	97	80 - 120	<0.50	ug/L	4.9	20		
7493067	Dissolved Zinc (Zn)	2021/08/04	98	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7493067	Dissolved Zirconium (Zr)	2021/08/04	101	80 - 120	100	80 - 120	<1.0	ug/L				
7493184	Phenols-4AAP	2021/07/30	102	80 - 120	101	80 - 120	<0.0010	mg/L	0	20		
7493492	Total Kjeldahl Nitrogen (TKN)	2021/08/04	113	80 - 120	96	80 - 120	<0.10	mg/L	13	20	104	80 - 120
7493500	Phenols-4AAP	2021/07/30	97	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7493517	Total Organic Carbon (TOC)	2021/07/31	97	80 - 120	97	80 - 120	<0.40	mg/L	1.9	20		
7493722	Total Ammonia-N	2021/08/04	99	75 - 125	97	80 - 120	<0.050	mg/L	NC	20		
7493807	Total Dissolved Solids	2021/08/04					<10	mg/L	5.4	25	98	90 - 110
7493848	Total Kjeldahl Nitrogen (TKN)	2021/08/05	NC	80 - 120	98	80 - 120	<0.10	mg/L	2.6	20	105	80 - 120
7494080	Fluoride (F-)	2021/08/04	117	80 - 120	95	80 - 120	<0.10	mg/L	0.46	20		
7494085	Alkalinity (Total as CaCO3)	2021/08/04			97	85 - 115	<1.0	mg/L	0.80	20		
7494086	Conductivity	2021/08/04			101	85 - 115	<1.0	umho/cm	0	25		
7494087	pH	2021/08/04			102	98 - 103			0.21	N/A		
7494104	Fluoride (F-)	2021/08/03	106	80 - 120	102	80 - 120	<0.10	mg/L	0.46	20		
7494114	Alkalinity (Total as CaCO3)	2021/08/03			95	85 - 115	<1.0	mg/L	0.23	20		
7494123	Conductivity	2021/08/03			100	85 - 115	<1.0	umho/cm	0.79	25		
7494124	pH	2021/08/03			102	98 - 103			0.24	N/A		
7494172	Dissolved Bromide (Br-)	2021/08/04	101	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7494172	Dissolved Chloride (Cl-)	2021/08/04	NC	80 - 120	98	70 - 130	<1.0	mg/L	3.4	20		
7494172	Dissolved Sulphate (SO4)	2021/08/04	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.88	20		
7494189	Nitrate (N)	2021/08/03	100	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
7494189	Nitrite (N)	2021/08/03	104	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7494191	Dissolved Aluminum (Al)	2021/08/05	113	80 - 120	102	80 - 120	<4.9	ug/L	1.7	20		
7494191	Dissolved Antimony (Sb)	2021/08/05	84	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7494191	Dissolved Arsenic (As)	2021/08/05	102	80 - 120	99	80 - 120	<1.0	ug/L	1.4	20		
7494191	Dissolved Barium (Ba)	2021/08/05	100	80 - 120	102	80 - 120	<2.0	ug/L	0.22	20		
7494191	Dissolved Beryllium (Be)	2021/08/05	93	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

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
7494191	Dissolved Bismuth (Bi)	2021/08/05	47 (1)	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7494191	Dissolved Boron (B)	2021/08/05	NC	80 - 120	98	80 - 120	<10	ug/L	2.2	20		
7494191	Dissolved Cadmium (Cd)	2021/08/05	94	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7494191	Dissolved Calcium (Ca)	2021/08/05	NC	80 - 120	100	80 - 120	<200	ug/L	1.1	20		
7494191	Dissolved Chromium (Cr)	2021/08/05	103	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7494191	Dissolved Cobalt (Co)	2021/08/05	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7494191	Dissolved Copper (Cu)	2021/08/05	73 (1)	80 - 120	104	80 - 120	<0.90	ug/L	NC	20		
7494191	Dissolved Iron (Fe)	2021/08/05	101	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7494191	Dissolved Lead (Pb)	2021/08/05	94	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7494191	Dissolved Lithium (Li)	2021/08/05	NC	80 - 120	104	80 - 120	<5.0	ug/L	0.27	20		
7494191	Dissolved Magnesium (Mg)	2021/08/05	NC	80 - 120	101	80 - 120	<50	ug/L	1.7	20		
7494191	Dissolved Manganese (Mn)	2021/08/05	99	80 - 120	99	80 - 120	<2.0	ug/L	1.6	20		
7494191	Dissolved Molybdenum (Mo)	2021/08/05	101	80 - 120	100	80 - 120	<0.50	ug/L	0.053	20		
7494191	Dissolved Nickel (Ni)	2021/08/05	96	80 - 120	97	80 - 120	<1.0	ug/L	2.4	20		
7494191	Dissolved Phosphorus (P)	2021/08/05	109	80 - 120	117	80 - 120	<100	ug/L	2.7	20		
7494191	Dissolved Potassium (K)	2021/08/05	NC	80 - 120	102	80 - 120	<200	ug/L	1.2	20		
7494191	Dissolved Selenium (Se)	2021/08/05	36 (1)	80 - 120	96	80 - 120	<2.0	ug/L	NC	20		
7494191	Dissolved Silicon (Si)	2021/08/05	110	80 - 120	102	80 - 120	<50	ug/L	7.8	20		
7494191	Dissolved Silver (Ag)	2021/08/05	44 (1)	80 - 120	82	80 - 120	<0.090	ug/L	NC	20		
7494191	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	100	80 - 120	<100	ug/L	2.1	20		
7494191	Dissolved Strontium (Sr)	2021/08/05	NC	80 - 120	100	80 - 120	<1.0	ug/L	0.20	20		
7494191	Dissolved Tellurium (Te)	2021/08/05	43 (1)	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7494191	Dissolved Thallium (Tl)	2021/08/05	95	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
7494191	Dissolved Tin (Sn)	2021/08/05	102	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7494191	Dissolved Titanium (Ti)	2021/08/05	105	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7494191	Dissolved Tungsten (W)	2021/08/05	107	80 - 120	97	80 - 120	<1.0	ug/L	2.2	20		
7494191	Dissolved Uranium (U)	2021/08/05	104	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
7494191	Dissolved Vanadium (V)	2021/08/05	109	80 - 120	99	80 - 120	<0.50	ug/L	3.4	20		
7494191	Dissolved Zinc (Zn)	2021/08/05	89	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7494191	Dissolved Zirconium (Zr)	2021/08/05	114	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7494215	Nitrate (N)	2021/08/03	98	80 - 120	105	80 - 120	<0.10	mg/L	1.2	20		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

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
7494215	Nitrite (N)	2021/08/03	103	80 - 120	104	80 - 120	<0.010	mg/L	4.5	20		
7494228	Nitrate (N)	2021/08/04	104	80 - 120	106	80 - 120	<0.10	mg/L	NC	20		
7494228	Nitrite (N)	2021/08/04	105	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7494236	Total Ammonia-N	2021/08/04	101	75 - 125	98	80 - 120	<0.050	mg/L	17	20		
7494241	Orthophosphate (P)	2021/08/04	96	75 - 125	100	80 - 120	<0.010	mg/L	1.7	25		
7494243	Total Kjeldahl Nitrogen (TKN)	2021/08/03	NC	80 - 120	100	80 - 120	<0.10	mg/L	NC	20	100	80 - 120
7494260	Total Organic Carbon (TOC)	2021/07/31	97	80 - 120	100	80 - 120	<0.40	mg/L	0.69	20		
7494283	Orthophosphate (P)	2021/08/05	101	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7495524	Total Dissolved Solids	2021/08/04					<10	mg/L	0.26	25	100	90 - 110
7495625	Dissolved Bromide (Br-)	2021/08/04	104	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7495625	Dissolved Chloride (Cl-)	2021/08/04	NC	80 - 120	97	70 - 130	<1.0	mg/L	3.6	20		
7495625	Dissolved Sulphate (SO4)	2021/08/04	NC	80 - 120	97	80 - 120	<1.0	mg/L	4.1	20		
7512755	Dissolved Aluminum (Al)	2021/08/13	90	80 - 120	97	80 - 120	<4.9	ug/L				
7512755	Dissolved Antimony (Sb)	2021/08/13	100	80 - 120	104	80 - 120	<0.50	ug/L				
7512755	Dissolved Arsenic (As)	2021/08/13	92	80 - 120	98	80 - 120	<1.0	ug/L				
7512755	Dissolved Barium (Ba)	2021/08/13	94	80 - 120	100	80 - 120	<2.0	ug/L				
7512755	Dissolved Beryllium (Be)	2021/08/13	89	80 - 120	99	80 - 120	<0.40	ug/L				
7512755	Dissolved Bismuth (Bi)	2021/08/13	86	80 - 120	99	80 - 120	<1.0	ug/L				
7512755	Dissolved Boron (B)	2021/08/13	NC	80 - 120	91	80 - 120	<10	ug/L	0.41	20		
7512755	Dissolved Cadmium (Cd)	2021/08/13	93	80 - 120	100	80 - 120	<0.090	ug/L				
7512755	Dissolved Calcium (Ca)	2021/08/13	NC	80 - 120	97	80 - 120	<200	ug/L	0.35	20		
7512755	Dissolved Chromium (Cr)	2021/08/13	88	80 - 120	97	80 - 120	<5.0	ug/L				
7512755	Dissolved Cobalt (Co)	2021/08/13	89	80 - 120	97	80 - 120	<0.50	ug/L				
7512755	Dissolved Copper (Cu)	2021/08/13	92	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
7512755	Dissolved Iron (Fe)	2021/08/13	87	80 - 120	95	80 - 120	<100	ug/L	NC	20		
7512755	Dissolved Lead (Pb)	2021/08/13	86	80 - 120	99	80 - 120	<0.50	ug/L				
7512755	Dissolved Lithium (Li)	2021/08/13	NC	80 - 120	104	80 - 120	<5.0	ug/L				
7512755	Dissolved Magnesium (Mg)	2021/08/13	NC	80 - 120	99	80 - 120	<50	ug/L	0.096	20		
7512755	Dissolved Manganese (Mn)	2021/08/13	NC	80 - 120	96	80 - 120	<2.0	ug/L	0.13	20		
7512755	Dissolved Molybdenum (Mo)	2021/08/13	101	80 - 120	102	80 - 120	<0.50	ug/L				
7512755	Dissolved Nickel (Ni)	2021/08/13	83	80 - 120	94	80 - 120	<1.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C1L4129

Report Date: 2021/08/20

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

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
7512755	Dissolved Phosphorus (P)	2021/08/13	102	80 - 120	106	80 - 120	<100	ug/L				
7512755	Dissolved Potassium (K)	2021/08/13	NC	80 - 120	98	80 - 120	<200	ug/L	0.47	20		
7512755	Dissolved Selenium (Se)	2021/08/13	87	80 - 120	96	80 - 120	<2.0	ug/L				
7512755	Dissolved Silicon (Si)	2021/08/13	94	80 - 120	99	80 - 120	<50	ug/L	0.92	20		
7512755	Dissolved Silver (Ag)	2021/08/13	84	80 - 120	95	80 - 120	<0.090	ug/L				
7512755	Dissolved Sodium (Na)	2021/08/13	NC	80 - 120	97	80 - 120	<100	ug/L	1.2	20		
7512755	Dissolved Strontium (Sr)	2021/08/13	NC	80 - 120	96	80 - 120	<1.0	ug/L				
7512755	Dissolved Tellurium (Te)	2021/08/13	95	80 - 120	99	80 - 120	<1.0	ug/L				
7512755	Dissolved Thallium (Tl)	2021/08/13	88	80 - 120	99	80 - 120	<0.050	ug/L				
7512755	Dissolved Tin (Sn)	2021/08/13	99	80 - 120	102	80 - 120	<1.0	ug/L				
7512755	Dissolved Titanium (Ti)	2021/08/13	88	80 - 120	92	80 - 120	<5.0	ug/L				
7512755	Dissolved Tungsten (W)	2021/08/13	93	80 - 120	103	80 - 120	<1.0	ug/L				
7512755	Dissolved Uranium (U)	2021/08/13	90	80 - 120	100	80 - 120	<0.10	ug/L				
7512755	Dissolved Vanadium (V)	2021/08/13	91	80 - 120	98	80 - 120	<0.50	ug/L				
7512755	Dissolved Zinc (Zn)	2021/08/13	84	80 - 120	95	80 - 120	<5.0	ug/L	6.2	20		
7512755	Dissolved Zirconium (Zr)	2021/08/13	104	80 - 120	103	80 - 120	<1.0	ug/L				
7512902	Alkalinity (Total as CaCO3)	2021/08/11			96	85 - 115	<1.0	mg/L	0.56	20		
7530620	Dissolved Bromide (Br-)	2021/08/20	101	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7530620	Dissolved Chloride (Cl-)	2021/08/20	NC	80 - 120	98	70 - 130	<1.0	mg/L	4.0	20		
7530620	Dissolved Sulphate (SO4)	2021/08/20	NC	80 - 120	95	80 - 120	<1.0	mg/L	4.8	20		



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

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
7531698	Alkalinity (Total as CaCO3)	2021/08/20			96	85 - 115	<1.0	mg/L	0.46	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) 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 #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

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 "Brad 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.



29-Jul-21 16:05

Jolanta Goralczyk
C1L4129

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:

Barcode: C1L4129
Bottle Order #: 834487
Project Manager: Jolanta Goralczyk
Turnaround Time (TAT) Required: []
Regular (Standard) TAT: []
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)
 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

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

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals Hg / Cr VI	List "A" GW Monitoring													
1	35-IV	July 28 2021	NA	GW	Y	X													
2	P16			GW	Y	X													
3	P17			GW	Y	X													
4	P12			GW	Y	X													
5	P7IR			GW	Y	X													
6	P7II			GW	Y	X													
7	P7III			GW	Y	X													
8	P7IV			GW	Y	X													
9	G27			GW	Y	X													
10	40-I			GW	Y	X													

Turnaround Time (TAT) Required: []
 Regular (Standard) TAT: []
 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 #)
 # of Bottles: 6
 Comments:

* RELINQUISHED BY: (Signature/Print) Dan Taylor Date: (YY/MM/DD) 21/07/29 Time 10:45
 RECEIVED BY: (Signature/Print) Y. THOMPSON Date: (YY/MM/DD) 21/07/29 Time 16:05
 # jars used and not submitted

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recept SEE ACTR	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

ICE: Y



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 #:		
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #:	COC #:		Project Manager:		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: GW	COC #:		Project Manager: Jolanta Goralczyk		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: bmulin@terrapureenv.com Fax: dtaylor2@terrapureenv.com	Project Name:	COC #:		Project Manager: Jolanta Goralczyk		
Email: kbailey@terrapureenv.com	Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:	COC #:		Project Manager: Jolanta Goralczyk		
		Sampled By:	COC #:		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 <u>Y</u> / Cr VI	Let "A" GW Monitoring													Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. <input checked="" type="checkbox"/>	
<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 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 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw														Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ <input type="checkbox"/>			
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____														Rush Confirmation Number: _____ (call lab for #)			
<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													# of Bottles	Comments			
1	11 PB-I	July 23 2021	NA	GW	Y	X											6				
2	11 PB-II			GW	Y	X											6				
3	11 P11-II			GW	Y	X											6				
4	11 14-I			GW	Y	X											6				
5	11 44-I			GW	Y	X											6				
6	11 44-II			GW	Y	X											6				
7	11 45-I			GW	Y	X											6				
8	11 45-II			GW	Y	X											6				
9	11 76-I			GW	Y	X											6				
10	11 76-II			GW	Y	X											6				

* RELINQUISHED BY: (Signature/Print) Dan Taylor		Date: (YY/MM/DD) 21/07/21	Time 10:45	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.

** 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 #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address: Stoney Creek ON L8J 1X5		Project: GW		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Project Name:		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Site #:		Jolanta Goralczyk	
				Sampled By:		C#834487-06-01	

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											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>		
Include Criteria on Certificate of Analysis (Y/N)?																					
Table 1	Res/Park	Medium/Fine	CCME	Sanitary Sewer Bylaw		Date Sampled	Time Sampled	Matrix													
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		July 23 2021	NA	GW	Y	X										6	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				GW	Y	X											6

* 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		2/07/29	10:45	SEE PAGE 1					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.

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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



Your Project #: GW
 Your C.O.C. #: 834487-07-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/06
 Report #: R6753349
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L5654

Received: 2021/07/30, 09:30

Sample Matrix: Water
 # Samples Received: 10

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	1	N/A	2021/08/03	CAM SOP-00448	SM 23 2320 B m
Alkalinity	9	N/A	2021/08/04	CAM SOP-00448	SM 23 2320 B m
Anions	10	N/A	2021/08/03	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/08/03	CAM SOP-00414	SM 23 2510 m
Conductivity	9	N/A	2021/08/04	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/07/31	2021/08/03	CAM SOP-00449	SM 23 4500-F C m
Fluoride	9	2021/07/31	2021/08/04	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	10	N/A	2021/08/05	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	10	N/A	2021/08/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	10	N/A	2021/08/05	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	9	N/A	2021/08/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/07/31	2021/08/03	CAM SOP-00413	SM 4500H+ B m
pH	9	2021/07/31	2021/08/04	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	9	N/A	2021/08/03	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/08/04	CAM SOP-00444	OMOE E3179 m
Orthophosphate	10	N/A	2021/08/05	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	10	2021/08/04	2021/08/05	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/08/03	2021/08/05	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	8	2021/08/03	2021/08/06	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	1	2021/08/04	2021/08/05	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	8	N/A	2021/08/04	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	2	N/A	2021/08/05	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.



Your Project #: GW
Your C.O.C. #: 834487-07-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/06
Report #: R6753349
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L5654
Received: 2021/07/30, 09:30

Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
06 Aug 2021 15:16:13

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 #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGI007			QGI008			QGI008		
Sampling Date		2021/07/29			2021/07/29			2021/07/29		
COC Number		834487-07-01			834487-07-01			834487-07-01		
	UNITS	42-II	RDL	QC Batch	42-III	RDL	QC Batch	42-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7494734	1900	1.0	7494734			
Inorganics										
Total Ammonia-N	mg/L	19	0.050	7497938	6.9	0.050	7497938			
Conductivity	umho/cm	4700	1.0	7495737	5200	1.0	7495737			
Total Dissolved Solids	mg/L	3520	10	7497033	2810	10	7497033			
Fluoride (F-)	mg/L	1.3	0.10	7495734	1.1	0.10	7495734			
Total Kjeldahl Nitrogen (TKN)	mg/L	22	1.0	7497849	8.0	1.0	7500379			
Total Organic Carbon (TOC)	mg/L	9.8	0.40	7497814	19	0.40	7500215	19	0.40	7500215
Orthophosphate (P)	mg/L	<0.010	0.010	7495779	0.016	0.010	7495779	0.015	0.010	7495779
pH	pH	7.47		7495738	7.78		7495738			
Phenols-4AAP	mg/L	0.14	0.010	7496914	0.0011	0.0010	7496943			
Alkalinity (Total as CaCO3)	mg/L	140	1.0	7495736	300	1.0	7495736			
Nitrite (N)	mg/L	<0.010	0.010	7495745	<0.010	0.010	7495745	<0.010	0.010	7495745
Dissolved Chloride (Cl-)	mg/L	630	10	7495770	1200	10	7495770			
Nitrate (N)	mg/L	<0.10	0.10	7495745	<0.10	0.10	7495745	<0.10	0.10	7495745
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7495745	<0.10	0.10	7495745	<0.10	0.10	7495745
Dissolved Bromide (Br-)	mg/L	<10	10	7495770	<10	10	7495770			
Dissolved Sulphate (SO4)	mg/L	1700	10	7495770	980	10	7495770			

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



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGI009			QGI009			QGI010		
Sampling Date		2021/07/29			2021/07/29			2021/07/29		
COC Number		834487-07-01			834487-07-01			834487-07-01		
	UNITS	P5-IR	RDL	QC Batch	P5-IR Lab-Dup	RDL	QC Batch	P5-IIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1800	1.0	7494734				1800	1.0	7494734
Inorganics										
Total Ammonia-N	mg/L	55 (1)	0.25	7497938				1.9	0.050	7497938
Conductivity	umho/cm	7100	1.0	7495798	7100	1.0	7495798	3500	1.0	7495737
Total Dissolved Solids	mg/L	4750	20	7497033				2970	10	7497033
Fluoride (F-)	mg/L	1.6	0.10	7495793	1.7	0.10	7495793	0.58	0.10	7495734
Total Kjeldahl Nitrogen (TKN)	mg/L	55 (1)	2.0	7497849				2.2	0.10	7497849
Total Organic Carbon (TOC)	mg/L	11	0.40	7497814				2.6	0.40	7500215
Orthophosphate (P)	mg/L	0.011	0.010	7495779				<0.010	0.010	7495779
pH	pH	7.40		7495802	7.42		7495802	7.70		7495738
Phenols-4AAP	mg/L	0.0091	0.0050	7496943				<0.0010	0.0010	7496943
Alkalinity (Total as CaCO3)	mg/L	72	1.0	7495796	72	1.0	7495796	250	1.0	7495736
Nitrite (N)	mg/L	<0.010	0.010	7495745				<0.010	0.010	7495739
Dissolved Chloride (Cl-)	mg/L	1300	10	7495770	1300	10	7495770	380	10	7495770
Nitrate (N)	mg/L	<0.10	0.10	7495745				<0.10	0.10	7495739
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7495745				<0.10	0.10	7495739
Dissolved Bromide (Br-)	mg/L	<10	10	7495770	<10	10	7495770	<10	10	7495770
Dissolved Sulphate (SO4)	mg/L	1700	10	7495770	1700	10	7495770	1300	10	7495770

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



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VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGI010			QGI011		QGI012		
Sampling Date		2021/07/29			2021/07/29		2021/07/29		
COC Number		834487-07-01			834487-07-01		834487-07-01		
	UNITS	P5-IIR Lab-Dup	RDL	QC Batch	P5-IIIR	RDL	P5-IVR	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				360	1.0	760	1.0	7494734
Inorganics									
Total Ammonia-N	mg/L				66 (1)	0.25	0.96	0.050	7497938
Conductivity	umho/cm				5700	1.0	1500	1.0	7495737
Total Dissolved Solids	mg/L	2970	10	7497033	2850	10	965	10	7497033
Fluoride (F-)	mg/L				1.9	0.10	0.69	0.10	7495734
Total Kjeldahl Nitrogen (TKN)	mg/L				64 (1)	2.0	1.2	0.10	7497849
Total Organic Carbon (TOC)	mg/L				18	0.40	9.4	0.40	7497814
Orthophosphate (P)	mg/L				<0.010	0.010	0.085	0.010	7495779
pH	pH				7.84		7.61		7495738
Phenols-4AAP	mg/L				0.050	0.0020	0.0013	0.0010	7496914
Alkalinity (Total as CaCO3)	mg/L				160	1.0	490	1.0	7495736
Nitrite (N)	mg/L				<0.010	0.010	<0.010	0.010	7495739
Dissolved Chloride (Cl-)	mg/L				1400	10	28	1.0	7495770
Nitrate (N)	mg/L				<0.10	0.10	<0.10	0.10	7495739
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	<0.10	0.10	7495739
Dissolved Bromide (Br-)	mg/L				<10	10	<1.0	1.0	7495770
Dissolved Sulphate (SO4)	mg/L				420	10	320	1.0	7495770
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.									



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VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGI013			QGI014			QGI015		
Sampling Date		2021/07/29			2021/07/29			2021/07/29		
COC Number		834487-07-01			834487-07-01			834487-07-01		
	UNITS	P15	RDL	QC Batch	2-III	RDL	QC Batch	P1-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	96	1.0	7494734	1600	1.0	7494734	1600	1.0	7494734
Inorganics										
Total Ammonia-N	mg/L	170 (1)	0.50	7497938	38 (1)	0.25	7497938	38	0.25	7497938
Conductivity	umho/cm	11000	1.0	7495737	6200	1.0	7495737	6200	1.0	7495737
Total Dissolved Solids	mg/L	5740	20	7497033	3890	10	7497033	3680	10	7497033
Fluoride (F-)	mg/L	3.7	0.10	7495734	1.1	0.10	7495734	1.1	0.10	7495734
Total Kjeldahl Nitrogen (TKN)	mg/L	160 (1)	5.0	7497849	36 (1)	2.0	7497849	38	1.0	7497849
Total Organic Carbon (TOC)	mg/L	49	0.40	7497814	7.0	0.40	7497814	7.2	0.40	7500215
Orthophosphate (P)	mg/L	<0.010	0.010	7495779	<0.010	0.010	7495779	<0.010	0.010	7495779
pH	pH	9.44		7495738	7.55		7495738	7.60		7495738
Phenols-4AAP	mg/L	0.65	0.050	7496943	0.0016	0.0010	7496914	0.0012	0.0010	7496914
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7495736	190	1.0	7495736	190	1.0	7495736
Nitrite (N)	mg/L	<0.010	0.010	7495745	<0.010	0.010	7495739	<0.010	0.010	7495745
Dissolved Chloride (Cl-)	mg/L	3200	20	7495770	1200	10	7495770	1100	10	7495770
Nitrate (N)	mg/L	<0.10	0.10	7495745	<0.10	0.10	7495739	<0.10	0.10	7495745
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7495745	<0.10	0.10	7495739	<0.10	0.10	7495745
Dissolved Bromide (Br-)	mg/L	<20	20	7495770	<10	10	7495770	<10	10	7495770
Dissolved Sulphate (SO4)	mg/L	350	20	7495770	1500	10	7495770	1500	10	7495770

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



RESULTS OF ANALYSES OF WATER

BV Labs ID		QGI016		
Sampling Date		2021/07/29		
COC Number		834487-07-01		
	UNITS	P1-II	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	1600	1.0	7494734
Inorganics				
Total Ammonia-N	mg/L	38	0.25	7497938
Conductivity	umho/cm	6300	1.0	7495737
Total Dissolved Solids	mg/L	3850	10	7497033
Fluoride (F-)	mg/L	1.2	0.10	7495734
Total Kjeldahl Nitrogen (TKN)	mg/L	40	1.0	7497849
Total Organic Carbon (TOC)	mg/L	7.2	0.40	7500215
Orthophosphate (P)	mg/L	<0.010	0.010	7495779
pH	pH	7.54		7495738
Phenols-4AAP	mg/L	<0.0010	0.0010	7496914
Alkalinity (Total as CaCO3)	mg/L	180	1.0	7495736
Nitrite (N)	mg/L	<0.010	0.010	7495901
Dissolved Chloride (Cl-)	mg/L	1200	10	7495770
Nitrate (N)	mg/L	<0.10	0.10	7495901
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7495901
Dissolved Bromide (Br-)	mg/L	<10	10	7495770
Dissolved Sulphate (SO4)	mg/L	1500	10	7495770
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGI007	QGI008		QGI009		QGI010		
Sampling Date		2021/07/29	2021/07/29		2021/07/29		2021/07/29		
COC Number		834487-07-01	834487-07-01		834487-07-01		834487-07-01		
	UNITS	42-II	42-III	RDL	P5-IR	RDL	P5-IIR	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<4.9	4.9	11	4.9	7497393
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7497393
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
Dissolved Barium (Ba)	ug/L	12	61	2.0	27	2.0	15	2.0	7497393
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7497393
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
Dissolved Boron (B)	ug/L	1200	640	10	830	10	360	10	7497393
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7497393
Dissolved Calcium (Ca)	ug/L	570000	490000	1000	640000	1000	570000	1000	7497393
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7497393
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7497393
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7497393
Dissolved Iron (Fe)	ug/L	580	370	100	<100	100	<100	100	7497393
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7497393
Dissolved Lithium (Li)	ug/L	80	43	5.0	96	5.0	62	5.0	7497393
Dissolved Magnesium (Mg)	ug/L	120000	160000	50	57000	50	100000	50	7497393
Dissolved Manganese (Mn)	ug/L	150	160	2.0	47	2.0	65	2.0	7497393
Dissolved Molybdenum (Mo)	ug/L	5.0	<0.50	0.50	<0.50	0.50	<0.50	0.50	7497393
Dissolved Nickel (Ni)	ug/L	1.8	1.2	1.0	2.4	1.0	<1.0	1.0	7497393
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	100	<100	100	7497393
Dissolved Potassium (K)	ug/L	40000	50000	200	70000	200	13000	200	7497393
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	2.6	2.0	<2.0	2.0	7497393
Dissolved Silicon (Si)	ug/L	19000	5500	50	5400	50	3600	50	7497393
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7497393
Dissolved Sodium (Na)	ug/L	390000	380000	100	880000	500	140000	100	7497393
Dissolved Strontium (Sr)	ug/L	12000	8300	1.0	6100	1.0	7000	1.0	7497393
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7497393
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7497393
Dissolved Tungsten (W)	ug/L	1.1	<1.0	1.0	2.4	1.0	<1.0	1.0	7497393
Dissolved Uranium (U)	ug/L	0.28	0.16	0.10	<0.10	0.10	<0.10	0.10	7497393
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7497393
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7497393
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGI011		QGI012		QGI013		QGI014		
Sampling Date		2021/07/29		2021/07/29		2021/07/29		2021/07/29		
COC Number		834487-07-01		834487-07-01		834487-07-01		834487-07-01		
	UNITS	P5-IIIR	RDL	P5-IVR	RDL	P15	RDL	2-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	7.5	4.9	26	4.9	460	4.9	12	4.9	7497393
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7497393
Dissolved Arsenic (As)	ug/L	1.1	1.0	<1.0	1.0	2.5	1.0	<1.0	1.0	7497393
Dissolved Barium (Ba)	ug/L	14	2.0	45	2.0	9.9	2.0	22	2.0	7497393
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7497393
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
Dissolved Boron (B)	ug/L	420	10	200	10	520	10	1100	10	7497393
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7497393
Dissolved Calcium (Ca)	ug/L	72000	200	200000	400	36000	200	550000	1000	7497393
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7497393
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7497393
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7497393
Dissolved Iron (Fe)	ug/L	<100	100	1900	100	<100	100	<100	100	7497393
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7497393
Dissolved Lithium (Li)	ug/L	27	5.0	8.5	5.0	26	5.0	140	5.0	7497393
Dissolved Magnesium (Mg)	ug/L	43000	50	66000	50	1600	50	68000	50	7497393
Dissolved Manganese (Mn)	ug/L	2.2	2.0	280	2.0	<2.0	2.0	37	2.0	7497393
Dissolved Molybdenum (Mo)	ug/L	17	0.50	0.62	0.50	17	0.50	<0.50	0.50	7497393
Dissolved Nickel (Ni)	ug/L	6.6	1.0	<1.0	1.0	23	1.0	1.5	1.0	7497393
Dissolved Phosphorus (P)	ug/L	<100	100	120	100	220	100	<100	100	7497393
Dissolved Potassium (K)	ug/L	71000	200	7700	200	140000	200	56000	200	7497393
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7497393
Dissolved Silicon (Si)	ug/L	8200	50	4800	50	5300	50	6500	50	7497393
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7497393
Dissolved Sodium (Na)	ug/L	910000	500	51000	100	2200000	500	690000	500	7497393
Dissolved Strontium (Sr)	ug/L	2400	1.0	6100	1.0	1400	1.0	6800	1.0	7497393
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7497393
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7497393
Dissolved Tungsten (W)	ug/L	8.6	1.0	<1.0	1.0	21	1.0	1.1	1.0	7497393
Dissolved Uranium (U)	ug/L	<0.10	0.10	0.91	0.10	<0.10	0.10	<0.10	0.10	7497393
Dissolved Vanadium (V)	ug/L	<0.50	0.50	1.5	0.50	1.0	0.50	<0.50	0.50	7497393
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7497393
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7497393
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGI015	QGI016		
Sampling Date		2021/07/29	2021/07/29		
COC Number		834487-07-01	834487-07-01		
	UNITS	P1-I	P1-II	RDL	QC Batch
Metals					
Dissolved Aluminum (Al)	ug/L	12	5.5	4.9	7497393
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7497393
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	7497393
Dissolved Barium (Ba)	ug/L	22	23	2.0	7497393
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	7497393
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	7497393
Dissolved Boron (B)	ug/L	1000	950	10	7497393
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	7497393
Dissolved Calcium (Ca)	ug/L	540000	550000	1000	7497393
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	7497393
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	7497393
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	7497393
Dissolved Iron (Fe)	ug/L	<100	<100	100	7497393
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	7497393
Dissolved Lithium (Li)	ug/L	130	130	5.0	7497393
Dissolved Magnesium (Mg)	ug/L	68000	69000	50	7497393
Dissolved Manganese (Mn)	ug/L	38	45	2.0	7497393
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	7497393
Dissolved Nickel (Ni)	ug/L	1.5	1.4	1.0	7497393
Dissolved Phosphorus (P)	ug/L	<100	<100	100	7497393
Dissolved Potassium (K)	ug/L	55000	54000	200	7497393
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	7497393
Dissolved Silicon (Si)	ug/L	6700	6000	50	7497393
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	7497393
Dissolved Sodium (Na)	ug/L	700000	710000	500	7497393
Dissolved Strontium (Sr)	ug/L	6800	7400	1.0	7497393
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	7497393
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7497393
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	7497393
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7497393
Dissolved Tungsten (W)	ug/L	1.1	1.1	1.0	7497393
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	7497393
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	7497393
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7497393
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	7497393
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGI007
Sample ID: 42-II
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495745	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496914	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/06	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7497814	N/A	2021/08/04	Julianna Castiglione

BV Labs ID: QGI008
Sample ID: 42-III
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495745	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496943	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7500379	2021/08/04	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7500215	N/A	2021/08/04	Julianna Castiglione

BV Labs ID: QGI008 Dup
Sample ID: 42-III
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495745	N/A	2021/08/04	Chandra Nandlal
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Organic Carbon (TOC)	TOCV/NDIR	7500215	N/A	2021/08/04	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGI009
Sample ID: P5-IR
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495796	N/A	2021/08/03	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495798	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7495793	2021/07/31	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495745	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495802	2021/07/31	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496943	N/A	2021/08/04	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/06	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7497814	N/A	2021/08/04	Julianna Castiglione

BV Labs ID: QGI009 Dup
Sample ID: P5-IR
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495796	N/A	2021/08/03	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495798	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7495793	2021/07/31	2021/08/03	Surinder Rai
pH	AT	7495802	2021/07/31	2021/08/03	Surinder Rai

BV Labs ID: QGI010
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495739	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496943	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7500215	N/A	2021/08/05	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGI010 Dup
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan

BV Labs ID: QGI011
Sample ID: P5-IIIR
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495739	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496914	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/06	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7497814	N/A	2021/08/04	Julianna Castiglione

BV Labs ID: QGI012
Sample ID: P5-IVR
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495739	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496914	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/06	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7497814	N/A	2021/08/04	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGI013
Sample ID: P15
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495745	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496943	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/06	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7497814	N/A	2021/08/04	Julianna Castiglione

BV Labs ID: QGI014
Sample ID: 2-III
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495739	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496914	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/06	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7497814	N/A	2021/08/04	Julianna Castiglione

BV Labs ID: QGI015
Sample ID: P1-I
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGI015
Sample ID: P1-I
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495745	N/A	2021/08/04	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496914	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/06	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7500215	N/A	2021/08/05	Julianna Castiglione

BV Labs ID: QGI016
Sample ID: P1-II
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7495736	N/A	2021/08/04	Surinder Rai
Anions	IC	7495770	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7495737	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7495734	2021/07/31	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7494734	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7497938	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7495901	N/A	2021/08/03	Chandra Nandlal
pH	AT	7495738	2021/07/31	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7496914	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7495779	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7497033	2021/08/04	2021/08/05	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7497849	2021/08/03	2021/08/06	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7500215	N/A	2021/08/04	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	4.0°C
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Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample QGI011 [P5-IIIR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QGI013 [P15] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QGI014 [2-III] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

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
7495734	Fluoride (F-)	2021/08/04	114	80 - 120	98	80 - 120	<0.10	mg/L	16	20		
7495736	Alkalinity (Total as CaCO3)	2021/08/04			96	85 - 115	<1.0	mg/L	0.24	20		
7495737	Conductivity	2021/08/04			100	85 - 115	<1.0	umho/cm	0	25		
7495738	pH	2021/08/04			102	98 - 103			0.079	N/A		
7495739	Nitrate (N)	2021/08/04	100	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7495739	Nitrite (N)	2021/08/04	105	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7495745	Nitrate (N)	2021/08/04	101	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7495745	Nitrite (N)	2021/08/04	105	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7495770	Dissolved Bromide (Br-)	2021/08/03	94	80 - 120	108	80 - 120	<1.0	mg/L	NC	20		
7495770	Dissolved Chloride (Cl-)	2021/08/03	NC	80 - 120	104	70 - 130	<1.0	mg/L	1.5	20		
7495770	Dissolved Sulphate (SO4)	2021/08/03	NC	80 - 120	103	80 - 120	<1.0	mg/L	1.2	20		
7495779	Orthophosphate (P)	2021/08/05	108	75 - 125	103	80 - 120	<0.010	mg/L	4.4	25		
7495793	Fluoride (F-)	2021/08/03	84	80 - 120	104	80 - 120	<0.10	mg/L	4.2	20		
7495796	Alkalinity (Total as CaCO3)	2021/08/03			98	85 - 115	<1.0	mg/L	0.46	20		
7495798	Conductivity	2021/08/03			101	85 - 115	<1.0	umho/cm	0.71	25		
7495802	pH	2021/08/03			102	98 - 103			0.39	N/A		
7495901	Nitrate (N)	2021/08/03	102	80 - 120	104	80 - 120	<0.10	mg/L	NC	20		
7495901	Nitrite (N)	2021/08/03	106	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7496914	Phenols-4AAP	2021/08/03	95	80 - 120	102	80 - 120	<0.0010	mg/L	0	20		
7496943	Phenols-4AAP	2021/08/03	100	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7497033	Total Dissolved Solids	2021/08/05					<10	mg/L	0.17	25	95	90 - 110
7497393	Dissolved Aluminum (Al)	2021/08/05	100	80 - 120	102	80 - 120	<4.9	ug/L				
7497393	Dissolved Antimony (Sb)	2021/08/05	100	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7497393	Dissolved Arsenic (As)	2021/08/05	99	80 - 120	98	80 - 120	<1.0	ug/L	0.39	20		
7497393	Dissolved Barium (Ba)	2021/08/05	97	80 - 120	99	80 - 120	<2.0	ug/L	3.3	20		
7497393	Dissolved Beryllium (Be)	2021/08/05	94	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
7497393	Dissolved Bismuth (Bi)	2021/08/05	92	80 - 120	92	80 - 120	<1.0	ug/L				
7497393	Dissolved Boron (B)	2021/08/05	88	80 - 120	98	80 - 120	<10	ug/L	2.0	20		
7497393	Dissolved Cadmium (Cd)	2021/08/05	98	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

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
7497393	Dissolved Calcium (Ca)	2021/08/05	NC	80 - 120	101	80 - 120	<200	ug/L				
7497393	Dissolved Chromium (Cr)	2021/08/05	96	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7497393	Dissolved Cobalt (Co)	2021/08/05	99	80 - 120	99	80 - 120	<0.50	ug/L	3.9	20		
7497393	Dissolved Copper (Cu)	2021/08/05	101	80 - 120	102	80 - 120	<0.90	ug/L	0.73	20		
7497393	Dissolved Iron (Fe)	2021/08/05	99	80 - 120	96	80 - 120	<100	ug/L				
7497393	Dissolved Lead (Pb)	2021/08/05	97	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7497393	Dissolved Lithium (Li)	2021/08/05	86	80 - 120	101	80 - 120	<5.0	ug/L				
7497393	Dissolved Magnesium (Mg)	2021/08/05	NC	80 - 120	102	80 - 120	<50	ug/L				
7497393	Dissolved Manganese (Mn)	2021/08/05	100	80 - 120	97	80 - 120	<2.0	ug/L				
7497393	Dissolved Molybdenum (Mo)	2021/08/05	101	80 - 120	100	80 - 120	<0.50	ug/L	2.0	20		
7497393	Dissolved Nickel (Ni)	2021/08/05	95	80 - 120	96	80 - 120	<1.0	ug/L	4.5	20		
7497393	Dissolved Phosphorus (P)	2021/08/05	100	80 - 120	104	80 - 120	<100	ug/L				
7497393	Dissolved Potassium (K)	2021/08/05	102	80 - 120	100	80 - 120	<200	ug/L				
7497393	Dissolved Selenium (Se)	2021/08/05	99	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7497393	Dissolved Silicon (Si)	2021/08/05	95	80 - 120	102	80 - 120	<50	ug/L				
7497393	Dissolved Silver (Ag)	2021/08/05	90	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
7497393	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	98	80 - 120	<100	ug/L	1.1	20		
7497393	Dissolved Strontium (Sr)	2021/08/05	NC	80 - 120	94	80 - 120	<1.0	ug/L				
7497393	Dissolved Tellurium (Te)	2021/08/05	96	80 - 120	99	80 - 120	<1.0	ug/L				
7497393	Dissolved Thallium (Tl)	2021/08/05	96	80 - 120	94	80 - 120	<0.050	ug/L	NC	20		
7497393	Dissolved Tin (Sn)	2021/08/05	101	80 - 120	101	80 - 120	<1.0	ug/L				
7497393	Dissolved Titanium (Ti)	2021/08/05	95	80 - 120	97	80 - 120	<5.0	ug/L				
7497393	Dissolved Tungsten (W)	2021/08/05	98	80 - 120	98	80 - 120	<1.0	ug/L				
7497393	Dissolved Uranium (U)	2021/08/05	97	80 - 120	94	80 - 120	<0.10	ug/L	0	20		
7497393	Dissolved Vanadium (V)	2021/08/05	97	80 - 120	94	80 - 120	<0.50	ug/L	4.7	20		
7497393	Dissolved Zinc (Zn)	2021/08/05	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7497393	Dissolved Zirconium (Zr)	2021/08/05	99	80 - 120	100	80 - 120	<1.0	ug/L				
7497814	Total Organic Carbon (TOC)	2021/08/04	98	80 - 120	99	80 - 120	<0.40	mg/L	4.0	20		
7497849	Total Kjeldahl Nitrogen (TKN)	2021/08/06	NC	80 - 120	96	80 - 120	<0.10	mg/L	0.64	20	103	80 - 120
7497938	Total Ammonia-N	2021/08/05	102	75 - 125	102	80 - 120	<0.050	mg/L	NC	20		
7500215	Total Organic Carbon (TOC)	2021/08/04	99	80 - 120	99	80 - 120	<0.40	mg/L	0.32	20		



BUREAU
VERITAS

BV Labs Job #: C1L5654
Report Date: 2021/08/06

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
7500379	Total Kjeldahl Nitrogen (TKN)	2021/08/05	97	80 - 120	98	80 - 120	<0.10	mg/L	NC	20	102	80 - 120

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 #: C1L5654
Report Date: 2021/08/06

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:

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 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

30-Jul-21 09:30

Jolanta Goralczyk



C1L5654

ASR ENV-796

Only:

Bottle Order #:



834487

Project Manager:

Jolanta Goralczyk

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: 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: _____

Barcode: C#834487-07-01

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"/> Table 2 <input type="checkbox"/> Table 3 <input type="checkbox"/> Table _____	<input type="checkbox"/> Res/Park <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Agri/Other <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Coarse <input type="checkbox"/> For RSC <input type="checkbox"/> CCME <input type="checkbox"/> Reg 558 <input type="checkbox"/> MISA <input type="checkbox"/> PWQO <input type="checkbox"/> Other _____	<input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> Municipality _____ <input type="checkbox"/> Reg 406 Table _____

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

List "A" - GW Monitoring

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)																			

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects.

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

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)	List "A" - GW Monitoring													
1	47-IV 42-II	July 29 2021	NA	GW	Y	X													
2	48-I 42-III			GW	Y	X													
3	48-II P5-IR			GW	Y	X													
4	48-IV P5-IR			GW	Y	X													
5	48-V P5-IR			GW	Y	X													
6	49-II P5-IR			GW	Y	X													
7	49-IV P15			GW	Y	X													
8	49-V 2-III			GW	Y	X													
9	50-II P1-I			GW	Y	X													
10	51-IV P1-II			GW	Y	X													

* RELINQUISHED BY: (Signature/Print) Dan Taylor	Date: (YY/MM/DD) 21/07/30	Time 9:30	RECEIVED BY: (Signature/Print) DIPKA SINGH	Date: (YY/MM/DD) 21/07/30	Time 16:54	# jars used and not submitted
--	------------------------------	--------------	---	------------------------------	---------------	-------------------------------

Laboratory Use Only		Time Sensitive	Temperature (°C) on Recept 4/3/5	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.

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

White: BV Labs Yellow: Client

4/5/5 1104 472828



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. #: 834487-08-01, 834487-09-01, 834487-10-01

Report Date: 2021/08/13
Report #: R6763930
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L7895

Received: 2021/08/03, 16:13

Sample Matrix: Water
Samples Received: 27

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	27	N/A	2021/08/06	CAM SOP-00448	SM 23 2320 B m
Anions	21	N/A	2021/08/10	CAM SOP-00435	SM 23 4110 B m
Anions	6	N/A	2021/08/06	CAM SOP-00435	SM 23 4110 B m
Conductivity	27	N/A	2021/08/06	CAM SOP-00414	SM 23 2510 m
Fluoride	26	2021/08/05	2021/08/06	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2021/08/06	2021/08/06	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	2	N/A	2021/08/10	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	1	N/A	2021/08/11	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	18	N/A	2021/08/06	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	6	N/A	2021/08/09	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	2	N/A	2021/08/10	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/08/11	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	11	N/A	2021/08/05	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	11	N/A	2021/08/06	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/08/09	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	7	N/A	2021/08/05	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	20	N/A	2021/08/09	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	26	N/A	2021/08/06	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	26	2021/08/05	2021/08/06	CAM SOP-00413	SM 4500H+ B m
pH	1	2021/08/06	2021/08/06	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	25	N/A	2021/08/05	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	2	N/A	2021/08/06	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/08/05	CAM SOP-00461	EPA 365.1 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. #: 834487-08-01, 834487-09-01, 834487-10-01

Report Date: 2021/08/13

Report #: R6763930

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L7895

Received: 2021/08/03, 16:13

Sample Matrix: Water
Samples Received: 27

Analyses	Date		Laboratory Method	Analytical Method
	Quantity Extracted	Date Analyzed		
Orthophosphate	26	N/A	2021/08/06 CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	27	2021/08/05	2021/08/06 CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	10	2021/08/05	2021/08/10 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	10	2021/08/05	2021/08/09 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	4	2021/08/09	2021/08/10 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	3	2021/08/09	2021/08/09 CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	7	N/A	2021/08/05 CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	20	N/A	2021/08/06 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

13 Aug 2021 15:35:53

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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Total Cover Pages : 2

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BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGV930			QGV930			QGV931		
Sampling Date		2021/07/30			2021/07/30			2021/07/30		
COC Number		834487-08-01			834487-08-01			834487-08-01		
	UNITS	P1-III	RDL	QC Batch	P1-III Lab-Dup	RDL	QC Batch	P3-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	550	1.0	7499417				520	1.0	7499417
Inorganics										
Total Ammonia-N	mg/L	2.8	0.050	7502674				17	0.050	7502674
Conductivity	umho/cm	2000	1.0	7504754				2900	1.0	7503234
Total Dissolved Solids	mg/L	1190	10	7502177	1180	10	7502177	1480	10	7502177
Fluoride (F-)	mg/L	1.2	0.10	7504755				1.6	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L	3.1	0.10	7503330				18	1.0	7503330
Total Organic Carbon (TOC)	mg/L	16	0.40	7503343				22	0.40	7503343
Orthophosphate (P)	mg/L	<0.010	0.010	7500895				<0.010	0.010	7503251
pH	pH	7.75		7504753				8.25		7503235
Phenols-4AAP	mg/L	0.047	0.0050	7501979				0.083	0.0050	7501979
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7504752				90	1.0	7503233
Nitrite (N)	mg/L	<0.010	0.010	7500193				<0.010	0.010	7503189
Dissolved Chloride (Cl-)	mg/L	370	5.0	7501131				560	5.0	7503254
Nitrate (N)	mg/L	<0.10	0.10	7500193				<0.10	0.10	7503189
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7500193				<0.10	0.10	7503189
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7501131				<5.0	5.0	7503254
Dissolved Sulphate (SO4)	mg/L	270	5.0	7501131				410	5.0	7503254

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



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGV931			QGV932			QGV933		
Sampling Date		2021/07/30			2021/07/30			2021/07/30		
COC Number		834487-08-01			834487-08-01			834487-08-01		
	UNITS	P3-II Lab-Dup	RDL	QC Batch	P3-III	RDL	QC Batch	43-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1100	1.0	7499417	2000	1.0	7499417
Inorganics										
Total Ammonia-N	mg/L				0.84	0.050	7502674	12	0.050	7502674
Conductivity	umho/cm	2900	1.0	7503234	3300	1.0	7503679	5500	1.0	7503234
Total Dissolved Solids	mg/L				1840	10	7502177	3680	10	7502177
Fluoride (F-)	mg/L	1.6	0.10	7503220	0.46	0.10	7503655	0.77	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L				1.1	0.10	7503330	13	0.50	7503330
Total Organic Carbon (TOC)	mg/L				4.2	0.40	7503343	1.9	0.40	7503343
Orthophosphate (P)	mg/L				<0.010	0.010	7503825	<0.010	0.010	7503251
pH	pH	8.35		7503235	7.73		7503680	7.68		7503235
Phenols-4AAP	mg/L				<0.0010	0.0010	7501979	<0.0010	0.0010	7501979
Alkalinity (Total as CaCO3)	mg/L	92	1.0	7503233	280	1.0	7503672	260	1.0	7503233
Nitrite (N)	mg/L				<0.010	0.010	7503245	<0.010	0.010	7503189
Dissolved Chloride (Cl-)	mg/L				630	5.0	7504516	860	10	7503254
Nitrate (N)	mg/L				0.28	0.10	7503245	<0.10	0.10	7503189
Nitrate + Nitrite (N)	mg/L				0.28	0.10	7503245	<0.10	0.10	7503189
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7504516	<10	10	7503254
Dissolved Sulphate (SO4)	mg/L				420	5.0	7504516	1400	10	7503254

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



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGV933			QGV934			QGV935		
Sampling Date		2021/07/30			2021/07/30			2021/07/30		
COC Number		834487-08-01			834487-08-01			834487-08-01		
	UNITS	43-I Lab-Dup	RDL	QC Batch	43-II	RDL	QC Batch	ST1	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1000	1.0	7499417	760	1.0	7499417
Inorganics										
Total Ammonia-N	mg/L				2.7	0.050	7502908	48 (1)	0.25	7502908
Conductivity	umho/cm				2600	1.0	7503234	6100	1.0	7503234
Total Dissolved Solids	mg/L				1580	10	7502177	3020	10	7502177
Fluoride (F-)	mg/L				0.71	0.10	7503220	1.1	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L	13	0.50	7503330	3.1	0.10	7502901	43 (1)	2.0	7502901
Total Organic Carbon (TOC)	mg/L				1.3	0.40	7502886	13	0.40	7502886
Orthophosphate (P)	mg/L				<0.010	0.010	7503251	<0.010	0.010	7503251
pH	pH				7.64		7503235	7.56		7503235
Phenols-4AAP	mg/L				<0.0010	0.0010	7501979	0.060	0.0050	7502016
Alkalinity (Total as CaCO3)	mg/L				330	1.0	7503233	140	1.0	7503233
Nitrite (N)	mg/L				<0.010	0.010	7503189	<0.010	0.010	7503189
Dissolved Chloride (Cl-)	mg/L				300	5.0	7503254	1500	10	7503254
Nitrate (N)	mg/L				<0.10	0.10	7503189	<0.10	0.10	7503189
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7503189	<0.10	0.10	7503189
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7503254	<10	10	7503254
Dissolved Sulphate (SO4)	mg/L				560	5.0	7503254	360	10	7503254

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGV936			QGV937		QGV938	QGV939		
Sampling Date		2021/07/30			2021/07/30		2021/07/30	2021/07/30		
COC Number		834487-08-01			834487-08-01		834487-08-01	834487-08-01		
	UNITS	ST2	RDL	QC Batch	61-I	QC Batch	61-II	61-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	100	1.0	7499417	2000	7499417	1600	2000	1.0	7499417
Inorganics										
Total Ammonia-N	mg/L	150 (1)	1.0	7502908	4.1	7502908	1.6	2.2	0.050	7502908
Conductivity	umho/cm	9000	1.0	7503234	5100	7503234	4200	4000	1.0	7503234
Total Dissolved Solids	mg/L	4070	20	7502177	3440	7502177	2840	2980	10	7502177
Fluoride (F-)	mg/L	3.0	0.10	7503220	0.79	7503220	1.0	0.72	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L	130 (1)	5.0	7502901	5.0	7502901	2.1	2.9	0.10	7502901
Total Organic Carbon (TOC)	mg/L	29	0.40	7502886	3.1	7502886	2.7	2.7	0.40	7502886
Orthophosphate (P)	mg/L	0.019	0.010	7503251	0.035	7503251	<0.010	<0.010	0.010	7503251
pH	pH	9.23		7503235	7.55	7503235	7.67	7.61		7503235
Phenols-4AAP	mg/L	0.52	0.020	7502016	0.0018	7501979	0.0012	<0.0010	0.0010	7501979
Alkalinity (Total as CaCO3)	mg/L	260	1.0	7503233	290	7503233	270	270	1.0	7503233
Nitrite (N)	mg/L	<0.010	0.010	7503189	<0.010	7503245	<0.010	<0.010	0.010	7503189
Dissolved Chloride (Cl-)	mg/L	2600	20	7503254	710	7503254	420	450	10	7503254
Nitrate (N)	mg/L	<0.10	0.10	7503189	<0.10	7503245	<0.10	0.55	0.10	7503189
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7503189	<0.10	7503245	<0.10	0.55	0.10	7503189
Dissolved Bromide (Br-)	mg/L	<2.0	2.0	7503254	<10	7503254	<10	<10	10	7503254
Dissolved Sulphate (SO4)	mg/L	170	2.0	7503254	1500	7503254	1300	1200	10	7503254

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGV998			QGV999			QGW000		
Sampling Date		2021/07/30			2021/07/30			2021/07/30		
COC Number		834487-09-01			834487-09-01			834487-09-01		
	UNITS	49-II	RDL	QC Batch	49-IV	RDL	QC Batch	49-V	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	7499417	1100	1.0	7499417	2200	1.0	7499417
Inorganics										
Total Ammonia-N	mg/L	1.5	0.050	7502674	0.60	0.050	7502908	1.7	0.050	7502908
Conductivity	umho/cm	3900	1.0	7503234	3700	1.0	7503679	3900	1.0	7503234
Total Dissolved Solids	mg/L	3290	10	7502180	2090	10	7502180	3230	10	7502177
Fluoride (F-)	mg/L	1.3	0.10	7503220	1.5	0.10	7503655	1.3	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L	1.9	0.10	7503330	0.87	0.10	7502901	2.4	0.10	7502901
Total Organic Carbon (TOC)	mg/L	2.5	0.40	7503343	3.6	0.40	7502886	2.6	0.40	7502886
Orthophosphate (P)	mg/L	<0.010	0.010	7503251	<0.010	0.010	7503825	0.012	0.010	7503251
pH	pH	7.56		7503235	7.81		7503680	7.61		7503235
Phenols-4AAP	mg/L	<0.0010	0.0010	7502016	<0.0010	0.0010	7501979	<0.0010	0.0010	7501979
Alkalinity (Total as CaCO3)	mg/L	360	1.0	7503233	270	1.0	7503672	370	1.0	7503233
Nitrite (N)	mg/L	<0.010	0.010	7503245	<0.010	0.010	7503245	<0.010	0.010	7503245
Dissolved Chloride (Cl-)	mg/L	210	10	7503254	620	5.0	7504516	140	10	7504516
Nitrate (N)	mg/L	<0.10	0.10	7503245	<0.10	0.10	7503245	<0.10	0.10	7503245
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7503245	<0.10	0.10	7503245	<0.10	0.10	7503245
Dissolved Bromide (Br-)	mg/L	<10	10	7503254	<5.0	5.0	7504516	<10	10	7504516
Dissolved Sulphate (SO4)	mg/L	1500	10	7503254	590	5.0	7504516	1700	10	7504516
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGW000			QGW001			QGW002		
Sampling Date		2021/07/30			2021/07/30			2021/07/30		
COC Number		834487-09-01			834487-09-01			834487-09-01		
	UNITS	49-V Lab-Dup	RDL	QC Batch	57-I	RDL	QC Batch	G11	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				160	1.0	7499417	630	1.0	7499417
Inorganics										
Total Ammonia-N	mg/L				220 (1)	0.50	7502674	<0.050	0.050	7502908
Conductivity	umho/cm				13000	1.0	7503234	4300	1.0	7503679
Total Dissolved Solids	mg/L				6750	20	7502177	2350	10	7502177
Fluoride (F-)	mg/L				3.6	0.10	7503220	1.4	0.10	7503655
Total Kjeldahl Nitrogen (TKN)	mg/L				210 (1)	10	7503330	0.36	0.10	7502901
Total Organic Carbon (TOC)	mg/L				75	0.40	7503343	3.8	0.40	7502886
Orthophosphate (P)	mg/L	0.012	0.010	7503251	0.017	0.010	7503825	<0.010	0.010	7503825
pH	pH				10.5		7503235	7.81		7503680
Phenols-4AAP	mg/L				1.1	0.050	7502016	<0.0010	0.0010	7501979
Alkalinity (Total as CaCO3)	mg/L				760	1.0	7503233	300	1.0	7503672
Nitrite (N)	mg/L				0.012	0.010	7503245	<0.010	0.010	7503245
Dissolved Chloride (Cl-)	mg/L				4000	50	7503254	1000	10	7504516
Nitrate (N)	mg/L				<0.10	0.10	7503245	<0.10	0.10	7503245
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7503245	<0.10	0.10	7503245
Dissolved Bromide (Br-)	mg/L				<50	50	7503254	<10	10	7504516
Dissolved Sulphate (SO4)	mg/L				230	50	7503254	280	10	7504516

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



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VERITAS**

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGW003				QGW004				QGW005			
Sampling Date		2021/07/30				2021/07/30				2021/07/30			
COC Number		834487-09-01				834487-09-01				834487-09-01			
	UNITS	G13	RDL	QC Batch	67-II	RDL	QC Batch	67-III	RDL	QC Batch			
Calculated Parameters													
Hardness (CaCO3)	mg/L	640	1.0	7499417	1000	1.0	7499417	900	1.0	7499417			
Inorganics													
Total Ammonia-N	mg/L	<0.050	0.050	7502674	15 (1)	0.050	7502908	10	0.050	7502908			
Conductivity	umho/cm	2100	1.0	7503234	3900	1.0	7503234	3500	1.0	7503679			
Total Dissolved Solids	mg/L	1300	10	7502177	2280	10	7502177	1920	10	7502177			
Fluoride (F-)	mg/L	1.2	0.10	7503220	0.81	0.10	7503220	0.62	0.10	7503655			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.18	0.10	7503330	13 (1)	1.0	7502901	10	1.0	7502901			
Total Organic Carbon (TOC)	mg/L	3.1	0.40	7503343	4.8	0.40	7502886	7.1	0.40	7502886			
Orthophosphate (P)	mg/L	<0.010	0.010	7503251	<0.010	0.010	7503251	<0.010	0.010	7503251			
pH	pH	7.87		7503235	7.75		7503235	7.80		7503680			
Phenols-4AAP	mg/L	<0.0010	0.0010	7501979	0.0015	0.0010	7502016	0.020	0.0010	7502016			
Alkalinity (Total as CaCO3)	mg/L	310	1.0	7503233	320	1.0	7503233	300	1.0	7503672			
Nitrite (N)	mg/L	0.028	0.010	7503189	0.189	0.010	7503189	<0.010	0.010	7503245			
Dissolved Chloride (Cl-)	mg/L	290	5.0	7503254	610	10	7503254	710	5.0	7503254			
Nitrate (N)	mg/L	0.96	0.10	7503189	1.83	0.10	7503189	<0.10	0.10	7503245			
Nitrate + Nitrite (N)	mg/L	0.99	0.10	7503189	2.02	0.10	7503189	<0.10	0.10	7503245			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7503254	<10	10	7503254	<5.0	5.0	7503254			
Dissolved Sulphate (SO4)	mg/L	290	5.0	7503254	660	10	7503254	320	5.0	7503254			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.													



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGW005			QGW006		QGW007		
Sampling Date		2021/07/30			2021/07/30		2021/07/30		
COC Number		834487-09-01			834487-09-01		834487-09-01		
	UNITS	67-III Lab-Dup	RDL	QC Batch	33-I	RDL	33-II	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				1300	1.0	750	1.0	7499417
Inorganics									
Total Ammonia-N	mg/L				<0.050	0.050	0.34	0.050	7502908
Conductivity	umho/cm	3500	1.0	7503679	4100	1.0	2600	1.0	7503234
Total Dissolved Solids	mg/L				2810	10	1600	10	7502177
Fluoride (F-)	mg/L	0.61	0.10	7503655	1.8	0.10	1.2	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L				1.7	0.20	1.7	0.10	7502901
Total Organic Carbon (TOC)	mg/L				26	0.40	17	0.40	7502886
Orthophosphate (P)	mg/L				0.031	0.010	0.061	0.010	7503251
pH	pH	7.80		7503680	7.41		7.38		7503235
Phenols-4AAP	mg/L				<0.0010	0.0010	0.0011	0.0010	7501979
Alkalinity (Total as CaCO3)	mg/L	300	1.0	7503672	49	1.0	36	1.0	7503233
Nitrite (N)	mg/L	<0.010	0.010	7503245	0.011	0.010	<0.010	0.010	7503189
Dissolved Chloride (Cl-)	mg/L				340	10	210	5.0	7503254
Nitrate (N)	mg/L	<0.10	0.10	7503245	4.42	0.10	2.91	0.10	7503189
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7503245	4.44	0.10	2.91	0.10	7503189
Dissolved Bromide (Br-)	mg/L				<10	10	<5.0	5.0	7503254
Dissolved Sulphate (SO4)	mg/L				1300	10	780	5.0	7503254
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGW007			QGW008			QGW009		
Sampling Date		2021/07/30			2021/07/30			2021/07/30		
COC Number		834487-09-01			834487-10-01			834487-10-01		
	UNITS	33-II Lab-Dup	RDL	QC Batch	30-I	RDL	QC Batch	30-II	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				420	1.0	7499417	400	1.0	7499417
Inorganics										
Total Ammonia-N	mg/L				21	0.050	7502908	2.1	0.050	7502908
Conductivity	umho/cm				3700	1.0	7503234	1500	1.0	7503679
Total Dissolved Solids	mg/L				1610	10	7502177	970	10	7502177
Fluoride (F-)	mg/L				0.86	0.10	7503220	1.7	0.10	7503655
Total Kjeldahl Nitrogen (TKN)	mg/L				22	2.0	7502901	3.0	0.10	7502901
Total Organic Carbon (TOC)	mg/L				110	0.80	7502886	19	0.40	7502886
Orthophosphate (P)	mg/L				<0.010	0.010	7503251	<0.010	0.010	7503825
pH	pH				11.7		7503235	9.90		7503680
Phenols-4AAP	mg/L				2.1	0.050	7502016	0.0033	0.0010	7501979
Alkalinity (Total as CaCO3)	mg/L				470	1.0	7503233	44	1.0	7503672
Nitrite (N)	mg/L				<0.010	0.010	7503245	1.25	0.010	7503245
Dissolved Chloride (Cl-)	mg/L	200	5.0	7503254	550	5.0	7503254	69	5.0	7504516
Nitrate (N)	mg/L				<0.10	0.10	7503245	0.84	0.10	7503245
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7503245	2.09	0.10	7503245
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7503254	<5.0	5.0	7503254	<5.0	5.0	7504516
Dissolved Sulphate (SO4)	mg/L	730	5.0	7503254	110	5.0	7503254	510	5.0	7504516
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGW010			QGW010			QGW011		
Sampling Date		2021/07/30			2021/07/30			2021/07/30		
COC Number		834487-10-01			834487-10-01			834487-10-01		
	UNITS	60-I	RDL	QC Batch	60-I Lab-Dup	RDL	QC Batch	60-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7499417				1400	1.0	7499417
Inorganics										
Total Ammonia-N	mg/L	5.6	0.050	7502908				2.9	0.050	7502908
Conductivity	umho/cm	6300	1.0	7503679				3700	1.0	7503234
Total Dissolved Solids	mg/L	4100	10	7502180	4190	10	7502180	2470	10	7502180
Fluoride (F-)	mg/L	0.73	0.10	7503655				1.0	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L	6.9	1.0	7502901				3.2	0.10	7502901
Total Organic Carbon (TOC)	mg/L	9.1	0.40	7502886				2.9	0.40	7502886
Orthophosphate (P)	mg/L	<0.010	0.010	7503825				<0.010	0.010	7503251
pH	pH	7.64		7503680				7.70		7503235
Phenols-4AAP	mg/L	0.0012	0.0010	7501979				<0.0010	0.0010	7502016
Alkalinity (Total as CaCO3)	mg/L	140	1.0	7503672				250	1.0	7503233
Nitrite (N)	mg/L	<0.010	0.010	7503245				<0.010	0.010	7503189
Dissolved Chloride (Cl-)	mg/L	1300	10	7504516				470	10	7503254
Nitrate (N)	mg/L	<0.10	0.10	7503245				<0.10	0.10	7503189
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7503245				<0.10	0.10	7503189
Dissolved Bromide (Br-)	mg/L	<10	10	7504516				<10	10	7503254
Dissolved Sulphate (SO4)	mg/L	750	10	7504516				790	10	7503254

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



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGW011			QGW012		QGW013		
Sampling Date		2021/07/30			2021/07/30		2021/07/30		
COC Number		834487-10-01			834487-10-01		834487-10-01		
	UNITS	60-II Lab-Dup	RDL	QC Batch	60-III	RDL	60-IV	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				1300	1.0	2200	1.0	7499417
Inorganics									
Total Ammonia-N	mg/L	2.9	0.050	7502908	0.64	0.050	8.0	0.050	7502908
Conductivity	umho/cm				3000	1.0	7000	1.0	7503234
Total Dissolved Solids	mg/L				1930	10	4760	20	7502180
Fluoride (F-)	mg/L				0.69	0.10	1.0	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L	3.3	0.10	7502901	1.1	0.10	8.5	1.0	7502901
Total Organic Carbon (TOC)	mg/L	2.8	0.40	7502886	6.0	0.40	3.6	0.40	7502886
Orthophosphate (P)	mg/L				<0.010	0.010	<0.010	0.010	7503251
pH	pH				7.59		7.49		7503235
Phenols-4AAP	mg/L				<0.0010	0.0010	<0.0010	0.0010	7502016
Alkalinity (Total as CaCO3)	mg/L				410	1.0	170	1.0	7503233
Nitrite (N)	mg/L				0.020	0.010	<0.010	0.010	7503189
Dissolved Chloride (Cl-)	mg/L				250	5.0	1200	20	7503254
Nitrate (N)	mg/L				<0.10	0.10	<0.10	0.10	7503189
Nitrate + Nitrite (N)	mg/L				0.11	0.10	<0.10	0.10	7503189
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	<20	20	7503254
Dissolved Sulphate (SO4)	mg/L				720	5.0	1400	20	7503254
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QGW014		
Sampling Date		2021/07/30		
COC Number		834487-10-01		
	UNITS	11-I	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO ₃)	mg/L	1700	1.0	7499417
Inorganics				
Total Ammonia-N	mg/L	5.6 (1)	0.050	7502908
Conductivity	umho/cm	6300	1.0	7503234
Total Dissolved Solids	mg/L	3620	10	7502180
Fluoride (F ⁻)	mg/L	0.72	0.10	7503220
Total Kjeldahl Nitrogen (TKN)	mg/L	5.6 (1)	1.0	7502901
Total Organic Carbon (TOC)	mg/L	9.2	0.40	7502886
Orthophosphate (P)	mg/L	<0.010	0.010	7503251
pH	pH	7.58		7503235
Phenols-4AAP	mg/L	0.0011	0.0010	7501979
Alkalinity (Total as CaCO ₃)	mg/L	140	1.0	7503233
Nitrite (N)	mg/L	<0.010	0.010	7503189
Dissolved Chloride (Cl ⁻)	mg/L	1300	10	7503254
Nitrate (N)	mg/L	<0.10	0.10	7503189
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7503189
Dissolved Bromide (Br ⁻)	mg/L	<10	10	7503254
Dissolved Sulphate (SO ₄)	mg/L	770	10	7503254
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) TKN < NH ₄ : Both values fall within acceptable RPD limits for duplicates and are likely equivalent.				



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGV930		QGV931		QGV932			QGV933		
Sampling Date		2021/07/30		2021/07/30		2021/07/30			2021/07/30		
COC Number		834487-08-01		834487-08-01		834487-08-01			834487-08-01		
	UNITS	P1-III	QC Batch	P3-II	RDL	P3-III	RDL	QC Batch	43-I	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	8.4	7502858	13	4.9	<4.9	4.9	7502986	<4.9	4.9	7502858
Dissolved Antimony (Sb)	ug/L	<0.50	7502858	<0.50	0.50	<0.50	0.50	7502986	<0.50	0.50	7502858
Dissolved Arsenic (As)	ug/L	<1.0	7502858	2.5	1.0	<1.0	1.0	7502986	<1.0	1.0	7502858
Dissolved Barium (Ba)	ug/L	60	7502858	16	2.0	41	2.0	7502986	12	2.0	7502858
Dissolved Beryllium (Be)	ug/L	<0.40	7502858	<0.40	0.40	<0.40	0.40	7502986	<0.40	0.40	7502858
Dissolved Bismuth (Bi)	ug/L	<1.0	7502858	<1.0	1.0	<1.0	1.0	7502986	<1.0	1.0	7502858
Dissolved Boron (B)	ug/L	170	7502858	490	10	310	10	7502986	800	10	7502858
Dissolved Cadmium (Cd)	ug/L	<0.090	7502858	<0.090	0.090	0.26	0.090	7502986	<0.090	0.090	7502858
Dissolved Calcium (Ca)	ug/L	140000	7502858	170000	200	270000	400	7502986	670000	1000	7502858
Dissolved Chromium (Cr)	ug/L	<5.0	7502858	<5.0	5.0	<5.0	5.0	7502986	<5.0	5.0	7502858
Dissolved Cobalt (Co)	ug/L	<0.50	7502858	<0.50	0.50	0.99	0.50	7502986	<0.50	0.50	7502858
Dissolved Copper (Cu)	ug/L	<0.90	7502858	<0.90	0.90	<0.90	0.90	7502986	<0.90	0.90	7502858
Dissolved Iron (Fe)	ug/L	<100	7502858	<100	100	<100	100	7502986	<100	100	7502858
Dissolved Lead (Pb)	ug/L	1.1	7502858	<0.50	0.50	<0.50	0.50	7502986	<0.50	0.50	7502858
Dissolved Lithium (Li)	ug/L	14	7502858	38	5.0	66	5.0	7502986	180	5.0	7502858
Dissolved Magnesium (Mg)	ug/L	50000	7502858	24000	50	94000	50	7502986	86000	50	7502858
Dissolved Manganese (Mn)	ug/L	88	7502858	36	2.0	87	2.0	7502986	69	2.0	7502858
Dissolved Molybdenum (Mo)	ug/L	14	7502858	9.2	0.50	<0.50	0.50	7502986	<0.50	0.50	7502858
Dissolved Nickel (Ni)	ug/L	6.3	7502858	2.9	1.0	4.6	1.0	7502986	<1.0	1.0	7502858
Dissolved Phosphorus (P)	ug/L	<100	7502858	<100	100	<100	100	7502986	<100	100	7502858
Dissolved Potassium (K)	ug/L	18000	7502858	35000	200	17000	200	7502986	31000	200	7502858
Dissolved Selenium (Se)	ug/L	<2.0	7502858	<2.0	2.0	<2.0	2.0	7502986	<2.0	2.0	7502858
Dissolved Silicon (Si)	ug/L	6400	7502858	8400	50	5100	50	7502986	4800	50	7502858
Dissolved Silver (Ag)	ug/L	<0.090	7502858	<0.090	0.090	<0.090	0.090	7502986	<0.090	0.090	7502858
Dissolved Sodium (Na)	ug/L	160000	7502858	330000	100	280000	100	7502986	480000	100	7502858
Dissolved Strontium (Sr)	ug/L	950	7502858	3000	1.0	5200	1.0	7502986	13000	1.0	7502858
Dissolved Tellurium (Te)	ug/L	<1.0	7502858	<1.0	1.0	<1.0	1.0	7502986	<1.0	1.0	7502858
Dissolved Thallium (Tl)	ug/L	<0.050	7502858	<0.050	0.050	<0.050	0.050	7502986	<0.050	0.050	7502858
Dissolved Tin (Sn)	ug/L	<1.0	7502858	<1.0	1.0	<1.0	1.0	7502986	<1.0	1.0	7502858
Dissolved Titanium (Ti)	ug/L	<5.0	7502858	<5.0	5.0	<5.0	5.0	7502986	<5.0	5.0	7502858
Dissolved Tungsten (W)	ug/L	1.1	7502858	5.1	1.0	<1.0	1.0	7502986	<1.0	1.0	7502858
Dissolved Uranium (U)	ug/L	1.1	7502858	0.11	0.10	0.18	0.10	7502986	<0.10	0.10	7502858
Dissolved Vanadium (V)	ug/L	0.61	7502858	0.57	0.50	<0.50	0.50	7502986	<0.50	0.50	7502858
Dissolved Zinc (Zn)	ug/L	49	7502858	<5.0	5.0	<5.0	5.0	7502986	<5.0	5.0	7502858
Dissolved Zirconium (Zr)	ug/L	<1.0	7502858	<1.0	1.0	<1.0	1.0	7502986	<1.0	1.0	7502858
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGV934		QGV935		QGV936		QGV937		
Sampling Date		2021/07/30		2021/07/30		2021/07/30		2021/07/30		
COC Number		834487-08-01		834487-08-01		834487-08-01		834487-08-01		
	UNITS	43-II	RDL	ST1	RDL	ST2	RDL	61-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	4.9	<4.9	4.9	<4.9	4.9	7502858
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7502858
Dissolved Arsenic (As)	ug/L	<1.0	1.0	1.2	1.0	2.6	1.0	<1.0	1.0	7502858
Dissolved Barium (Ba)	ug/L	15	2.0	49	2.0	27	2.0	15	2.0	7502858
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7502858
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502858
Dissolved Boron (B)	ug/L	640	10	400	10	490	10	1700	10	7502858
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7502858
Dissolved Calcium (Ca)	ug/L	280000	1000	180000	400	21000	200	660000	1000	7502858
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7502858
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7502858
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7502858
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	100	<100	100	7502858
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7502858
Dissolved Lithium (Li)	ug/L	84	5.0	51	5.0	26	5.0	250	5.0	7502858
Dissolved Magnesium (Mg)	ug/L	72000	50	76000	50	11000	50	99000	50	7502858
Dissolved Manganese (Mn)	ug/L	61	2.0	16	2.0	<2.0	2.0	100	2.0	7502858
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	2.3	0.50	49	0.50	<0.50	0.50	7502858
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	4.4	1.0	15	1.0	<1.0	1.0	7502858
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	<100	100	7502858
Dissolved Potassium (K)	ug/L	15000	200	46000	200	100000	200	28000	200	7502858
Dissolved Selenium (Se)	ug/L	<2.0	2.0	5.8	2.0	4.5	2.0	<2.0	2.0	7502858
Dissolved Silicon (Si)	ug/L	3600	50	6500	50	4200	50	4200	50	7502858
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7502858
Dissolved Sodium (Na)	ug/L	180000	100	750000	500	1600000	500	410000	100	7502858
Dissolved Strontium (Sr)	ug/L	11000	1.0	5100	1.0	2200	1.0	6100	1.0	7502858
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502858
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7502858
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502858
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7502858
Dissolved Tungsten (W)	ug/L	<1.0	1.0	5.8	1.0	18	1.0	<1.0	1.0	7502858
Dissolved Uranium (U)	ug/L	<0.10	0.10	0.15	0.10	<0.10	0.10	<0.10	0.10	7502858
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	0.83	0.50	<0.50	0.50	7502858
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7502858
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502858
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGV938		QGV939	QGV998			QGV999		
Sampling Date		2021/07/30		2021/07/30	2021/07/30			2021/07/30		
COC Number		834487-08-01		834487-08-01	834487-09-01			834487-09-01		
	UNITS	61-II	RDL	61-III	49-II	RDL	QC Batch	49-IV	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	4.9	<4.9	4.9	7502858	<4.9	4.9	7502986
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7502858	<0.50	0.50	7502986
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7502858	4.3	1.0	7502986
Dissolved Barium (Ba)	ug/L	14	2.0	21	28	2.0	7502858	49	2.0	7502986
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	7502858	<0.40	0.40	7502986
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
Dissolved Boron (B)	ug/L	3000	10	1900	560	10	7502858	53	10	7502986
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	7502858	<0.090	0.090	7502986
Dissolved Calcium (Ca)	ug/L	500000	400	660000	460000	1000	7502858	240000	200	7502986
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	7502858	<5.0	5.0	7502986
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7502858	7.7	0.50	7502986
Dissolved Copper (Cu)	ug/L	1.2	0.90	<0.90	<0.90	0.90	7502858	<0.90	0.90	7502986
Dissolved Iron (Fe)	ug/L	470	100	<100	<100	100	7502858	1100	100	7502986
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7502858	<0.50	0.50	7502986
Dissolved Lithium (Li)	ug/L	360	5.0	180	120	5.0	7502858	48	5.0	7502986
Dissolved Magnesium (Mg)	ug/L	85000	50	90000	230000	50	7502858	110000	50	7502986
Dissolved Manganese (Mn)	ug/L	190	2.0	55	64	2.0	7502858	50	2.0	7502986
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7502858	24	0.50	7502986
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7502858	40	1.0	7502986
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	100	7502858	<100	100	7502986
Dissolved Potassium (K)	ug/L	20000	200	23000	14000	200	7502858	5400	200	7502986
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.3	2.0	7502858	<2.0	2.0	7502986
Dissolved Silicon (Si)	ug/L	5900	50	4500	7900	50	7502858	4100	50	7502986
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	7502858	<0.090	0.090	7502986
Dissolved Sodium (Na)	ug/L	370000	100	250000	190000	100	7502858	380000	100	7502986
Dissolved Strontium (Sr)	ug/L	6300	1.0	7800	6400	1.0	7502858	3200	1.0	7502986
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	0.050	7502858	<0.050	0.050	7502986
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	7502858	<5.0	5.0	7502986
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
Dissolved Uranium (U)	ug/L	0.41	0.10	1.2	1.1	0.10	7502858	11	0.10	7502986
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7502858	0.60	0.50	7502986
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	7502858	26	5.0	7502986
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGW000	QGW000			QGW001		QGW002		
Sampling Date		2021/07/30	2021/07/30			2021/07/30		2021/07/30		
COC Number		834487-09-01	834487-09-01			834487-09-01		834487-09-01		
	UNITS	49-V	49-V Lab-Dup	RDL	QC Batch	57-I	QC Batch	G11	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	5.2	<4.9	4.9	7503005	4500	7502986	<4.9	4.9	7502858
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7503005	<0.50	7502986	<0.50	0.50	7502858
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	7503005	3.9	7502986	<1.0	1.0	7502858
Dissolved Barium (Ba)	ug/L	39	39	2.0	7503005	17	7502986	31	2.0	7502858
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	7503005	<0.40	7502986	<0.40	0.40	7502858
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	7503005	<1.0	7502986	<1.0	1.0	7502858
Dissolved Boron (B)	ug/L	810	810	10	7503005	460	7502986	130	10	7502858
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	7503005	<0.090	7502986	<0.090	0.090	7502858
Dissolved Calcium (Ca)	ug/L	500000	500000	1000	7503005	60000	7502986	190000	200	7502858
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	7503005	<5.0	7502986	<5.0	5.0	7502858
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	7503005	<0.50	7502986	1.1	0.50	7502858
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	7503005	<0.90	7502986	2.3	0.90	7502858
Dissolved Iron (Fe)	ug/L	320	320	100	7503005	<100	7502986	<100	100	7502858
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	7503005	<0.50	7502986	<0.50	0.50	7502858
Dissolved Lithium (Li)	ug/L	180	180	5.0	7503005	28	7502986	9.6	5.0	7502858
Dissolved Magnesium (Mg)	ug/L	220000	220000	50	7503005	1700	7502986	40000	50	7502858
Dissolved Manganese (Mn)	ug/L	230	220	2.0	7503005	<2.0	7502986	37	2.0	7502858
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	7503005	66	7502986	12	0.50	7502858
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	7503005	31	7502986	26	1.0	7502858
Dissolved Phosphorus (P)	ug/L	<100	<100	100	7503005	610	7502986	<100	100	7502858
Dissolved Potassium (K)	ug/L	15000	15000	200	7503005	180000	7502986	2800	200	7502858
Dissolved Selenium (Se)	ug/L	7.7	4.7	2.0	7503005	3.1	7502986	<2.0	2.0	7502858
Dissolved Silicon (Si)	ug/L	8000	7800	50	7503005	9500	7502986	3200	50	7502858
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	7503005	<0.090	7502986	<0.090	0.090	7502858
Dissolved Sodium (Na)	ug/L	140000	140000	100	7503005	2500000	7502986	650000	500	7502858
Dissolved Strontium (Sr)	ug/L	6500	6400	1.0	7503005	1300	7502986	1700	1.0	7502858
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	7503005	<1.0	7502986	<1.0	1.0	7502858
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7503005	<0.050	7502986	0.40	0.050	7502858
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	7503005	<1.0	7502986	<1.0	1.0	7502858
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7503005	<5.0	7502986	<5.0	5.0	7502858
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	7503005	22	7502986	<1.0	1.0	7502858
Dissolved Uranium (U)	ug/L	1.1	1.1	0.10	7503005	<0.10	7502986	18	0.10	7502858
Dissolved Vanadium (V)	ug/L	1.3	1.3	0.50	7503005	0.90	7502986	<0.50	0.50	7502858
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7503005	<5.0	7502986	570	5.0	7502858
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	7503005	<1.0	7502986	<1.0	1.0	7502858
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGW003	QGW003		QGW004		QGW005	QGW006		
Sampling Date		2021/07/30	2021/07/30		2021/07/30		2021/07/30	2021/07/30		
COC Number		834487-09-01	834487-09-01		834487-09-01		834487-09-01	834487-09-01		
	UNITS	G13	G13 Lab-Dup	RDL	67-II	RDL	67-III	33-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<4.9	4.9	<4.9	5.4	4.9	7502858
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7502858
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7502858
Dissolved Barium (Ba)	ug/L	33	33	2.0	14	2.0	45	120	2.0	7502858
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7502858
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7502858
Dissolved Boron (B)	ug/L	280	290	10	1700	10	880	390	10	7502858
Dissolved Cadmium (Cd)	ug/L	0.40	0.42	0.090	0.13	0.090	<0.090	0.35	0.090	7502858
Dissolved Calcium (Ca)	ug/L	180000	180000	200	290000	400	180000	480000	200	7502858
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7502858
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	2.0	0.50	<0.50	<0.50	0.50	7502858
Dissolved Copper (Cu)	ug/L	3.4	3.4	0.90	<0.90	0.90	<0.90	5.5	0.90	7502858
Dissolved Iron (Fe)	ug/L	<100	<100	100	260	100	540	<100	100	7502858
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7502858
Dissolved Lithium (Li)	ug/L	16	17	5.0	74	5.0	68	21	5.0	7502858
Dissolved Magnesium (Mg)	ug/L	48000	50000	50	64000	50	110000	13000	50	7502858
Dissolved Manganese (Mn)	ug/L	6.5	6.6	2.0	260	2.0	17	83	2.0	7502858
Dissolved Molybdenum (Mo)	ug/L	6.5	6.4	0.50	2.6	0.50	11	16	0.50	7502858
Dissolved Nickel (Ni)	ug/L	15	15	1.0	4.4	1.0	4.3	2.3	1.0	7502858
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	100	<100	<100	100	7502858
Dissolved Potassium (K)	ug/L	2100	2100	200	37000	200	19000	60000	200	7502858
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7502858
Dissolved Silicon (Si)	ug/L	4500	4700	50	5300	50	7800	4800	50	7502858
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7502858
Dissolved Sodium (Na)	ug/L	220000	220000	100	440000	100	350000	430000	100	7502858
Dissolved Strontium (Sr)	ug/L	1700	1700	1.0	5100	1.0	2200	2100	1.0	7502858
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7502858
Dissolved Thallium (Tl)	ug/L	0.20	0.21	0.050	<0.050	0.050	<0.050	<0.050	0.050	7502858
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7502858
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7502858
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	2.3	<1.0	1.0	7502858
Dissolved Uranium (U)	ug/L	11	11	0.10	0.25	0.10	4.7	<0.10	0.10	7502858
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7502858
Dissolved Zinc (Zn)	ug/L	560	560	5.0	<5.0	5.0	<5.0	<5.0	5.0	7502858
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7502858
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGW007	QGW008	QGW009			QGW010		
Sampling Date		2021/07/30	2021/07/30	2021/07/30			2021/07/30		
COC Number		834487-09-01	834487-10-01	834487-10-01			834487-10-01		
	UNITS	33-II	30-I	30-II	RDL	QC Batch	60-I	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	12	18	32	4.9	7502858	<4.9	4.9	7502986
Dissolved Antimony (Sb)	ug/L	<0.50	0.88	0.50	0.50	7502858	<0.50	0.50	7502986
Dissolved Arsenic (As)	ug/L	<1.0	6.7	3.3	1.0	7502858	<1.0	1.0	7502986
Dissolved Barium (Ba)	ug/L	72	70	26	2.0	7502858	28	2.0	7502986
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	0.40	7502858	<0.40	0.40	7502986
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
Dissolved Boron (B)	ug/L	300	110	58	10	7502858	520	10	7502986
Dissolved Cadmium (Cd)	ug/L	0.29	<0.090	<0.090	0.090	7502858	<0.090	0.090	7502986
Dissolved Calcium (Ca)	ug/L	280000	170000	160000	200	7502858	490000	400	7502986
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	5.0	7502858	<5.0	5.0	7502986
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	0.50	7502858	<0.50	0.50	7502986
Dissolved Copper (Cu)	ug/L	2.4	<0.90	4.6	0.90	7502858	<0.90	0.90	7502986
Dissolved Iron (Fe)	ug/L	<100	<100	<100	100	7502858	<100	100	7502986
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	0.50	7502858	<0.50	0.50	7502986
Dissolved Lithium (Li)	ug/L	22	54	8.7	5.0	7502858	71	5.0	7502986
Dissolved Magnesium (Mg)	ug/L	10000	<50	130	50	7502858	110000	50	7502986
Dissolved Manganese (Mn)	ug/L	89	<2.0	<2.0	2.0	7502858	90	2.0	7502986
Dissolved Molybdenum (Mo)	ug/L	17	18	43	0.50	7502858	<0.50	0.50	7502986
Dissolved Nickel (Ni)	ug/L	1.3	14	2.4	1.0	7502858	<1.0	1.0	7502986
Dissolved Phosphorus (P)	ug/L	110	<100	<100	100	7502858	<100	100	7502986
Dissolved Potassium (K)	ug/L	40000	110000	60000	200	7502858	33000	200	7502986
Dissolved Selenium (Se)	ug/L	<2.0	4.4	3.4	2.0	7502858	<2.0	2.0	7502986
Dissolved Silicon (Si)	ug/L	2800	4800	11000	50	7502858	4000	50	7502986
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	0.090	7502858	<0.090	0.090	7502986
Dissolved Sodium (Na)	ug/L	260000	410000	140000	100	7502858	680000	500	7502986
Dissolved Strontium (Sr)	ug/L	1500	2200	1400	1.0	7502858	7700	1.0	7502986
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.050	7502858	<0.050	0.050	7502986
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	7502858	<5.0	5.0	7502986
Dissolved Tungsten (W)	ug/L	6.4	<1.0	20	1.0	7502858	<1.0	1.0	7502986
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.10	7502858	<0.10	0.10	7502986
Dissolved Vanadium (V)	ug/L	1.4	<0.50	52	0.50	7502858	<0.50	0.50	7502986
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	7502858	<5.0	5.0	7502986
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	1.0	7502858	<1.0	1.0	7502986
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QGW011		QGW012			QGW013		QGW014		
Sampling Date		2021/07/30		2021/07/30			2021/07/30		2021/07/30		
COC Number		834487-10-01		834487-10-01			834487-10-01		834487-10-01		
	UNITS	60-II	QC Batch	60-III	RDL	QC Batch	60-IV	RDL	11-I	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	7502858	<4.9	4.9	7502986	<4.9	4.9	<4.9	4.9	7502997
Dissolved Antimony (Sb)	ug/L	<0.50	7502858	<0.50	0.50	7502986	<0.50	0.50	<0.50	0.50	7502997
Dissolved Arsenic (As)	ug/L	<1.0	7502858	<1.0	1.0	7502986	<1.0	1.0	<1.0	1.0	7502997
Dissolved Barium (Ba)	ug/L	26	7502858	35	2.0	7502986	15	2.0	27	2.0	7502997
Dissolved Beryllium (Be)	ug/L	<0.40	7502858	<0.40	0.40	7502986	<0.40	0.40	<0.40	0.40	7502997
Dissolved Bismuth (Bi)	ug/L	<1.0	7502858	<1.0	1.0	7502986	<1.0	1.0	<1.0	1.0	7502997
Dissolved Boron (B)	ug/L	580	7502858	670	10	7502986	1400	10	550	10	7502997
Dissolved Cadmium (Cd)	ug/L	<0.090	7502858	<0.090	0.090	7502986	<0.090	0.090	<0.090	0.090	7502997
Dissolved Calcium (Ca)	ug/L	380000	7502858	380000	200	7502986	680000	1000	490000	400	7502997
Dissolved Chromium (Cr)	ug/L	<5.0	7502858	<5.0	5.0	7502986	<5.0	5.0	<5.0	5.0	7502997
Dissolved Cobalt (Co)	ug/L	<0.50	7502858	<0.50	0.50	7502986	<0.50	0.50	<0.50	0.50	7502997
Dissolved Copper (Cu)	ug/L	<0.90	7502858	<0.90	0.90	7502986	<0.90	0.90	<0.90	0.90	7502997
Dissolved Iron (Fe)	ug/L	240	7502858	<100	100	7502986	180	100	<100	100	7502997
Dissolved Lead (Pb)	ug/L	<0.50	7502858	<0.50	0.50	7502986	<0.50	0.50	<0.50	0.50	7502997
Dissolved Lithium (Li)	ug/L	80	7502858	18	5.0	7502986	370	5.0	70	5.0	7502997
Dissolved Magnesium (Mg)	ug/L	100000	7502858	74000	50	7502986	120000	50	110000	50	7502997
Dissolved Manganese (Mn)	ug/L	140	7502858	85	2.0	7502986	99	2.0	90	2.0	7502997
Dissolved Molybdenum (Mo)	ug/L	<0.50	7502858	0.80	0.50	7502986	<0.50	0.50	<0.50	0.50	7502997
Dissolved Nickel (Ni)	ug/L	<1.0	7502858	2.2	1.0	7502986	<1.0	1.0	<1.0	1.0	7502997
Dissolved Phosphorus (P)	ug/L	<100	7502858	<100	100	7502986	<100	100	<100	100	7502997
Dissolved Potassium (K)	ug/L	20000	7502858	14000	200	7502986	38000	200	32000	200	7502997
Dissolved Selenium (Se)	ug/L	<2.0	7502858	<2.0	2.0	7502986	2.9	2.0	4.7	2.0	7502997
Dissolved Silicon (Si)	ug/L	5400	7502858	5700	50	7502986	3300	50	4000	50	7502997
Dissolved Silver (Ag)	ug/L	<0.090	7502858	<0.090	0.090	7502986	<0.090	0.090	<0.090	0.090	7502997
Dissolved Sodium (Na)	ug/L	290000	7502858	250000	100	7502986	680000	500	680000	500	7502997
Dissolved Strontium (Sr)	ug/L	4500	7502858	4700	1.0	7502986	8600	1.0	7600	1.0	7502997
Dissolved Tellurium (Te)	ug/L	<1.0	7502858	<1.0	1.0	7502986	1.1	1.0	<1.0	1.0	7502997
Dissolved Thallium (Tl)	ug/L	<0.050	7502858	<0.050	0.050	7502986	<0.050	0.050	<0.050	0.050	7502997
Dissolved Tin (Sn)	ug/L	<1.0	7502858	<1.0	1.0	7502986	<1.0	1.0	<1.0	1.0	7502997
Dissolved Titanium (Ti)	ug/L	<5.0	7502858	<5.0	5.0	7502986	<5.0	5.0	<5.0	5.0	7502997
Dissolved Tungsten (W)	ug/L	<1.0	7502858	<1.0	1.0	7502986	<1.0	1.0	<1.0	1.0	7502997
Dissolved Uranium (U)	ug/L	0.40	7502858	3.2	0.10	7502986	0.19	0.10	<0.10	0.10	7502997
Dissolved Vanadium (V)	ug/L	<0.50	7502858	<0.50	0.50	7502986	<0.50	0.50	<0.50	0.50	7502997
Dissolved Zinc (Zn)	ug/L	<5.0	7502858	29	5.0	7502986	<5.0	5.0	<5.0	5.0	7502997
Dissolved Zirconium (Zr)	ug/L	<1.0	7502858	<1.0	1.0	7502986	<1.0	1.0	<1.0	1.0	7502997

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGV930
Sample ID: P1-III
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7504752	N/A	2021/08/06	Surinder Rai
Anions	IC	7501131	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7504754	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7504755	2021/08/06	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502674	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7500193	N/A	2021/08/05	Chandra Nandlal
pH	AT	7504753	2021/08/06	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7500895	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7503343	N/A	2021/08/05	Julianna Castiglione

BV Labs ID: QGV930 Dup
Sample ID: P1-III
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan

BV Labs ID: QGV931
Sample ID: P3-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502674	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7503343	N/A	2021/08/05	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGV931 Dup
Sample ID: P3-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai

BV Labs ID: QGV932
Sample ID: P3-III
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503672	N/A	2021/08/06	Surinder Rai
Anions	IC	7504516	N/A	2021/08/06	Fari Dehdezi
Conductivity	AT	7503679	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503655	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502674	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503680	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503825	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7503343	N/A	2021/08/05	Julianna Castiglione

BV Labs ID: QGV933
Sample ID: 43-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502674	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7503343	N/A	2021/08/05	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGV933 Dup
Sample ID: 43-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/10	Massarat Jan

BV Labs ID: QGV934
Sample ID: 43-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGV935
Sample ID: ST1
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione



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VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGV936
Sample ID: ST2
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGV937
Sample ID: 61-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGV938
Sample ID: 61-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk



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VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGV938
Sample ID: 61-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGV939
Sample ID: 61-III
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGV998
Sample ID: 49-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502674	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/06	Deonarine Ramnarine



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VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGV998
Sample ID: 49-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502180	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7503343	N/A	2021/08/05	Julianna Castiglione

BV Labs ID: QGV999
Sample ID: 49-IV
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503672	N/A	2021/08/06	Surinder Rai
Anions	IC	7504516	N/A	2021/08/06	Fari Dehdezi
Conductivity	AT	7503679	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503655	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503680	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503825	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502180	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGW000
Sample ID: 49-V
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7504516	N/A	2021/08/06	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/11	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7503005	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGW000 Dup
Sample ID: 49-V
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7503005	N/A	2021/08/11	Nan Raykha
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan

BV Labs ID: QGW001
Sample ID: 57-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/10	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502674	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503825	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7503343	N/A	2021/08/05	Julianna Castiglione

BV Labs ID: QGW002
Sample ID: G11
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503672	N/A	2021/08/06	Surinder Rai
Anions	IC	7504516	N/A	2021/08/06	Fari Dehdezi
Conductivity	AT	7503679	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503655	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503680	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503825	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione



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VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGW003
Sample ID: G13
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502674	N/A	2021/08/05	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7503343	N/A	2021/08/05	Julianna Castiglione

BV Labs ID: QGW003 Dup
Sample ID: G13
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu

BV Labs ID: QGW004
Sample ID: 67-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGW005
Sample ID: 67-III
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503672	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503679	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503655	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503680	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGW005 Dup
Sample ID: 67-III
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503672	N/A	2021/08/06	Surinder Rai
Conductivity	AT	7503679	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503655	2021/08/05	2021/08/06	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503680	2021/08/05	2021/08/06	Surinder Rai

BV Labs ID: QGW006
Sample ID: 33-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGW007
Sample ID: 33-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGW007 Dup
Sample ID: 33-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi

BV Labs ID: QGW008
Sample ID: 30-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione



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VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGW009
Sample ID: 30-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503672	N/A	2021/08/06	Surinder Rai
Anions	IC	7504516	N/A	2021/08/06	Fari Dehdezi
Conductivity	AT	7503679	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503655	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503680	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503825	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502177	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGW010
Sample ID: 60-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503672	N/A	2021/08/06	Surinder Rai
Anions	IC	7504516	N/A	2021/08/06	Fari Dehdezi
Conductivity	AT	7503679	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503655	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/10	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503245	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503680	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503825	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502180	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGW010 Dup
Sample ID: 60-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7502180	2021/08/05	2021/08/06	Kristen Chan



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGW011
Sample ID: 60-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/06	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502858	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502180	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGW011 Dup
Sample ID: 60-II
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGW012
Sample ID: 60-III
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502180	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QGW013
Sample ID: 60-IV
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502997	N/A	2021/08/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502016	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502180	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione

BV Labs ID: QGW014
Sample ID: 11-I
Matrix: Water

Collected: 2021/07/30
Shipped:
Received: 2021/08/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7503233	N/A	2021/08/06	Surinder Rai
Anions	IC	7503254	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7503234	N/A	2021/08/06	Surinder Rai
Fluoride	ISE	7503220	2021/08/05	2021/08/06	Surinder Rai
Hardness (calculated as CaCO3)		7499417	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502997	N/A	2021/08/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7502908	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7503189	N/A	2021/08/06	Chandra Nandlal
pH	AT	7503235	2021/08/05	2021/08/06	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7501979	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7503251	N/A	2021/08/06	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502180	2021/08/05	2021/08/06	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7502901	2021/08/05	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7502886	N/A	2021/08/06	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	4.7°C
Package 2	1.7°C
Package 3	2.3°C
Package 4	1.3°C
Package 5	0.7°C

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

Sample QGV935 [ST1] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QGV936 [ST2] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QGW001 [57-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QGW004 [67-II] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QGW014 [11-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1L7895
Report Date: 2021/08/13

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
7500193	Nitrate (N)	2021/08/05	99	80 - 120	101	80 - 120	<0.10	mg/L	2.5	20		
7500193	Nitrite (N)	2021/08/05	106	80 - 120	108	80 - 120	<0.010	mg/L	1.0	20		
7500895	Orthophosphate (P)	2021/08/05	107	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7501131	Dissolved Bromide (Br-)	2021/08/10	100	80 - 120	106	80 - 120	<1.0	mg/L	NC	20		
7501131	Dissolved Chloride (Cl-)	2021/08/10	96	80 - 120	102	70 - 130	<1.0	mg/L	9.6	20		
7501131	Dissolved Sulphate (SO4)	2021/08/10	97	80 - 120	102	80 - 120	<1.0	mg/L	11	20		
7501979	Phenols-4AAP	2021/08/05	102	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20		
7502016	Phenols-4AAP	2021/08/05	104	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20		
7502177	Total Dissolved Solids	2021/08/06					<10	mg/L	0.42	25	95	90 - 110
7502180	Total Dissolved Solids	2021/08/06					<10	mg/L	2.1	25	97	90 - 110
7502674	Total Ammonia-N	2021/08/05	101	75 - 125	102	80 - 120	<0.050	mg/L	3.5	20		
7502858	Dissolved Aluminum (Al)	2021/08/05	98	80 - 120	103	80 - 120	<4.9	ug/L	NC	20		
7502858	Dissolved Antimony (Sb)	2021/08/05	104	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7502858	Dissolved Arsenic (As)	2021/08/05	98	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7502858	Dissolved Barium (Ba)	2021/08/05	99	80 - 120	100	80 - 120	<2.0	ug/L	0.20	20		
7502858	Dissolved Beryllium (Be)	2021/08/05	98	80 - 120	92	80 - 120	<0.40	ug/L	NC	20		
7502858	Dissolved Bismuth (Bi)	2021/08/05	89	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7502858	Dissolved Boron (B)	2021/08/05	96	80 - 120	92	80 - 120	<10	ug/L	2.3	20		
7502858	Dissolved Cadmium (Cd)	2021/08/05	101	80 - 120	102	80 - 120	<0.090	ug/L	4.6	20		
7502858	Dissolved Calcium (Ca)	2021/08/05	NC	80 - 120	101	80 - 120	<200	ug/L	2.1	20		
7502858	Dissolved Chromium (Cr)	2021/08/05	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7502858	Dissolved Cobalt (Co)	2021/08/05	97	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7502858	Dissolved Copper (Cu)	2021/08/05	101	80 - 120	100	80 - 120	<0.90	ug/L	1.0	20		
7502858	Dissolved Iron (Fe)	2021/08/05	95	80 - 120	97	80 - 120	<100	ug/L	NC	20		
7502858	Dissolved Lead (Pb)	2021/08/05	95	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7502858	Dissolved Lithium (Li)	2021/08/05	98	80 - 120	98	80 - 120	<5.0	ug/L	4.2	20		
7502858	Dissolved Magnesium (Mg)	2021/08/05	NC	80 - 120	100	80 - 120	<50	ug/L	2.5	20		
7502858	Dissolved Manganese (Mn)	2021/08/05	98	80 - 120	98	80 - 120	<2.0	ug/L	2.1	20		
7502858	Dissolved Molybdenum (Mo)	2021/08/05	105	80 - 120	100	80 - 120	<0.50	ug/L	1.7	20		
7502858	Dissolved Nickel (Ni)	2021/08/05	93	80 - 120	97	80 - 120	<1.0	ug/L	1.1	20		
7502858	Dissolved Phosphorus (P)	2021/08/05	107	80 - 120	116	80 - 120	<100	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1L7895

Report Date: 2021/08/13

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
7502858	Dissolved Potassium (K)	2021/08/05	99	80 - 120	98	80 - 120	<200	ug/L	0.0055	20		
7502858	Dissolved Selenium (Se)	2021/08/05	96	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7502858	Dissolved Silicon (Si)	2021/08/05	99	80 - 120	105	80 - 120	<50	ug/L	3.2	20		
7502858	Dissolved Silver (Ag)	2021/08/05	94	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7502858	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	98	80 - 120	<100	ug/L	0.84	20		
7502858	Dissolved Strontium (Sr)	2021/08/05	NC	80 - 120	100	80 - 120	<1.0	ug/L	2.3	20		
7502858	Dissolved Tellurium (Te)	2021/08/05	100	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7502858	Dissolved Thallium (Tl)	2021/08/05	92	80 - 120	100	80 - 120	<0.050	ug/L	4.8	20		
7502858	Dissolved Tin (Sn)	2021/08/05	107	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7502858	Dissolved Titanium (Ti)	2021/08/05	98	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
7502858	Dissolved Tungsten (W)	2021/08/05	103	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
7502858	Dissolved Uranium (U)	2021/08/05	97	80 - 120	103	80 - 120	<0.10	ug/L	1.2	20		
7502858	Dissolved Vanadium (V)	2021/08/05	94	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7502858	Dissolved Zinc (Zn)	2021/08/05	NC	80 - 120	99	80 - 120	<5.0	ug/L	0.084	20		
7502858	Dissolved Zirconium (Zr)	2021/08/05	103	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7502886	Total Organic Carbon (TOC)	2021/08/06	98	80 - 120	100	80 - 120	<0.40	mg/L	2.6	20		
7502901	Total Kjeldahl Nitrogen (TKN)	2021/08/09	NC	80 - 120	102	80 - 120	<0.10	mg/L	2.8	20	101	80 - 120
7502908	Total Ammonia-N	2021/08/09	98	75 - 125	101	80 - 120	<0.050	mg/L	1.1	20		
7502986	Dissolved Aluminum (Al)	2021/08/06	98	80 - 120	100	80 - 120	<4.9	ug/L	NC	20		
7502986	Dissolved Antimony (Sb)	2021/08/06	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Arsenic (As)	2021/08/06	98	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Barium (Ba)	2021/08/06	98	80 - 120	98	80 - 120	<2.0	ug/L	0.75	20		
7502986	Dissolved Beryllium (Be)	2021/08/06	97	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
7502986	Dissolved Bismuth (Bi)	2021/08/06	96	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Boron (B)	2021/08/06	NC	80 - 120	93	80 - 120	<10	ug/L	15	20		
7502986	Dissolved Cadmium (Cd)	2021/08/06	100	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7502986	Dissolved Calcium (Ca)	2021/08/06	NC	80 - 120	105	80 - 120	<200	ug/L	0.49	20		
7502986	Dissolved Chromium (Cr)	2021/08/06	98	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
7502986	Dissolved Cobalt (Co)	2021/08/06	98	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Copper (Cu)	2021/08/06	101	80 - 120	104	80 - 120	<0.90	ug/L	NC	20		
7502986	Dissolved Iron (Fe)	2021/08/06	97	80 - 120	98	80 - 120	<100	ug/L	NC	20		



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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
7502986	Dissolved Lead (Pb)	2021/08/06	97	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Lithium (Li)	2021/08/06	101	80 - 120	102	80 - 120	<5.0	ug/L	6.7	20		
7502986	Dissolved Magnesium (Mg)	2021/08/06	NC	80 - 120	102	80 - 120	<50	ug/L	1.7	20		
7502986	Dissolved Manganese (Mn)	2021/08/06	97	80 - 120	98	80 - 120	<2.0	ug/L	2.8	20		
7502986	Dissolved Molybdenum (Mo)	2021/08/06	107	80 - 120	106	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Nickel (Ni)	2021/08/06	94	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Phosphorus (P)	2021/08/06	101	80 - 120	104	80 - 120	<100	ug/L	NC	20		
7502986	Dissolved Potassium (K)	2021/08/06	97	80 - 120	101	80 - 120	<200	ug/L	1.0	20		
7502986	Dissolved Selenium (Se)	2021/08/06	92	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7502986	Dissolved Silicon (Si)	2021/08/06	102	80 - 120	106	80 - 120	<50	ug/L	5.4	20		
7502986	Dissolved Silver (Ag)	2021/08/06	71 (1)	80 - 120	90	80 - 120	<0.090	ug/L	NC	20		
7502986	Dissolved Sodium (Na)	2021/08/06	NC	80 - 120	101	80 - 120	<100	ug/L	0.68	20		
7502986	Dissolved Strontium (Sr)	2021/08/06	NC	80 - 120	97	80 - 120	<1.0	ug/L	4.2	20		
7502986	Dissolved Tellurium (Te)	2021/08/06	84	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Thallium (Tl)	2021/08/06	95	80 - 120	94	80 - 120	<0.050	ug/L	NC	20		
7502986	Dissolved Tin (Sn)	2021/08/06	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Titanium (Ti)	2021/08/06	99	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7502986	Dissolved Tungsten (W)	2021/08/06	105	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Uranium (U)	2021/08/06	97	80 - 120	96	80 - 120	<0.10	ug/L	12	20		
7502986	Dissolved Vanadium (V)	2021/08/06	98	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Zinc (Zn)	2021/08/06	93	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7502986	Dissolved Zirconium (Zr)	2021/08/06	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7502997	Dissolved Aluminum (Al)	2021/08/06	99	80 - 120	100	80 - 120	<4.9	ug/L				
7502997	Dissolved Antimony (Sb)	2021/08/06	104	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7502997	Dissolved Arsenic (As)	2021/08/06	101	80 - 120	100	80 - 120	<1.0	ug/L	16	20		
7502997	Dissolved Barium (Ba)	2021/08/06	95	80 - 120	97	80 - 120	<2.0	ug/L	1.8	20		
7502997	Dissolved Beryllium (Be)	2021/08/06	97	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7502997	Dissolved Bismuth (Bi)	2021/08/06	94	80 - 120	97	80 - 120	<1.0	ug/L				
7502997	Dissolved Boron (B)	2021/08/06	98	80 - 120	98	80 - 120	<10	ug/L	0.89	20		
7502997	Dissolved Cadmium (Cd)	2021/08/06	97	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7502997	Dissolved Calcium (Ca)	2021/08/06	NC	80 - 120	99	80 - 120	<200	ug/L				



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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
7502997	Dissolved Chromium (Cr)	2021/08/06	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7502997	Dissolved Cobalt (Co)	2021/08/06	95	80 - 120	96	80 - 120	<0.50	ug/L	3.8	20		
7502997	Dissolved Copper (Cu)	2021/08/06	96	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7502997	Dissolved Iron (Fe)	2021/08/06	97	80 - 120	98	80 - 120	<100	ug/L				
7502997	Dissolved Lead (Pb)	2021/08/06	93	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7502997	Dissolved Lithium (Li)	2021/08/06	102	80 - 120	102	80 - 120	<5.0	ug/L				
7502997	Dissolved Magnesium (Mg)	2021/08/06	NC	80 - 120	98	80 - 120	<50	ug/L				
7502997	Dissolved Manganese (Mn)	2021/08/06	NC	80 - 120	97	80 - 120	<2.0	ug/L				
7502997	Dissolved Molybdenum (Mo)	2021/08/06	102	80 - 120	100	80 - 120	<0.50	ug/L	2.9	20		
7502997	Dissolved Nickel (Ni)	2021/08/06	95	80 - 120	98	80 - 120	<1.0	ug/L	0.94	20		
7502997	Dissolved Phosphorus (P)	2021/08/06	104	80 - 120	101	80 - 120	<100	ug/L				
7502997	Dissolved Potassium (K)	2021/08/06	98	80 - 120	98	80 - 120	<200	ug/L				
7502997	Dissolved Selenium (Se)	2021/08/06	94	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7502997	Dissolved Silicon (Si)	2021/08/06	98	80 - 120	99	80 - 120	<50	ug/L				
7502997	Dissolved Silver (Ag)	2021/08/06	53 (2)	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7502997	Dissolved Sodium (Na)	2021/08/06	NC	80 - 120	99	80 - 120	<100	ug/L				
7502997	Dissolved Strontium (Sr)	2021/08/06	NC	80 - 120	97	80 - 120	<1.0	ug/L				
7502997	Dissolved Tellurium (Te)	2021/08/06	84	80 - 120	97	80 - 120	<1.0	ug/L				
7502997	Dissolved Thallium (Tl)	2021/08/06	94	80 - 120	96	80 - 120	<0.050	ug/L	NC	20		
7502997	Dissolved Tin (Sn)	2021/08/06	101	80 - 120	100	80 - 120	<1.0	ug/L				
7502997	Dissolved Titanium (Ti)	2021/08/06	97	80 - 120	97	80 - 120	<5.0	ug/L				
7502997	Dissolved Tungsten (W)	2021/08/06	99	80 - 120	97	80 - 120	<1.0	ug/L				
7502997	Dissolved Uranium (U)	2021/08/06	101	80 - 120	102	80 - 120	<0.10	ug/L	0.89	20		
7502997	Dissolved Vanadium (V)	2021/08/06	98	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7502997	Dissolved Zinc (Zn)	2021/08/06	93	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7502997	Dissolved Zirconium (Zr)	2021/08/06	104	80 - 120	101	80 - 120	<1.0	ug/L				
7503005	Dissolved Aluminum (Al)	2021/08/11	95	80 - 120	94	80 - 120	<4.9	ug/L	5.0	20		
7503005	Dissolved Antimony (Sb)	2021/08/11	102	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7503005	Dissolved Arsenic (As)	2021/08/11	100	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7503005	Dissolved Barium (Ba)	2021/08/11	100	80 - 120	102	80 - 120	<2.0	ug/L	1.2	20		
7503005	Dissolved Beryllium (Be)	2021/08/11	103	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		



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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
7503005	Dissolved Bismuth (Bi)	2021/08/11	84	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7503005	Dissolved Boron (B)	2021/08/11	NC	80 - 120	95	80 - 120	<10	ug/L	0.039	20		
7503005	Dissolved Cadmium (Cd)	2021/08/11	100	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7503005	Dissolved Calcium (Ca)	2021/08/11	NC	80 - 120	94	80 - 120	<200	ug/L	0.44	20		
7503005	Dissolved Chromium (Cr)	2021/08/11	96	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7503005	Dissolved Cobalt (Co)	2021/08/11	96	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7503005	Dissolved Copper (Cu)	2021/08/11	88	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7503005	Dissolved Iron (Fe)	2021/08/11	96	80 - 120	97	80 - 120	<100	ug/L	0.73	20		
7503005	Dissolved Lead (Pb)	2021/08/11	96	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7503005	Dissolved Lithium (Li)	2021/08/11	101	80 - 120	105	80 - 120	<5.0	ug/L	2.3	20		
7503005	Dissolved Magnesium (Mg)	2021/08/11	NC	80 - 120	96	80 - 120	<50	ug/L	0.024	20		
7503005	Dissolved Manganese (Mn)	2021/08/11	95	80 - 120	98	80 - 120	<2.0	ug/L	1.3	20		
7503005	Dissolved Molybdenum (Mo)	2021/08/11	107	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7503005	Dissolved Nickel (Ni)	2021/08/11	92	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7503005	Dissolved Phosphorus (P)	2021/08/11	98	80 - 120	104	80 - 120	<100	ug/L	NC	20		
7503005	Dissolved Potassium (K)	2021/08/11	98	80 - 120	96	80 - 120	<200	ug/L	0.029	20		
7503005	Dissolved Selenium (Se)	2021/08/11	71 (3)	80 - 120	97	80 - 120	<2.0	ug/L	NC	20		
7503005	Dissolved Silicon (Si)	2021/08/11	95	80 - 120	95	80 - 120	<50	ug/L	2.7	20		
7503005	Dissolved Silver (Ag)	2021/08/11	86	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7503005	Dissolved Sodium (Na)	2021/08/11	NC	80 - 120	97	80 - 120	<100	ug/L	0.50	20		
7503005	Dissolved Strontium (Sr)	2021/08/11	NC	80 - 120	98	80 - 120	<1.0	ug/L	0.61	20		
7503005	Dissolved Tellurium (Te)	2021/08/11	85	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7503005	Dissolved Thallium (Tl)	2021/08/11	98	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
7503005	Dissolved Tin (Sn)	2021/08/11	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7503005	Dissolved Titanium (Ti)	2021/08/11	91	80 - 120	91	80 - 120	<5.0	ug/L	NC	20		
7503005	Dissolved Tungsten (W)	2021/08/11	105	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7503005	Dissolved Uranium (U)	2021/08/11	99	80 - 120	101	80 - 120	<0.10	ug/L	2.5	20		
7503005	Dissolved Vanadium (V)	2021/08/11	100	80 - 120	98	80 - 120	<0.50	ug/L	0.32	20		
7503005	Dissolved Zinc (Zn)	2021/08/11	92	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7503005	Dissolved Zirconium (Zr)	2021/08/11	107	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7503189	Nitrate (N)	2021/08/06	95	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		



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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
7503189	Nitrite (N)	2021/08/06	105	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7503220	Fluoride (F-)	2021/08/06	96	80 - 120	97	80 - 120	<0.10	mg/L	0.45	20		
7503233	Alkalinity (Total as CaCO3)	2021/08/06			96	85 - 115	<1.0	mg/L	2.5	20		
7503234	Conductivity	2021/08/06			101	85 - 115	<1.0	umho/cm	0	25		
7503235	pH	2021/08/06			102	98 - 103			1.1	N/A		
7503245	Nitrate (N)	2021/08/06	97	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		
7503245	Nitrite (N)	2021/08/06	106	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7503251	Orthophosphate (P)	2021/08/06	120	75 - 125	99	80 - 120	<0.010	mg/L	0.081	25		
7503254	Dissolved Bromide (Br-)	2021/08/10	101	80 - 120	100	80 - 120	<1.0	mg/L	NC	20		
7503254	Dissolved Chloride (Cl-)	2021/08/10	NC	80 - 120	97	70 - 130	<1.0	mg/L	6.5	20		
7503254	Dissolved Sulphate (SO4)	2021/08/10	NC	80 - 120	96	80 - 120	<1.0	mg/L	6.7	20		
7503330	Total Kjeldahl Nitrogen (TKN)	2021/08/10	NC	80 - 120	102	80 - 120	<0.10	mg/L	1.2	20	96	80 - 120
7503343	Total Organic Carbon (TOC)	2021/08/05	100	80 - 120	98	80 - 120	<0.40	mg/L	NC	20		
7503655	Fluoride (F-)	2021/08/06	92	80 - 120	96	80 - 120	<0.10	mg/L	1.4	20		
7503672	Alkalinity (Total as CaCO3)	2021/08/06			99	85 - 115	<1.0	mg/L	0.14	20		
7503679	Conductivity	2021/08/06			102	85 - 115	<1.0	umho/cm	0.29	25		
7503680	pH	2021/08/06			102	98 - 103			0.0013	N/A		
7503825	Orthophosphate (P)	2021/08/06	NC	75 - 125	99	80 - 120	<0.010	mg/L	0.45	25		
7504516	Dissolved Bromide (Br-)	2021/08/06	103	80 - 120	103	80 - 120	<1.0	mg/L	NC	20		
7504516	Dissolved Chloride (Cl-)	2021/08/06	NC	80 - 120	100	70 - 130	<1.0	mg/L	3.5	20		
7504516	Dissolved Sulphate (SO4)	2021/08/06	97	80 - 120	98	80 - 120	<1.0	mg/L	3.3	20		
7504752	Alkalinity (Total as CaCO3)	2021/08/06			97	85 - 115	<1.0	mg/L	0.23	20		
7504753	pH	2021/08/06			102	98 - 103			0.44	N/A		
7504754	Conductivity	2021/08/06			101	85 - 115	<1.0	umho/cm	0.55	25		



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Terrapure Environmental

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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
7504755	Fluoride (F-)	2021/08/06	95	80 - 120	101	80 - 120	<0.10	mg/L	0.46	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) Matrix Spike exceeds acceptance limits, sample inhomogeneity suspected.

(2) Matrix Spike exceeds acceptance limits, probable matrix interference.

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




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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.



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

03-Aug-21 16:13
Jolanta Goralczyk
C1L7895

Order #:
487
Manager:
Jolalczyk

M1K ENV-730

Turnaround Time (TAT) Required:

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	Reg 406 Table _____
			<input type="checkbox"/> Other _____	

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals Hg / Cr VI	List "A" GW Monitoring												
1	P1-III	July 30 2021	NA	GW	Y	X												
2	P3-II			GW	Y	X												
3	P3-III			GW	Y	X												
4	43-I			GW	Y	X												
5	43-II			GW	Y	X												
6	ST1			GW	Y	X												
7	ST2			GW	Y	X												
8	61-I			GW	Y	X												
9	61-II			GW	Y	X												
10	61-III			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.

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

of Bottles: 6
Comments:

* RELINQUISHED BY: (Signature/Print) D Taylor / Dan Taylor	Date: (YY/MM/DD) 21/08/03	Time 9:30	RECEIVED BY: (Signature/Print) Alisal NARAL PATEL	Date: (YY/MM/DD) 2021/08/03	Time 16:13	# jars used and not submitted
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Laboratory Use Only		Temperature (°C) on Receipt See ACTR	Custody Seal Present Intact	Yes	No
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* 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: 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: GW Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: COC #: Project Manager: Jolanta Goralczyk C#834487-09-01	
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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:			
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle):													Regular (Standard) TAT:	
<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		Metals <u>g/g</u> / Cr VI													(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 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm 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 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 _____																					
Include Criteria on Certificate of Analysis (Y/N)?																					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix		List "A" - GW Monitoring													# of Bottles		
1	49-II	July 30 2021	NA	GW	Y	X													6		
2	49-IV			GW	Y	X													6		
3	49-V			GW	Y	X													6		
4	57-I			GW	Y	X													6		
5	611			GW	Y	X													6		
6	613			GW	Y	X													6		
7	67-II			GW	Y	X													6		
8	67-III			GW	Y	X													6		
9	33-I			GW	Y	X													6		
10	33-II			GW	Y	X													6		

* 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				
[Signature] / Dan Taylor		21/08/03	9:30	See pg 1					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.

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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		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		COC #:	
Stoney Creek ON L8J 1X5				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:		C#834487-10-01	

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:			
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle):											Regular (Standard) TAT:	
<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			Metals, Hg / Cr VI											Regular (Standard) TAT: <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														Standard TAT = 5-7 Working days for most tests.	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____													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			<input type="checkbox"/> PWQO	Reg 406 Table _____													Job Specific Rush TAT (if applies to entire submission)		
Include Criteria on Certificate of Analysis (Y/N)?																		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	30-I	July 30 2021	NA	GW	Y	X													
2	30-II			GW	Y	X													
3	60-I			GW	Y	X													
4	60-II			GW	Y	X													
5	60-III			GW	Y	X													
6	60-IV			GW	Y	X													
7	11-I			GW	Y	X													
8				GW		X													
9				GW		X													
10				GW		X													

* 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				
D. Taylor / Dan Taylor				See pg 11				Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
										Intact		

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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. #: 834487-11-01, 834487-12-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/13
 Report #: R6764177
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L8915

Received: 2021/08/04, 15:27

Sample Matrix: Water
 # Samples Received: 13

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	13	N/A	2021/08/09	CAM SOP-00448	SM 23 2320 B m
Anions	12	N/A	2021/08/10	CAM SOP-00435	SM 23 4110 B m
Anions	1	N/A	2021/08/11	CAM SOP-00435	SM 23 4110 B m
Conductivity	13	N/A	2021/08/09	CAM SOP-00414	SM 23 2510 m
Fluoride	11	2021/08/07	2021/08/10	CAM SOP-00449	SM 23 4500-F C m
Fluoride	2	2021/08/07	2021/08/09	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	4	N/A	2021/08/10	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	9	N/A	2021/08/09	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	4	N/A	2021/08/10	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	9	N/A	2021/08/06	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	4	N/A	2021/08/10	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	9	N/A	2021/08/09	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	13	N/A	2021/08/09	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	13	2021/08/07	2021/08/09	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	8	N/A	2021/08/05	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	5	N/A	2021/08/06	CAM SOP-00444	OMOE E3179 m
Orthophosphate	13	N/A	2021/08/09	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	8	2021/08/05	2021/08/09	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	5	2021/08/06	2021/08/09	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	4	2021/08/06	2021/08/10	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	9	2021/08/06	2021/08/09	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	13	N/A	2021/08/07	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.



Your Project #: GW
Your C.O.C. #: 834487-11-01, 834487-12-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/13
Report #: R6764177
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L8915

Received: 2021/08/04, 15:27

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
13 Aug 2021 17:14:48

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 #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHB220			QHB221			QHB221		
Sampling Date		2021/08/03			2021/08/03			2021/08/03		
COC Number		834487-11-01			834487-11-01			834487-11-01		
	UNITS	47-I	RDL	QC Batch	47-IIR	RDL	QC Batch	47-IIR Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1800	1.0	7500554	450	1.0	7500554			
Inorganics										
Total Ammonia-N	mg/L	4.9 (1)	0.050	7505809	0.22 (1)	0.050	7505818			
Conductivity	umho/cm	4300	1.0	7506972	1100	1.0	7506972			
Total Dissolved Solids	mg/L	3200	10	7505286	735	10	7505286			
Fluoride (F-)	mg/L	0.86	0.10	7506967	0.52	0.10	7506967			
Total Kjeldahl Nitrogen (TKN)	mg/L	4.6 (1)	0.50	7505720	0.19 (1)	0.10	7505667			
Total Organic Carbon (TOC)	mg/L	2.6	0.40	7505588	3.9	0.40	7505588			
Orthophosphate (P)	mg/L	<0.010	0.010	7506987	<0.010	0.010	7506987			
pH	pH	7.80		7506973	7.92		7506973			
Phenols-4AAP	mg/L	<0.0010	0.0010	7502246	<0.0010	0.0010	7502246			
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7506970	260	1.0	7506970			
Nitrite (N)	mg/L	<0.010	0.010	7506947	<0.010	0.010	7506945			
Dissolved Chloride (Cl-)	mg/L	440	5.0	7507011	98	1.0	7507011	84	1.0	7507011
Nitrate (N)	mg/L	<0.10	0.10	7506947	<0.10	0.10	7506945			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7506947	<0.10	0.10	7506945			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7507011	<1.0	1.0	7507011	<1.0	1.0	7507011
Dissolved Sulphate (SO4)	mg/L	1500	5.0	7507011	190	1.0	7507011	190	1.0	7507011

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHB222			QHB222			QHB223		
Sampling Date		2021/08/03			2021/08/03			2021/08/03		
COC Number		834487-11-01			834487-11-01			834487-11-01		
	UNITS	47-III	RDL	QC Batch	47-III Lab-Dup	RDL	QC Batch	47-IV	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1100	1.0	7500554				510	1.0	7500554
Inorganics										
Total Ammonia-N	mg/L	1.2	0.050	7505809				<0.050	0.050	7505809
Conductivity	umho/cm	2300	1.0	7506972				1300	1.0	7506972
Total Dissolved Solids	mg/L	1800	10	7505286	1810	10	7505286	870	10	7502754
Fluoride (F-)	mg/L	0.58	0.10	7506967				0.52	0.10	7506967
Total Kjeldahl Nitrogen (TKN)	mg/L	1.4	0.10	7505720				0.37	0.10	7505720
Total Organic Carbon (TOC)	mg/L	3.3	0.40	7505588				4.1	0.40	7505588
Orthophosphate (P)	mg/L	<0.010	0.010	7506987				<0.010	0.010	7506987
pH	pH	7.74		7506973				7.86		7506973
Phenols-4AAP	mg/L	<0.0010	0.0010	7502246				<0.0010	0.0010	7502246
Alkalinity (Total as CaCO3)	mg/L	350	1.0	7506970				270	1.0	7506970
Nitrite (N)	mg/L	<0.010	0.010	7506945				<0.010	0.010	7506945
Dissolved Chloride (Cl-)	mg/L	110	5.0	7507011				110	1.0	7507011
Nitrate (N)	mg/L	<0.10	0.10	7506945				<0.10	0.10	7506945
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7506945				<0.10	0.10	7506945
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7507011				<1.0	1.0	7507011
Dissolved Sulphate (SO4)	mg/L	690	5.0	7507011				240	1.0	7507011

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



BUREAU
VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHB224			QHB224			QHB225		
Sampling Date		2021/08/03			2021/08/03			2021/08/03		
COC Number		834487-11-01			834487-11-01			834487-11-01		
	UNITS	3-I	RDL	QC Batch	3-I Lab-Dup	RDL	QC Batch	48-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1200	1.0	7500554				3500	1.0	7500554
Inorganics										
Total Ammonia-N	mg/L	1.2	0.050	7505818				3.5	0.050	7505818
Conductivity	umho/cm	2300	1.0	7506960	2200	1.0	7506960	11000	1.0	7506972
Total Dissolved Solids	mg/L	1630	10	7502754				7180	20	7505286
Fluoride (F-)	mg/L	0.63	0.10	7506955	0.64	0.10	7506955	0.67	0.10	7506967
Total Kjeldahl Nitrogen (TKN)	mg/L	1.3	0.10	7505667				4.3	0.10	7505667
Total Organic Carbon (TOC)	mg/L	3.3	0.40	7505588				1.5	0.40	7505588
Orthophosphate (P)	mg/L	<0.010	0.010	7506987				<0.010	0.010	7506987
pH	pH	7.55		7506962	7.56		7506962	7.54		7506973
Phenols-4AAP	mg/L	<0.0010	0.0010	7502246				<0.0010	0.0010	7502246
Alkalinity (Total as CaCO3)	mg/L	350	1.0	7506959	350	1.0	7506959	290	1.0	7506970
Nitrite (N)	mg/L	<0.010	0.010	7506945				<0.010	0.010	7506945
Dissolved Chloride (Cl-)	mg/L	110	5.0	7507011				2200	20	7507011
Nitrate (N)	mg/L	<0.10	0.10	7506945				<0.10	0.10	7506945
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7506945				<0.10	0.10	7506945
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7507011				23	20	7507011
Dissolved Sulphate (SO4)	mg/L	720	5.0	7507011				1200	20	7507011

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		QHB226			QHB227			QHB228			
Sampling Date		2021/08/03			2021/08/03			2021/08/03			
COC Number		834487-11-01			834487-11-01			834487-11-01			
	UNITS	48-II	RDL	QC Batch	48-IV	RDL	QC Batch	48-V	RDL	QC Batch	
Calculated Parameters											
Hardness (CaCO3)	mg/L	1900	1.0	7500554	1100	1.0	7500554	1800	1.0	7500554	
Inorganics											
Total Ammonia-N	mg/L	1.4	0.050	7505809	0.082	0.050	7505818	1.1	0.050	7505809	
Conductivity	umho/cm	4900	1.0	7506972	3700	1.0	7506972	5000	1.0	7506972	
Total Dissolved Solids	mg/L	3460	10	7502754	2160	10	7505286	3560	10	7502754	
Fluoride (F-)	mg/L	0.73	0.10	7506967	0.44	0.10	7506967	0.63	0.10	7506967	
Total Kjeldahl Nitrogen (TKN)	mg/L	1.9	0.10	7505720	0.25	0.10	7505667	1.5	0.10	7505720	
Total Organic Carbon (TOC)	mg/L	2.3	0.40	7505588	2.0	0.40	7505588	2.6	0.40	7505588	
Orthophosphate (P)	mg/L	<0.010	0.010	7506987	<0.010	0.010	7506987	<0.010	0.010	7506987	
pH	pH	7.63		7506973	7.77		7506973	7.65		7506973	
Phenols-4AAP	mg/L	<0.0010	0.0010	7502246	<0.0010	0.0010	7502246	<0.0010	0.0010	7502246	
Alkalinity (Total as CaCO3)	mg/L	340	1.0	7506970	370	1.0	7506970	350	1.0	7506970	
Nitrite (N)	mg/L	<0.010	0.010	7506947	<0.010	0.010	7506945	<0.010	0.010	7506947	
Dissolved Chloride (Cl-)	mg/L	650	10	7507011	630	5.0	7507011	720	10	7507011	
Nitrate (N)	mg/L	<0.10	0.10	7506947	<0.10	0.10	7506945	<0.10	0.10	7506947	
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7506947	<0.10	0.10	7506945	<0.10	0.10	7506947	
Dissolved Bromide (Br-)	mg/L	<10	10	7507011	<5.0	5.0	7507011	<10	10	7507011	
Dissolved Sulphate (SO4)	mg/L	1500	10	7507011	490	5.0	7507011	1400	10	7507011	
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



BUREAU
VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHB229			QHB244			QHB244		
Sampling Date		2021/08/03			2021/08/03			2021/08/03		
COC Number		834487-11-01			834487-12-01			834487-12-01		
	UNITS	12-IV	RDL	QC Batch	P6-IR	RDL	QC Batch	P6-IR Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7500554	20	1.0	7500554			
Inorganics										
Total Ammonia-N	mg/L	1.1	0.050	7505809	190	0.50	7505809	190	0.50	7505809
Conductivity	umho/cm	4900	1.0	7506960	12000	1.0	7506972			
Total Dissolved Solids	mg/L	3520	10	7502754	6280	20	7502754			
Fluoride (F-)	mg/L	0.74	0.10	7506955	3.4	0.10	7506967			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.5	0.10	7505720	190	5.0	7505667			
Total Organic Carbon (TOC)	mg/L	2.7	0.40	7505611	34	0.40	7505588			
Orthophosphate (P)	mg/L	<0.010	0.010	7506987	0.25	0.010	7506987			
pH	pH	7.49		7506962	9.60		7506973			
Phenols-4AAP	mg/L	<0.0010	0.0010	7502246	1.0	0.050	7502246			
Alkalinity (Total as CaCO3)	mg/L	350	1.0	7506959	490	1.0	7506970			
Nitrite (N)	mg/L	<0.010	0.010	7506947	0.012	0.010	7506947			
Dissolved Chloride (Cl-)	mg/L	700	10	7507011	3400	20	7507011			
Nitrate (N)	mg/L	<0.10	0.10	7506947	<0.10	0.10	7506947			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7506947	0.11	0.10	7506947			
Dissolved Bromide (Br-)	mg/L	<10	10	7507011	<20	20	7507011			
Dissolved Sulphate (SO4)	mg/L	1300	10	7507011	110	20	7507011			

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



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VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHB245			QHB245			QHB246		
Sampling Date		2021/08/03			2021/08/03			2021/08/03		
COC Number		834487-12-01			834487-12-01			834487-12-01		
	UNITS	9-I	RDL	QC Batch	9-I Lab-Dup	RDL	QC Batch	P10-V	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	680	1.0	7500554				490	1.0	7500554
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7505809				<0.050	0.050	7505809
Conductivity	umho/cm	1700	1.0	7506972				1200	1.0	7506972
Total Dissolved Solids	mg/L	1140	10	7502754	1140	10	7502754	750	10	7502754
Fluoride (F-)	mg/L	1.0	0.10	7506967				0.60	0.10	7506967
Total Kjeldahl Nitrogen (TKN)	mg/L	0.34	0.10	7505720				0.34	0.10	7505720
Total Organic Carbon (TOC)	mg/L	3.9	0.40	7505588				4.2	0.40	7505611
Orthophosphate (P)	mg/L	<0.010	0.010	7506987				0.090	0.010	7506987
pH	pH	7.89		7506973				7.86		7506973
Phenols-4AAP	mg/L	<0.0010	0.0010	7502246				<0.0010	0.0010	7502246
Alkalinity (Total as CaCO3)	mg/L	240	1.0	7506970				360	1.0	7506970
Nitrite (N)	mg/L	<0.010	0.010	7506947				<0.010	0.010	7506947
Dissolved Chloride (Cl-)	mg/L	130	5.0	7507011				45	1.0	7507011
Nitrate (N)	mg/L	0.11	0.10	7506947				<0.10	0.10	7506947
Nitrate + Nitrite (N)	mg/L	0.11	0.10	7506947				<0.10	0.10	7506947
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7507011				<1.0	1.0	7507011
Dissolved Sulphate (SO4)	mg/L	400	5.0	7507011				200	1.0	7507011

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



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHB220	QHB220		QHB221	QHB222	QHB223		
Sampling Date		2021/08/03	2021/08/03		2021/08/03	2021/08/03	2021/08/03		
COC Number		834487-11-01	834487-11-01		834487-11-01	834487-11-01	834487-11-01		
	UNITS	47-I	47-I Lab-Dup	RDL	47-IIR	47-III	47-IV	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<4.9	<4.9	<4.9	4.9	7502986
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7502986
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7502986
Dissolved Barium (Ba)	ug/L	17	17	2.0	42	12	57	2.0	7502986
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	<0.40	<0.40	0.40	7502986
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7502986
Dissolved Boron (B)	ug/L	960	830	10	150	1400	140	10	7502986
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	<0.090	0.14	0.090	7502986
Dissolved Calcium (Ca)	ug/L	580000	580000	1000	120000	350000	140000	200	7502986
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	5.0	7502986
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7502986
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	<0.90	<0.90	0.90	7502986
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	<100	<100	100	7502986
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7502986
Dissolved Lithium (Li)	ug/L	110	100	5.0	<5.0	66	<5.0	5.0	7502986
Dissolved Magnesium (Mg)	ug/L	90000	89000	50	34000	63000	40000	50	7502986
Dissolved Manganese (Mn)	ug/L	110	110	2.0	130	52	110	2.0	7502986
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	3.0	<0.50	2.5	0.50	7502986
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.5	1.0	7502986
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	<100	<100	100	7502986
Dissolved Potassium (K)	ug/L	25000	24000	200	2800	13000	2800	200	7502986
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	2.0	7502986
Dissolved Silicon (Si)	ug/L	3900	3600	50	4900	4800	4700	50	7502986
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	<0.090	<0.090	0.090	7502986
Dissolved Sodium (Na)	ug/L	280000	280000	100	67000	94000	80000	100	7502986
Dissolved Strontium (Sr)	ug/L	4800	4600	1.0	1700	4600	2100	1.0	7502986
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7502986
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	<0.050	<0.050	0.050	7502986
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7502986
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	5.0	7502986
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7502986
Dissolved Uranium (U)	ug/L	0.25	0.22	0.10	1.7	0.17	2.2	0.10	7502986
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7502986
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	160	<5.0	210	5.0	7502986
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7502986
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHB224		QHB225		QHB226		QHB227		
Sampling Date		2021/08/03		2021/08/03		2021/08/03		2021/08/03		
COC Number		834487-11-01		834487-11-01		834487-11-01		834487-11-01		
	UNITS	3-I	RDL	48-I	RDL	48-II	RDL	48-IV	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	4.9	<4.9	4.9	<4.9	4.9	7502986
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7502986
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502986
Dissolved Barium (Ba)	ug/L	11	2.0	16	2.0	32	2.0	53	2.0	7502986
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7502986
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502986
Dissolved Boron (B)	ug/L	1400	10	2000	10	1500	10	88	10	7502986
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	0.20	0.090	7502986
Dissolved Calcium (Ca)	ug/L	360000	200	1000000	1000	580000	1000	250000	200	7502986
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7502986
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7502986
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7502986
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	100	<100	100	7502986
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7502986
Dissolved Lithium (Li)	ug/L	65	5.0	1200	25	170	5.0	52	5.0	7502986
Dissolved Magnesium (Mg)	ug/L	62000	50	230000	50	100000	50	100000	50	7502986
Dissolved Manganese (Mn)	ug/L	53	2.0	120	2.0	140	2.0	67	2.0	7502986
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	1.1	0.50	7502986
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	2.0	1.0	7502986
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	<100	100	7502986
Dissolved Potassium (K)	ug/L	13000	200	31000	200	15000	200	4200	200	7502986
Dissolved Selenium (Se)	ug/L	<2.0	2.0	4.7	2.0	<2.0	2.0	<2.0	2.0	7502986
Dissolved Silicon (Si)	ug/L	4800	50	4100	50	5000	50	6400	50	7502986
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7502986
Dissolved Sodium (Na)	ug/L	94000	100	960000	500	400000	100	340000	100	7502986
Dissolved Strontium (Sr)	ug/L	4700	1.0	15000	1.0	5200	1.0	2100	1.0	7502986
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502986
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7502986
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502986
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7502986
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	1.2	1.0	7502986
Dissolved Uranium (U)	ug/L	0.18	0.10	0.55	0.10	0.97	0.10	6.2	0.10	7502986
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7502986
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	110	5.0	7502986
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7502986
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHB228	QHB229		QHB244		QHB245	QHB246		
Sampling Date		2021/08/03	2021/08/03		2021/08/03		2021/08/03	2021/08/03		
COC Number		834487-11-01	834487-11-01		834487-12-01		834487-12-01	834487-12-01		
	UNITS	48-V	12-IV	RDL	P6-IR	RDL	9-I	P10-V	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	5.7	4.9	8.3	<4.9	4.9	7502986
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7502986
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	3.2	1.0	<1.0	<1.0	1.0	7502986
Dissolved Barium (Ba)	ug/L	36	36	2.0	8.2	2.0	42	55	2.0	7502986
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7502986
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7502986
Dissolved Boron (B)	ug/L	880	1200	10	540	10	120	210	10	7502986
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	1.1	2.9	0.090	7502986
Dissolved Calcium (Ca)	ug/L	570000	590000	1000	7100	200	210000	130000	200	7502986
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7502986
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7502986
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	0.90	3.0	4.5	0.90	7502986
Dissolved Iron (Fe)	ug/L	870	800	100	<100	100	<100	<100	100	7502986
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	1.5	0.50	7502986
Dissolved Lithium (Li)	ug/L	110	130	5.0	27	5.0	7.0	<5.0	5.0	7502986
Dissolved Magnesium (Mg)	ug/L	100000	98000	50	480	50	41000	41000	50	7502986
Dissolved Manganese (Mn)	ug/L	160	160	2.0	<2.0	2.0	54	3.7	2.0	7502986
Dissolved Molybdenum (Mo)	ug/L	0.57	<0.50	0.50	66	0.50	3.3	2.0	0.50	7502986
Dissolved Nickel (Ni)	ug/L	<1.0	1.1	1.0	21	1.0	7.0	7.1	1.0	7502986
Dissolved Phosphorus (P)	ug/L	<100	<100	100	370	100	<100	100	100	7502986
Dissolved Potassium (K)	ug/L	13000	13000	200	140000	200	4900	8700	200	7502986
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	7.2	2.0	<2.0	<2.0	2.0	7502986
Dissolved Silicon (Si)	ug/L	5600	5100	50	9900	50	4800	7200	50	7502986
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7502986
Dissolved Sodium (Na)	ug/L	440000	420000	100	2300000	500	81000	56000	100	7502986
Dissolved Strontium (Sr)	ug/L	4800	4700	1.0	880	1.0	3200	920	1.0	7502986
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	1.3	1.0	<1.0	<1.0	1.0	7502986
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	0.34	0.23	0.050	7502986
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7502986
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7502986
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	20	1.0	<1.0	<1.0	1.0	7502986
Dissolved Uranium (U)	ug/L	1.5	1.4	0.10	<0.10	0.10	3.8	4.5	0.10	7502986
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	1.1	0.50	<0.50	<0.50	0.50	7502986
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	510	760	5.0	7502986
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7502986
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHB220
Sample ID: 47-I
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7505286	2021/08/06	2021/08/09	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7505720	2021/08/06	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB220 Dup
Sample ID: 47-I
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu

BV Labs ID: QHB221
Sample ID: 47-IIR
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505818	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506945	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7505286	2021/08/06	2021/08/09	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7505667	2021/08/06	2021/08/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh



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VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHB221 Dup
Sample ID: 47-IIR
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7507011	N/A	2021/08/11	Fari Dehdezi

BV Labs ID: QHB222
Sample ID: 47-III
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506945	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7505286	2021/08/06	2021/08/09	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7505720	2021/08/06	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB222 Dup
Sample ID: 47-III
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7505286	2021/08/06	2021/08/09	Kristen Chan

BV Labs ID: QHB223
Sample ID: 47-IV
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506945	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan



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VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHB223
Sample ID: 47-IV
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7505720	2021/08/06	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB224
Sample ID: 3-I
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505818	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506945	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7505667	2021/08/06	2021/08/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB224 Dup
Sample ID: 3-I
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai

BV Labs ID: QHB225
Sample ID: 48-I
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu



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VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHB225
Sample ID: 48-I
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7505818	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506945	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7505286	2021/08/06	2021/08/09	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7505667	2021/08/06	2021/08/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB226
Sample ID: 48-II
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/10	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7505720	2021/08/06	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB227
Sample ID: 48-IV
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505818	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506945	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan



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VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHB227
Sample ID: 48-IV
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7505286	2021/08/06	2021/08/09	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7505667	2021/08/06	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB228
Sample ID: 48-V
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/10	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7505720	2021/08/06	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB229
Sample ID: 12-IV
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/10	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7505720	2021/08/06	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7505611	N/A	2021/08/07	Nimarta Singh



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BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHB244
Sample ID: P6-IR
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/10	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7505667	2021/08/06	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh

BV Labs ID: QHB244 Dup
Sample ID: P6-IR
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal

BV Labs ID: QHB245
Sample ID: 9-I
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/05	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7505720	2021/08/06	2021/08/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7505588	N/A	2021/08/07	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHB245 Dup
Sample ID: 9-I
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai

BV Labs ID: QHB246
Sample ID: P10-V
Matrix: Water

Collected: 2021/08/03
Shipped:
Received: 2021/08/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506970	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506972	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506967	2021/08/07	2021/08/10	Surinder Rai
Hardness (calculated as CaCO3)		7500554	N/A	2021/08/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7502986	N/A	2021/08/06	Daniel Teclu
Total Ammonia-N	LACH/NH4	7505809	N/A	2021/08/09	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506973	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7502246	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7502754	2021/08/05	2021/08/09	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7505720	2021/08/06	2021/08/10	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7505611	N/A	2021/08/07	Nimarta Singh



GENERAL COMMENTS

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

Package 1	5.3°C
Package 2	5.7°C
Package 3	5.0°C

Sample QHB220 [47-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QHB221 [47-IIR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



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VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

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
7502246	Phenols-4AAP	2021/08/05	102	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
7502754	Total Dissolved Solids	2021/08/09					<10	mg/L	0.44	25	102	90 - 110
7502986	Dissolved Aluminum (Al)	2021/08/06	98	80 - 120	100	80 - 120	<4.9	ug/L	NC	20		
7502986	Dissolved Antimony (Sb)	2021/08/06	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Arsenic (As)	2021/08/06	98	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Barium (Ba)	2021/08/06	98	80 - 120	98	80 - 120	<2.0	ug/L	0.75	20		
7502986	Dissolved Beryllium (Be)	2021/08/06	97	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
7502986	Dissolved Bismuth (Bi)	2021/08/06	96	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Boron (B)	2021/08/06	NC	80 - 120	93	80 - 120	<10	ug/L	15	20		
7502986	Dissolved Cadmium (Cd)	2021/08/06	100	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7502986	Dissolved Calcium (Ca)	2021/08/06	NC	80 - 120	105	80 - 120	<200	ug/L	0.49	20		
7502986	Dissolved Chromium (Cr)	2021/08/06	98	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
7502986	Dissolved Cobalt (Co)	2021/08/06	98	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Copper (Cu)	2021/08/06	101	80 - 120	104	80 - 120	<0.90	ug/L	NC	20		
7502986	Dissolved Iron (Fe)	2021/08/06	97	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7502986	Dissolved Lead (Pb)	2021/08/06	97	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Lithium (Li)	2021/08/06	101	80 - 120	102	80 - 120	<5.0	ug/L	6.7	20		
7502986	Dissolved Magnesium (Mg)	2021/08/06	NC	80 - 120	102	80 - 120	<50	ug/L	1.7	20		
7502986	Dissolved Manganese (Mn)	2021/08/06	97	80 - 120	98	80 - 120	<2.0	ug/L	2.8	20		
7502986	Dissolved Molybdenum (Mo)	2021/08/06	107	80 - 120	106	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Nickel (Ni)	2021/08/06	94	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Phosphorus (P)	2021/08/06	101	80 - 120	104	80 - 120	<100	ug/L	NC	20		
7502986	Dissolved Potassium (K)	2021/08/06	97	80 - 120	101	80 - 120	<200	ug/L	1.0	20		
7502986	Dissolved Selenium (Se)	2021/08/06	92	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7502986	Dissolved Silicon (Si)	2021/08/06	102	80 - 120	106	80 - 120	<50	ug/L	5.4	20		
7502986	Dissolved Silver (Ag)	2021/08/06	71 (1)	80 - 120	90	80 - 120	<0.090	ug/L	NC	20		
7502986	Dissolved Sodium (Na)	2021/08/06	NC	80 - 120	101	80 - 120	<100	ug/L	0.68	20		
7502986	Dissolved Strontium (Sr)	2021/08/06	NC	80 - 120	97	80 - 120	<1.0	ug/L	4.2	20		
7502986	Dissolved Tellurium (Te)	2021/08/06	84	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Thallium (Tl)	2021/08/06	95	80 - 120	94	80 - 120	<0.050	ug/L	NC	20		
7502986	Dissolved Tin (Sn)	2021/08/06	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1L8915
Report Date: 2021/08/13

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
7502986	Dissolved Titanium (Ti)	2021/08/06	99	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7502986	Dissolved Tungsten (W)	2021/08/06	105	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7502986	Dissolved Uranium (U)	2021/08/06	97	80 - 120	96	80 - 120	<0.10	ug/L	12	20		
7502986	Dissolved Vanadium (V)	2021/08/06	98	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7502986	Dissolved Zinc (Zn)	2021/08/06	93	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7502986	Dissolved Zirconium (Zr)	2021/08/06	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7505286	Total Dissolved Solids	2021/08/09					<10	mg/L	0.83	25	100	90 - 110
7505588	Total Organic Carbon (TOC)	2021/08/07	93	80 - 120	98	80 - 120	<0.40	mg/L	4.5	20		
7505611	Total Organic Carbon (TOC)	2021/08/07	93	80 - 120	98	80 - 120	<0.40	mg/L	14	20		
7505667	Total Kjeldahl Nitrogen (TKN)	2021/08/09	90	N/A	98	80 - 120	<0.10	mg/L	NC	20	96	N/A
7505720	Total Kjeldahl Nitrogen (TKN)	2021/08/09	109	N/A	98	80 - 120	<0.10	mg/L	19	20	92	80 - 120
7505809	Total Ammonia-N	2021/08/09	NC	75 - 125	101	80 - 120	<0.050	mg/L	0.30	20		
7505818	Total Ammonia-N	2021/08/10	NC	75 - 125	100	80 - 120	<0.050	mg/L	2.5 (2)	20		
7506945	Nitrate (N)	2021/08/09	97	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
7506945	Nitrite (N)	2021/08/09	105	80 - 120	107	80 - 120	<0.010	mg/L				
7506947	Nitrate (N)	2021/08/09	96	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
7506947	Nitrite (N)	2021/08/09	106	80 - 120	110	80 - 120	<0.010	mg/L	NC	20		
7506955	Fluoride (F-)	2021/08/09	92	80 - 120	94	80 - 120	<0.10	mg/L	0.93	20		
7506959	Alkalinity (Total as CaCO3)	2021/08/09			97	85 - 115	<1.0	mg/L	0.18	20		
7506960	Conductivity	2021/08/09			102	85 - 115	<1.0	umho/cm	0.45	25		
7506962	pH	2021/08/09			102	98 - 103			0.16	N/A		
7506967	Fluoride (F-)	2021/08/10	99	80 - 120	92	80 - 120	<0.10	mg/L	3.5	20		
7506970	Alkalinity (Total as CaCO3)	2021/08/09			96	85 - 115	<1.0	mg/L	1.7	20		
7506972	Conductivity	2021/08/09			103	85 - 115	<1.0	umho/cm	0.52	25		
7506973	pH	2021/08/09			102	98 - 103			0.87	N/A		
7506987	Orthophosphate (P)	2021/08/09	106	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7507011	Dissolved Bromide (Br-)	2021/08/11	102..74920	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7507011	Dissolved Chloride (Cl-)	2021/08/11	79 (3)	80 - 120	100	70 - 130	<1.0	mg/L	16	20		



BUREAU
VERITAS

BV Labs Job #: C1L8915

Report Date: 2021/08/13

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
7507011	Dissolved Sulphate (SO4)	2021/08/11	93	80 - 120	100	80 - 120	<1.0	mg/L	0.49	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) Matrix Spike exceeds acceptance limits, sample inhomogeneity suspected.

(2) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

(3) 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 #: C1L8915
Report Date: 2021/08/13

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:

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

04-Aug-21 15:27

Jolanta Goralczyk
C1L8915

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: 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: _____		Only: Bottle Order #: _____  834487 Project Manager: Jolanta Goralczyk  C#834487-11-01	
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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.	
Include Criteria on Certificate of Analysis (Y/N)?																				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		
	47-I	Aug 3 2021	NA	GW	Y	X											6			
	47-II			GW	Y	X											6			
	47-III			GW	Y	X											6			
	47-IV			GW	Y	X											6			
	3-I			GW	Y	X											6			
	48-I			GW	Y	X											6			
	48-II			GW	Y	X											6			
	48-III			GW	Y	X											6			
	48-IV			GW	Y	X											6			
	12-IV			GW	Y	X											6			

* RELINQUISHED BY: (Signature/Print) Dan Taylor		Date: (YY/MM/DD) 21/08/21	Time 9:00	RECEIVED BY: (Signature/Print) Jolanta Goralczyk		Date: (YY/MM/DD) 21/08/21	Time 15:27	# jars used and not submitted	Laboratory Use Only			
Time Sensitive	Temperature (°C) on Recept 4/8/4	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 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
5/8/4

21315



Bureau Veritas Laboratories
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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Attention: Accounting	Company Name: Brad Mullin - GHD Reporting	Attention: Brad Mullin - GHD Reporting	Quotation #: B60569	P.O. #: GW	BV Labs Job #:	Bottle Order #:
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Tel: (905) 561-0305 Fax: (905) 561-1674	Address:	Tel: Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com	Project Name:	Site #: C#834487-12-01	COC #:	Project Manager: Jolanta Goralczyk
Email: kbailey@terrapureenv.com		Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:		Barcode: 834487	

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:			
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle): Metals Hg / Cr VI	List "A" - GW Monitoring												Regular (Standard) TAT:	
<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 _____																	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.	
Include Criteria on Certificate of Analysis (Y/N)?																		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	P6-IR	Aug 13 2021	NA	GW	Y	X											6				
2	9-I	↓	↓	GW	Y	X											6				
3	P10-I	↓	↓	GW	Y	X											6				
4				GW		X															
5				GW		X															
6				GW		X															
7				GW		X															
8				GW		X															
9				GW		X															
10				GW		X															

* RELINQUISHED BY: (Signature/Print) D Taylor / Dan Taylor		Date: (YY/MM/DD) 2/08/04	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		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 #: GW
 Your C.O.C. #: 834487-13-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/18
 Report #: R6770247
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M0725
Received: 2021/08/05, 15:33

Sample Matrix: Water
 # Samples Received: 8

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	8	N/A	2021/08/09	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/08/10	CAM SOP-00435	SM 23 4110 B m
Anions	7	N/A	2021/08/11	CAM SOP-00435	SM 23 4110 B m
Conductivity	8	N/A	2021/08/09	CAM SOP-00414	SM 23 2510 m
Fluoride	8	2021/08/07	2021/08/09	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	8	N/A	2021/08/17	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	8	N/A	2021/08/17	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	8	N/A	2021/08/10	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	5	N/A	2021/08/10	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	3	N/A	2021/08/09	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	8	2021/08/07	2021/08/09	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	2	N/A	2021/08/10	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	6	N/A	2021/08/06	CAM SOP-00444	OMOE E3179 m
Orthophosphate	5	N/A	2021/08/10	CAM SOP-00461	EPA 365.1 m
Orthophosphate	3	N/A	2021/08/09	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	8	2021/08/09	2021/08/10	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	8	2021/08/09	2021/08/10	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	8	N/A	2021/08/09	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.



Your Project #: GW
Your C.O.C. #: 834487-13-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/18
Report #: R6770247
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M0725
Received: 2021/08/05, 15:33

Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
18 Aug 2021 11:06:46

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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VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHL468			QHL468			QHL469		
Sampling Date		2021/08/04			2021/08/04			2021/08/04		
COC Number		834487-13-01			834487-13-01			834487-13-01		
	UNITS	77-I	RDL	QC Batch	77-I Lab-Dup	RDL	QC Batch	77-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	56000	1.0	7502115				42000	1.0	7502115
Inorganics										
Total Ammonia-N	mg/L	42	0.25	7508398				35	0.25	7507946
Conductivity	umho/cm	>100000	1.0	7506960				>100000	1.0	7506960
Total Dissolved Solids	mg/L	127000	20	7506051	127000	20	7506051	89800	20	7506051
Fluoride (F-)	mg/L	0.14	0.10	7506955				0.20	0.10	7506955
Total Kjeldahl Nitrogen (TKN)	mg/L	52	2.0	7508358				51	2.0	7503330
Total Organic Carbon (TOC)	mg/L	0.69	0.40	7508893				1.5	0.40	7507940
Orthophosphate (P)	mg/L	<0.010	0.010	7506989				<0.010	0.010	7506987
pH	pH	6.51		7506962				6.43		7506962
Phenols-4AAP	mg/L	0.030	0.0050	7504589				0.021	0.0050	7504589
Alkalinity (Total as CaCO3)	mg/L	54	1.0	7506959				47	1.0	7506959
Nitrite (N)	mg/L	<0.10	0.10	7506950				<0.10	0.10	7506950
Dissolved Chloride (Cl-)	mg/L	72000	500	7507315				48000	500	7507315
Nitrate (N)	mg/L	<1.0	1.0	7506950				<1.0	1.0	7506950
Nitrate + Nitrite (N)	mg/L	<1.0	1.0	7506950				<1.0	1.0	7506950
Dissolved Bromide (Br-)	mg/L	850	500	7507315				560	500	7507315
Dissolved Sulphate (SO4)	mg/L	980	500	7507315				1200	500	7507315

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



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHL469			QHL470			QHL470		
Sampling Date		2021/08/04			2021/08/04			2021/08/04		
COC Number		834487-13-01			834487-13-01			834487-13-01		
	UNITS	77-II Lab-Dup	RDL	QC Batch	77-III	RDL	QC Batch	77-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1400	1.0	7502115			
Inorganics										
Total Ammonia-N	mg/L	34	0.25	7507946	0.26	0.050	7508398			
Conductivity	umho/cm				4200	1.0	7506960			
Total Dissolved Solids	mg/L				2580	10	7506051			
Fluoride (F-)	mg/L				0.85	0.10	7506955			
Total Kjeldahl Nitrogen (TKN)	mg/L				0.53	0.10	7508358			
Total Organic Carbon (TOC)	mg/L	1.5	0.40	7507940	4.2	0.40	7508893			
Orthophosphate (P)	mg/L				<0.010	0.010	7506989	<0.010	0.010	7506989
pH	pH				7.43		7506962			
Phenols-4AAP	mg/L				<0.0010	0.0010	7504589			
Alkalinity (Total as CaCO3)	mg/L				280	1.0	7506959			
Nitrite (N)	mg/L				<0.010	0.010	7506947	<0.010	0.010	7506947
Dissolved Chloride (Cl-)	mg/L				660	10	7507315			
Nitrate (N)	mg/L				<0.10	0.10	7506947	<0.10	0.10	7506947
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7506947	<0.10	0.10	7506947
Dissolved Bromide (Br-)	mg/L				<10	10	7507315			
Dissolved Sulphate (SO4)	mg/L				920	10	7507315			

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



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHL471			QHL472			QHL472		
Sampling Date		2021/08/04			2021/08/04			2021/08/04		
COC Number		834487-13-01			834487-13-01			834487-13-01		
	UNITS	12-I	RDL	QC Batch	72-I	RDL	QC Batch	72-I Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1400	1.0	7502115	56000	1.0	7502115			
Inorganics										
Total Ammonia-N	mg/L	0.34	0.050	7508398	39	0.25	7508398			
Conductivity	umho/cm	4200	1.0	7506960	>100000	1.0	7506960			
Total Dissolved Solids	mg/L	2930	10	7506051	86700	20	7506051			
Fluoride (F-)	mg/L	0.85	0.10	7506955	0.15	0.10	7506955			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.47	0.10	7508358	48	2.0	7508358			
Total Organic Carbon (TOC)	mg/L	4.3	0.40	7508893	0.88	0.40	7508893			
Orthophosphate (P)	mg/L	<0.010	0.010	7506989	<0.010	0.010	7506987	<0.010	0.010	7506987
pH	pH	7.54		7506962	6.49		7506962			
Phenols-4AAP	mg/L	<0.0010	0.0010	7504589	0.039	0.0050	7504589			
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7506959	55	1.0	7506959			
Nitrite (N)	mg/L	<0.010	0.010	7506950	<0.10	0.10	7506950			
Dissolved Chloride (Cl-)	mg/L	660	10	7507315	68000	500	7507011			
Nitrate (N)	mg/L	<0.10	0.10	7506950	<1.0	1.0	7506950			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7506950	<1.0	1.0	7506950			
Dissolved Bromide (Br-)	mg/L	<10	10	7507315	<500	500	7507011			
Dissolved Sulphate (SO4)	mg/L	900	10	7507315	910	500	7507011			

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



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHL473		QHL474			QHL475		
Sampling Date		2021/08/04		2021/08/04			2021/08/04		
COC Number		834487-13-01		834487-13-01			834487-13-01		
	UNITS	72-II	RDL	72-III	RDL	QC Batch	11-III	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	18000	1.0	5500	1.0	7502115	18000	1.0	7502115
Inorganics									
Total Ammonia-N	mg/L	22	0.050	11	0.050	7508398	22	0.050	7508398
Conductivity	umho/cm	63000	1.0	25000	1.0	7506960	63000	1.0	7506960
Total Dissolved Solids	mg/L	42800	20	14300	20	7506051	40900	20	7506051
Fluoride (F-)	mg/L	0.38	0.10	0.68	0.10	7506955	0.39	0.10	7506955
Total Kjeldahl Nitrogen (TKN)	mg/L	24	2.0	11	0.50	7508358	27	2.0	7508358
Total Organic Carbon (TOC)	mg/L	2.1	0.40	3.0	0.40	7508893	2.1	0.40	7508893
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	7506989	<0.010	0.010	7506987
pH	pH	7.09		7.12		7506962	7.07		7506962
Phenols-4AAP	mg/L	<0.010 (1)	0.010	0.0028	0.0010	7504589	<0.010 (1)	0.010	7504589
Alkalinity (Total as CaCO3)	mg/L	160	1.0	190	1.0	7506959	150	1.0	7506959
Nitrite (N)	mg/L	<0.050	0.050	<0.010	0.010	7506950	<0.050	0.050	7506950
Dissolved Chloride (Cl-)	mg/L	19000	200	7700	50	7507315	23000	200	7507315
Nitrate (N)	mg/L	<0.50	0.50	<0.10	0.10	7506950	<0.50	0.50	7506950
Nitrate + Nitrite (N)	mg/L	<0.50	0.50	<0.10	0.10	7506950	<0.50	0.50	7506950
Dissolved Bromide (Br-)	mg/L	210	200	82	50	7507315	290	100	7507315
Dissolved Sulphate (SO4)	mg/L	1200	200	1700	50	7507315	1400	100	7507315
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection Limit was raised due to matrix interferences.									

BV Labs ID		QHL475		
Sampling Date		2021/08/04		
COC Number		834487-13-01		
	UNITS	11-III Lab-Dup	RDL	QC Batch
Inorganics				
Nitrite (N)	mg/L	<0.050	0.050	7506950
Nitrate (N)	mg/L	<0.50	0.50	7506950
Nitrate + Nitrite (N)	mg/L	<0.50	0.50	7506950
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate				



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHL468		QHL469		QHL470	QHL471		
Sampling Date		2021/08/04		2021/08/04		2021/08/04	2021/08/04		
COC Number		834487-13-01		834487-13-01		834487-13-01	834487-13-01		
	UNITS	77-I	RDL	77-II	RDL	77-III	12-I	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<250	250	<250	250	<4.9	<4.9	4.9	7508790
Dissolved Antimony (Sb)	ug/L	<25	25	<25	25	<0.50	<0.50	0.50	7508790
Dissolved Arsenic (As)	ug/L	<50	50	<50	50	<1.0	<1.0	1.0	7508790
Dissolved Barium (Ba)	ug/L	140	100	110	100	53	55	2.0	7508790
Dissolved Beryllium (Be)	ug/L	<20	20	<20	20	<0.40	<0.40	0.40	7508790
Dissolved Bismuth (Bi)	ug/L	<50	50	<50	50	<1.0	<1.0	1.0	7508790
Dissolved Boron (B)	ug/L	5700	500	6600	500	110	110	10	7508790
Dissolved Cadmium (Cd)	ug/L	<4.5	4.5	<4.5	4.5	<0.090	<0.090	0.090	7508790
Dissolved Calcium (Ca)	ug/L	16000000	20000	12000000	10000	270000	260000	200	7508790
Dissolved Chromium (Cr)	ug/L	<250	250	<250	250	<5.0	<5.0	5.0	7508790
Dissolved Cobalt (Co)	ug/L	<25	25	<25	25	<0.50	<0.50	0.50	7508790
Dissolved Copper (Cu)	ug/L	<45	45	<45	45	<0.90	<0.90	0.90	7508790
Dissolved Iron (Fe)	ug/L	<5000	5000	<5000	5000	1000	1000	100	7508790
Dissolved Lead (Pb)	ug/L	<25	25	<25	25	<0.50	<0.50	0.50	7508790
Dissolved Lithium (Li)	ug/L	26000	500	21000	250	56	58	5.0	7508790
Dissolved Magnesium (Mg)	ug/L	4100000	2500	3100000	2500	180000	180000	50	7508790
Dissolved Manganese (Mn)	ug/L	2300	100	1400	100	160	170	2.0	7508790
Dissolved Molybdenum (Mo)	ug/L	<25	25	<25	25	1.7	1.7	0.50	7508790
Dissolved Nickel (Ni)	ug/L	<50	50	<50	50	<1.0	<1.0	1.0	7508790
Dissolved Phosphorus (P)	ug/L	<5000	5000	<5000	5000	<100	<100	100	7508790
Dissolved Potassium (K)	ug/L	320000	10000	260000	10000	5600	5700	200	7508790
Dissolved Selenium (Se)	ug/L	<100	100	<100	100	<2.0	<2.0	2.0	7508790
Dissolved Silicon (Si)	ug/L	<2500	2500	<2500	2500	7000	6900	50	7508790
Dissolved Silver (Ag)	ug/L	<4.5	4.5	<4.5	4.5	<0.090	<0.090	0.090	7508790
Dissolved Sodium (Na)	ug/L	24000000	5000	18000000	5000	410000	410000	100	7508790
Dissolved Strontium (Sr)	ug/L	300000	50	220000	50	3800	3800	1.0	7508790
Dissolved Tellurium (Te)	ug/L	<50	50	<50	50	<1.0	<1.0	1.0	7508790
Dissolved Thallium (Tl)	ug/L	<2.5	2.5	<2.5	2.5	<0.050	<0.050	0.050	7508790
Dissolved Tin (Sn)	ug/L	<50	50	<50	50	<1.0	<1.0	1.0	7508790
Dissolved Titanium (Ti)	ug/L	<250	250	<250	250	<5.0	<5.0	5.0	7508790
Dissolved Tungsten (W)	ug/L	<50	50	<50	50	<1.0	<1.0	1.0	7508790
Dissolved Uranium (U)	ug/L	<5.0	5.0	<5.0	5.0	2.3	2.2	0.10	7508790
Dissolved Vanadium (V)	ug/L	<25	25	<25	25	<0.50	<0.50	0.50	7508790
Dissolved Zinc (Zn)	ug/L	<250	250	<250	250	<5.0	<5.0	5.0	7508790
Dissolved Zirconium (Zr)	ug/L	<50	50	<50	50	<1.0	<1.0	1.0	7508790
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHL472		QHL473		QHL474		QHL475		
Sampling Date		2021/08/04		2021/08/04		2021/08/04		2021/08/04		
COC Number		834487-13-01		834487-13-01		834487-13-01		834487-13-01		
	UNITS	72-I	RDL	72-II	RDL	72-III	RDL	11-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<250	250	<250	250	89	49	<250	250	7508790
Dissolved Antimony (Sb)	ug/L	<25	25	<25	25	<5.0	5.0	<25	25	7508790
Dissolved Arsenic (As)	ug/L	<50	50	<50	50	<10	10	<50	50	7508790
Dissolved Barium (Ba)	ug/L	150	100	<100	100	21	20	<100	100	7508790
Dissolved Beryllium (Be)	ug/L	<20	20	<20	20	<4.0	4.0	<20	20	7508790
Dissolved Bismuth (Bi)	ug/L	<50	50	<50	50	<10	10	<50	50	7508790
Dissolved Boron (B)	ug/L	5400	500	7100	500	7600	100	7100	500	7508790
Dissolved Cadmium (Cd)	ug/L	<4.5	4.5	<4.5	4.5	<0.90	0.90	<4.5	4.5	7508790
Dissolved Calcium (Ca)	ug/L	16000000	20000	5000000	10000	1500000	2000	5000000	10000	7508790
Dissolved Chromium (Cr)	ug/L	<250	250	<250	250	<50	50	<250	250	7508790
Dissolved Cobalt (Co)	ug/L	<25	25	<25	25	<5.0	5.0	<25	25	7508790
Dissolved Copper (Cu)	ug/L	<45	45	<45	45	<9.0	9.0	<45	45	7508790
Dissolved Iron (Fe)	ug/L	<5000	5000	<5000	5000	4600	1000	<5000	5000	7508790
Dissolved Lead (Pb)	ug/L	<25	25	<25	25	<5.0	5.0	<25	25	7508790
Dissolved Lithium (Li)	ug/L	25000	500	10000	250	3800	50	10000	250	7508790
Dissolved Magnesium (Mg)	ug/L	4000000	2500	1300000	2500	430000	500	1300000	2500	7508790
Dissolved Manganese (Mn)	ug/L	2600	100	610	100	460	20	640	100	7508790
Dissolved Molybdenum (Mo)	ug/L	<25	25	<25	25	<5.0	5.0	<25	25	7508790
Dissolved Nickel (Ni)	ug/L	<50	50	<50	50	<10	10	<50	50	7508790
Dissolved Phosphorus (P)	ug/L	<5000	5000	<5000	5000	<1000	1000	<5000	5000	7508790
Dissolved Potassium (K)	ug/L	310000	10000	160000	10000	75000	2000	150000	10000	7508790
Dissolved Selenium (Se)	ug/L	<100	100	<100	100	<20	20	<100	100	7508790
Dissolved Silicon (Si)	ug/L	<2500	2500	2700	2500	5400	500	2700	2500	7508790
Dissolved Silver (Ag)	ug/L	<4.5	4.5	<4.5	4.5	<0.90	0.90	<4.5	4.5	7508790
Dissolved Sodium (Na)	ug/L	23000000	5000	8800000	5000	3100000	1000	8500000	5000	7508790
Dissolved Strontium (Sr)	ug/L	300000	50	94000	50	27000	10	91000	50	7508790
Dissolved Tellurium (Te)	ug/L	<50	50	<50	50	<10	10	<50	50	7508790
Dissolved Thallium (Tl)	ug/L	<2.5	2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7508790
Dissolved Tin (Sn)	ug/L	<50	50	<50	50	<10	10	<50	50	7508790
Dissolved Titanium (Ti)	ug/L	<250	250	<250	250	<50	50	<250	250	7508790
Dissolved Tungsten (W)	ug/L	<50	50	<50	50	<10	10	<50	50	7508790
Dissolved Uranium (U)	ug/L	<5.0	5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7508790
Dissolved Vanadium (V)	ug/L	<25	25	<25	25	<5.0	5.0	<25	25	7508790
Dissolved Zinc (Zn)	ug/L	<250	250	<250	250	<50	50	<250	250	7508790
Dissolved Zirconium (Zr)	ug/L	<50	50	<50	50	<10	10	<50	50	7508790
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHL468
Sample ID: 77-I
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507315	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7502115	N/A	2021/08/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7508790	N/A	2021/08/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7508398	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506950	N/A	2021/08/10	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7504589	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506989	N/A	2021/08/10	Avneet Kour Sudan
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7508358	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7508893	N/A	2021/08/09	Julianna Castiglione

BV Labs ID: QHL468 Dup
Sample ID: 77-I
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan

BV Labs ID: QHL469
Sample ID: 77-II
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507315	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7502115	N/A	2021/08/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7508790	N/A	2021/08/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7507946	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506950	N/A	2021/08/10	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7504589	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7503330	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7507940	N/A	2021/08/09	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHL469 Dup
Sample ID: 77-II
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7507946	N/A	2021/08/10	Amanpreet Sappal
Total Organic Carbon (TOC)	TOCV/NDIR	7507940	N/A	2021/08/09	Julianna Castiglione

BV Labs ID: QHL470
Sample ID: 77-III
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507315	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7502115	N/A	2021/08/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7508790	N/A	2021/08/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7508398	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7504589	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506989	N/A	2021/08/10	Avneet Kour Sudan
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7508358	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7508893	N/A	2021/08/09	Julianna Castiglione

BV Labs ID: QHL470 Dup
Sample ID: 77-III
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506947	N/A	2021/08/09	Chandra Nandlal
Orthophosphate	KONE	7506989	N/A	2021/08/10	Avneet Kour Sudan

BV Labs ID: QHL471
Sample ID: 12-I
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507315	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7502115	N/A	2021/08/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7508790	N/A	2021/08/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7508398	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506950	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHL471
Sample ID: 12-I
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7504589	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506989	N/A	2021/08/10	Avneet Kour Sudan
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7508358	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7508893	N/A	2021/08/09	Julianna Castiglione

BV Labs ID: QHL472
Sample ID: 72-I
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507011	N/A	2021/08/10	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7502115	N/A	2021/08/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7508790	N/A	2021/08/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7508398	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506950	N/A	2021/08/10	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7504589	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7508358	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7508893	N/A	2021/08/09	Julianna Castiglione

BV Labs ID: QHL472 Dup
Sample ID: 72-I
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan

BV Labs ID: QHL473
Sample ID: 72-II
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507315	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7502115	N/A	2021/08/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7508790	N/A	2021/08/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7508398	N/A	2021/08/10	Amanpreet Sappal



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHL473
Sample ID: 72-II
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506950	N/A	2021/08/10	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7504589	N/A	2021/08/10	Deonarine Ramnarine
Orthophosphate	KONE	7506989	N/A	2021/08/10	Avneet Kour Sudan
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7508358	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7508893	N/A	2021/08/09	Julianna Castiglione

BV Labs ID: QHL474
Sample ID: 72-III
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507315	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7502115	N/A	2021/08/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7508790	N/A	2021/08/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7508398	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506950	N/A	2021/08/09	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7504589	N/A	2021/08/06	Deonarine Ramnarine
Orthophosphate	KONE	7506989	N/A	2021/08/10	Avneet Kour Sudan
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7508358	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7508893	N/A	2021/08/09	Julianna Castiglione

BV Labs ID: QHL475
Sample ID: 11-III
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7506959	N/A	2021/08/09	Surinder Rai
Anions	IC	7507315	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7506960	N/A	2021/08/09	Surinder Rai
Fluoride	ISE	7506955	2021/08/07	2021/08/09	Surinder Rai
Hardness (calculated as CaCO3)		7502115	N/A	2021/08/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7508790	N/A	2021/08/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7508398	N/A	2021/08/10	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506950	N/A	2021/08/10	Chandra Nandlal
pH	AT	7506962	2021/08/07	2021/08/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7504589	N/A	2021/08/10	Deonarine Ramnarine
Orthophosphate	KONE	7506987	N/A	2021/08/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7506051	2021/08/09	2021/08/10	Kristen Chan



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QHL475
Sample ID: 11-III
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7508358	2021/08/09	2021/08/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7508893	N/A	2021/08/09	Julianna Castiglione

BV Labs ID: QHL475 Dup
Sample ID: 11-III
Matrix: Water

Collected: 2021/08/04
Shipped:
Received: 2021/08/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7506950	N/A	2021/08/10	Chandra Nandlal



GENERAL COMMENTS

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

Package 1	5.0°C
Package 2	5.0°C

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

Sample QHL468 [77-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.

Sample QHL469 [77-II] : 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.

Sample QHL472 [72-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.

Sample QHL473 [72-II] : 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.

Sample QHL474 [72-III] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample QHL475 [11-III] : 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.



BUREAU
VERITAS

BV Labs Job #: C1M0725
Report Date: 2021/08/18

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
7503330	Total Kjeldahl Nitrogen (TKN)	2021/08/10	NC	80 - 120	102	80 - 120	<0.10	mg/L	1.2	20	96	80 - 120
7504589	Phenols-4AAP	2021/08/06	101	80 - 120	102	80 - 120	<0.0010	mg/L	11	20		
7506051	Total Dissolved Solids	2021/08/10					<10	mg/L	0.079	25	97	90 - 110
7506947	Nitrate (N)	2021/08/09	96	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
7506947	Nitrite (N)	2021/08/09	106	80 - 120	110	80 - 120	<0.010	mg/L	NC	20		
7506950	Nitrate (N)	2021/08/10	95	80 - 120	96	80 - 120	<0.10	mg/L	NC	20		
7506950	Nitrite (N)	2021/08/10	109	80 - 120	109	80 - 120	<0.010	mg/L	NC	20		
7506955	Fluoride (F-)	2021/08/09	92	80 - 120	94	80 - 120	<0.10	mg/L	0.93	20		
7506959	Alkalinity (Total as CaCO3)	2021/08/09			97	85 - 115	<1.0	mg/L	0.18	20		
7506960	Conductivity	2021/08/09			102	85 - 115	<1.0	umho/cm	0.45	25		
7506962	pH	2021/08/09			102	98 - 103			0.16	N/A		
7506987	Orthophosphate (P)	2021/08/09	106	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7506989	Orthophosphate (P)	2021/08/10	120	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7507011	Dissolved Bromide (Br-)	2021/08/11	103	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7507011	Dissolved Chloride (Cl-)	2021/08/11	79 (1)	80 - 120	100	70 - 130	<1.0	mg/L	16	20		
7507011	Dissolved Sulphate (SO4)	2021/08/11	93	80 - 120	100	80 - 120	<1.0	mg/L	0.49	20		
7507315	Dissolved Bromide (Br-)	2021/08/11	105	80 - 120	105	80 - 120	<1.0	mg/L	NC	20		
7507315	Dissolved Chloride (Cl-)	2021/08/11	100	80 - 120	101	70 - 130	<1.0	mg/L	16	20		
7507315	Dissolved Sulphate (SO4)	2021/08/11	101	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7507940	Total Organic Carbon (TOC)	2021/08/09	98	80 - 120	101	80 - 120	<0.40	mg/L	0.46	20		
7507946	Total Ammonia-N	2021/08/10	NC	75 - 125	101	80 - 120	<0.050	mg/L	1.4	20		
7508358	Total Kjeldahl Nitrogen (TKN)	2021/08/10	97	80 - 120	101	80 - 120	<0.10	mg/L	NC	20	95	80 - 120
7508398	Total Ammonia-N	2021/08/10	96	75 - 125	101	80 - 120	<0.050	mg/L	NC	20		
7508790	Dissolved Aluminum (Al)	2021/08/12	100	80 - 120	104	80 - 120	<4.9	ug/L				
7508790	Dissolved Antimony (Sb)	2021/08/12	103	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7508790	Dissolved Arsenic (As)	2021/08/12	99	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7508790	Dissolved Barium (Ba)	2021/08/12	98	80 - 120	99	80 - 120	<2.0	ug/L	0.65	20		
7508790	Dissolved Beryllium (Be)	2021/08/12	92	80 - 120	96	80 - 120	<0.40	ug/L	NC	20		
7508790	Dissolved Bismuth (Bi)	2021/08/12	97	80 - 120	96	80 - 120	<1.0	ug/L				
7508790	Dissolved Boron (B)	2021/08/12	89	80 - 120	96	80 - 120	<10	ug/L	1.0	20		



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BV Labs Job #: C1M0725
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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
7508790	Dissolved Cadmium (Cd)	2021/08/12	100	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7508790	Dissolved Calcium (Ca)	2021/08/12	NC	80 - 120	103	80 - 120	<200	ug/L				
7508790	Dissolved Chromium (Cr)	2021/08/12	97	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7508790	Dissolved Cobalt (Co)	2021/08/12	97	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7508790	Dissolved Copper (Cu)	2021/08/12	100	80 - 120	101	80 - 120	<0.90	ug/L	2.7	20		
7508790	Dissolved Iron (Fe)	2021/08/12	97	80 - 120	97	80 - 120	<100	ug/L				
7508790	Dissolved Lead (Pb)	2021/08/12	95	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7508790	Dissolved Lithium (Li)	2021/08/12	90	80 - 120	98	80 - 120	<5.0	ug/L				
7508790	Dissolved Magnesium (Mg)	2021/08/12	97	80 - 120	100	80 - 120	<50	ug/L				
7508790	Dissolved Manganese (Mn)	2021/08/12	99	80 - 120	100	80 - 120	<2.0	ug/L				
7508790	Dissolved Molybdenum (Mo)	2021/08/12	102	80 - 120	101	80 - 120	<0.50	ug/L	1.8	20		
7508790	Dissolved Nickel (Ni)	2021/08/12	94	80 - 120	100	80 - 120	<1.0	ug/L	13	20		
7508790	Dissolved Phosphorus (P)	2021/08/12	105	80 - 120	105	80 - 120	<100	ug/L				
7508790	Dissolved Potassium (K)	2021/08/12	101	80 - 120	102	80 - 120	<200	ug/L				
7508790	Dissolved Selenium (Se)	2021/08/12	99	80 - 120	102	80 - 120	<2.0	ug/L	0.21	20		
7508790	Dissolved Silicon (Si)	2021/08/12	107	80 - 120	106	80 - 120	<50	ug/L				
7508790	Dissolved Silver (Ag)	2021/08/12	95	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7508790	Dissolved Sodium (Na)	2021/08/12	NC	80 - 120	97	80 - 120	<100	ug/L				
7508790	Dissolved Strontium (Sr)	2021/08/12	NC	80 - 120	101	80 - 120	<1.0	ug/L				
7508790	Dissolved Tellurium (Te)	2021/08/12	103	80 - 120	102	80 - 120	<1.0	ug/L				
7508790	Dissolved Thallium (Tl)	2021/08/12	97	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
7508790	Dissolved Tin (Sn)	2021/08/12	103	80 - 120	102	80 - 120	<1.0	ug/L				
7508790	Dissolved Titanium (Ti)	2021/08/12	102	80 - 120	104	80 - 120	<5.0	ug/L				
7508790	Dissolved Tungsten (W)	2021/08/12	102	80 - 120	103	80 - 120	<1.0	ug/L				
7508790	Dissolved Uranium (U)	2021/08/12	98	80 - 120	102	80 - 120	<0.10	ug/L	0.99	20		
7508790	Dissolved Vanadium (V)	2021/08/12	96	80 - 120	97	80 - 120	<0.50	ug/L	1.3	20		
7508790	Dissolved Zinc (Zn)	2021/08/12	97	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7508790	Dissolved Zirconium (Zr)	2021/08/12	101	80 - 120	99	80 - 120	<1.0	ug/L				



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VERITAS

BV Labs Job #: C1M0725
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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
7508893	Total Organic Carbon (TOC)	2021/08/09	102	80 - 120	101	80 - 120	<0.40	mg/L	0.96	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) 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 #: C1M0725
Report Date: 2021/08/18

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:

A handwritten signature in black ink, appearing to read "Brad Newman".

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
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05-Aug-21 15:33

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Jolanta Goralczyk
C1M0725

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	Only:		
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	Barcode: 834487		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel:	Project Name:	COC #:		
Email: kbailey@terrapureenv.com	Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:	Barcode: C#834487-13-01		
		Sampled By:	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

Regulation 153 (2011)		Other Regulations		Special Instructions
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> MISA	Municipality: _____	
<input type="checkbox"/> Table _____	<input type="checkbox"/> For RSC	<input type="checkbox"/> FWOO	Reg 405 Table: _____	
		<input type="checkbox"/> Other		

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals Hg / Cr / V	Last "A" GW Monitoring	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	Turnaround Time (TAT) Required: Please provide advance notice for rush projects
1	77-I	Aug 4, 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. Job Specific Rush TAT (if applies to entire submission)* Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)
2	77-II			GW	Y	X		# of Bottles: 6
3	77-III			GW	Y	X		6
4	72-I			GW	Y	X		6
5	72-II			GW	Y	X		6
6	72-III			GW	Y	X		6
7	11-II			GW	Y	X		6
8				GW	Y	X		6
9				GW	Y	X		6
10				GW	Y	X		6

* RELINQUISHED BY: (Signature/Print) Dan Taylor	Date: (YY/MM/DD) 21/08/05	Time 9:15	RECEIVED BY: (Signature/Print) SHANNON KERR	Date: (YY/MM/DD) 21/08/05	Time 15:33	# Jars used and not submitted	Laboratory Use Only
Time Sensitive	Temperature (°C) on Receipt 7/3/5	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.

9/1/5.



Your Project #: SW
Your C.O.C. #: 835825-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/13
Report #: R6764020
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M2489

Received: 2021/08/06, 16:23

Sample Matrix: Water
Samples Received: 16

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	6	2021/08/10	2021/08/11	CAM SOP-00301	EPA 8270 m
Dissolved Aluminum (0.2 u, clay free)	13	N/A	2021/08/11	CAM SOP-00447	EPA 6020B m
Alkalinity	1	N/A	2021/08/10	CAM SOP-00448	SM 23 2320 B m
Alkalinity	2	N/A	2021/08/11	CAM SOP-00448	SM 23 2320 B m
Alkalinity	13	N/A	2021/08/12	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	13	2021/08/08	2021/08/13	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	2	N/A	2021/08/10	CAM SOP-00463	SM 23 4500-Cl E m
Chloride by Automated Colourimetry	13	N/A	2021/08/11	CAM SOP-00463	SM 23 4500-Cl E m
Chloride by Automated Colourimetry	1	N/A	2021/08/12	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	1	N/A	2021/08/10	CAM SOP-00414	SM 23 2510 m
Conductivity	2	N/A	2021/08/12	CAM SOP-00414	SM 23 2510 m
Dissolved Organic Carbon (DOC) (1)	13	N/A	2021/08/10	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	13	N/A	2021/08/11	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	3	2021/08/10	2021/08/10	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	1	2021/08/09	2021/08/10	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	9	2021/08/09	2021/08/09	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	1	N/A	2021/08/10	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	15	N/A	2021/08/11	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	16	N/A	2021/08/11	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	13	N/A	2021/08/11	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (3)	6	2021/08/11	2021/08/12	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	6	N/A	2021/08/10	CAM SOP-00307	EPA 8081A/8082B m
pH	13	2021/08/10	2021/08/12	CAM SOP-00413	SM 4500H+ B m
pH	1	2021/08/11	2021/08/11	CAM SOP-00413	SM 4500H+ B m
pH	1	2021/08/09	2021/08/10	CAM SOP-00413	SM 4500H+ B m
pH	1	2021/08/09	2021/08/11	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	2	N/A	2021/08/10	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	14	N/A	2021/08/09	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	11	N/A	2021/08/11	CAM SOP-00464	EPA 375.4 m
Sulphate by Automated Colourimetry	2	N/A	2021/08/12	CAM SOP-00464	EPA 375.4 m



Your Project #: SW
Your C.O.C. #: 835825-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/13
Report #: R6764020
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M2489

Received: 2021/08/06, 16:23

Sample Matrix: Water
Samples Received: 16

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Kjeldahl Nitrogen in Water	1	2021/08/10	2021/08/11	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (4)	1	N/A	2021/08/10	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	12	2021/08/10	2021/08/12	CAM SOP-00407	SM 23 4500 P B H m
Total Phosphorus (Colourimetric)	1	2021/08/10	2021/08/13	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	16	2021/08/09	2021/08/10	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	6	N/A	2021/08/09	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	6	N/A	2021/08/09	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) 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) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane
- (4) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
13 Aug 2021 16:14:24

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

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHU566			QHU566			QHU567		
Sampling Date		2021/08/05			2021/08/05			2021/08/05		
COC Number		835825-01-01			835825-01-01			835825-01-01		
	UNITS	T-1R	RDL	QC Batch	T-1R Lab-Dup	RDL	QC Batch	T-3A	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	880	1.0	7506368				1200	1.0	7506368
Inorganics										
Total Ammonia-N	mg/L	50	0.25	7510570				0.51	0.050	7510570
Total BOD	mg/L	10	2	7507517				2	2	7507517
Dissolved Organic Carbon	mg/L	18	0.40	7509562	18	0.40	7509562	5.1	0.40	7509562
pH	pH	7.92		7511218				8.06		7512948
Phenols-4AAP	mg/L	0.080	0.0050	7508742				<0.0010	0.0010	7508755
Total Phosphorus	mg/L	0.034	0.004	7511471				0.021	0.004	7511471
Total Suspended Solids	mg/L	10	10	7506924				19	10	7506924
Dissolved Sulphate (SO4)	mg/L	980	5.0	7511144				990	5.0	7512808
Alkalinity (Total as CaCO3)	mg/L	110	1.0	7511211				160	1.0	7512902
Dissolved Chloride (Cl-)	mg/L	1500	20	7511133				600	7.0	7512785
Nitrite (N)	mg/L	0.010	0.010	7511168	0.010	0.010	7511168	0.453	0.010	7512960
Nitrate (N)	mg/L	<0.10	0.10	7511168	<0.10	0.10	7511168	1.74	0.10	7512960
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7511168	<0.10	0.10	7511168	2.19	0.10	7512960
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHU568	QHU569		QHU570		QHU571		
Sampling Date		2021/08/05	2021/08/05		2021/08/05		2021/08/05		
COC Number		835825-01-01	835825-01-01		835825-01-01		835825-01-01		
	UNITS	T-12	T-13	QC Batch	T-15R	QC Batch	T-16	RDL	QC Batch

Calculated Parameters									
Hardness (CaCO3)	mg/L	500	460	7506368	560	7506368	440	1.0	7506368
Inorganics									
Total Ammonia-N	mg/L	<0.050	<0.050	7510570	<0.050	7510570	<0.050	0.050	7510570
Total BOD	mg/L	<2	<2	7507517	<2	7507517	<2	2	7507517
Dissolved Organic Carbon	mg/L	2.4	2.5	7509562	2.5	7510708	2.8	0.40	7510708
pH	pH	8.50	8.45	7511218	8.18	7511218	8.46		7511218
Phenols-4AAP	mg/L	<0.0010	<0.0010	7508755	<0.0010	7508755	<0.0010	0.0010	7508742
Total Phosphorus	mg/L	0.046	0.080	7511471	0.006	7511471	0.084	0.004	7511471
Total Suspended Solids	mg/L	<10	10	7506924	<10	7506924	<10	10	7506924
Dissolved Sulphate (SO4)	mg/L	270	260	7511144	350	7511144	250	1.0	7511144
Alkalinity (Total as CaCO3)	mg/L	240	210	7511211	230	7511211	210	1.0	7511211
Dissolved Chloride (Cl-)	mg/L	190	190	7511133	160	7511133	200	2.0	7511133
Nitrite (N)	mg/L	<0.010	<0.010	7510923	<0.010	7510932	<0.010	0.010	7510923
Nitrate (N)	mg/L	0.38	0.35	7510923	0.16	7510932	0.40	0.10	7510923
Nitrate + Nitrite (N)	mg/L	0.38	0.35	7510923	0.16	7510932	0.40	0.10	7510923

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs ID		QHU572		QHU573			QHU574		
Sampling Date		2021/08/05		2021/08/05			2021/08/05		
COC Number		835825-01-01		835825-01-01			835825-01-01		
	UNITS	T-21	QC Batch	T-23	RDL	QC Batch	T-28	RDL	QC Batch

Inorganics									
Total Ammonia-N	mg/L	0.071	7509303	0.16	0.050	7509303	<0.050	0.050	7509303
Conductivity	umho/cm	1500	7509323	1400	1.0	7511205	1500	1.0	7511205
pH	pH	8.22	7509324	8.44		7511206	8.44		7511206
Phenols-4AAP	mg/L	<0.0010	7508742	<0.0010	0.0010	7508742	<0.0010	0.0010	7508755
Total Suspended Solids	mg/L	48	7506924	<10	10	7506924	<10	10	7506931
Alkalinity (Total as CaCO3)	mg/L	200	7509314	200	1.0	7511199	210	1.0	7511199
Dissolved Chloride (Cl-)	mg/L	180	7509866	150	2.0	7511783	220	3.0	7511783

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHU574			QHU575		QHU576		
Sampling Date		2021/08/05			2021/08/05		2021/08/05		
COC Number		835825-01-01			835825-01-01		835825-01-01		
	UNITS	T-28 Lab-Dup	RDL	QC Batch	T-29	QC Batch	T-30	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				510	7506368	500	1.0	7506368
Inorganics									
Total Ammonia-N	mg/L				<0.050	7510570	0.069	0.050	7510570
Total BOD	mg/L				<2	7507517	<2	2	7507517
Dissolved Organic Carbon	mg/L				2.3	7510708	2.6	0.40	7509562
pH	pH				8.53	7511218	8.48		7511218
Phenols-4AAP	mg/L				<0.0010	7508742	<0.0010	0.0010	7508755
Total Phosphorus	mg/L				0.043	7511471	0.062	0.004	7511471
Total Suspended Solids	mg/L	<10	10	7506931	<10	7506924	<10	10	7506924
Dissolved Sulphate (SO4)	mg/L				270	7511144	280	1.0	7511144
Alkalinity (Total as CaCO3)	mg/L				230	7511211	230	1.0	7511211
Dissolved Chloride (Cl-)	mg/L				180	7511133	190	2.0	7511133
Nitrite (N)	mg/L				<0.010	7510923	0.015	0.010	7510923
Nitrate (N)	mg/L				0.43	7510923	0.43	0.10	7510923
Nitrate + Nitrite (N)	mg/L				0.43	7510923	0.45	0.10	7510923
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHU577			QHU578			QHU578		
Sampling Date		2021/08/05			2021/08/05			2021/08/05		
COC Number		835825-01-01			835825-01-01			835825-01-01		
	UNITS	T-31	RDL	QC Batch	T-32	RDL	QC Batch	T-32 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	510	1.0	7506368	500	1.0	7506368			
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7510570	0.13	0.050	7510570			
Total BOD	mg/L	<2	2	7507517	<2	2	7507517			
Dissolved Organic Carbon	mg/L	2.9	0.40	7509562	2.5	0.40	7509562			
pH	pH	8.53		7511218	8.44		7511218	8.48		7511218
Phenols-4AAP	mg/L	<0.0010	0.0010	7508742	<0.0010	0.0010	7508742			
Total Phosphorus	mg/L	0.034	0.004	7511471	0.074	0.004	7511471			
Total Suspended Solids	mg/L	<10	10	7506924	<10	10	7506924			
Dissolved Sulphate (SO4)	mg/L	250	2.0	7512090	280	1.0	7511144			
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7511211	220	1.0	7511211	230	1.0	7511211
Dissolved Chloride (Cl-)	mg/L	190	2.0	7512104	190	2.0	7511133			
Nitrite (N)	mg/L	0.014	0.010	7510923	0.011	0.010	7510932			
Nitrate (N)	mg/L	0.41	0.10	7510923	0.42	0.10	7510932			
Nitrate + Nitrite (N)	mg/L	0.42	0.10	7510923	0.43	0.10	7510932			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHU579				QHU580				QHU580	
Sampling Date		2021/08/05				2021/08/05				2021/08/05	
COC Number		835825-01-01				835825-01-01				835825-01-01	
	UNITS	NORTH SUMP	RDL	QC Batch	TS-1	RDL	QC Batch	TS-1 Lab-Dup	RDL	QC Batch	
Calculated Parameters											
Hardness (CaCO3)	mg/L	1200	1.0	7506368	110	1.0	7506368				
Inorganics											
Total Ammonia-N	mg/L	0.086	0.050	7510570	<0.050	0.050	7510570				
Total BOD	mg/L	<2	2	7507517	<2	2	7507517				
Total Kjeldahl Nitrogen (TKN)	mg/L				0.69	0.10	7510727				
Dissolved Organic Carbon	mg/L	3.6	0.40	7510708	7.1	0.40	7510708	7.1	0.40	7510708	
Total Organic Carbon (TOC)	mg/L				8.4	0.40	7510748				
pH	pH	8.15		7509830	8.97		7511218				
Phenols-4AAP	mg/L	<0.0010	0.0010	7508742	<0.0010	0.0010	7508755				
Total Phosphorus	mg/L	0.09	0.02	7511471	0.077	0.004	7511471				
Total Suspended Solids	mg/L	12	10	7506924	17	10	7506924				
Dissolved Sulphate (SO4)	mg/L	840	5.0	7509876	84	1.0	7511144				
Alkalinity (Total as CaCO3)	mg/L	170	1.0	7509796	57	1.0	7511211				
Dissolved Chloride (Cl-)	mg/L	570	6.0	7509872	34	1.0	7511133				
Nitrite (N)	mg/L	<0.010	0.010	7509280	<0.010	0.010	7510923				
Nitrate (N)	mg/L	0.16	0.10	7509280	<0.10	0.10	7510923				
Nitrate + Nitrite (N)	mg/L	0.16	0.10	7509280	<0.10	0.10	7510923				
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate											



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		QHU581			QHU581		
Sampling Date		2021/08/05			2021/08/05		
COC Number		835825-01-01			835825-01-01		
	UNITS	T-35	RDL	QC Batch	T-35 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	520	1.0	7504818			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	7510570			
Total BOD	mg/L	<2	2	7507517	<2	2	7507517
Dissolved Organic Carbon	mg/L	2.8	0.40	7510708			
pH	pH	8.53		7511218			
Phenols-4AAP	mg/L	<0.0010	0.0010	7508742			
Total Phosphorus	mg/L	0.048	0.004	7511471			
Total Suspended Solids	mg/L	<10	10	7506924	<10	10	7506924
Dissolved Sulphate (SO4)	mg/L	300	1.0	7511144	300	1.0	7511144
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7511211			
Dissolved Chloride (Cl-)	mg/L	180	2.0	7511133	190	2.0	7511133
Nitrite (N)	mg/L	0.013	0.010	7510923			
Nitrate (N)	mg/L	0.37	0.10	7510923			
Nitrate + Nitrite (N)	mg/L	0.38	0.10	7510923			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHU566		QHU567		QHU568		
Sampling Date		2021/08/05		2021/08/05		2021/08/05		
COC Number		835825-01-01		835825-01-01		835825-01-01		
	UNITS	T-1R	RDL	T-3A	QC Batch	T-12	RDL	QC Batch
Metals								
Dissolved (0.2u) Aluminum (Al)	ug/L	14	5	6	7511379	9	5	7511379
Mercury (Hg)	mg/L	<0.00010	0.00010	<0.00010	7508011	<0.00010	0.00010	7510370
Total Aluminum (Al)	mg/L	0.017	0.0049	0.063	7512709	0.070	0.0049	7512709
Total Arsenic (As)	mg/L	0.0061	0.0010	<0.0010	7512709	<0.0010	0.0010	7512709
Total Beryllium (Be)	mg/L	<0.00040	0.00040	<0.00040	7512709	<0.00040	0.00040	7512709
Total Boron (B)	mg/L	0.46	0.010	0.62	7512709	0.077	0.010	7512709
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	<0.000090	7512709	0.00017	0.000090	7512709
Total Calcium (Ca)	mg/L	280	0.20	350	7512709	120	0.20	7512709
Total Chromium (Cr)	mg/L	<0.0050	0.0050	<0.0050	7512709	<0.0050	0.0050	7512709
Total Cobalt (Co)	mg/L	<0.00050	0.00050	<0.00050	7512709	<0.00050	0.00050	7512709
Total Copper (Cu)	mg/L	0.00091	0.00090	0.0014	7512709	0.0019	0.00090	7512709
Total Iron (Fe)	mg/L	0.20	0.10	0.15	7512709	0.13	0.10	7512709
Total Lead (Pb)	mg/L	0.00068	0.00050	0.0013	7512709	<0.00050	0.00050	7512709
Total Magnesium (Mg)	mg/L	41	0.050	90	7512709	50	0.050	7512709
Total Manganese (Mn)	mg/L	0.072	0.0020	0.039	7512709	0.013	0.0020	7512709
Total Molybdenum (Mo)	mg/L	0.035	0.00050	0.0055	7512709	0.0043	0.00050	7512709
Total Nickel (Ni)	mg/L	0.0095	0.0010	0.0042	7512709	0.0030	0.0010	7512709
Total Selenium (Se)	mg/L	<0.0020	0.0020	<0.0020	7512709	<0.0020	0.0020	7512709
Total Silver (Ag)	mg/L	<0.000090	0.000090	<0.000090	7512709	<0.000090	0.000090	7512709
Total Sodium (Na)	mg/L	980	0.50	360	7512709	120	0.10	7512709
Total Strontium (Sr)	mg/L	4.9	0.0010	4.5	7512709	2.5	0.0010	7512709
Total Vanadium (V)	mg/L	0.0017	0.00050	0.00067	7512709	0.00070	0.00050	7512709
Total Zinc (Zn)	mg/L	0.0057	0.0050	0.014	7512709	0.12	0.0050	7512709
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHU569		QHU570		QHU571		
Sampling Date		2021/08/05		2021/08/05		2021/08/05		
COC Number		835825-01-01		835825-01-01		835825-01-01		
	UNITS	T-13	QC Batch	T-15R	QC Batch	T-16	RDL	QC Batch
Metals								
Dissolved (0.2u) Aluminum (Al)	ug/L	6	7511379	<5	7511379	<5	5	7511379
Mercury (Hg)	mg/L	<0.00010	7508011	<0.00010	7508011	<0.00010	0.00010	7510370
Total Aluminum (Al)	mg/L	0.093	7512709	0.038	7510116	0.061	0.0049	7512709
Total Arsenic (As)	mg/L	<0.0010	7512709	<0.0010	7510116	0.0011	0.0010	7512709
Total Beryllium (Be)	mg/L	<0.00040	7512709	<0.00040	7510116	<0.00040	0.00040	7512709
Total Boron (B)	mg/L	0.090	7512709	0.11	7510116	0.11	0.010	7512709
Total Cadmium (Cd)	mg/L	<0.000090	7512709	0.00026	7510116	<0.000090	0.000090	7512709
Total Calcium (Ca)	mg/L	120	7512709	150	7510116	110	0.20	7512709
Total Chromium (Cr)	mg/L	<0.0050	7512709	<0.0050	7510116	<0.0050	0.0050	7512709
Total Cobalt (Co)	mg/L	<0.00050	7512709	<0.00050	7510116	<0.00050	0.00050	7512709
Total Copper (Cu)	mg/L	0.0030	7512709	<0.00090	7510116	0.0017	0.00090	7512709
Total Iron (Fe)	mg/L	0.14	7512709	<0.10	7510116	0.10	0.10	7512709
Total Lead (Pb)	mg/L	0.00059	7512709	<0.00050	7510116	<0.00050	0.00050	7512709
Total Magnesium (Mg)	mg/L	43	7512709	40	7510116	40	0.050	7512709
Total Manganese (Mn)	mg/L	0.0082	7512709	0.19	7510116	0.024	0.0020	7512709
Total Molybdenum (Mo)	mg/L	0.0034	7512709	0.0016	7510116	0.0030	0.00050	7512709
Total Nickel (Ni)	mg/L	0.0018	7512709	0.0046	7510116	0.0013	0.0010	7512709
Total Selenium (Se)	mg/L	<0.0020	7512709	<0.0020	7510116	<0.0020	0.0020	7512709
Total Silver (Ag)	mg/L	<0.000090	7512709	<0.000090	7510116	<0.000090	0.000090	7512709
Total Sodium (Na)	mg/L	130	7512709	100	7510116	140	0.10	7512709
Total Strontium (Sr)	mg/L	2.1	7512709	4.7	7510116	2.2	0.0010	7512709
Total Vanadium (V)	mg/L	0.0012	7512709	<0.00050	7510116	0.0011	0.00050	7512709
Total Zinc (Zn)	mg/L	0.035	7512709	0.13	7510116	0.0081	0.0050	7512709
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHU572	QHU573	QHU574			QHU575		
Sampling Date		2021/08/05	2021/08/05	2021/08/05			2021/08/05		
COC Number		835825-01-01	835825-01-01	835825-01-01			835825-01-01		
	UNITS	T-21	T-23	T-28	RDL	QC Batch	T-29	RDL	QC Batch
Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L						9	5	7511379
Mercury (Hg)	mg/L						<0.00010	0.00010	7508011
Total Aluminum (Al)	mg/L						0.065	0.0049	7512709
Total Arsenic (As)	mg/L						<0.0010	0.0010	7512709
Total Beryllium (Be)	mg/L						<0.00040	0.00040	7512709
Total Boron (B)	mg/L	0.10	0.12	0.090	0.010	7512709	0.073	0.010	7512709
Total Cadmium (Cd)	mg/L						0.00012	0.000090	7512709
Total Calcium (Ca)	mg/L						120	0.20	7512709
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	7512709	<0.0050	0.0050	7512709
Total Cobalt (Co)	mg/L						<0.00050	0.00050	7512709
Total Copper (Cu)	mg/L						0.0015	0.00090	7512709
Total Iron (Fe)	mg/L						<0.10	0.10	7512709
Total Lead (Pb)	mg/L						<0.00050	0.00050	7512709
Total Magnesium (Mg)	mg/L						50	0.050	7512709
Total Manganese (Mn)	mg/L						0.0098	0.0020	7512709
Total Molybdenum (Mo)	mg/L						0.0043	0.00050	7512709
Total Nickel (Ni)	mg/L	0.0024	0.0011	0.0015	0.0010	7512709	0.0029	0.0010	7512709
Total Selenium (Se)	mg/L						<0.0020	0.0020	7512709
Total Silver (Ag)	mg/L						<0.000090	0.000090	7512709
Total Sodium (Na)	mg/L						120	0.10	7512709
Total Strontium (Sr)	mg/L						2.6	0.0010	7512709
Total Vanadium (V)	mg/L						0.00068	0.00050	7512709
Total Zinc (Zn)	mg/L						0.12	0.0050	7512709
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHU576	QHU577	QHU578	QHU579		
Sampling Date		2021/08/05	2021/08/05	2021/08/05	2021/08/05		
COC Number		835825-01-01	835825-01-01	835825-01-01	835825-01-01		
	UNITS	T-30	T-31	T-32	NORTH SUMP	RDL	QC Batch
Metals							
Dissolved (0.2u) Aluminum (Al)	ug/L	7	9	6	10	5	7511379
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7508011
Total Aluminum (Al)	mg/L	0.14	0.051	0.069	0.084	0.0049	7512709
Total Arsenic (As)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	7512709
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	0.00040	7512709
Total Boron (B)	mg/L	0.080	0.088	0.095	0.54	0.010	7512709
Total Cadmium (Cd)	mg/L	0.00019	0.00013	0.000095	<0.000090	0.000090	7512709
Total Calcium (Ca)	mg/L	120	130	120	300	0.20	7512709
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7512709
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	7512709
Total Copper (Cu)	mg/L	0.0033	0.0021	0.0024	0.0038	0.00090	7512709
Total Iron (Fe)	mg/L	0.27	<0.10	0.12	0.40	0.10	7512709
Total Lead (Pb)	mg/L	0.00077	<0.00050	<0.00050	0.0057	0.00050	7512709
Total Magnesium (Mg)	mg/L	52	52	47	110	0.050	7512709
Total Manganese (Mn)	mg/L	0.022	0.014	0.010	0.15	0.0020	7512709
Total Molybdenum (Mo)	mg/L	0.0041	0.0042	0.0036	0.0065	0.00050	7512709
Total Nickel (Ni)	mg/L	0.0034	0.0029	0.0025	0.0032	0.0010	7512709
Total Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7512709
Total Silver (Ag)	mg/L	<0.000090	<0.000090	<0.000090	<0.000090	0.000090	7512709
Total Sodium (Na)	mg/L	120	120	130	330	0.10	7512709
Total Strontium (Sr)	mg/L	2.6	2.6	2.2	4.4	0.0010	7512709
Total Vanadium (V)	mg/L	0.00094	0.00084	0.00090	0.0014	0.00050	7512709
Total Zinc (Zn)	mg/L	0.15	0.089	0.091	0.017	0.0050	7512709
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QHU580			QHU581		
Sampling Date		2021/08/05			2021/08/05		
COC Number		835825-01-01			835825-01-01		
	UNITS	TS-1	RDL	QC Batch	T-35	RDL	QC Batch
Metals							
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	5	7511379	13	5	7511379
Mercury (Hg)	mg/L	<0.00010	0.00010	7510370	<0.00010	0.00010	7510370
Total Aluminum (Al)	mg/L	0.25	0.0049	7512709	0.049	0.0049	7512709
Total Arsenic (As)	mg/L	0.0028	0.0010	7512709	<0.0010	0.0010	7512709
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7512709	<0.00040	0.00040	7512709
Total Boron (B)	mg/L	0.12	0.010	7512709	0.088	0.010	7512709
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7512709	0.00011	0.000090	7512709
Total Calcium (Ca)	mg/L	23	0.20	7512709	120	0.20	7512709
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7512709	<0.0050	0.0050	7512709
Total Cobalt (Co)	mg/L	<0.00050	0.00050	7512709	<0.00050	0.00050	7512709
Total Copper (Cu)	mg/L	0.0021	0.00090	7512709	0.0014	0.00090	7512709
Total Iron (Fe)	mg/L	0.38	0.10	7512709	<0.10	0.10	7512709
Total Lead (Pb)	mg/L	0.0015	0.00050	7512709	<0.00050	0.00050	7512709
Total Magnesium (Mg)	mg/L	14	0.050	7512709	51	0.050	7512709
Total Manganese (Mn)	mg/L	0.023	0.0020	7512709	0.016	0.0020	7512709
Total Molybdenum (Mo)	mg/L	0.0054	0.00050	7512709	0.0041	0.00050	7512709
Total Nickel (Ni)	mg/L	0.0028	0.0010	7512709	0.0029	0.0010	7512709
Total Potassium (K)	mg/L	11	0.20	7512709			
Total Selenium (Se)	mg/L	<0.0020	0.0020	7512709	<0.0020	0.0020	7512709
Total Silver (Ag)	mg/L	<0.000090	0.000090	7512709	<0.000090	0.000090	7512709
Total Sodium (Na)	mg/L	31	0.10	7512709	120	0.10	7512709
Total Strontium (Sr)	mg/L	0.35	0.0010	7512709	2.5	0.0010	7512709
Total Vanadium (V)	mg/L	0.0030	0.00050	7512709	0.00081	0.00050	7512709
Total Zinc (Zn)	mg/L	0.0084	0.0050	7512709	0.094	0.0050	7512709
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		QHU566		QHU567	QHU568	QHU570	QHU579		
Sampling Date		2021/08/05		2021/08/05	2021/08/05	2021/08/05	2021/08/05		
COC Number		835825-01-01		835825-01-01	835825-01-01	835825-01-01	835825-01-01		
	UNITS	T-1R	RDL	T-3A	T-12	T-15R	NORTH SUMP	RDL	QC Batch

Semivolatile Organics									
Acenaphthene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Acenaphthylene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Anthracene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Benzo(a)anthracene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Benzo(a)pyrene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Benzo(b/j)fluoranthene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Benzo(g,h,i)perylene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Benzo(k)fluoranthene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
1-Chloronaphthalene	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
2-Chloronaphthalene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Chrysene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Dibenzo(a,h)anthracene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Fluoranthene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Fluorene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
1-Methylnaphthalene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
2-Methylnaphthalene	ug/L	0.25	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Naphthalene	ug/L	<0.70 (1)	0.70	<0.20	<0.20	<0.20	<0.20	0.20	7510203
5-Nitroacenaphthene	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
Perylene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Phenanthrene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
Pyrene	ug/L	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.20	7510203
1,4-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Hexachlorobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Pentachlorobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2-Chlorophenol	ug/L	<0.30	0.30	<0.30	<0.30	<0.30	<0.30	0.30	7510203
4-Chloro-3-Methylphenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
m/p-Cresol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
o-Cresol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,4-Dichlorophenol	ug/L	<0.30	0.30	<0.30	<0.30	<0.30	<0.30	0.30	7510203

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Detection limit was raised due to matrix interference.



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		QHU566		QHU567	QHU568	QHU570	QHU579		
Sampling Date		2021/08/05		2021/08/05	2021/08/05	2021/08/05	2021/08/05		
COC Number		835825-01-01		835825-01-01	835825-01-01	835825-01-01	835825-01-01		
	UNITS	T-1R	RDL	T-3A	T-12	T-15R	NORTH SUMP	RDL	QC Batch
2,6-Dichlorophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,4-Dimethylphenol	ug/L	4.3	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,4-Dinitrophenol	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	2.0	7510203
4,6-Dinitro-2-methylphenol	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	2.0	7510203
2-Nitrophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
4-Nitrophenol	ug/L	<1.4	1.4	<1.4	<1.4	<1.4	<1.4	1.4	7510203
Pentachlorophenol	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
Phenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	0.40	<0.40	<0.40	<0.40	<0.40	0.40	7510203
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,3,4-Trichlorophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,3,5-Trichlorophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,4,5-Trichlorophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
2,4,6-Trichlorophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
3,4,5-Trichlorophenol	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Benzyl butyl phthalate	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Biphenyl	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Bis(2-chloroethyl)ether	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Bis(2-chloroethoxy)methane	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Bis(2-chloroisopropyl)ether	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	2.0	7510203
4-Bromophenyl phenyl ether	ug/L	<0.30	0.30	<0.30	<0.30	<0.30	<0.30	0.30	7510203
Camphene	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
p-Chloroaniline	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
4-Chlorophenyl phenyl ether	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Di-N-butyl phthalate	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	2.0	7510203
di-n-octyl phthalate	ug/L	<0.80	0.80	<0.80	<0.80	<0.80	<0.80	0.80	7510203
2,4-Dinitrotoluene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Diethyl phthalate	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
3,3'-Dichlorobenzidine	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Dimethyl phthalate	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
2,6-Dinitrotoluene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Diphenyl Ether	ug/L	<0.30	0.30	<0.30	<0.30	<0.30	<0.30	0.30	7510203
Hexachlorobutadiene	ug/L	<0.40	0.40	<0.40	<0.40	<0.40	<0.40	0.40	7510203
Hexachlorocyclopentadiene	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	2.0	7510203
Hexachloroethane	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



BUREAU
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BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		QHU566		QHU567	QHU568	QHU570	QHU579		
Sampling Date		2021/08/05		2021/08/05	2021/08/05	2021/08/05	2021/08/05		
COC Number		835825-01-01		835825-01-01	835825-01-01	835825-01-01	835825-01-01		
	UNITS	T-1R	RDL	T-3A	T-12	T-15R	NORTH SUMP	RDL	QC Batch
Indole	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
Isophorone	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Nitrobenzene	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1.0	7510203
N-Nitroso-di-n-propylamine	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7510203
Surrogate Recovery (%)									
2,4,6-Tribromophenol	%	91		92	85	87	89		7510203
2-Fluorobiphenyl	%	61		72	68	73	74		7510203
2-Fluorophenol	%	37		58	44	49	45		7510203
D14-Terphenyl	%	99		98	102	97	99		7510203
D5-Nitrobenzene	%	59		80	79	82	82		7510203
D5-Phenol	%	32		45	36	36	36		7510203
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		QHU580		
Sampling Date		2021/08/05		
COC Number		835825-01-01		
	UNITS	TS-1	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<0.20	0.20	7510203
Acenaphthylene	ug/L	<0.20	0.20	7510203
Anthracene	ug/L	<0.20	0.20	7510203
Benzo(a)anthracene	ug/L	<0.20	0.20	7510203
Benzo(a)pyrene	ug/L	<0.20	0.20	7510203
Benzo(b/j)fluoranthene	ug/L	<0.20	0.20	7510203
Benzo(g,h,i)perylene	ug/L	<0.20	0.20	7510203
Benzo(k)fluoranthene	ug/L	<0.20	0.20	7510203
1-Chloronaphthalene	ug/L	<1.0	1.0	7510203
2-Chloronaphthalene	ug/L	<0.50	0.50	7510203
Chrysene	ug/L	<0.20	0.20	7510203
Dibenzo(a,h)anthracene	ug/L	<0.20	0.20	7510203
Fluoranthene	ug/L	<0.20	0.20	7510203
Fluorene	ug/L	<0.20	0.20	7510203
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	0.20	7510203
1-Methylnaphthalene	ug/L	<0.20	0.20	7510203
2-Methylnaphthalene	ug/L	<0.20	0.20	7510203
Naphthalene	ug/L	<0.20	0.20	7510203
5-Nitroacenaphthene	ug/L	<1.0	1.0	7510203
Perylene	ug/L	<0.20	0.20	7510203
Phenanthrene	ug/L	<0.20	0.20	7510203
Pyrene	ug/L	<0.20	0.20	7510203
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7510203
Hexachlorobenzene	ug/L	<0.50	0.50	7510203
Pentachlorobenzene	ug/L	<0.50	0.50	7510203
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	0.50	7510203
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	0.50	7510203
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	7510203
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	7510203
2-Chlorophenol	ug/L	<0.30	0.30	7510203
4-Chloro-3-Methylphenol	ug/L	<0.50	0.50	7510203
m/p-Cresol	ug/L	<0.50	0.50	7510203
o-Cresol	ug/L	<0.50	0.50	7510203
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	0.50	7510203
2,4-Dichlorophenol	ug/L	<0.30	0.30	7510203
2,6-Dichlorophenol	ug/L	<0.50	0.50	7510203
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		QHU580		
Sampling Date		2021/08/05		
COC Number		835825-01-01		
	UNITS	TS-1	RDL	QC Batch
2,4-Dimethylphenol	ug/L	<0.50	0.50	7510203
2,4-Dinitrophenol	ug/L	<2.0	2.0	7510203
4,6-Dinitro-2-methylphenol	ug/L	<2.0	2.0	7510203
2-Nitrophenol	ug/L	<0.50	0.50	7510203
4-Nitrophenol	ug/L	<1.4	1.4	7510203
Pentachlorophenol	ug/L	<1.0	1.0	7510203
Phenol	ug/L	<0.50	0.50	7510203
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	0.40	7510203
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	0.50	7510203
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	0.50	7510203
2,3,4-Trichlorophenol	ug/L	<0.50	0.50	7510203
2,3,5-Trichlorophenol	ug/L	<0.50	0.50	7510203
2,4,5-Trichlorophenol	ug/L	<0.50	0.50	7510203
2,4,6-Trichlorophenol	ug/L	<0.50	0.50	7510203
3,4,5-Trichlorophenol	ug/L	<0.50	0.50	7510203
Benzyl butyl phthalate	ug/L	<0.50	0.50	7510203
Biphenyl	ug/L	<0.50	0.50	7510203
Bis(2-chloroethyl)ether	ug/L	<0.50	0.50	7510203
Bis(2-chloroethoxy)methane	ug/L	<0.50	0.50	7510203
Bis(2-chloroisopropyl)ether	ug/L	<0.50	0.50	7510203
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	2.0	7510203
4-Bromophenyl phenyl ether	ug/L	<0.30	0.30	7510203
Camphene	ug/L	<1.0	1.0	7510203
p-Chloroaniline	ug/L	<1.0	1.0	7510203
4-Chlorophenyl phenyl ether	ug/L	<0.50	0.50	7510203
Di-N-butyl phthalate	ug/L	<2.0	2.0	7510203
di-n-octyl phthalate	ug/L	<0.80	0.80	7510203
2,4-Dinitrotoluene	ug/L	<0.50	0.50	7510203
Diethyl phthalate	ug/L	<1.0	1.0	7510203
3,3'-Dichlorobenzidine	ug/L	<0.50	0.50	7510203
Dimethyl phthalate	ug/L	<1.0	1.0	7510203
2,6-Dinitrotoluene	ug/L	<0.50	0.50	7510203
Diphenyl Ether	ug/L	<0.30	0.30	7510203
Hexachlorobutadiene	ug/L	<0.40	0.40	7510203
Hexachlorocyclopentadiene	ug/L	<2.0	2.0	7510203
Hexachloroethane	ug/L	<0.50	0.50	7510203
Indole	ug/L	<1.0	1.0	7510203
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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BV Labs Job #: C1M2489
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Terrapure Environmental
Client Project #: SW
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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		QHU580		
Sampling Date		2021/08/05		
COC Number		835825-01-01		
	UNITS	TS-1	RDL	QC Batch
Isophorone	ug/L	<0.50	0.50	7510203
Nitrobenzene	ug/L	<0.50	0.50	7510203
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	1.0	7510203
N-Nitroso-di-n-propylamine	ug/L	<0.50	0.50	7510203
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	85		7510203
2-Fluorobiphenyl	%	69		7510203
2-Fluorophenol	%	40		7510203
D14-Terphenyl	%	92		7510203
D5-Nitrobenzene	%	79		7510203
D5-Phenol	%	32		7510203
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		QHU566		QHU567	QHU568	QHU570	QHU579		
Sampling Date		2021/08/05		2021/08/05	2021/08/05	2021/08/05	2021/08/05		
COC Number		835825-01-01		835825-01-01	835825-01-01	835825-01-01	835825-01-01		
	UNITS	T-1R	RDL	T-3A	T-12	T-15R	NORTH SUMP	RDL	QC Batch

Volatile Organics									
Acetone (2-Propanone)	ug/L	72	50	<10	<10	<10	<10	10	7506997
Benzene	ug/L	0.72	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Bromodichloromethane	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Acrolein	ug/L	<50	50	<10	<10	<10	<10	10	7507007
Bromoform	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
Bromomethane	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	<0.50	0.50	7506997
Carbon Tetrachloride	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Chlorobenzene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Chloroethane	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
Chloroform	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Acrylonitrile	ug/L	<25	25	<5.0	<5.0	<5.0	<5.0	5.0	7507007
Chloromethane	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	<0.50	0.50	7506997
Dibromochloromethane	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
1,2-Dichlorobenzene	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
1,3-Dichlorobenzene	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
1,4-Dichlorobenzene	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
1,1-Dichloroethane	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
1,2-Dichloroethane	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
1,1-Dichloroethylene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
1,2-Dichloropropane	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
Ethylbenzene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Ethylene Dibromide	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
Methylene Chloride(Dichloromethane)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	<0.50	0.50	7506997
Methyl Ethyl Ketone (2-Butanone)	ug/L	<25	25	<5.0	<5.0	<5.0	<5.0	5.0	7506997
Methyl Isobutyl Ketone	ug/L	<25	25	<5.0	<5.0	<5.0	<5.0	5.0	7506997
Methyl t-butyl ether (MTBE)	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
Styrene	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
Tetrachloroethylene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Toluene	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
1,1,1-Trichloroethane	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		QHU566		QHU567	QHU568	QHU570	QHU579		
Sampling Date		2021/08/05		2021/08/05	2021/08/05	2021/08/05	2021/08/05		
COC Number		835825-01-01		835825-01-01	835825-01-01	835825-01-01	835825-01-01		
	UNITS	T-1R	RDL	T-3A	T-12	T-15R	NORTH SUMP	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
Trichloroethylene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Trichlorofluoromethane (FREON 11)	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
Vinyl Chloride	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	7506997
p+m-Xylene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Methyl Butyl Ketone (2-Hexanone)	ug/L	<25	25	<5.0	<5.0	<5.0	<5.0	5.0	7507007
o-Xylene	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Total Xylenes	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	7506997
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	98		101	101	101	104		7506997
D4-1,2-Dichloroethane	%	107		106	108	107	107		7506997
D8-Toluene	%	95		94	94	93	96		7506997
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		QHU580		
Sampling Date		2021/08/05		
COC Number		835825-01-01		
	UNITS	TS-1	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7506997
Benzene	ug/L	<0.10	0.10	7506997
Bromodichloromethane	ug/L	<0.10	0.10	7506997
Acrolein	ug/L	<10	10	7507007
Bromoform	ug/L	<0.20	0.20	7506997
Bromomethane	ug/L	<0.50	0.50	7506997
Carbon Tetrachloride	ug/L	<0.10	0.10	7506997
Chlorobenzene	ug/L	<0.10	0.10	7506997
Chloroethane	ug/L	<0.20	0.20	7506997
Chloroform	ug/L	<0.10	0.10	7506997
Acrylonitrile	ug/L	<5.0	5.0	7507007
Chloromethane	ug/L	<0.50	0.50	7506997
Dibromochloromethane	ug/L	<0.20	0.20	7506997
1,2-Dichlorobenzene	ug/L	<0.20	0.20	7506997
1,3-Dichlorobenzene	ug/L	<0.20	0.20	7506997
1,4-Dichlorobenzene	ug/L	<0.20	0.20	7506997
1,1-Dichloroethane	ug/L	<0.10	0.10	7506997
1,2-Dichloroethane	ug/L	<0.20	0.20	7506997
1,1-Dichloroethylene	ug/L	<0.10	0.10	7506997
cis-1,2-Dichloroethylene	ug/L	<0.10	0.10	7506997
trans-1,2-Dichloroethylene	ug/L	<0.10	0.10	7506997
1,2-Dichloropropane	ug/L	<0.10	0.10	7506997
cis-1,3-Dichloropropene	ug/L	<0.20	0.20	7506997
trans-1,3-Dichloropropene	ug/L	<0.20	0.20	7506997
Ethylbenzene	ug/L	<0.10	0.10	7506997
Ethylene Dibromide	ug/L	<0.20	0.20	7506997
Methylene Chloride(Dichloromethane)	ug/L	<0.50	0.50	7506997
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	5.0	7506997
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7506997
Methyl t-butyl ether (MTBE)	ug/L	<0.20	0.20	7506997
Styrene	ug/L	<0.20	0.20	7506997
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	7506997
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	7506997
Tetrachloroethylene	ug/L	<0.10	0.10	7506997
Toluene	ug/L	<0.20	0.20	7506997
1,1,1-Trichloroethane	ug/L	<0.10	0.10	7506997
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		QHU580		
Sampling Date		2021/08/05		
COC Number		835825-01-01		
	UNITS	TS-1	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.20	0.20	7506997
Trichloroethylene	ug/L	<0.10	0.10	7506997
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	0.20	7506997
Vinyl Chloride	ug/L	<0.20	0.20	7506997
p+m-Xylene	ug/L	<0.10	0.10	7506997
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	5.0	7507007
o-Xylene	ug/L	<0.10	0.10	7506997
Total Xylenes	ug/L	<0.10	0.10	7506997
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	105		7506997
D4-1,2-Dichloroethane	%	107		7506997
D8-Toluene	%	96		7506997
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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BV Labs Job #: C1M2489
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Terrapure Environmental
Client Project #: SW
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ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

BV Labs ID		QHU566		QHU567	QHU568	QHU570	QHU579		
Sampling Date		2021/08/05		2021/08/05	2021/08/05	2021/08/05	2021/08/05		
COC Number		835825-01-01		835825-01-01	835825-01-01	835825-01-01	835825-01-01		
	UNITS	T-1R	RDL	T-3A	T-12	T-15R	NORTH SUMP	RDL	QC Batch

Calculated Parameters									
Aldrin + Dieldrin	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7506187
Chlordane (Total)	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7506187
DDT+ Metabolites	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7506187
Heptachlor + Heptachlor epoxide	ug/L	<0.007	0.007	<0.005	<0.005	<0.005	<0.005	0.005	7506187
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7506187
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7506187
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7506187
Total Endosulfan	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7506187
Total PCB	ug/L	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.05	7506187
Total Trichlorobenzenes	ug/L	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.5	7506187

Pesticides & Herbicides									
Aldrin	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Dieldrin	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
a-Chlordane	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
g-Chlordane	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
o,p-DDD	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
p,p-DDD	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
o,p-DDE	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
p,p-DDE	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
o,p-DDT	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
p,p-DDT	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Lindane	ug/L	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	0.003	7512766
Endosulfan I (alpha)	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Endosulfan II (beta)	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Endrin	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Heptachlor	ug/L	<0.007	0.007	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Heptachlor epoxide	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Hexachlorobenzene	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Methoxychlor	ug/L	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	7512766
alpha-BHC	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
beta-BHC	ug/L	<0.007	0.007	<0.005	<0.005	<0.005	<0.005	0.005	7512766
delta-BHC	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Endosulfan sulfate	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Endrin aldehyde	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Endrin ketone	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Mirex	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

BV Labs ID		QHU566		QHU567	QHU568	QHU570	QHU579		
Sampling Date		2021/08/05		2021/08/05	2021/08/05	2021/08/05	2021/08/05		
COC Number		835825-01-01		835825-01-01	835825-01-01	835825-01-01	835825-01-01		
	UNITS	T-1R	RDL	T-3A	T-12	T-15R	NORTH SUMP	RDL	QC Batch
Octachlorostyrene	ug/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	7512766
Toxaphene	ug/L	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.2	7512766
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	%	80		83	76	72	75		7512766
Decachlorobiphenyl	%	89		75	84	88	81		7512766
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

BV Labs ID		QHU580			QHU580		
Sampling Date		2021/08/05			2021/08/05		
COC Number		835825-01-01			835825-01-01		
	UNITS	TS-1	RDL	QC Batch	TS-1 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Aldrin + Dieldrin	ug/L	<0.005	0.005	7506187			
Chlordane (Total)	ug/L	<0.005	0.005	7506187			
DDT+ Metabolites	ug/L	<0.005	0.005	7506187			
Heptachlor + Heptachlor epoxide	ug/L	<0.005	0.005	7506187			
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	7506187			
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	7506187			
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	7506187			
Total Endosulfan	ug/L	<0.005	0.005	7506187			
Total PCB	ug/L	<0.05	0.05	7506187			
Total Trichlorobenzenes	ug/L	<0.5	0.5	7506187			
Pesticides & Herbicides							
Aldrin	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Dieldrin	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
a-Chlordane	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
g-Chlordane	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
o,p-DDD	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
p,p-DDD	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
o,p-DDE	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
p,p-DDE	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
o,p-DDT	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
p,p-DDT	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Lindane	ug/L	<0.003	0.003	7512766	<0.003	0.003	7512766
Endosulfan I (alpha)	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Endosulfan II (beta)	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Endrin	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Heptachlor	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Heptachlor epoxide	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Hexachlorobenzene	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Methoxychlor	ug/L	<0.01	0.01	7512766	<0.01	0.01	7512766
alpha-BHC	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
beta-BHC	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
delta-BHC	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Endosulfan sulfate	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Endrin aldehyde	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Endrin ketone	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



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ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

BV Labs ID		QHU580			QHU580		
Sampling Date		2021/08/05			2021/08/05		
COC Number		835825-01-01			835825-01-01		
	UNITS	TS-1	RDL	QC Batch	TS-1 Lab-Dup	RDL	QC Batch
Mirex	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Octachlorostyrene	ug/L	<0.005	0.005	7512766	<0.005	0.005	7512766
Toxaphene	ug/L	<0.2	0.2	7512766	<0.2	0.2	7512766
Surrogate Recovery (%)							
2,4,5,6-Tetrachloro-m-xylene	%	63		7512766	73		7512766
Decachlorobiphenyl	%	68		7512766	73		7512766
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



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VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU566
Sample ID: T-1R
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7510203	2021/08/10	2021/08/11	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7509562	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7511168	N/A	2021/08/11	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7512766	2021/08/11	2021/08/12	Li Peng
OC Pesticides Summed Parameters	CALC	7506187	N/A	2021/08/10	Automated Statchk
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur
Volatile Organic Compounds in Water	P&T/MS	7506997	N/A	2021/08/09	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7507007	N/A	2021/08/09	Gladys Guerrero

BV Labs ID: QHU566 Dup
Sample ID: T-1R
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7509562	N/A	2021/08/10	Julianna Castiglione
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7511168	N/A	2021/08/11	Chandra Nandlal

BV Labs ID: QHU567
Sample ID: T-3A
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7510203	2021/08/10	2021/08/11	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7512902	N/A	2021/08/11	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7512785	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7509562	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7512960	N/A	2021/08/11	Chandra Nandlal



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Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU567
Sample ID: T-3A
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	7512766	2021/08/11	2021/08/12	Li Peng
OC Pesticides Summed Parameters	CALC	7506187	N/A	2021/08/10	Automated Statchk
pH	AT	7512948	2021/08/11	2021/08/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508755	N/A	2021/08/10	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7512808	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur
Volatile Organic Compounds in Water	P&T/MS	7506997	N/A	2021/08/09	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7507007	N/A	2021/08/09	Gladys Guerrero

BV Labs ID: QHU568
Sample ID: T-12
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7510203	2021/08/10	2021/08/11	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7509562	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7510370	2021/08/10	2021/08/10	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510923	N/A	2021/08/11	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7512766	2021/08/11	2021/08/12	Li Peng
OC Pesticides Summed Parameters	CALC	7506187	N/A	2021/08/10	Automated Statchk
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508755	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur
Volatile Organic Compounds in Water	P&T/MS	7506997	N/A	2021/08/09	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7507007	N/A	2021/08/09	Gladys Guerrero

BV Labs ID: QHU569
Sample ID: T-13
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu



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Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU569
Sample ID: T-13
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7509562	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510923	N/A	2021/08/11	Chandra Nandlal
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508755	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur

BV Labs ID: QHU570
Sample ID: T-15R
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7510203	2021/08/10	2021/08/11	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7510708	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7510116	N/A	2021/08/10	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510932	N/A	2021/08/11	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7512766	2021/08/11	2021/08/12	Li Peng
OC Pesticides Summed Parameters	CALC	7506187	N/A	2021/08/10	Automated Statchk
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508755	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur
Volatile Organic Compounds in Water	P&T/MS	7506997	N/A	2021/08/09	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7507007	N/A	2021/08/09	Gladys Guerrero

BV Labs ID: QHU571
Sample ID: T-16
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU571
Sample ID: T-16
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7510708	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7510370	2021/08/10	2021/08/10	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510923	N/A	2021/08/11	Chandra Nandlal
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur

BV Labs ID: QHU572
Sample ID: T-21
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7509314	N/A	2021/08/10	Surinder Rai
Chloride by Automated Colourimetry	KONE	7509866	N/A	2021/08/10	Alina Dobreanu
Conductivity	AT	7509323	N/A	2021/08/10	Surinder Rai
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7509303	N/A	2021/08/11	Amanpreet Sappal
pH	AT	7509324	2021/08/09	2021/08/10	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/10	Deonarine Ramnarine
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur

BV Labs ID: QHU573
Sample ID: T-23
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7511199	N/A	2021/08/12	Surinder Rai
Chloride by Automated Colourimetry	KONE	7511783	N/A	2021/08/11	Alina Dobreanu
Conductivity	AT	7511205	N/A	2021/08/12	Surinder Rai
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7509303	N/A	2021/08/11	Amanpreet Sappal
pH	AT	7511206	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/09	Deonarine Ramnarine
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur



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BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU574
Sample ID: T-28
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7511199	N/A	2021/08/12	Surinder Rai
Chloride by Automated Colourimetry	KONE	7511783	N/A	2021/08/11	Alina Dobreanu
Conductivity	AT	7511205	N/A	2021/08/12	Surinder Rai
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7509303	N/A	2021/08/11	Amanpreet Sappal
pH	AT	7511206	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508755	N/A	2021/08/09	Deonarine Ramnarine
Total Suspended Solids	BAL	7506931	2021/08/09	2021/08/10	Kristen Chan

BV Labs ID: QHU574 Dup
Sample ID: T-28
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	7506931	2021/08/09	2021/08/10	Kristen Chan

BV Labs ID: QHU575
Sample ID: T-29
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7510708	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510923	N/A	2021/08/11	Chandra Nandlal
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur

BV Labs ID: QHU576
Sample ID: T-30
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang



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VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU576
Sample ID: T-30
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7509562	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510923	N/A	2021/08/11	Chandra Nandlal
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508755	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur

BV Labs ID: QHU577
Sample ID: T-31
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7512104	N/A	2021/08/12	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7509562	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510923	N/A	2021/08/11	Chandra Nandlal
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7512090	N/A	2021/08/12	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur

BV Labs ID: QHU578
Sample ID: T-32
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7509562	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk



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VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU578
Sample ID: T-32
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510932	N/A	2021/08/11	Chandra Nandlal
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur

BV Labs ID: QHU578 Dup
Sample ID: T-32
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai

BV Labs ID: QHU579
Sample ID: NORTH SUMP
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7510203	2021/08/10	2021/08/11	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7509796	N/A	2021/08/11	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7509872	N/A	2021/08/10	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7510708	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7508011	2021/08/09	2021/08/09	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7509280	N/A	2021/08/11	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7512766	2021/08/11	2021/08/12	Li Peng
OC Pesticides Summed Parameters	CALC	7506187	N/A	2021/08/10	Automated Statchk
pH	AT	7509830	2021/08/09	2021/08/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7509876	N/A	2021/08/12	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/13	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur
Volatile Organic Compounds in Water	P&T/MS	7506997	N/A	2021/08/09	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7507007	N/A	2021/08/09	Gladys Guerrero



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VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU580
Sample ID: TS-1
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7510203	2021/08/10	2021/08/11	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7510708	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7506368	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7510370	2021/08/10	2021/08/10	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510923	N/A	2021/08/11	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7512766	2021/08/11	2021/08/12	Li Peng
OC Pesticides Summed Parameters	CALC	7506187	N/A	2021/08/10	Automated Statchk
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508755	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Kjeldahl Nitrogen in Water	SKAL	7510727	2021/08/10	2021/08/11	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7510748	N/A	2021/08/10	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur
Volatile Organic Compounds in Water	P&T/MS	7506997	N/A	2021/08/09	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7507007	N/A	2021/08/09	Gladys Guerrero

BV Labs ID: QHU580 Dup
Sample ID: TS-1
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7510708	N/A	2021/08/10	Julianna Castiglione
OC Pesticides (Selected) & PCB	GC/ECD	7512766	2021/08/11	2021/08/12	Li Peng

BV Labs ID: QHU581
Sample ID: T-35
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7511379	N/A	2021/08/11	Nan Raykha
Alkalinity	AT	7511211	N/A	2021/08/12	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7510708	N/A	2021/08/10	Julianna Castiglione
Hardness (calculated as CaCO3)		7504818	N/A	2021/08/11	Automated Statchk
Mercury in Water by CVAA	CV/AA	7510370	2021/08/09	2021/08/10	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7512709	N/A	2021/08/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7510570	N/A	2021/08/11	Amanpreet Sappal



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: QHU581
Sample ID: T-35
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7510923	N/A	2021/08/11	Chandra Nandlal
pH	AT	7511218	2021/08/10	2021/08/12	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7508742	N/A	2021/08/09	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7511471	2021/08/10	2021/08/12	Shivani Shivani
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur

BV Labs ID: QHU581 Dup
Sample ID: T-35
Matrix: Water

Collected: 2021/08/05
Shipped:
Received: 2021/08/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Biochemical Oxygen Demand (BOD)	DO	7507517	2021/08/08	2021/08/13	Frank Zhang
Chloride by Automated Colourimetry	KONE	7511133	N/A	2021/08/11	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	7511144	N/A	2021/08/11	Alina Dobreanu
Total Suspended Solids	BAL	7506924	2021/08/09	2021/08/10	Sandeep Kaur



GENERAL COMMENTS

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

Package 1	4.3°C
Package 2	5.3°C
Package 3	3.0°C
Package 4	6.7°C
Package 5	6.7°C
Package 6	6.0°C

Sample QHU566 [T-1R] : VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

OC Pesticide Analysis: Detection Limits were raised due to matrix interferences.

Results relate only to the items tested.



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VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: SW
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
7506997	4-Bromofluorobenzene	2021/08/09	102	70 - 130	103	70 - 130	99	%				
7506997	D4-1,2-Dichloroethane	2021/08/09	99	70 - 130	102	70 - 130	101	%				
7506997	D8-Toluene	2021/08/09	96	70 - 130	97	70 - 130	97	%				
7510203	2,4,6-Tribromophenol	2021/08/10	86	10 - 130	84	10 - 130	80	%				
7510203	2-Fluorobiphenyl	2021/08/10	69	30 - 130	48	30 - 130	55	%				
7510203	2-Fluorophenol	2021/08/10	52	10 - 130	38	10 - 130	45	%				
7510203	D14-Terphenyl	2021/08/10	95	30 - 130	93	30 - 130	96	%				
7510203	D5-Nitrobenzene	2021/08/10	83	30 - 130	61	30 - 130	72	%				
7510203	D5-Phenol	2021/08/10	39	10 - 130	29	10 - 130	37	%				
7512766	2,4,5,6-Tetrachloro-m-xylene	2021/08/12	74	50 - 130	80	50 - 130	71	%				
7512766	Decachlorobiphenyl	2021/08/12	82	50 - 130	88	50 - 130	98	%				
7506924	Total Suspended Solids	2021/08/10					<10	mg/L	NC	25	96	85 - 115
7506931	Total Suspended Solids	2021/08/10					<10	mg/L	NC	25	96	85 - 115
7506997	1,1,1,2-Tetrachloroethane	2021/08/09	96	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7506997	1,1,1-Trichloroethane	2021/08/09	106	70 - 130	101	70 - 130	<0.10	ug/L				
7506997	1,1,2,2-Tetrachloroethane	2021/08/09	87	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
7506997	1,1,2-Trichloroethane	2021/08/09	91	70 - 130	91	70 - 130	<0.20	ug/L				
7506997	1,1-Dichloroethane	2021/08/09	90	70 - 130	83	70 - 130	<0.10	ug/L	NC	30		
7506997	1,1-Dichloroethylene	2021/08/09	108	70 - 130	84	70 - 130	<0.10	ug/L				
7506997	1,2-Dichlorobenzene	2021/08/09	94	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
7506997	1,2-Dichloroethane	2021/08/09	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7506997	1,2-Dichloropropane	2021/08/09	88	70 - 130	87	70 - 130	<0.10	ug/L	NC	30		
7506997	1,3-Dichlorobenzene	2021/08/09	98	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7506997	1,4-Dichlorobenzene	2021/08/09	115	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
7506997	Acetone (2-Propanone)	2021/08/09	122	60 - 140	60 (1)	60 - 140	<10	ug/L				
7506997	Benzene	2021/08/09	91	70 - 130	87	70 - 130	<0.10	ug/L				
7506997	Bromodichloromethane	2021/08/09	98	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7506997	Bromoform	2021/08/09	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7506997	Bromomethane	2021/08/09	71	60 - 140	71	60 - 140	<0.50	ug/L	NC	30		
7506997	Carbon Tetrachloride	2021/08/09	107	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7506997	Chlorobenzene	2021/08/09	98	70 - 130	93	70 - 130	<0.10	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7506997	Chloroethane	2021/08/09	82	70 - 130	78	70 - 130	<0.20	ug/L	NC	30		
7506997	Chloroform	2021/08/09	93	70 - 130	90	70 - 130	<0.10	ug/L	NC	30		
7506997	Chloromethane	2021/08/09	80	60 - 140	74	60 - 140	<0.50	ug/L	NC	30		
7506997	cis-1,2-Dichloroethylene	2021/08/09	98	70 - 130	94	70 - 130	<0.10	ug/L				
7506997	cis-1,3-Dichloropropene	2021/08/09	114	70 - 130	110	70 - 130	<0.20	ug/L	NC	30		
7506997	Dibromochloromethane	2021/08/09	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7506997	Ethylbenzene	2021/08/09	93	70 - 130	88	70 - 130	<0.10	ug/L				
7506997	Ethylene Dibromide	2021/08/09	88	70 - 130	86	70 - 130	<0.20	ug/L				
7506997	Methyl Ethyl Ketone (2-Butanone)	2021/08/09	92	60 - 140	89	60 - 140	<5.0	ug/L				
7506997	Methyl Isobutyl Ketone	2021/08/09	97	70 - 130	94	70 - 130	<5.0	ug/L				
7506997	Methyl t-butyl ether (MTBE)	2021/08/09	95	70 - 130	92	70 - 130	<0.20	ug/L				
7506997	Methylene Chloride(Dichloromethane)	2021/08/09	94	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
7506997	o-Xylene	2021/08/09	93	70 - 130	89	70 - 130	<0.10	ug/L				
7506997	p+m-Xylene	2021/08/09	98	70 - 130	93	70 - 130	<0.10	ug/L				
7506997	Styrene	2021/08/09	105	70 - 130	101	70 - 130	<0.20	ug/L				
7506997	Tetrachloroethylene	2021/08/09	99	70 - 130	90	70 - 130	<0.10	ug/L	NC	30		
7506997	Toluene	2021/08/09	95	70 - 130	89	70 - 130	<0.20	ug/L				
7506997	Total Xylenes	2021/08/09					<0.10	ug/L				
7506997	trans-1,2-Dichloroethylene	2021/08/09	104	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7506997	trans-1,3-Dichloropropene	2021/08/09	112	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
7506997	Trichloroethylene	2021/08/09	109	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7506997	Trichlorofluoromethane (FREON 11)	2021/08/09	102	70 - 130	160 (2)	70 - 130	<0.20	ug/L	NC	30		
7506997	Vinyl Chloride	2021/08/09	84	70 - 130	72	70 - 130	<0.20	ug/L	NC	30		
7507007	Acrolein	2021/08/09			93	60 - 140	<10	ug/L	NC	30		
7507007	Acrylonitrile	2021/08/09			107	60 - 140	<5.0	ug/L				
7507007	Methyl Butyl Ketone (2-Hexanone)	2021/08/09	104	60 - 140	86	60 - 140	<5.0	ug/L				
7507517	Total BOD	2021/08/13					<2	mg/L	NC	30	101	80 - 120
7508011	Mercury (Hg)	2021/08/09	94	75 - 125	96	80 - 120	<0.00010	mg/L	NC	20		
7508742	Phenols-4AAP	2021/08/09	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
7508755	Phenols-4AAP	2021/08/10	103	80 - 120	100	80 - 120	<0.0010	mg/L	0.97	20		
7509280	Nitrate (N)	2021/08/11	115	80 - 120	108	80 - 120	<0.10	mg/L	7.4	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7509280	Nitrite (N)	2021/08/11	94	80 - 120	110	80 - 120	<0.010	mg/L	NC	20		
7509303	Total Ammonia-N	2021/08/11	NC	75 - 125	99	80 - 120	<0.050	mg/L	0.79	20		
7509314	Alkalinity (Total as CaCO3)	2021/08/10			96	85 - 115	<1.0	mg/L	0.89	20		
7509323	Conductivity	2021/08/10			99	85 - 115	<1.0	umho/cm	0.85	25		
7509324	pH	2021/08/10			102	98 - 103			0.18	N/A		
7509562	Dissolved Organic Carbon	2021/08/10	100	80 - 120	98	80 - 120	<0.40	mg/L	0.45	20		
7509796	Alkalinity (Total as CaCO3)	2021/08/11			96	85 - 115	<1.0	mg/L	1.1	20		
7509830	pH	2021/08/11			102	98 - 103			0.45	N/A		
7509866	Dissolved Chloride (Cl-)	2021/08/10	NC	80 - 120	106	80 - 120	<1.0	mg/L	4.2	20		
7509872	Dissolved Chloride (Cl-)	2021/08/10	NC	80 - 120	102	80 - 120	<1.0	mg/L	2.9	20		
7509876	Dissolved Sulphate (SO4)	2021/08/12	92	75 - 125	103	80 - 120	<1.0	mg/L	1.5	20		
7510116	Total Aluminum (Al)	2021/08/10	98	80 - 120	99	80 - 120	<0.0049	mg/L	5.8	20		
7510116	Total Arsenic (As)	2021/08/10	98	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7510116	Total Beryllium (Be)	2021/08/10	102	80 - 120	96	80 - 120	<0.00040	mg/L	NC	20		
7510116	Total Boron (B)	2021/08/10	94	80 - 120	91	80 - 120	<0.010	mg/L	7.0	20		
7510116	Total Cadmium (Cd)	2021/08/10	99	80 - 120	99	80 - 120	<0.000090	mg/L	NC	20		
7510116	Total Calcium (Ca)	2021/08/10	NC	80 - 120	102	80 - 120	<0.20	mg/L	3.4	20		
7510116	Total Chromium (Cr)	2021/08/10	93	80 - 120	95	80 - 120	<0.0050	mg/L	NC	20		
7510116	Total Cobalt (Co)	2021/08/10	97	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20		
7510116	Total Copper (Cu)	2021/08/10	99	80 - 120	99	80 - 120	<0.00090	mg/L	NC	20		
7510116	Total Iron (Fe)	2021/08/10	94	80 - 120	94	80 - 120	<0.10	mg/L	NC	20		
7510116	Total Lead (Pb)	2021/08/10	98	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
7510116	Total Magnesium (Mg)	2021/08/10	99	80 - 120	102	80 - 120	<0.050	mg/L	2.5	20		
7510116	Total Manganese (Mn)	2021/08/10	95	80 - 120	98	80 - 120	<0.0020	mg/L	3.0	20		
7510116	Total Molybdenum (Mo)	2021/08/10	95	80 - 120	93	80 - 120	<0.00050	mg/L	4.0	20		
7510116	Total Nickel (Ni)	2021/08/10	94	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
7510116	Total Selenium (Se)	2021/08/10	100	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
7510116	Total Silver (Ag)	2021/08/10	94	80 - 120	94	80 - 120	<0.000090	mg/L	NC	20		
7510116	Total Sodium (Na)	2021/08/10	NC	80 - 120	99	80 - 120	<0.10	mg/L	6.3	20		
7510116	Total Strontium (Sr)	2021/08/10	95	80 - 120	97	80 - 120	<0.0010	mg/L	3.7	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7510116	Total Vanadium (V)	2021/08/10	93	80 - 120	93	80 - 120	<0.00050	mg/L	NC	20		
7510116	Total Zinc (Zn)	2021/08/10	95	80 - 120	98	80 - 120	<0.0050	mg/L	1.9	20		
7510203	1,2,3,4-Tetrachlorobenzene	2021/08/10	59	30 - 130	40	30 - 130	<0.50	ug/L				
7510203	1,2,3,5-Tetrachlorobenzene	2021/08/10	74	30 - 130	49	30 - 130	<0.50	ug/L				
7510203	1,2,3-Trichlorobenzene	2021/08/10	62	30 - 130	42	30 - 130	<0.50	ug/L				
7510203	1,2,4,5-Tetrachlorobenzene	2021/08/10	60	30 - 130	39	30 - 130	<0.50	ug/L				
7510203	1,2,4-Trichlorobenzene	2021/08/10	67	30 - 130	44	30 - 130	<0.50	ug/L				
7510203	1,4-Dichlorobenzene	2021/08/10	66	30 - 130	38	30 - 130	<0.50	ug/L				
7510203	1-Chloronaphthalene	2021/08/10	71	30 - 130	50	30 - 130	<1.0	ug/L				
7510203	1-Methylnaphthalene	2021/08/10	90	30 - 130	63	30 - 130	<0.20	ug/L				
7510203	2,3,4,5-Tetrachlorophenol	2021/08/10	96	10 - 130	88	10 - 130	<0.40	ug/L				
7510203	2,3,4,6-Tetrachlorophenol	2021/08/10	103	10 - 130	96	10 - 130	<0.50	ug/L				
7510203	2,3,4-Trichlorophenol	2021/08/10	94	10 - 130	78	10 - 130	<0.50	ug/L				
7510203	2,3,5,6-Tetrachlorophenol	2021/08/10	95	10 - 130	99	10 - 130	<0.50	ug/L				
7510203	2,3,5-Trichlorophenol	2021/08/10	95	10 - 130	85	10 - 130	<0.50	ug/L				
7510203	2,4,5-Trichlorophenol	2021/08/10	103	10 - 130	94	10 - 130	<0.50	ug/L				
7510203	2,4,6-Trichlorophenol	2021/08/10	97	10 - 130	80	10 - 130	<0.50	ug/L				
7510203	2,4-Dichlorophenol	2021/08/10	89	10 - 130	68	10 - 130	<0.30	ug/L				
7510203	2,4-Dimethylphenol	2021/08/10	35	10 - 130	50	10 - 130	<0.50	ug/L				
7510203	2,4-Dinitrophenol	2021/08/10	95	10 - 130	93	10 - 130	<2.0	ug/L				
7510203	2,4-Dinitrotoluene	2021/08/10	91	30 - 130	93	30 - 130	<0.50	ug/L				
7510203	2,6-Dichlorophenol	2021/08/10	85	10 - 130	66	10 - 130	<0.50	ug/L				
7510203	2,6-Dinitrotoluene	2021/08/10	82	30 - 130	77	30 - 130	<0.50	ug/L				
7510203	2-Chloronaphthalene	2021/08/10	83	30 - 130	61	30 - 130	<0.50	ug/L				
7510203	2-Chlorophenol	2021/08/10	90	10 - 130	66	10 - 130	<0.30	ug/L				
7510203	2-Methylnaphthalene	2021/08/10	82	30 - 130	58	30 - 130	<0.20	ug/L				
7510203	2-Nitrophenol	2021/08/10	81	10 - 130	68	10 - 130	<0.50	ug/L				
7510203	3,3'-Dichlorobenzidine	2021/08/10	5.7 (3)	30 - 130	81	30 - 130	<0.50	ug/L				
7510203	3,4,5-Trichlorophenol	2021/08/10	97	10 - 130	96	10 - 130	<0.50	ug/L				
7510203	4,6-Dinitro-2-methylphenol	2021/08/10	98	10 - 130	109	10 - 130	<2.0	ug/L				
7510203	4-Bromophenyl phenyl ether	2021/08/10	85	30 - 130	71	30 - 130	<0.30	ug/L				



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7510203	4-Chloro-3-Methylphenol	2021/08/10	94	10 - 130	79	10 - 130	<0.50	ug/L				
7510203	4-Chlorophenyl phenyl ether	2021/08/10	81	30 - 130	68	30 - 130	<0.50	ug/L				
7510203	4-Nitrophenol	2021/08/10	40	10 - 130	37	10 - 130	<1.4	ug/L				
7510203	5-Nitroacenaphthene	2021/08/10	94	30 - 130	92	30 - 130	<1.0	ug/L				
7510203	Acenaphthene	2021/08/10	86	30 - 130	70	30 - 130	<0.20	ug/L				
7510203	Acenaphthylene	2021/08/10	86	30 - 130	68	30 - 130	<0.20	ug/L				
7510203	Anthracene	2021/08/10	83	30 - 130	80	30 - 130	<0.20	ug/L				
7510203	Benzo(a)anthracene	2021/08/10	102	30 - 130	102	30 - 130	<0.20	ug/L				
7510203	Benzo(a)pyrene	2021/08/10	89	30 - 130	88	30 - 130	<0.20	ug/L				
7510203	Benzo(b/j)fluoranthene	2021/08/10	104	30 - 130	102	30 - 130	<0.20	ug/L				
7510203	Benzo(g,h,i)perylene	2021/08/10	99	30 - 130	96	30 - 130	<0.20	ug/L				
7510203	Benzo(k)fluoranthene	2021/08/10	106	30 - 130	102	30 - 130	<0.20	ug/L				
7510203	Benzyl butyl phthalate	2021/08/10	95	30 - 130	90	30 - 130	<0.50	ug/L				
7510203	Biphenyl	2021/08/10	87	30 - 130	63	30 - 130	<0.50	ug/L				
7510203	Bis(2-chloroethoxy)methane	2021/08/10	69	30 - 130	56	30 - 130	<0.50	ug/L				
7510203	Bis(2-chloroethyl)ether	2021/08/10	87	30 - 130	62	30 - 130	<0.50	ug/L				
7510203	Bis(2-chloroisopropyl)ether	2021/08/10	72	30 - 130	54	30 - 130	<0.50	ug/L				
7510203	Bis(2-ethylhexyl)phthalate	2021/08/11	94	30 - 130	91	30 - 130	<2.0	ug/L	NC	40		
7510203	Camphene	2021/08/10	64	30 - 130	39	30 - 130	<1.0	ug/L				
7510203	Chrysene	2021/08/10	103	30 - 130	100	30 - 130	<0.20	ug/L				
7510203	Dibenzo(a,h)anthracene	2021/08/10	102	30 - 130	97	30 - 130	<0.20	ug/L				
7510203	Diethyl phthalate	2021/08/10	87	30 - 130	83	30 - 130	<1.0	ug/L				
7510203	Dimethyl phthalate	2021/08/10	85	30 - 130	79	30 - 130	<1.0	ug/L				
7510203	Di-N-butyl phthalate	2021/08/11	95	30 - 130	96	30 - 130	<2.0	ug/L	NC	40		
7510203	di-n-octyl phthalate	2021/08/10	104	30 - 130	99	30 - 130	<0.80	ug/L				
7510203	Diphenyl Ether	2021/08/10	81	30 - 130	60	30 - 130	<0.30	ug/L				
7510203	Fluoranthene	2021/08/10	104	30 - 130	98	30 - 130	<0.20	ug/L				
7510203	Fluorene	2021/08/10	92	30 - 130	80	30 - 130	<0.20	ug/L				
7510203	Hexachlorobenzene	2021/08/10	82	30 - 130	80	30 - 130	<0.50	ug/L				
7510203	Hexachlorobutadiene	2021/08/10	56	30 - 130	34	30 - 130	<0.40	ug/L				
7510203	Hexachlorocyclopentadiene	2021/08/10	53	30 - 130	33	30 - 130	<2.0	ug/L				



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7510203	Hexachloroethane	2021/08/10	60	30 - 130	37	30 - 130	<0.50	ug/L				
7510203	Indeno(1,2,3-cd)pyrene	2021/08/10	104	30 - 130	99	30 - 130	<0.20	ug/L				
7510203	Indole	2021/08/10	62	30 - 130	61	30 - 130	<1.0	ug/L				
7510203	Isophorone	2021/08/10	91	30 - 130	74	30 - 130	<0.50	ug/L				
7510203	m/p-Cresol	2021/08/10	81	10 - 130	64	10 - 130	<0.50	ug/L				
7510203	Naphthalene	2021/08/10	67	30 - 130	45	30 - 130	<0.20	ug/L				
7510203	Nitrobenzene	2021/08/10	77	30 - 130	64	30 - 130	<0.50	ug/L				
7510203	Nitrosodiphenylamine/Diphenylamine	2021/08/10	103	30 - 130	99	30 - 130	<1.0	ug/L				
7510203	N-Nitroso-di-n-propylamine	2021/08/10	89	30 - 130	69	30 - 130	<0.50	ug/L				
7510203	o-Cresol	2021/08/10	76	10 - 130	61	10 - 130	<0.50	ug/L				
7510203	p-Chloroaniline	2021/08/10	52	30 - 130	74	30 - 130	<1.0	ug/L				
7510203	Pentachlorobenzene	2021/08/10	72	30 - 130	52	30 - 130	<0.50	ug/L				
7510203	Pentachlorophenol	2021/08/10	84	10 - 130	86	10 - 130	<1.0	ug/L				
7510203	Perylene	2021/08/10	99	30 - 130	96	30 - 130	<0.20	ug/L				
7510203	Phenanthrene	2021/08/10	94	30 - 130	89	30 - 130	<0.20	ug/L				
7510203	Phenol	2021/08/10	42	10 - 130	33	10 - 130	<0.50	ug/L				
7510203	Pyrene	2021/08/10	96	30 - 130	95	30 - 130	<0.20	ug/L				
7510370	Mercury (Hg)	2021/08/10	94	75 - 125	96	80 - 120	<0.00010	mg/L	NC	20		
7510570	Total Ammonia-N	2021/08/11	NC	75 - 125	100	80 - 120	<0.050	mg/L	0.24	20		
7510708	Dissolved Organic Carbon	2021/08/10	95	80 - 120	99	80 - 120	<0.40	mg/L	0.42	20		
7510727	Total Kjeldahl Nitrogen (TKN)	2021/08/12	NC	80 - 120	101	80 - 120	<0.10	mg/L	0.44	20	97	80 - 120
7510748	Total Organic Carbon (TOC)	2021/08/10	100	80 - 120	100	80 - 120	<0.40	mg/L	1.2	20		
7510923	Nitrate (N)	2021/08/11	95	80 - 120	98	80 - 120	<0.10	mg/L	1.4	20		
7510923	Nitrite (N)	2021/08/11	108	80 - 120	109	80 - 120	<0.010	mg/L	NC	20		
7510932	Nitrate (N)	2021/08/11	101	80 - 120	103	80 - 120	<0.10	mg/L	2.1	20		
7510932	Nitrite (N)	2021/08/11	107	80 - 120	109	80 - 120	<0.010	mg/L	NC	20		
7511133	Dissolved Chloride (Cl-)	2021/08/11	NC	80 - 120	102	80 - 120	<1.0	mg/L	4.6	20		
7511144	Dissolved Sulphate (SO4)	2021/08/11	NC	75 - 125	106	80 - 120	<1.0	mg/L	0.35	20		
7511168	Nitrate (N)	2021/08/11	95	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		
7511168	Nitrite (N)	2021/08/11	107	80 - 120	108	80 - 120	<0.010	mg/L	2.0	20		
7511199	Alkalinity (Total as CaCO3)	2021/08/12			96	85 - 115	<1.0	mg/L	1.3	20		



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: SW
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
7511205	Conductivity	2021/08/12			100	85 - 115	<1.0	umho/cm	0	25		
7511206	pH	2021/08/12			102	98 - 103			0.58	N/A		
7511211	Alkalinity (Total as CaCO3)	2021/08/12			96	85 - 115	<1.0	mg/L	2.1	20		
7511218	pH	2021/08/12			102	98 - 103			0.49	N/A		
7511379	Dissolved (0.2u) Aluminum (Al)	2021/08/11	95	80 - 120	93	80 - 120	<5	ug/L	NC	20		
7511471	Total Phosphorus	2021/08/12	105	80 - 120	100	80 - 120	<0.004	mg/L	2.1	20	102	80 - 120
7511783	Dissolved Chloride (Cl-)	2021/08/11	106	80 - 120	106	80 - 120	<1.0	mg/L	4.1	20		
7512090	Dissolved Sulphate (SO4)	2021/08/12	NC	75 - 125	103	80 - 120	<1.0	mg/L	3.4	20		
7512104	Dissolved Chloride (Cl-)	2021/08/12	NC	80 - 120	103	80 - 120	<1.0	mg/L	1.3	20		
7512709	Total Aluminum (Al)	2021/08/11	98	80 - 120	95	80 - 120	<0.0049	mg/L	1.6	20		
7512709	Total Arsenic (As)	2021/08/11	105	80 - 120	105	80 - 120	<0.0010	mg/L	1.7	20		
7512709	Total Beryllium (Be)	2021/08/11	99	80 - 120	97	80 - 120	<0.00040	mg/L	NC	20		
7512709	Total Boron (B)	2021/08/11	94	80 - 120	90	80 - 120	<0.010	mg/L	4.7	20		
7512709	Total Cadmium (Cd)	2021/08/11	104	80 - 120	103	80 - 120	<0.000090	mg/L	NC	20		
7512709	Total Calcium (Ca)	2021/08/11	NC	80 - 120	95	80 - 120	<0.20	mg/L	2.2	20		
7512709	Total Chromium (Cr)	2021/08/11	98	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
7512709	Total Cobalt (Co)	2021/08/11	100	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
7512709	Total Copper (Cu)	2021/08/11	102	80 - 120	98	80 - 120	<0.00090	mg/L	3.5	20		
7512709	Total Iron (Fe)	2021/08/11	100	80 - 120	101	80 - 120	<0.10	mg/L				
7512709	Total Lead (Pb)	2021/08/11	100	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
7512709	Total Magnesium (Mg)	2021/08/11	103	80 - 120	103	80 - 120	<0.050	mg/L	1.0	20		
7512709	Total Manganese (Mn)	2021/08/11	97	80 - 120	98	80 - 120	<0.0020	mg/L	0.36	20		
7512709	Total Molybdenum (Mo)	2021/08/11	106	80 - 120	102	80 - 120	<0.00050	mg/L	0.40	20		
7512709	Total Nickel (Ni)	2021/08/11	97	80 - 120	99	80 - 120	<0.0010	mg/L	1.1	20		
7512709	Total Potassium (K)	2021/08/11	104	80 - 120	96	80 - 120	<0.20	mg/L	0.31	20		
7512709	Total Selenium (Se)	2021/08/11	102	80 - 120	102	80 - 120	<0.0020	mg/L	NC	20		
7512709	Total Silver (Ag)	2021/08/11	102	80 - 120	100	80 - 120	<0.000090	mg/L	NC	20		
7512709	Total Sodium (Na)	2021/08/11	NC	80 - 120	101	80 - 120	<0.10	mg/L	0.36	20		
7512709	Total Strontium (Sr)	2021/08/11	102	80 - 120	100	80 - 120	<0.0010	mg/L	1.0	20		
7512709	Total Vanadium (V)	2021/08/11	100	80 - 120	101	80 - 120	<0.00050	mg/L	0.84	20		



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: SW
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
7512709	Total Zinc (Zn)	2021/08/11	101	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20		
7512766	a-Chlordane	2021/08/12	70	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7512766	Aldrin	2021/08/12	65	50 - 130	78	50 - 130	<0.005	ug/L	NC	30		
7512766	alpha-BHC	2021/08/12	86	30 - 130	84	30 - 130	<0.005	ug/L	NC	40		
7512766	beta-BHC	2021/08/12	69	30 - 130	80	30 - 130	<0.005	ug/L	NC	40		
7512766	delta-BHC	2021/08/12	64	30 - 130	82	30 - 130	<0.005	ug/L	NC	40		
7512766	Dieldrin	2021/08/12	78	50 - 130	105	50 - 130	<0.005	ug/L	NC	30		
7512766	Endosulfan I (alpha)	2021/08/12	68	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7512766	Endosulfan II (beta)	2021/08/12	64	50 - 130	87	50 - 130	<0.005	ug/L	NC	30		
7512766	Endosulfan sulfate	2021/08/12	85	30 - 130	110	30 - 130	<0.005	ug/L	NC	40		
7512766	Endrin aldehyde	2021/08/12	63	30 - 130	89	30 - 130	<0.005	ug/L	NC	40		
7512766	Endrin ketone	2021/08/12	75	30 - 130	87	30 - 130	<0.005	ug/L	NC	40		
7512766	Endrin	2021/08/12	73	50 - 130	96	50 - 130	<0.005	ug/L	NC	30		
7512766	g-Chlordane	2021/08/12	76	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		
7512766	Heptachlor epoxide	2021/08/12	66	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7512766	Heptachlor	2021/08/12	75	50 - 130	78	50 - 130	<0.005	ug/L	NC	30		
7512766	Hexachlorobenzene	2021/08/12	66	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		
7512766	Lindane	2021/08/12	70	50 - 130	83	50 - 130	<0.003	ug/L	NC	30		
7512766	Methoxychlor	2021/08/12	82	50 - 130	90	50 - 130	<0.01	ug/L	NC	30		
7512766	Mirex	2021/08/12	72	30 - 130	88	30 - 130	<0.005	ug/L	NC	40		
7512766	o,p-DDD	2021/08/12	77	50 - 130	93	50 - 130	<0.005	ug/L	NC	30		
7512766	o,p-DDE	2021/08/12	65	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7512766	o,p-DDT	2021/08/12	79	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		
7512766	Octachlorostyrene	2021/08/12	72	30 - 130	91	30 - 130	<0.005	ug/L	NC	40		
7512766	p,p-DDD	2021/08/12	76	50 - 130	87	50 - 130	<0.005	ug/L	NC	30		
7512766	p,p-DDE	2021/08/12	78	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		
7512766	p,p-DDT	2021/08/12	83	50 - 130	85	50 - 130	<0.005	ug/L	NC	30		
7512766	Toxaphene	2021/08/12					<0.2	ug/L	NC	40		
7512785	Dissolved Chloride (Cl-)	2021/08/11	NC	80 - 120	104	80 - 120	<1.0	mg/L	0.56	20		
7512808	Dissolved Sulphate (SO4)	2021/08/11	NC	75 - 125	103	80 - 120	<1.0	mg/L	2.1	20		
7512902	Alkalinity (Total as CaCO3)	2021/08/11			96	85 - 115	<1.0	mg/L	0.56	20		



BUREAU
VERITAS

BV Labs Job #: C1M2489
Report Date: 2021/08/13

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: SW
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
7512948	pH	2021/08/11			102	98 - 103			0.52	N/A		
7512960	Nitrate (N)	2021/08/11	97	80 - 120	98	80 - 120	<0.10	mg/L	15	20		
7512960	Nitrite (N)	2021/08/11	109	80 - 120	108	80 - 120	<0.010	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.

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) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.

(3) 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 #: C1M2489
Report Date: 2021/08/13

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:

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 #:		
Attention: Accounting	Attention: 65 Green Mountain Rd West	Address: Stoney Creek ON L8J 1X5	P O #:	815513			
Address: Stoney Creek ON L8J 1X5	Address: Stoney Creek ON L8J 1X5	Address: Stoney Creek ON L8J 1X5	Project: SW	COC #:	Project Manager:		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: (905) 561-0305 Fax: (905) 561-1674	Project Name: SW	C#815513-01-01		Jolanta Goralczyk	
Email: kbailey@terrapureenv.com	Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:	C#815513-01-01			
				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 / Cr VI			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 #)		
Table 1	Table 2	Table 3	CCME	Reg 558	MISA	PWQO	Other	Sanitary Sewer Bylaw	Storm Sewer Bylaw	Municipality	Reg 406 Table	Other	TOC	TKN	K	# of Bottles	Comments
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RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson	Date: (YY/MM/DD) 21/8/16	Time 9:40	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.

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. #: 808571-24-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/18
Report #: R6771100
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M3984

Received: 2021/08/09, 15:51

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	4	N/A	2021/08/13	CAM SOP-00448	SM 23 2320 B m
Anions	4	N/A	2021/08/11	CAM SOP-00435	SM 23 4110 B m
Conductivity	4	N/A	2021/08/13	CAM SOP-00414	SM 23 2510 m
Fluoride	4	2021/08/11	2021/08/13	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	4	N/A	2021/08/18	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	2	N/A	2021/08/16	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/08/18	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	4	N/A	2021/08/13	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	4	N/A	2021/08/12	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	4	2021/08/11	2021/08/13	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	4	N/A	2021/08/10	CAM SOP-00444	OMOE E3179 m
Orthophosphate	4	N/A	2021/08/13	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	4	2021/08/11	2021/08/12	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	4	2021/08/10	2021/08/11	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	4	N/A	2021/08/10	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
18 Aug 2021 17:27:30

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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Total Cover Pages : 1
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BUREAU
VERITAS

BV Labs Job #: C1M3984
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		QID549		QID550			QID550		
Sampling Date		2021/08/06		2021/08/06			2021/08/06		
COC Number		808571-24-01		808571-24-01			808571-24-01		
	UNITS	57-II	RDL	P14	RDL	QC Batch	P14 Lab-Dup	RDL	QC Batch

Calculated Parameters

Hardness (CaCO3)	mg/L	600	1.0	130	1.0	7508163			
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Inorganics

Total Ammonia-N	mg/L	6.6	0.050	100 (1)	0.50	7510734	100 (1)	0.50	7510734
Conductivity	umho/cm	3100	1.0	8100	1.0	7513963			
Total Dissolved Solids	mg/L	740	10	3840	20	7504829			
Fluoride (F-)	mg/L	0.72	0.10	3.0	0.10	7513928			
Total Kjeldahl Nitrogen (TKN)	mg/L	7.2	0.20	95 (1)	5.0	7510700			
Total Organic Carbon (TOC)	mg/L	4.6	0.40	31	0.40	7510748			
Orthophosphate (P)	mg/L	<0.010	0.010	0.014	0.010	7513759			
pH	pH	12.0		9.33		7513961			
Phenols-4AAP	mg/L	0.0062	0.0010	0.65	0.010	7510289			
Alkalinity (Total as CaCO3)	mg/L	690	1.0	240	1.0	7513959			
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	7513736			
Dissolved Chloride (Cl-)	mg/L	39	5.0	2100	20	7513750			
Nitrate (N)	mg/L	<0.10	0.10	<0.10	0.10	7513736			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	0.10	7513736			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	<10	10	7513750			
Dissolved Sulphate (SO4)	mg/L	35	5.0	180	10	7513750			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: C1M3984
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		QID551			QID551			QID552		
Sampling Date		2021/08/06			2021/08/06			2021/08/06		
COC Number		808571-24-01			808571-24-01			808571-24-01		
	UNITS	51-IV	RDL	QC Batch	51-IV Lab-Dup	RDL	QC Batch	51-V	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2000	1.0	7508163				590	1.0	7508163
Inorganics										
Total Ammonia-N	mg/L	5.0	0.050	7510734				0.16	0.050	7510734
Conductivity	umho/cm	5000	1.0	7513963				2000	1.0	7513963
Total Dissolved Solids	mg/L	3810	10	7504829				1180	10	7504829
Fluoride (F-)	mg/L	1.3	0.10	7513928				1.3	0.10	7513928
Total Kjeldahl Nitrogen (TKN)	mg/L	5.4	0.20	7510700				0.29	0.10	7510700
Total Organic Carbon (TOC)	mg/L	2.0	0.40	7510748				3.6	0.40	7510748
Orthophosphate (P)	mg/L	<0.010	0.010	7513759				<0.010	0.010	7513759
pH	pH	7.42		7513961				7.77		7513961
Phenols-4AAP	mg/L	<0.0010	0.0010	7510289				<0.0010	0.0010	7510289
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7513959				220	1.0	7513959
Nitrite (N)	mg/L	<0.010	0.010	7513736				<0.010	0.010	7513736
Dissolved Chloride (Cl-)	mg/L	640	5.0	7513750	630	5.0	7513750	260	5.0	7513750
Nitrate (N)	mg/L	<0.10	0.10	7513736				<0.10	0.10	7513736
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7513736				<0.10	0.10	7513736
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7513750	<5.0	5.0	7513750	<5.0	5.0	7513750
Dissolved Sulphate (SO4)	mg/L	1600	5.0	7513750	1600	5.0	7513750	410	5.0	7513750
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1M3984
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QID549		QID550		QID551		QID552		
Sampling Date		2021/08/06		2021/08/06		2021/08/06		2021/08/06		
COC Number		808571-24-01		808571-24-01		808571-24-01		808571-24-01		
	UNITS	57-II	RDL	P14	RDL	51-IV	RDL	51-V	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	260	4.9	<4.9	4.9	<4.9	4.9	6.0	4.9	7512127
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7512127
Dissolved Arsenic (As)	ug/L	<1.0	1.0	1.8	1.0	<1.0	1.0	<1.0	1.0	7512127
Dissolved Barium (Ba)	ug/L	120	2.0	14	2.0	9.6	2.0	25	2.0	7512127
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7512127
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7512127
Dissolved Boron (B)	ug/L	45	10	330	10	1400	10	100	10	7512127
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	0.16	0.090	7512127
Dissolved Calcium (Ca)	ug/L	240000	200	40000	200	630000	2000	150000	200	7512127
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7512127
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	0.76	0.50	7512127
Dissolved Copper (Cu)	ug/L	12	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7512127
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	100	150	100	7512127
Dissolved Lead (Pb)	ug/L	9.3	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7512127
Dissolved Lithium (Li)	ug/L	11	5.0	18	5.0	310	5.0	18	5.0	7512127
Dissolved Magnesium (Mg)	ug/L	51	50	8700	50	120000	50	53000	50	7512127
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	<2.0	2.0	45	2.0	58	2.0	7512127
Dissolved Molybdenum (Mo)	ug/L	26	0.50	25	0.50	<0.50	0.50	5.1	0.50	7512127
Dissolved Nickel (Ni)	ug/L	2.4	1.0	13	1.0	<1.0	1.0	3.8	1.0	7512127
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	<100	100	7512127
Dissolved Potassium (K)	ug/L	20000	200	86000	200	29000	200	3700	200	7512127
Dissolved Selenium (Se)	ug/L	<2.0	2.0	3.5	2.0	<2.0	2.0	<2.0	2.0	7512127
Dissolved Silicon (Si)	ug/L	1100	50	4300	50	5100	50	3700	50	7512127
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7512127
Dissolved Sodium (Na)	ug/L	59000	100	1300000	500	390000	100	140000	100	7512127
Dissolved Strontium (Sr)	ug/L	360	1.0	1000	1.0	6900	1.0	2000	1.0	7512127
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7512127
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7512127
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7512127
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7512127
Dissolved Tungsten (W)	ug/L	1.5	1.0	15	1.0	<1.0	1.0	<1.0	1.0	7512127
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.10	0.10	0.17	0.10	4.8	0.10	7512127
Dissolved Vanadium (V)	ug/L	5.9	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7512127
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	60	5.0	7512127
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7512127
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1M3984
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: QID549
Sample ID: 57-II
Matrix: Water

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7513959	N/A	2021/08/13	Yogesh Patel
Anions	IC	7513750	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7513963	N/A	2021/08/13	Yogesh Patel
Fluoride	ISE	7513928	2021/08/11	2021/08/13	Yogesh Patel
Hardness (calculated as CaCO3)		7508163	N/A	2021/08/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512127	N/A	2021/08/16	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7510734	N/A	2021/08/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7513736	N/A	2021/08/12	Chandra Nandlal
pH	AT	7513961	2021/08/11	2021/08/13	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7510289	N/A	2021/08/10	Deonarine Ramnarine
Orthophosphate	KONE	7513759	N/A	2021/08/13	Avneet Kour Sudan
Total Dissolved Solids	BAL	7504829	2021/08/11	2021/08/12	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7510700	2021/08/10	2021/08/11	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7510748	N/A	2021/08/10	Julianna Castiglione

BV Labs ID: QID550
Sample ID: P14
Matrix: Water

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7513959	N/A	2021/08/13	Yogesh Patel
Anions	IC	7513750	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7513963	N/A	2021/08/13	Yogesh Patel
Fluoride	ISE	7513928	2021/08/11	2021/08/13	Yogesh Patel
Hardness (calculated as CaCO3)		7508163	N/A	2021/08/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512127	N/A	2021/08/18	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7510734	N/A	2021/08/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7513736	N/A	2021/08/12	Chandra Nandlal
pH	AT	7513961	2021/08/11	2021/08/13	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7510289	N/A	2021/08/10	Deonarine Ramnarine
Orthophosphate	KONE	7513759	N/A	2021/08/13	Avneet Kour Sudan
Total Dissolved Solids	BAL	7504829	2021/08/11	2021/08/12	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7510700	2021/08/10	2021/08/11	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7510748	N/A	2021/08/10	Julianna Castiglione

BV Labs ID: QID550 Dup
Sample ID: P14
Matrix: Water

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7510734	N/A	2021/08/13	Amanpreet Sappal



BUREAU
VERITAS

BV Labs Job #: C1M3984
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: QID551
Sample ID: 51-IV
Matrix: Water

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7513959	N/A	2021/08/13	Yogesh Patel
Anions	IC	7513750	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7513963	N/A	2021/08/13	Yogesh Patel
Fluoride	ISE	7513928	2021/08/11	2021/08/13	Yogesh Patel
Hardness (calculated as CaCO3)		7508163	N/A	2021/08/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512127	N/A	2021/08/18	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7510734	N/A	2021/08/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7513736	N/A	2021/08/12	Chandra Nandlal
pH	AT	7513961	2021/08/11	2021/08/13	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7510289	N/A	2021/08/10	Deonarine Ramnarine
Orthophosphate	KONE	7513759	N/A	2021/08/13	Avneet Kour Sudan
Total Dissolved Solids	BAL	7504829	2021/08/11	2021/08/12	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7510700	2021/08/10	2021/08/11	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7510748	N/A	2021/08/10	Julianna Castiglione

BV Labs ID: QID551 Dup
Sample ID: 51-IV
Matrix: Water

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7513750	N/A	2021/08/11	Fari Dehdezi

BV Labs ID: QID552
Sample ID: 51-V
Matrix: Water

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7513959	N/A	2021/08/13	Yogesh Patel
Anions	IC	7513750	N/A	2021/08/11	Fari Dehdezi
Conductivity	AT	7513963	N/A	2021/08/13	Yogesh Patel
Fluoride	ISE	7513928	2021/08/11	2021/08/13	Yogesh Patel
Hardness (calculated as CaCO3)		7508163	N/A	2021/08/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512127	N/A	2021/08/16	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7510734	N/A	2021/08/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7513736	N/A	2021/08/12	Chandra Nandlal
pH	AT	7513961	2021/08/11	2021/08/13	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7510289	N/A	2021/08/10	Deonarine Ramnarine
Orthophosphate	KONE	7513759	N/A	2021/08/13	Avneet Kour Sudan
Total Dissolved Solids	BAL	7504829	2021/08/11	2021/08/12	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7510700	2021/08/10	2021/08/11	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7510748	N/A	2021/08/10	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	5.3°C
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Sample QID550 [P14] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1M3984
Report Date: 2021/08/18

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: GW

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
7504829	Total Dissolved Solids	2021/08/12					<10	mg/L	NC	25	100	90 - 110
7510289	Phenols-4AAP	2021/08/10	102	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7510700	Total Kjeldahl Nitrogen (TKN)	2021/08/11	101	80 - 120	101	80 - 120	<0.10	mg/L	NC	20	104	80 - 120
7510734	Total Ammonia-N	2021/08/13	NC	75 - 125	100	80 - 120	<0.050	mg/L	0.74 (1)	20		
7510748	Total Organic Carbon (TOC)	2021/08/10	100	80 - 120	100	80 - 120	<0.40	mg/L	1.2	20		
7512127	Dissolved Aluminum (Al)	2021/08/16	99	80 - 120	99	80 - 120	<4.9	ug/L				
7512127	Dissolved Antimony (Sb)	2021/08/16	104	80 - 120	103	80 - 120	<0.50	ug/L	13	20		
7512127	Dissolved Arsenic (As)	2021/08/16	100	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7512127	Dissolved Barium (Ba)	2021/08/16	98	80 - 120	97	80 - 120	<2.0	ug/L	1.3	20		
7512127	Dissolved Beryllium (Be)	2021/08/16	99	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7512127	Dissolved Bismuth (Bi)	2021/08/16	99	80 - 120	100	80 - 120	<1.0	ug/L				
7512127	Dissolved Boron (B)	2021/08/16	97	80 - 120	98	80 - 120	<10	ug/L	1.0	20		
7512127	Dissolved Cadmium (Cd)	2021/08/16	101	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7512127	Dissolved Calcium (Ca)	2021/08/16	NC	80 - 120	97	80 - 120	<200	ug/L				
7512127	Dissolved Chromium (Cr)	2021/08/16	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7512127	Dissolved Cobalt (Co)	2021/08/16	97	80 - 120	97	80 - 120	<0.50	ug/L	11	20		
7512127	Dissolved Copper (Cu)	2021/08/16	98	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
7512127	Dissolved Iron (Fe)	2021/08/16	95	80 - 120	96	80 - 120	<100	ug/L				
7512127	Dissolved Lead (Pb)	2021/08/16	96	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7512127	Dissolved Lithium (Li)	2021/08/16	101	80 - 120	102	80 - 120	<5.0	ug/L				
7512127	Dissolved Magnesium (Mg)	2021/08/16	NC	80 - 120	96	80 - 120	<50	ug/L				
7512127	Dissolved Manganese (Mn)	2021/08/16	97	80 - 120	97	80 - 120	<2.0	ug/L				
7512127	Dissolved Molybdenum (Mo)	2021/08/16	104	80 - 120	101	80 - 120	<0.50	ug/L	2.4	20		
7512127	Dissolved Nickel (Ni)	2021/08/16	96	80 - 120	96	80 - 120	<1.0	ug/L	0.30	20		
7512127	Dissolved Phosphorus (P)	2021/08/16	102	80 - 120	103	80 - 120	<100	ug/L				
7512127	Dissolved Potassium (K)	2021/08/16	98	80 - 120	95	80 - 120	<200	ug/L				
7512127	Dissolved Selenium (Se)	2021/08/16	103	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
7512127	Dissolved Silicon (Si)	2021/08/16	98	80 - 120	97	80 - 120	<50	ug/L				
7512127	Dissolved Silver (Ag)	2021/08/16	85	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7512127	Dissolved Sodium (Na)	2021/08/16	94	80 - 120	96	80 - 120	<100	ug/L	2.2	20		
7512127	Dissolved Strontium (Sr)	2021/08/16	NC	80 - 120	97	80 - 120	<1.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C1M3984
Report Date: 2021/08/18

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW

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
7512127	Dissolved Tellurium (Te)	2021/08/16	100	80 - 120	100	80 - 120	<1.0	ug/L				
7512127	Dissolved Thallium (Tl)	2021/08/16	95	80 - 120	95	80 - 120	<0.050	ug/L	NC	20		
7512127	Dissolved Tin (Sn)	2021/08/16	103	80 - 120	102	80 - 120	<1.0	ug/L				
7512127	Dissolved Titanium (Ti)	2021/08/16	97	80 - 120	96	80 - 120	<5.0	ug/L				
7512127	Dissolved Tungsten (W)	2021/08/16	99	80 - 120	99	80 - 120	<1.0	ug/L				
7512127	Dissolved Uranium (U)	2021/08/16	105	80 - 120	104	80 - 120	<0.10	ug/L	0.57	20		
7512127	Dissolved Vanadium (V)	2021/08/16	99	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7512127	Dissolved Zinc (Zn)	2021/08/16	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7512127	Dissolved Zirconium (Zr)	2021/08/16	105	80 - 120	102	80 - 120	<1.0	ug/L				
7513736	Nitrate (N)	2021/08/12	101	80 - 120	106	80 - 120	<0.10	mg/L	NC	20		
7513736	Nitrite (N)	2021/08/12	106	80 - 120	109	80 - 120	<0.010	mg/L	NC	20		
7513750	Dissolved Bromide (Br-)	2021/08/11	105	80 - 120	105	80 - 120	<1.0	mg/L	NC	20		
7513750	Dissolved Chloride (Cl-)	2021/08/11	NC	80 - 120	102	70 - 130	<1.0	mg/L	0.31	20		
7513750	Dissolved Sulphate (SO4)	2021/08/11	NC	80 - 120	102	80 - 120	<1.0	mg/L	1.5	20		
7513759	Orthophosphate (P)	2021/08/13	110	75 - 125	100	80 - 120	<0.010	mg/L	4.7	25		
7513928	Fluoride (F-)	2021/08/13	107	80 - 120	103	80 - 120	<0.10	mg/L	5.2	20		
7513959	Alkalinity (Total as CaCO3)	2021/08/13			97	85 - 115	<1.0	mg/L	2.3	20		
7513961	pH	2021/08/13			102	98 - 103			0.33	N/A		
7513963	Conductivity	2021/08/13			101	85 - 115	<1.0	umho/cm	0.99	25		

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) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.




BUREAU
VERITAS

BV Labs Job #: C1M3984
Report Date: 2021/08/18

Terrapure Environmental
Client Project #: GW

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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Your Project #: GW
Your C.O.C. #: 808571-27-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/19
Report #: R6772731
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M8798
Received: 2021/08/12, 16:55

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/08/17	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/08/17	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/08/17	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/08/17	2021/08/17	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/08/19	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/08/18	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/08/17	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/16	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/08/17	2021/08/17	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/08/16	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/08/16	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	1	2021/08/14	2021/08/16	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/08/13	2021/08/16	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/08/14	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
19 Aug 2021 15:49:35

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 #: C1M8798
Report Date: 2021/08/19

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		QJE132			QJE132		
Sampling Date		2021/08/11			2021/08/11		
COC Number		808571-27-01			808571-27-01		
	UNITS	52-III	RDL	QC Batch	52-III Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO ₃)	mg/L	500	1.0	7515421			
Inorganics							
Total Ammonia-N	mg/L	0.058	0.050	7518679			
Conductivity	umho/cm	1000	1.0	7524208	1000	1.0	7524208
Total Dissolved Solids	mg/L	700	10	7520798			
Fluoride (F ⁻)	mg/L	0.40	0.10	7524204	0.39	0.10	7524204
Total Kjeldahl Nitrogen (TKN)	mg/L	0.45	0.10	7518647			
Total Organic Carbon (TOC)	mg/L	3.2	0.40	7518665			
Orthophosphate (P)	mg/L	<0.010	0.010	7520872			
pH	pH	7.89		7524214	7.92		7524214
Phenols-4AAP	mg/L	0.0011	0.0010	7521335			
Alkalinity (Total as CaCO ₃)	mg/L	250	1.0	7524202	250	1.0	7524202
Nitrite (N)	mg/L	<0.010	0.010	7520842			
Dissolved Chloride (Cl ⁻)	mg/L	11	1.0	7520933			
Nitrate (N)	mg/L	0.81	0.10	7520842			
Nitrate + Nitrite (N)	mg/L	0.81	0.10	7520842			
Dissolved Bromide (Br ⁻)	mg/L	<1.0	1.0	7520933			
Dissolved Sulphate (SO ₄)	mg/L	280	1.0	7520933			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: C1M8798
Report Date: 2021/08/19

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QJE132		
Sampling Date		2021/08/11		
COC Number		808571-27-01		
	UNITS	52-III	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	6.5	4.9	7521618
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7521618
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7521618
Dissolved Barium (Ba)	ug/L	48	2.0	7521618
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7521618
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7521618
Dissolved Boron (B)	ug/L	45	10	7521618
Dissolved Cadmium (Cd)	ug/L	0.98	0.090	7521618
Dissolved Calcium (Ca)	ug/L	140000	200	7521618
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7521618
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7521618
Dissolved Copper (Cu)	ug/L	2.5	0.90	7521618
Dissolved Iron (Fe)	ug/L	<100	100	7521618
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7521618
Dissolved Lithium (Li)	ug/L	<5.0	5.0	7521618
Dissolved Magnesium (Mg)	ug/L	38000	50	7521618
Dissolved Manganese (Mn)	ug/L	9.6	2.0	7521618
Dissolved Molybdenum (Mo)	ug/L	1.8	0.50	7521618
Dissolved Nickel (Ni)	ug/L	9.8	1.0	7521618
Dissolved Phosphorus (P)	ug/L	<100	100	7521618
Dissolved Potassium (K)	ug/L	1700	200	7521618
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7521618
Dissolved Silicon (Si)	ug/L	3000	50	7521618
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7521618
Dissolved Sodium (Na)	ug/L	24000	100	7521618
Dissolved Strontium (Sr)	ug/L	700	1.0	7521618
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7521618
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7521618
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7521618
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7521618
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7521618
Dissolved Uranium (U)	ug/L	3.7	0.10	7521618
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7521618
Dissolved Zinc (Zn)	ug/L	470	5.0	7521618
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7521618
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1M8798
Report Date: 2021/08/19

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: QJE132
Sample ID: 52-III
Matrix: Water

Collected: 2021/08/11
Shipped:
Received: 2021/08/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7524202	N/A	2021/08/17	Surinder Rai
Anions	IC	7520933	N/A	2021/08/17	Fari Dehdezi
Conductivity	AT	7524208	N/A	2021/08/17	Surinder Rai
Fluoride	ISE	7524204	2021/08/17	2021/08/17	Surinder Rai
Hardness (calculated as CaCO3)		7515421	N/A	2021/08/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7521618	N/A	2021/08/18	Daniel Teclu
Total Ammonia-N	LACH/NH4	7518679	N/A	2021/08/17	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7520842	N/A	2021/08/16	Chandra Nandlal
pH	AT	7524214	2021/08/17	2021/08/17	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7521335	N/A	2021/08/16	Deonarine Ramnarine
Orthophosphate	KONE	7520872	N/A	2021/08/16	Avneet Kour Sudan
Total Dissolved Solids	BAL	7520798	2021/08/14	2021/08/16	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7518647	2021/08/13	2021/08/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7518665	N/A	2021/08/14	Julianna Castiglione

BV Labs ID: QJE132 Dup
Sample ID: 52-III
Matrix: Water

Collected: 2021/08/11
Shipped:
Received: 2021/08/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7524202	N/A	2021/08/17	Surinder Rai
Conductivity	AT	7524208	N/A	2021/08/17	Surinder Rai
Fluoride	ISE	7524204	2021/08/17	2021/08/17	Surinder Rai
pH	AT	7524214	2021/08/17	2021/08/17	Surinder Rai



GENERAL COMMENTS

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

Package 1	3.7°C
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Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1M8798
Report Date: 2021/08/19

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: GW

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
7518647	Total Kjeldahl Nitrogen (TKN)	2021/08/16	91	80 - 120	102	80 - 120	<0.10	mg/L	13	20	97	80 - 120
7518665	Total Organic Carbon (TOC)	2021/08/14	98	80 - 120	97	80 - 120	<0.40	mg/L	0	20		
7518679	Total Ammonia-N	2021/08/17	97	75 - 125	99	80 - 120	<0.050	mg/L	6.2	20		
7520798	Total Dissolved Solids	2021/08/16					<10	mg/L	5.1	25	102	90 - 110
7520842	Nitrate (N)	2021/08/16	100	80 - 120	104	80 - 120	<0.10	mg/L	NC	20		
7520842	Nitrite (N)	2021/08/16	105	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7520872	Orthophosphate (P)	2021/08/16	100	75 - 125	99	80 - 120	<0.010	mg/L	4.4	25		
7520933	Dissolved Bromide (Br-)	2021/08/17	105	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7520933	Dissolved Chloride (Cl-)	2021/08/17	NC	80 - 120	99	70 - 130	<1.0	mg/L	0.37	20		
7520933	Dissolved Sulphate (SO4)	2021/08/17	NC	80 - 120	95	80 - 120	<1.0	mg/L	2.1	20		
7521335	Phenols-4AAP	2021/08/16	99	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7521618	Dissolved Aluminum (Al)	2021/08/18	99	80 - 120	98	80 - 120	<4.9	ug/L				
7521618	Dissolved Antimony (Sb)	2021/08/18	106	80 - 120	105	80 - 120	<0.50	ug/L	NC	20		
7521618	Dissolved Arsenic (As)	2021/08/18	101	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7521618	Dissolved Barium (Ba)	2021/08/18	102	80 - 120	101	80 - 120	<2.0	ug/L	4.6	20		
7521618	Dissolved Beryllium (Be)	2021/08/18	103	80 - 120	103	80 - 120	<0.40	ug/L	NC	20		
7521618	Dissolved Bismuth (Bi)	2021/08/18	100	80 - 120	98	80 - 120	<1.0	ug/L				
7521618	Dissolved Boron (B)	2021/08/18	101	80 - 120	103	80 - 120	<10	ug/L	NC	20		
7521618	Dissolved Cadmium (Cd)	2021/08/18	103	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7521618	Dissolved Calcium (Ca)	2021/08/18	99	80 - 120	98	80 - 120	<200	ug/L				
7521618	Dissolved Chromium (Cr)	2021/08/18	96	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7521618	Dissolved Cobalt (Co)	2021/08/18	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7521618	Dissolved Copper (Cu)	2021/08/18	101	80 - 120	103	80 - 120	<0.90	ug/L	NC	20		
7521618	Dissolved Iron (Fe)	2021/08/18	97	80 - 120	97	80 - 120	<100	ug/L				
7521618	Dissolved Lead (Pb)	2021/08/18	102	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7521618	Dissolved Lithium (Li)	2021/08/18	106	80 - 120	105	80 - 120	<5.0	ug/L				
7521618	Dissolved Magnesium (Mg)	2021/08/18	98	80 - 120	99	80 - 120	<50	ug/L				
7521618	Dissolved Manganese (Mn)	2021/08/18	100	80 - 120	99	80 - 120	<2.0	ug/L				
7521618	Dissolved Molybdenum (Mo)	2021/08/18	101	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7521618	Dissolved Nickel (Ni)	2021/08/18	96	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7521618	Dissolved Phosphorus (P)	2021/08/18	109	80 - 120	107	80 - 120	<100	ug/L				



BUREAU
VERITAS

BV Labs Job #: C1M8798
Report Date: 2021/08/19

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW

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
7521618	Dissolved Potassium (K)	2021/08/18	102	80 - 120	102	80 - 120	<200	ug/L				
7521618	Dissolved Selenium (Se)	2021/08/18	103	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
7521618	Dissolved Silicon (Si)	2021/08/18	101	80 - 120	99	80 - 120	<50	ug/L				
7521618	Dissolved Silver (Ag)	2021/08/18	100	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7521618	Dissolved Sodium (Na)	2021/08/18	97	80 - 120	95	80 - 120	<100	ug/L	1.5	20		
7521618	Dissolved Strontium (Sr)	2021/08/18	101	80 - 120	101	80 - 120	<1.0	ug/L				
7521618	Dissolved Tellurium (Te)	2021/08/18	105	80 - 120	107	80 - 120	<1.0	ug/L				
7521618	Dissolved Thallium (Tl)	2021/08/18	106	80 - 120	101	80 - 120	<0.050	ug/L	NC	20		
7521618	Dissolved Tin (Sn)	2021/08/18	106	80 - 120	105	80 - 120	<1.0	ug/L				
7521618	Dissolved Titanium (Ti)	2021/08/18	99	80 - 120	97	80 - 120	<5.0	ug/L				
7521618	Dissolved Tungsten (W)	2021/08/18	101	80 - 120	99	80 - 120	<1.0	ug/L				
7521618	Dissolved Uranium (U)	2021/08/18	100	80 - 120	99	80 - 120	<0.10	ug/L	NC	20		
7521618	Dissolved Vanadium (V)	2021/08/18	98	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7521618	Dissolved Zinc (Zn)	2021/08/18	98	80 - 120	97	80 - 120	<5.0	ug/L	2.6	20		
7521618	Dissolved Zirconium (Zr)	2021/08/18	106	80 - 120	106	80 - 120	<1.0	ug/L				
7524202	Alkalinity (Total as CaCO3)	2021/08/17			98	85 - 115	<1.0	mg/L	0.15	20		
7524204	Fluoride (F-)	2021/08/17	99	80 - 120	103	80 - 120	<0.10	mg/L	2.8	20		
7524208	Conductivity	2021/08/17			102	85 - 115	<1.0	umho/cm	0.90	25		
7524214	pH	2021/08/17			102	98 - 103			0.44	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 #: C1M8798
Report Date: 2021/08/19

Terrapure Environmental
Client Project #: GW

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 Laboratoriis
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:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name:		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		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:		C#808571-27-01	

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:				
Regulation 153 (2011)		Other Regulations		Special Instructions												Please provide advance notice for rush projects		
<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												Regular (Standard) TAT:		
<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												(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	Municipality												Standard TAT = 5-7 Working days for most tests.		
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	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:			
															Rush Confirmation Number: (call lab for #)			
															# of Bottles			
															Comments			
1		52-III	21/8/11	PM - Water	Y	X											6	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

12-Aug-21 16:55
Jolanta Goralczyk
C1M8798
DSG ENV-1151

RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson	Date: (YY/MM/DD) 21/8/12	Time 9:15	RECEIVED BY: (Signature/Print) AISHANNY KERR	Date: (YY/MM/DD) 21/08/12	Time 16:55	# jars used and not submitted	Laboratory Use Only	
						Time Sensitive	Temperature (°C) on Recept 7/12/12	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 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 ice



Your Project #: GW
 Your C.O.C. #: 834487-17-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/20
 Report #: R6773974
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N0562
Received: 2021/08/13, 16:00

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	4	N/A	2021/08/18	CAM SOP-00448	SM 23 2320 B m
Anions	4	N/A	2021/08/18	CAM SOP-00435	SM 23 4110 B m
Conductivity	4	N/A	2021/08/18	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/08/17	2021/08/18	CAM SOP-00449	SM 23 4500-F C m
Fluoride	3	2021/08/18	2021/08/18	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	4	N/A	2021/08/19	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	4	N/A	2021/08/19	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	4	N/A	2021/08/17	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/18	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	3	N/A	2021/08/19	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/08/17	2021/08/18	CAM SOP-00413	SM 4500H+ B m
pH	3	2021/08/18	2021/08/18	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	4	N/A	2021/08/16	CAM SOP-00444	OMOE E3179 m
Orthophosphate	4	N/A	2021/08/18	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	4	2021/08/16	2021/08/17	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	4	2021/08/16	2021/08/17	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	4	N/A	2021/08/17	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.



Your Project #: GW
Your C.O.C. #: 834487-17-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/20
Report #: R6773974
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N0562
Received: 2021/08/13, 16:00

Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
20 Aug 2021 09:46:20

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 #: C1N0562
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		QJN031				QJN031				QJN032			
Sampling Date		2021/08/12				2021/08/12				2021/08/12			
COC Number		834487-17-01				834487-17-01				834487-17-01			
	UNITS	M5R	RDL	QC Batch	M5R Lab-Dup	RDL	QC Batch	CW16	RDL	QC Batch			
Calculated Parameters													
Hardness (CaCO3)	mg/L	460	1.0	7517792				760	1.0	7517792			
Inorganics													
Total Ammonia-N	mg/L	42	0.25	7522371				6.0	0.050	7522371			
Conductivity	umho/cm	4800	1.0	7525913	4800	1.0	7525913	2000	1.0	7526577			
Total Dissolved Solids	mg/L	2850	10	7520680				1380	10	7520680			
Fluoride (F-)	mg/L	1.6	0.10	7525906	1.6	0.10	7525906	1.5	0.10	7526580			
Total Kjeldahl Nitrogen (TKN)	mg/L	48	2.0	7522679				6.6	0.20	7522679			
Total Organic Carbon (TOC)	mg/L	20	0.40	7522314				6.9	0.40	7522314			
Orthophosphate (P)	mg/L	<0.010	0.010	7525858				<0.010	0.010	7526587			
pH	pH	7.56		7525919	7.60		7525919	7.63		7526574			
Phenols-4AAP	mg/L	0.024	0.0010	7521429				0.015	0.0010	7521413			
Alkalinity (Total as CaCO3)	mg/L	51	1.0	7525909	50	1.0	7525909	190	1.0	7526571			
Nitrite (N)	mg/L	1.32	0.010	7525925				<0.010	0.010	7526633			
Dissolved Chloride (Cl-)	mg/L	1200	10	7525873				160	5.0	7525873			
Nitrate (N)	mg/L	1.52	0.10	7525925				<0.10	0.10	7526633			
Nitrate + Nitrite (N)	mg/L	2.84	0.10	7525925				<0.10	0.10	7526633			
Dissolved Bromide (Br-)	mg/L	<10	10	7525873				<5.0	5.0	7525873			
Dissolved Sulphate (SO4)	mg/L	450	10	7525873				410	5.0	7525873			

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



BUREAU
VERITAS

BV Labs Job #: C1N0562
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		QJN032			QJN033		QJN034		
Sampling Date		2021/08/12			2021/08/12		2021/08/12		
COC Number		834487-17-01			834487-17-01		834487-17-01		
	UNITS	CW16 Lab-Dup	RDL	QC Batch	L1	RDL	M4	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				2100	1.0	1500	1.0	7517792
Inorganics									
Total Ammonia-N	mg/L				15	0.050	10	0.050	7522371
Conductivity	umho/cm				5700	1.0	4200	1.0	7526577
Total Dissolved Solids	mg/L				4140	10	3010	10	7520680
Fluoride (F-)	mg/L				0.87	0.10	1.3	0.10	7526580
Total Kjeldahl Nitrogen (TKN)	mg/L	6.6	0.20	7522679	16	2.0	11	1.0	7522679
Total Organic Carbon (TOC)	mg/L				3.3	0.40	4.6	0.40	7522314
Orthophosphate (P)	mg/L				<0.010	0.010	<0.010	0.010	7526587
pH	pH				7.55		7.66		7526574
Phenols-4AAP	mg/L				<0.0010	0.0010	<0.0010	0.0010	7521413
Alkalinity (Total as CaCO3)	mg/L				240	1.0	200	1.0	7526571
Nitrite (N)	mg/L				<0.010	0.010	0.053	0.010	7526633
Dissolved Chloride (Cl-)	mg/L				1100	10	650	10	7525873
Nitrate (N)	mg/L				<0.10	0.10	1.18	0.10	7526633
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	1.23	0.10	7526633
Dissolved Bromide (Br-)	mg/L				<10	10	<10	10	7525873
Dissolved Sulphate (SO4)	mg/L				1300	10	870	10	7525873
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1N0562
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QJN031		QJN032		QJN033		QJN034		
Sampling Date		2021/08/12		2021/08/12		2021/08/12		2021/08/12		
COC Number		834487-17-01		834487-17-01		834487-17-01		834487-17-01		
	UNITS	M5R	RDL	CW16	RDL	L1	RDL	M4	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	47	4.9	6.0	4.9	<4.9	4.9	<4.9	4.9	7524230
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7524230
Dissolved Arsenic (As)	ug/L	1.6	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7524230
Dissolved Barium (Ba)	ug/L	28	2.0	19	2.0	17	2.0	26	2.0	7524230
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7524230
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7524230
Dissolved Boron (B)	ug/L	380	10	330	10	720	10	800	10	7524230
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7524230
Dissolved Calcium (Ca)	ug/L	140000	200	170000	200	710000	1000	460000	200	7524230
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	14	5.0	<5.0	5.0	<5.0	5.0	7524230
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7524230
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7524230
Dissolved Iron (Fe)	ug/L	<100	100	200	100	<100	100	140	100	7524230
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7524230
Dissolved Lithium (Li)	ug/L	36	5.0	22	5.0	150	5.0	73	5.0	7524230
Dissolved Magnesium (Mg)	ug/L	30000	50	81000	50	81000	50	88000	50	7524230
Dissolved Manganese (Mn)	ug/L	91	2.0	86	2.0	76	2.0	330	2.0	7524230
Dissolved Molybdenum (Mo)	ug/L	17	0.50	6.6	0.50	<0.50	0.50	3.0	0.50	7524230
Dissolved Nickel (Ni)	ug/L	9.0	1.0	1.8	1.0	<1.0	1.0	3.9	1.0	7524230
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	<100	100	7524230
Dissolved Potassium (K)	ug/L	57000	200	27000	200	37000	200	36000	200	7524230
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7524230
Dissolved Silicon (Si)	ug/L	5400	50	5600	50	4700	50	7200	50	7524230
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7524230
Dissolved Sodium (Na)	ug/L	890000	500	160000	100	600000	500	460000	100	7524230
Dissolved Strontium (Sr)	ug/L	2500	1.0	2200	1.0	9100	1.0	4500	1.0	7524230
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7524230
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7524230
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7524230
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7524230
Dissolved Tungsten (W)	ug/L	3.5	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7524230
Dissolved Uranium (U)	ug/L	<0.10	0.10	0.49	0.10	0.18	0.10	1.1	0.10	7524230
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7524230
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	21	5.0	7524230
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7524230
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1N0562
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: QJN031
Sample ID: M5R
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7525909	N/A	2021/08/18	Surinder Rai
Anions	IC	7525873	N/A	2021/08/18	Fari Dehdezi
Conductivity	AT	7525913	N/A	2021/08/18	Surinder Rai
Fluoride	ISE	7525906	2021/08/17	2021/08/18	Surinder Rai
Hardness (calculated as CaCO3)		7517792	N/A	2021/08/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7524230	N/A	2021/08/19	Daniel Teclu
Total Ammonia-N	LACH/NH4	7522371	N/A	2021/08/17	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7525925	N/A	2021/08/18	Amanpreet Sappal
pH	AT	7525919	2021/08/17	2021/08/18	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7521429	N/A	2021/08/16	Deonarine Ramnarine
Orthophosphate	KONE	7525858	N/A	2021/08/18	Avneet Kour Sudan
Total Dissolved Solids	BAL	7520680	2021/08/16	2021/08/17	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7522679	2021/08/16	2021/08/17	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7522314	N/A	2021/08/17	Julianna Castiglione

BV Labs ID: QJN031 Dup
Sample ID: M5R
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7525909	N/A	2021/08/18	Surinder Rai
Conductivity	AT	7525913	N/A	2021/08/18	Surinder Rai
Fluoride	ISE	7525906	2021/08/17	2021/08/18	Surinder Rai
pH	AT	7525919	2021/08/17	2021/08/18	Surinder Rai

BV Labs ID: QJN032
Sample ID: CW16
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7526571	N/A	2021/08/18	Surinder Rai
Anions	IC	7525873	N/A	2021/08/18	Fari Dehdezi
Conductivity	AT	7526577	N/A	2021/08/18	Surinder Rai
Fluoride	ISE	7526580	2021/08/18	2021/08/18	Surinder Rai
Hardness (calculated as CaCO3)		7517792	N/A	2021/08/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7524230	N/A	2021/08/19	Daniel Teclu
Total Ammonia-N	LACH/NH4	7522371	N/A	2021/08/17	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7526633	N/A	2021/08/19	Chandra Nandlal
pH	AT	7526574	2021/08/18	2021/08/18	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7521413	N/A	2021/08/16	Deonarine Ramnarine
Orthophosphate	KONE	7526587	N/A	2021/08/18	Avneet Kour Sudan
Total Dissolved Solids	BAL	7520680	2021/08/16	2021/08/17	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7522679	2021/08/16	2021/08/17	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7522314	N/A	2021/08/17	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1N0562
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: QJN032 Dup
Sample ID: CW16
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7522679	2021/08/16	2021/08/17	Rajni Tyagi

BV Labs ID: QJN033
Sample ID: L1
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7526571	N/A	2021/08/18	Surinder Rai
Anions	IC	7525873	N/A	2021/08/18	Fari Dehdezi
Conductivity	AT	7526577	N/A	2021/08/18	Surinder Rai
Fluoride	ISE	7526580	2021/08/18	2021/08/18	Surinder Rai
Hardness (calculated as CaCO3)		7517792	N/A	2021/08/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7524230	N/A	2021/08/19	Daniel Teclu
Total Ammonia-N	LACH/NH4	7522371	N/A	2021/08/17	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7526633	N/A	2021/08/19	Chandra Nandlal
pH	AT	7526574	2021/08/18	2021/08/18	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7521413	N/A	2021/08/16	Deonarine Ramnarine
Orthophosphate	KONE	7526587	N/A	2021/08/18	Avneet Kour Sudan
Total Dissolved Solids	BAL	7520680	2021/08/16	2021/08/17	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7522679	2021/08/16	2021/08/17	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7522314	N/A	2021/08/17	Julianna Castiglione

BV Labs ID: QJN034
Sample ID: M4
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7526571	N/A	2021/08/18	Surinder Rai
Anions	IC	7525873	N/A	2021/08/18	Fari Dehdezi
Conductivity	AT	7526577	N/A	2021/08/18	Surinder Rai
Fluoride	ISE	7526580	2021/08/18	2021/08/18	Surinder Rai
Hardness (calculated as CaCO3)		7517792	N/A	2021/08/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7524230	N/A	2021/08/19	Daniel Teclu
Total Ammonia-N	LACH/NH4	7522371	N/A	2021/08/17	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7526633	N/A	2021/08/19	Chandra Nandlal
pH	AT	7526574	2021/08/18	2021/08/18	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7521413	N/A	2021/08/16	Deonarine Ramnarine
Orthophosphate	KONE	7526587	N/A	2021/08/18	Avneet Kour Sudan
Total Dissolved Solids	BAL	7520680	2021/08/16	2021/08/17	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7522679	2021/08/16	2021/08/17	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7522314	N/A	2021/08/17	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	4.0°C
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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 #: C1N0562
Report Date: 2021/08/20

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: GW

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
7520680	Total Dissolved Solids	2021/08/17					<10	mg/L	1.3	25	100	90 - 110
7521413	Phenols-4AAP	2021/08/16	102	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7521429	Phenols-4AAP	2021/08/16	102	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7522314	Total Organic Carbon (TOC)	2021/08/17	99	80 - 120	97	80 - 120	<0.40	mg/L	1.7	20		
7522371	Total Ammonia-N	2021/08/17	97	75 - 125	99	80 - 120	<0.050	mg/L	6.3	20		
7522679	Total Kjeldahl Nitrogen (TKN)	2021/08/17	NC	80 - 120	103	80 - 120	<0.10	mg/L	0.98	20	105	80 - 120
7524230	Dissolved Aluminum (Al)	2021/08/19	106	80 - 120	105	80 - 120	<4.9	ug/L	NC	20		
7524230	Dissolved Antimony (Sb)	2021/08/19	105	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7524230	Dissolved Arsenic (As)	2021/08/19	100	80 - 120	101	80 - 120	<1.0	ug/L	1.3	20		
7524230	Dissolved Barium (Ba)	2021/08/19	98	80 - 120	100	80 - 120	<2.0	ug/L	1.9	20		
7524230	Dissolved Beryllium (Be)	2021/08/19	102	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
7524230	Dissolved Bismuth (Bi)	2021/08/19	100	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7524230	Dissolved Boron (B)	2021/08/19	97	80 - 120	100	80 - 120	<10	ug/L	0.65	20		
7524230	Dissolved Cadmium (Cd)	2021/08/19	102	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7524230	Dissolved Calcium (Ca)	2021/08/19	NC	80 - 120	102	80 - 120	<200	ug/L	1.4	20		
7524230	Dissolved Chromium (Cr)	2021/08/19	99	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7524230	Dissolved Cobalt (Co)	2021/08/19	100	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7524230	Dissolved Copper (Cu)	2021/08/19	102	80 - 120	104	80 - 120	<0.90	ug/L	NC	20		
7524230	Dissolved Iron (Fe)	2021/08/19	99	80 - 120	100	80 - 120	<100	ug/L	2.6	20		
7524230	Dissolved Lead (Pb)	2021/08/19	101	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7524230	Dissolved Lithium (Li)	2021/08/19	104	80 - 120	105	80 - 120	<5.0	ug/L				
7524230	Dissolved Magnesium (Mg)	2021/08/19	NC	80 - 120	102	80 - 120	<50	ug/L	0.23	20		
7524230	Dissolved Manganese (Mn)	2021/08/19	100	80 - 120	100	80 - 120	<2.0	ug/L	2.0	20		
7524230	Dissolved Molybdenum (Mo)	2021/08/19	106	80 - 120	102	80 - 120	<0.50	ug/L	2.6	20		
7524230	Dissolved Nickel (Ni)	2021/08/19	96	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7524230	Dissolved Phosphorus (P)	2021/08/19	113	80 - 120	118	80 - 120	<100	ug/L	NC	20		
7524230	Dissolved Potassium (K)	2021/08/19	103	80 - 120	107	80 - 120	<200	ug/L	1.3	20		
7524230	Dissolved Selenium (Se)	2021/08/19	103	80 - 120	102	80 - 120	<2.0	ug/L	NC	20		
7524230	Dissolved Silicon (Si)	2021/08/19	105	80 - 120	106	80 - 120	<50	ug/L	0.58	20		
7524230	Dissolved Silver (Ag)	2021/08/19	105	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7524230	Dissolved Sodium (Na)	2021/08/19	102	80 - 120	101	80 - 120	<100	ug/L	0.72	20		



BUREAU
VERITAS

BV Labs Job #: C1N0562
Report Date: 2021/08/20

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW

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
7524230	Dissolved Strontium (Sr)	2021/08/19	NC	80 - 120	99	80 - 120	<1.0	ug/L	4.2	20		
7524230	Dissolved Tellurium (Te)	2021/08/19	100	80 - 120	99	80 - 120	<1.0	ug/L				
7524230	Dissolved Thallium (Tl)	2021/08/19	101	80 - 120	100	80 - 120	<0.050	ug/L	NC	20		
7524230	Dissolved Tin (Sn)	2021/08/19	105	80 - 120	103	80 - 120	<1.0	ug/L				
7524230	Dissolved Titanium (Ti)	2021/08/19	100	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7524230	Dissolved Tungsten (W)	2021/08/19	100	80 - 120	100	80 - 120	<1.0	ug/L				
7524230	Dissolved Uranium (U)	2021/08/19	99	80 - 120	101	80 - 120	<0.10	ug/L	5.2	20		
7524230	Dissolved Vanadium (V)	2021/08/19	98	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7524230	Dissolved Zinc (Zn)	2021/08/19	97	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7524230	Dissolved Zirconium (Zr)	2021/08/19	108	80 - 120	104	80 - 120	<1.0	ug/L				
7525858	Orthophosphate (P)	2021/08/18	117	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7525873	Dissolved Bromide (Br-)	2021/08/18	103	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7525873	Dissolved Chloride (Cl-)	2021/08/18	99	80 - 120	99	70 - 130	<1.0	mg/L	2.8	20		
7525873	Dissolved Sulphate (SO4)	2021/08/18	97	80 - 120	96	80 - 120	<1.0	mg/L	0.85	20		
7525906	Fluoride (F-)	2021/08/18	107	80 - 120	98	80 - 120	<0.10	mg/L	0.97	20		
7525909	Alkalinity (Total as CaCO3)	2021/08/18			94	85 - 115	<1.0	mg/L	1.1	20		
7525913	Conductivity	2021/08/18			102	85 - 115	<1.0	umho/cm	0.84	25		
7525919	pH	2021/08/18			102	98 - 103			0.60	N/A		
7525925	Nitrate (N)	2021/08/18	NC	80 - 120	102	80 - 120	<0.10	mg/L	0.67	20		
7525925	Nitrite (N)	2021/08/18	102	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
7526571	Alkalinity (Total as CaCO3)	2021/08/18			95	85 - 115	<1.0	mg/L	1.2	20		
7526574	pH	2021/08/18			102	98 - 103			0.31	N/A		
7526577	Conductivity	2021/08/18			102	85 - 115	<1.0	umho/cm	1.4	25		
7526580	Fluoride (F-)	2021/08/18	92	80 - 120	99	80 - 120	<0.10	mg/L	11	20		
7526587	Orthophosphate (P)	2021/08/18	117	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7526633	Nitrate (N)	2021/08/19	97	80 - 120	97	80 - 120	<0.10	mg/L	2.0	20		



BUREAU
VERITAS

BV Labs Job #: C1N0562
Report Date: 2021/08/20

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW

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
7526633	Nitrite (N)	2021/08/19	107	80 - 120	106	80 - 120	<0.010	mg/L	19	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 #: C1N0562
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW

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 "Brad Newman".

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: 800-563-6286 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: GW Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: 834487 Bottle Order #: 834487 COC #: C#834487-17-01 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										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"/> 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"/> PWQG	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	Last "A" - GW Monitoring										# of Bottles	Comments
1	M5 R.	21/8/12	AM	Water	Y	X										6	
2	CW16	↓	↓	↓	Y	X										6	
3	L1	↓	↓	↓	Y	X										6	
4	M4	↓	↓	↓	Y	X										6	
5																	
6																	
7																	
8																	
9																	
10																	

13-Aug-21 16:00
Jolanta Goralczyk
 C1N0562
VTLI ENV 706

RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson	Date: (YY/MM/DD) 21/8/13	Time 10:00	RECEIVED BY: (Signature/Print) DIPKA SINGH	Date: (YY/MM/DD) 2021/08/13	Time 16:00	# jars used and not submitted	Laboratory Use Only	
Time Sensitive	Temperature (°C) on Rece: 4/5/3	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 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
ICE:Y



Your Project #: GW
Your C.O.C. #: 834487-22-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/23
Report #: R6777456
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N2135

Received: 2021/08/16, 15:45

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	1	N/A	2021/08/18	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/08/18	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/08/18	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/08/17	2021/08/18	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/08/20	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/08/20	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/08/19	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/19	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/08/17	2021/08/18	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/08/17	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/08/18	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	1	2021/08/17	2021/08/18	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/08/17	2021/08/18	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/08/18	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

23 Aug 2021 11:18:12

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

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

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VERITAS

BV Labs Job #: C1N2135
Report Date: 2021/08/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QJV692		
Sampling Date		2021/08/13		
COC Number		834487-22-01		
	UNITS	CW5R	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO ₃)	mg/L	170	1.0	7521489
Inorganics				
Total Ammonia-N	mg/L	150	1.0	7524961
Conductivity	umho/cm	9200	1.0	7525913
Total Dissolved Solids	mg/L	4980	20	7524904
Fluoride (F ⁻)	mg/L	3.8	0.10	7525906
Total Kjeldahl Nitrogen (TKN)	mg/L	140	5.0	7524859
Total Organic Carbon (TOC)	mg/L	37	0.40	7524750
Orthophosphate (P)	mg/L	0.037	0.010	7525858
pH	pH	9.47		7525919
Phenols-4AAP	mg/L	0.77	0.020	7524140
Alkalinity (Total as CaCO ₃)	mg/L	360	1.0	7525909
Nitrite (N)	mg/L	<0.010	0.010	7525091
Dissolved Chloride (Cl ⁻)	mg/L	2700	20	7525873
Nitrate (N)	mg/L	<0.10	0.10	7525091
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7525091
Dissolved Bromide (Br ⁻)	mg/L	<20	20	7525873
Dissolved Sulphate (SO ₄)	mg/L	200	20	7525873
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QJV692		
Sampling Date		2021/08/13		
COC Number		834487-22-01		
	UNITS	CW5R	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	15	4.9	7525507
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7525507
Dissolved Arsenic (As)	ug/L	2.6	1.0	7525507
Dissolved Barium (Ba)	ug/L	14	2.0	7525507
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7525507
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7525507
Dissolved Boron (B)	ug/L	580	10	7525507
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7525507
Dissolved Calcium (Ca)	ug/L	40000	200	7525507
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7525507
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7525507
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7525507
Dissolved Iron (Fe)	ug/L	<100	100	7525507
Dissolved Lead (Pb)	ug/L	0.66	0.50	7525507
Dissolved Lithium (Li)	ug/L	29	5.0	7525507
Dissolved Magnesium (Mg)	ug/L	17000	50	7525507
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7525507
Dissolved Molybdenum (Mo)	ug/L	55	0.50	7525507
Dissolved Nickel (Ni)	ug/L	18	1.0	7525507
Dissolved Phosphorus (P)	ug/L	170	100	7525507
Dissolved Potassium (K)	ug/L	120000	200	7525507
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7525507
Dissolved Silicon (Si)	ug/L	5800	50	7525507
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7525507
Dissolved Sodium (Na)	ug/L	1900000	500	7525507
Dissolved Strontium (Sr)	ug/L	1800	1.0	7525507
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7525507
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7525507
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7525507
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7525507
Dissolved Tungsten (W)	ug/L	20	1.0	7525507
Dissolved Uranium (U)	ug/L	<0.10	0.10	7525507
Dissolved Vanadium (V)	ug/L	0.80	0.50	7525507
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7525507
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7525507
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: C1N2135
Report Date: 2021/08/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QJV692
Sample ID: CW5R
Matrix: Water

Collected: 2021/08/13
Shipped:
Received: 2021/08/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7525909	N/A	2021/08/18	Surinder Rai
Anions	IC	7525873	N/A	2021/08/18	Fari Dehdezi
Conductivity	AT	7525913	N/A	2021/08/18	Surinder Rai
Fluoride	ISE	7525906	2021/08/17	2021/08/18	Surinder Rai
Hardness (calculated as CaCO3)		7521489	N/A	2021/08/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7525507	N/A	2021/08/20	Daniel Teclu
Total Ammonia-N	LACH/NH4	7524961	N/A	2021/08/19	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7525091	N/A	2021/08/19	Chandra Nandlal
pH	AT	7525919	2021/08/17	2021/08/18	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7524140	N/A	2021/08/17	Deonarine Ramnarine
Orthophosphate	KONE	7525858	N/A	2021/08/18	Avneet Kour Sudan
Total Dissolved Solids	BAL	7524904	2021/08/17	2021/08/18	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7524859	2021/08/17	2021/08/18	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7524750	N/A	2021/08/18	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	1.3°C
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Sample QJV692 [CW5R] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1N2135
Report Date: 2021/08/23

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
7524140	Phenols-4AAP	2021/08/17	101	80 - 120	102	80 - 120	<0.0010	mg/L	9.5	20		
7524750	Total Organic Carbon (TOC)	2021/08/17	99	80 - 120	98	80 - 120	<0.40	mg/L	3.0	20		
7524859	Total Kjeldahl Nitrogen (TKN)	2021/08/18	NC	80 - 120	105	80 - 120	<0.10	mg/L	3.4	20	111	80 - 120
7524904	Total Dissolved Solids	2021/08/18					<10	mg/L	0	25	97	90 - 110
7524961	Total Ammonia-N	2021/08/19	98	75 - 125	98	80 - 120	<0.050	mg/L	10	20		
7525091	Nitrate (N)	2021/08/19	89	80 - 120	92	80 - 120	<0.10	mg/L	NC	20		
7525091	Nitrite (N)	2021/08/19	103	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7525507	Dissolved Aluminum (Al)	2021/08/19	108	80 - 120	105	80 - 120	<4.9	ug/L	NC	20		
7525507	Dissolved Antimony (Sb)	2021/08/19	104	80 - 120	104	80 - 120	<0.50	ug/L				
7525507	Dissolved Arsenic (As)	2021/08/19	101	80 - 120	100	80 - 120	<1.0	ug/L				
7525507	Dissolved Barium (Ba)	2021/08/19	99	80 - 120	103	80 - 120	<2.0	ug/L	1.7	20		
7525507	Dissolved Beryllium (Be)	2021/08/19	99	80 - 120	99	80 - 120	<0.40	ug/L				
7525507	Dissolved Bismuth (Bi)	2021/08/19	98	80 - 120	102	80 - 120	<1.0	ug/L				
7525507	Dissolved Boron (B)	2021/08/19	NC	80 - 120	95	80 - 120	<10	ug/L	0.95	20		
7525507	Dissolved Cadmium (Cd)	2021/08/19	99	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7525507	Dissolved Calcium (Ca)	2021/08/19	NC	80 - 120	105	80 - 120	<200	ug/L	1.3	20		
7525507	Dissolved Chromium (Cr)	2021/08/19	99	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7525507	Dissolved Cobalt (Co)	2021/08/19	102	80 - 120	104	80 - 120	<0.50	ug/L				
7525507	Dissolved Copper (Cu)	2021/08/19	103	80 - 120	103	80 - 120	<0.90	ug/L	NC	20		
7525507	Dissolved Iron (Fe)	2021/08/19	100	80 - 120	100	80 - 120	<100	ug/L	0.90	20		
7525507	Dissolved Lead (Pb)	2021/08/19	97	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7525507	Dissolved Lithium (Li)	2021/08/19	101	80 - 120	101	80 - 120	<5.0	ug/L				
7525507	Dissolved Magnesium (Mg)	2021/08/19	NC	80 - 120	103	80 - 120	<50	ug/L	0.65	20		
7525507	Dissolved Manganese (Mn)	2021/08/19	98	80 - 120	99	80 - 120	<2.0	ug/L	1.4	20		
7525507	Dissolved Molybdenum (Mo)	2021/08/19	110	80 - 120	101	80 - 120	<0.50	ug/L				
7525507	Dissolved Nickel (Ni)	2021/08/19	95	80 - 120	97	80 - 120	<1.0	ug/L				
7525507	Dissolved Phosphorus (P)	2021/08/19	110	80 - 120	109	80 - 120	<100	ug/L				
7525507	Dissolved Potassium (K)	2021/08/19	101	80 - 120	104	80 - 120	<200	ug/L	1.0	20		
7525507	Dissolved Selenium (Se)	2021/08/19	87	80 - 120	101	80 - 120	<2.0	ug/L				
7525507	Dissolved Silicon (Si)	2021/08/19	110	80 - 120	106	80 - 120	<50	ug/L				
7525507	Dissolved Silver (Ag)	2021/08/19	77 (1)	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1N2135
Report Date: 2021/08/23

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
7525507	Dissolved Sodium (Na)	2021/08/19	NC	80 - 120	101	80 - 120	<100	ug/L	0.54	20		
7525507	Dissolved Strontium (Sr)	2021/08/19	NC	80 - 120	99	80 - 120	<1.0	ug/L				
7525507	Dissolved Tellurium (Te)	2021/08/19	88	80 - 120	100	80 - 120	<1.0	ug/L				
7525507	Dissolved Thallium (Tl)	2021/08/19	99	80 - 120	104	80 - 120	<0.050	ug/L				
7525507	Dissolved Tin (Sn)	2021/08/19	105	80 - 120	103	80 - 120	<1.0	ug/L				
7525507	Dissolved Titanium (Ti)	2021/08/19	102	80 - 120	99	80 - 120	<5.0	ug/L				
7525507	Dissolved Tungsten (W)	2021/08/19	103	80 - 120	102	80 - 120	<1.0	ug/L				
7525507	Dissolved Uranium (U)	2021/08/19	98	80 - 120	102	80 - 120	<0.10	ug/L				
7525507	Dissolved Vanadium (V)	2021/08/19	101	80 - 120	98	80 - 120	<0.50	ug/L				
7525507	Dissolved Zinc (Zn)	2021/08/19	92	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7525507	Dissolved Zirconium (Zr)	2021/08/19	111	80 - 120	104	80 - 120	<1.0	ug/L				
7525858	Orthophosphate (P)	2021/08/18	117	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7525873	Dissolved Bromide (Br-)	2021/08/18	103	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7525873	Dissolved Chloride (Cl-)	2021/08/18	99	80 - 120	99	70 - 130	<1.0	mg/L	2.8	20		
7525873	Dissolved Sulphate (SO4)	2021/08/18	97	80 - 120	96	80 - 120	<1.0	mg/L	0.85	20		
7525906	Fluoride (F-)	2021/08/18	107	80 - 120	98	80 - 120	<0.10	mg/L	0.97	20		
7525909	Alkalinity (Total as CaCO3)	2021/08/18			94	85 - 115	<1.0	mg/L	1.1	20		
7525913	Conductivity	2021/08/18			102	85 - 115	<1.0	umho/cm	0.84	25		



BUREAU
VERITAS

BV Labs Job #: C1N2135
Report Date: 2021/08/23

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
7525919	pH	2021/08/18			102	98 - 103			0.60	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).

(1) Matrix Spike exceeds acceptance limits, sample inhomogeneity suspected.



BUREAU
VERITAS

BV Labs Job #: C1N2135

Report Date: 2021/08/23

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:

A handwritten signature in black ink, appearing to read "Brad Newman".

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

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Your Project #: GW
Your C.O.C. #: 834487-32-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/26
Report #: R6782777
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N6741

Received: 2021/08/19, 16:07

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	1	N/A	2021/08/23	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/08/23	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/08/23	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/08/21	2021/08/23	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/08/25	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/08/23	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/08/23	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/23	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/08/21	2021/08/23	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/08/20	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/08/23	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	1	2021/08/23	2021/08/24	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/08/23	2021/08/25	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/08/24	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

26 Aug 2021 12:03:11

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 #: C1N6741
Report Date: 2021/08/26

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QKT908			QKT908		
Sampling Date		2021/08/18			2021/08/18		
COC Number		834487-32-01			834487-32-01		
	UNITS	CW3	RDL	QC Batch	CW3 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO ₃)	mg/L	59	1.0	7529273			
Inorganics							
Total Ammonia-N	mg/L	8.1	0.050	7535563			
Conductivity	umho/cm	1300	1.0	7534666	1300	1.0	7534666
Total Dissolved Solids	mg/L	650	10	7535698			
Fluoride (F ⁻)	mg/L	1.2	0.10	7534664	1.2	0.10	7534664
Total Kjeldahl Nitrogen (TKN)	mg/L	9.1	1.0	7535588			
Total Organic Carbon (TOC)	mg/L	27	0.40	7536641			
Orthophosphate (P)	mg/L	0.013	0.010	7532933			
pH	pH	9.19		7534667	9.24		7534667
Phenols-4AAP	mg/L	0.33	0.0050	7532689			
Alkalinity (Total as CaCO ₃)	mg/L	72	1.0	7534665	74	1.0	7534665
Nitrite (N)	mg/L	<0.010	0.010	7532996			
Dissolved Chloride (Cl ⁻)	mg/L	260	5.0	7534616			
Nitrate (N)	mg/L	<0.10	0.10	7532996			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7532996			
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	7534616			
Dissolved Sulphate (SO ₄)	mg/L	100	5.0	7534616			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: C1N6741
Report Date: 2021/08/26

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QKT908		
Sampling Date		2021/08/18		
COC Number		834487-32-01		
	UNITS	CW3	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7534614
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7534614
Dissolved Arsenic (As)	ug/L	2.0	1.0	7534614
Dissolved Barium (Ba)	ug/L	23	2.0	7534614
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7534614
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7534614
Dissolved Boron (B)	ug/L	190	10	7534614
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7534614
Dissolved Calcium (Ca)	ug/L	19000	200	7534614
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7534614
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7534614
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7534614
Dissolved Iron (Fe)	ug/L	<100	100	7534614
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7534614
Dissolved Lithium (Li)	ug/L	17	5.0	7534614
Dissolved Magnesium (Mg)	ug/L	2800	50	7534614
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7534614
Dissolved Molybdenum (Mo)	ug/L	12	0.50	7534614
Dissolved Nickel (Ni)	ug/L	3.6	1.0	7534614
Dissolved Phosphorus (P)	ug/L	<100	100	7534614
Dissolved Potassium (K)	ug/L	44000	200	7534614
Dissolved Selenium (Se)	ug/L	2.9	2.0	7534614
Dissolved Silicon (Si)	ug/L	10000	50	7534614
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7534614
Dissolved Sodium (Na)	ug/L	200000	100	7534614
Dissolved Strontium (Sr)	ug/L	850	1.0	7534614
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7534614
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7534614
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7534614
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7534614
Dissolved Tungsten (W)	ug/L	3.4	1.0	7534614
Dissolved Uranium (U)	ug/L	<0.10	0.10	7534614
Dissolved Vanadium (V)	ug/L	0.55	0.50	7534614
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7534614
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7534614
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1N6741
Report Date: 2021/08/26

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QKT908
Sample ID: CW3
Matrix: Water

Collected: 2021/08/18
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7534665	N/A	2021/08/23	Surinder Rai
Anions	IC	7534616	N/A	2021/08/23	Fari Dehdezi
Conductivity	AT	7534666	N/A	2021/08/23	Surinder Rai
Fluoride	ISE	7534664	2021/08/21	2021/08/23	Surinder Rai
Hardness (calculated as CaCO3)		7529273	N/A	2021/08/25	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7534614	N/A	2021/08/23	Nan Raykha
Total Ammonia-N	LACH/NH4	7535563	N/A	2021/08/23	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7532996	N/A	2021/08/23	Chandra Nandlal
pH	AT	7534667	2021/08/21	2021/08/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7532689	N/A	2021/08/20	Deonarine Ramnarine
Orthophosphate	KONE	7532933	N/A	2021/08/23	Avneet Kour Sudan
Total Dissolved Solids	BAL	7535698	2021/08/23	2021/08/24	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7535588	2021/08/23	2021/08/25	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7536641	N/A	2021/08/24	Julianna Castiglione

BV Labs ID: QKT908 Dup
Sample ID: CW3
Matrix: Water

Collected: 2021/08/18
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7534665	N/A	2021/08/23	Surinder Rai
Conductivity	AT	7534666	N/A	2021/08/23	Surinder Rai
Fluoride	ISE	7534664	2021/08/21	2021/08/23	Surinder Rai
pH	AT	7534667	2021/08/21	2021/08/23	Surinder Rai



GENERAL COMMENTS

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

Package 1	5.0°C
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Sample QKT908 [CW3] : 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 #: C1N6741

Report Date: 2021/08/26

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
7532689	Phenols-4AAP	2021/08/20	99	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7532933	Orthophosphate (P)	2021/08/23	104	75 - 125	99	80 - 120	<0.010	mg/L	0.78	25		
7532996	Nitrate (N)	2021/08/23	102	80 - 120	100	80 - 120	<0.10	mg/L	0.80	20		
7532996	Nitrite (N)	2021/08/23	101	80 - 120	104	80 - 120	<0.010	mg/L	2.0	20		
7534614	Dissolved Aluminum (Al)	2021/08/23	99	80 - 120	95	80 - 120	<4.9	ug/L	4.5	20		
7534614	Dissolved Antimony (Sb)	2021/08/23	105	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7534614	Dissolved Arsenic (As)	2021/08/23	99	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7534614	Dissolved Barium (Ba)	2021/08/23	101	80 - 120	102	80 - 120	<2.0	ug/L	0.25	20		
7534614	Dissolved Beryllium (Be)	2021/08/23	110	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7534614	Dissolved Bismuth (Bi)	2021/08/23	96	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7534614	Dissolved Boron (B)	2021/08/23	100	80 - 120	98	80 - 120	<10	ug/L	0.31	20		
7534614	Dissolved Cadmium (Cd)	2021/08/23	100	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7534614	Dissolved Calcium (Ca)	2021/08/23	NC	80 - 120	99	80 - 120	<200	ug/L	6.4	20		
7534614	Dissolved Chromium (Cr)	2021/08/23	97	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7534614	Dissolved Cobalt (Co)	2021/08/23	95	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7534614	Dissolved Copper (Cu)	2021/08/23	100	80 - 120	101	80 - 120	<0.90	ug/L	2.8	20		
7534614	Dissolved Iron (Fe)	2021/08/23	96	80 - 120	96	80 - 120	<100	ug/L	NC	20		
7534614	Dissolved Lead (Pb)	2021/08/23	97	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7534614	Dissolved Lithium (Li)	2021/08/23	102	80 - 120	104	80 - 120	<5.0	ug/L	1.8	20		
7534614	Dissolved Magnesium (Mg)	2021/08/23	NC	80 - 120	97	80 - 120	<50	ug/L	3.0	20		
7534614	Dissolved Manganese (Mn)	2021/08/23	96	80 - 120	94	80 - 120	<2.0	ug/L	0.72	20		
7534614	Dissolved Molybdenum (Mo)	2021/08/23	108	80 - 120	103	80 - 120	<0.50	ug/L	1.2	20		
7534614	Dissolved Nickel (Ni)	2021/08/23	91	80 - 120	94	80 - 120	<1.0	ug/L	15	20		
7534614	Dissolved Phosphorus (P)	2021/08/23	94	80 - 120	106	80 - 120	<100	ug/L	NC	20		
7534614	Dissolved Potassium (K)	2021/08/23	104	80 - 120	98	80 - 120	<200	ug/L	2.1	20		
7534614	Dissolved Selenium (Se)	2021/08/23	100	80 - 120	98	80 - 120	<2.0	ug/L	1.4	20		
7534614	Dissolved Silicon (Si)	2021/08/23	102	80 - 120	98	80 - 120	<50	ug/L	4.6	20		
7534614	Dissolved Silver (Ag)	2021/08/23	94	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7534614	Dissolved Sodium (Na)	2021/08/23	NC	80 - 120	96	80 - 120	<100	ug/L	4.3	20		
7534614	Dissolved Strontium (Sr)	2021/08/23	NC	80 - 120	93	80 - 120	<1.0	ug/L	3.1	20		
7534614	Dissolved Tellurium (Te)	2021/08/23	95	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1N6741
Report Date: 2021/08/26

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
7534614	Dissolved Thallium (Tl)	2021/08/23	98	80 - 120	101	80 - 120	<0.050	ug/L	NC	20		
7534614	Dissolved Tin (Sn)	2021/08/23	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7534614	Dissolved Titanium (Ti)	2021/08/23	94	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7534614	Dissolved Tungsten (W)	2021/08/23	104	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7534614	Dissolved Uranium (U)	2021/08/23	99	80 - 120	98	80 - 120	<0.10	ug/L	0.88	20		
7534614	Dissolved Vanadium (V)	2021/08/23	101	80 - 120	97	80 - 120	<0.50	ug/L	2.4	20		
7534614	Dissolved Zinc (Zn)	2021/08/23	94	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7534614	Dissolved Zirconium (Zr)	2021/08/23	109	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7534616	Dissolved Bromide (Br-)	2021/08/23	100	80 - 120	103	80 - 120	<1.0	mg/L	NC	20		
7534616	Dissolved Chloride (Cl-)	2021/08/23	96	80 - 120	100	70 - 130	<1.0	mg/L				
7534616	Dissolved Sulphate (SO4)	2021/08/23	95	80 - 120	97	80 - 120	<1.0	mg/L				
7534664	Fluoride (F-)	2021/08/23	100	80 - 120	98	80 - 120	<0.10	mg/L	1.9	20		
7534665	Alkalinity (Total as CaCO3)	2021/08/23			93	85 - 115	<1.0	mg/L	1.9	20		
7534666	Conductivity	2021/08/23			102	85 - 115	<1.0	umho/cm	0.31	25		
7534667	pH	2021/08/23			102	98 - 103			0.49	N/A		
7535563	Total Ammonia-N	2021/08/23	97	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7535588	Total Kjeldahl Nitrogen (TKN)	2021/08/25	97	80 - 120	99	80 - 120	<0.10	mg/L	NC (1)	20	100	80 - 120
7535698	Total Dissolved Solids	2021/08/24					<10	mg/L	1.7	25	98	90 - 110



BUREAU
VERITAS

BV Labs Job #: C1N6741
Report Date: 2021/08/26

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
7536641	Total Organic Carbon (TOC)	2021/08/24	103	80 - 120	102	80 - 120	<0.40	mg/L	1.3	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) Due to a high concentration of NOx, the sample required dilution. The detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C1N6741

Report Date: 2021/08/26

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:

A handwritten signature in black ink, appearing to read "Brad Newman".

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. #: 834487-31-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/08/30
Report #: R6787973
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N9863
Received: 2021/08/23, 15:40

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	1	N/A	2021/08/25	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/08/25	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/08/25	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/08/24	2021/08/25	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/08/27	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Calcium and Magnesium	1	2021/08/24	2021/08/26	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	1	N/A	2021/08/26	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/08/26	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/25	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/08/24	2021/08/25	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/08/24	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/08/25	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/08/24	2021/08/25	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/08/26	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/08/25	2021/08/25	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/08/24	2021/08/25	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. #: 834487-31-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
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CANADA L8J 1X5

Report Date: 2021/08/30
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CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N9863
Received: 2021/08/23, 15:40

Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
30 Aug 2021 09:38:57

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 #: C1N9863
Report Date: 2021/08/30

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QLK725			QLK725		
Sampling Date		2021/08/20 13:40			2021/08/20 13:40		
COC Number		834487-31-01			834487-31-01		
	UNITS	HCL 1:40	RDL	QC Batch	HCL 1:40 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	2400	1.0	7535863			
Inorganics							
Total Ammonia-N	mg/L	0.25	0.050	7540264			
Conductivity	umho/cm	3500	1.0	7538941	3500	1.0	7538941
Fluoride (F-)	mg/L	1.2	0.10	7538930	1.2	0.10	7538930
Total Kjeldahl Nitrogen (TKN)	mg/L	0.51	0.10	7538781			
Total Organic Carbon (TOC)	mg/L	2.7	0.40	7541356			
Orthophosphate (P)	mg/L	<0.010	0.010	7538976			
pH	pH	7.37		7538937	7.33		7538937
Phenols-4AAP	mg/L	<0.0010	0.0010	7537363			
Total Phosphorus	mg/L	0.042	0.020	7540047			
Total Suspended Solids	mg/L	12	10	7538754			
Alkalinity (Total as CaCO3)	mg/L	380	1.0	7538933	380	1.0	7538933
Nitrite (N)	mg/L	<0.010	0.010	7538378			
Dissolved Chloride (Cl-)	mg/L	95	10	7538854			
Nitrate (N)	mg/L	<0.10	0.10	7538378			
Dissolved Bromide (Br-)	mg/L	<10	10	7538854			
Dissolved Sulphate (SO4)	mg/L	1800	10	7538854			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: C1N9863
Report Date: 2021/08/30

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QLK725		
Sampling Date		2021/08/20 13:40		
COC Number		834487-31-01		
	UNITS	HCL 1:40	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	510	0.50	7538566
Dissolved Magnesium (Mg)	mg/L	270	0.50	7538566
Total Aluminum (Al)	mg/L	0.0066	0.0049	7540458
Total Barium (Ba)	mg/L	0.019	0.0020	7540458
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7540458
Total Boron (B)	mg/L	0.33	0.010	7540458
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7540458
Total Calcium (Ca)	mg/L	490	0.20	7540458
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7540458
Total Cobalt (Co)	mg/L	0.0036	0.00050	7540458
Total Copper (Cu)	mg/L	<0.00090	0.00090	7540458
Total Iron (Fe)	mg/L	2.2	0.10	7540458
Total Lead (Pb)	mg/L	<0.00050	0.00050	7540458
Total Magnesium (Mg)	mg/L	260	0.050	7540458
Total Manganese (Mn)	mg/L	1.5	0.0020	7540458
Total Molybdenum (Mo)	mg/L	0.0063	0.00050	7540458
Total Nickel (Ni)	mg/L	0.022	0.0010	7540458
Total Potassium (K)	mg/L	3.4	0.20	7540458
Total Silicon (Si)	mg/L	5.7	0.050	7540458
Total Sodium (Na)	mg/L	75	0.10	7540458
Total Strontium (Sr)	mg/L	3.6	0.0010	7540458
Total Titanium (Ti)	mg/L	<0.0050	0.0050	7540458
Total Vanadium (V)	mg/L	<0.00050	0.00050	7540458
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7540458
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1N9863
Report Date: 2021/08/30

Terrapure Environmental
Client Project #: HCL
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QLK725
Sample ID: HCL 1:40
Matrix: Water

Collected: 2021/08/20
Shipped:
Received: 2021/08/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7538933	N/A	2021/08/25	Surinder Rai
Anions	IC	7538854	N/A	2021/08/25	Fari Dehdezi
Conductivity	AT	7538941	N/A	2021/08/25	Surinder Rai
Fluoride	ISE	7538930	2021/08/24	2021/08/25	Surinder Rai
Hardness (calculated as CaCO3)		7535863	N/A	2021/08/27	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7538566	2021/08/24	2021/08/26	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7540458	N/A	2021/08/26	Azita Fazaali
Total Ammonia-N	LACH/NH4	7540264	N/A	2021/08/26	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7538378	N/A	2021/08/25	Chandra Nandlal
pH	AT	7538937	2021/08/24	2021/08/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7537363	N/A	2021/08/24	Deonarine Ramnarine
Orthophosphate	KONE	7538976	N/A	2021/08/25	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7538781	2021/08/24	2021/08/25	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7541356	N/A	2021/08/26	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7540047	2021/08/25	2021/08/25	Shivani Shivani
Total Suspended Solids	BAL	7538754	2021/08/24	2021/08/25	Sandeep Kaur

BV Labs ID: QLK725 Dup
Sample ID: HCL 1:40
Matrix: Water

Collected: 2021/08/20
Shipped:
Received: 2021/08/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7538933	N/A	2021/08/25	Surinder Rai
Conductivity	AT	7538941	N/A	2021/08/25	Surinder Rai
Fluoride	ISE	7538930	2021/08/24	2021/08/25	Surinder Rai
pH	AT	7538937	2021/08/24	2021/08/25	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1N9863
Report Date: 2021/08/30

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	3.7°C
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Sample QLK725 [HCL 1:40] : 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 #: C1N9863
Report Date: 2021/08/30

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
7537363	Phenols-4AAP	2021/08/24	97	80 - 120	101	80 - 120	<0.0010	mg/L	12	20		
7538378	Nitrate (N)	2021/08/25	NC	80 - 120	93	80 - 120	<0.10	mg/L	0.91	20		
7538378	Nitrite (N)	2021/08/25	100	80 - 120	103	80 - 120	<0.010	mg/L	0.47	20		
7538566	Dissolved Calcium (Ca)	2021/08/26	97	80 - 120	99	80 - 120	<0.050	mg/L				
7538566	Dissolved Magnesium (Mg)	2021/08/26	93	80 - 120	96	80 - 120	<0.050	mg/L				
7538754	Total Suspended Solids	2021/08/25					<10	mg/L	3.3	25	99	85 - 115
7538781	Total Kjeldahl Nitrogen (TKN)	2021/08/25	NC	80 - 120	98	80 - 120	<0.10	mg/L	0.58	20	106	80 - 120
7538854	Dissolved Bromide (Br-)	2021/08/25	102	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7538854	Dissolved Chloride (Cl-)	2021/08/25	100	80 - 120	100	70 - 130	<1.0	mg/L	1.7	20		
7538854	Dissolved Sulphate (SO4)	2021/08/25	96	80 - 120	97	80 - 120	<1.0	mg/L	19	20		
7538930	Fluoride (F-)	2021/08/25	96	80 - 120	98	80 - 120	<0.10	mg/L	1.4	20		
7538933	Alkalinity (Total as CaCO3)	2021/08/25			95	85 - 115	<1.0	mg/L	0.27	20		
7538937	pH	2021/08/25			102	98 - 103			0.53	N/A		
7538941	Conductivity	2021/08/25			103	85 - 115	<1.0	umho/cm	0.57	25		
7538976	Orthophosphate (P)	2021/08/25	NC	75 - 125	101	80 - 120	<0.010	mg/L	0.41	25		
7540047	Total Phosphorus	2021/08/25	101	80 - 120	103	80 - 120	<0.020	mg/L	0.075	20	103	80 - 120
7540264	Total Ammonia-N	2021/08/26	96	75 - 125	97	80 - 120	<0.050	mg/L	NC	20		
7540458	Total Aluminum (Al)	2021/08/27	98	80 - 120	99	80 - 120	<0.0049	mg/L	NC	20		
7540458	Total Barium (Ba)	2021/08/27	99	80 - 120	100	80 - 120	<0.0020	mg/L	7.1	20		
7540458	Total Beryllium (Be)	2021/08/27	103	80 - 120	102	80 - 120	<0.00040	mg/L	NC	20		
7540458	Total Boron (B)	2021/08/27	91	80 - 120	86	80 - 120	<0.010	mg/L	3.9	20		
7540458	Total Cadmium (Cd)	2021/08/27	97	80 - 120	99	80 - 120	<0.000090	mg/L	NC	20		
7540458	Total Calcium (Ca)	2021/08/27	NC	80 - 120	97	80 - 120	<0.20	mg/L	4.1	20		
7540458	Total Chromium (Cr)	2021/08/27	95	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
7540458	Total Cobalt (Co)	2021/08/27	94	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
7540458	Total Copper (Cu)	2021/08/27	97	80 - 120	99	80 - 120	<0.00090	mg/L	NC	20		
7540458	Total Iron (Fe)	2021/08/27	92	80 - 120	93	80 - 120	<0.10	mg/L	2.8	20		
7540458	Total Lead (Pb)	2021/08/27	95	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
7540458	Total Magnesium (Mg)	2021/08/27	NC	80 - 120	95	80 - 120	<0.050	mg/L	3.2	20		
7540458	Total Manganese (Mn)	2021/08/27	95	80 - 120	95	80 - 120	<0.0020	mg/L	4.0	20		



BUREAU
VERITAS

BV Labs Job #: C1N9863
Report Date: 2021/08/30

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
7540458	Total Molybdenum (Mo)	2021/08/27	100	80 - 120	100	80 - 120	<0.00050	mg/L	7.7	20		
7540458	Total Nickel (Ni)	2021/08/27	94	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20		
7540458	Total Potassium (K)	2021/08/27	95	80 - 120	96	80 - 120	<0.20	mg/L	4.6	20		
7540458	Total Silicon (Si)	2021/08/27	96	80 - 120	96	80 - 120	<0.050	mg/L	4.0	20		
7540458	Total Sodium (Na)	2021/08/27	NC	80 - 120	95	80 - 120	<0.10	mg/L	4.6	20		
7540458	Total Strontium (Sr)	2021/08/27	NC	80 - 120	97	80 - 120	<0.0010	mg/L	4.9	20		
7540458	Total Titanium (Ti)	2021/08/27	96	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20		
7540458	Total Vanadium (V)	2021/08/27	95	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
7540458	Total Zinc (Zn)	2021/08/27	96	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
7541356	Total Organic Carbon (TOC)	2021/08/26	89	80 - 120	93	80 - 120	<0.40	mg/L	11	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 #: C1N9863

Report Date: 2021/08/30

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 "Brad Newman".

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 #:	834487		
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #:	COC #:		Project Manager: Jolanta Goralczyk		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: GW HCL	C#834487-31-01				
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 #:	C#834487-31-01				
		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) <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 Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____			Special Instructions 		Field Filtered (please circle): Metals / Hg / Cr / V	List "A" GW Monitoring	EQ LEACH "List B" Excluding 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.	
Include Criteria on Certificate of Analysis (Y/N)? _____															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						
	HCL1:40	Aug 20 2023	1:40pm	water	NA										6							
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

23-Aug-21 15:40
 Jolanta Goralczyk

 C1N9863
 ATM ENV-861

* RELINQUISHED BY: (Signature/Print) <i>Don Taylor</i>	Date: (YY/MM/DD) 21/08/23	Time 9:20	RECEIVED BY: (Signature/Print) <i>[Signature]</i>	Date: (YY/MM/DD) 21/08/23	Time 15:40	# jars used and not submitted	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Recept 4/13/19	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 ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.							** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.				
* 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.							White: BV Labs Yellow: Client				
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS											