



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. #: 808571-05-01, 808571-06-01, 808571-07-01

Report Date: 2021/02/24
Report #: R6531417
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C123457

Received: 2021/01/27, 15:24

Sample Matrix: Water
Samples Received: 26

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	26	N/A	2021/02/03	CAM SOP-00448	SM 23 2320 B m
Anions	26	N/A	2021/02/03	CAM SOP-00435	SM 23 4110 B m
Conductivity	26	N/A	2021/02/03	CAM SOP-00414	SM 23 2510 m
Fluoride	26	2021/02/03	2021/02/03	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	20	N/A	2021/02/03	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	6	N/A	2021/02/04	CAM SOP 00102/00408/00447	SM 2340 B
Lab Filtered Metals by ICPMS	1	2021/02/03	2021/02/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	21	N/A	2021/02/03	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	4	N/A	2021/02/04	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	26	N/A	2021/02/03	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	26	N/A	2021/02/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	26	2021/02/03	2021/02/03	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	18	N/A	2021/02/03	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	8	N/A	2021/02/04	CAM SOP-00444	OMOE E3179 m
Orthophosphate	26	N/A	2021/02/03	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	26	2021/02/03	2021/02/04	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	26	2021/02/03	2021/02/03	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	26	N/A	2021/02/03	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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CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C123457

Received: 2021/01/27, 15:24

Encryption Key

Hongmei Zhao (Grace)
Project Manager
24 Feb 2021 15:59:02

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.



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB099			OSB099			OSB100		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-05-01		
	UNITS	42-III	RDL	QC Batch	42-III Lab-Dup	RDL	QC Batch	42-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2200	1.0	7171039				1900	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	8.3	0.050	7182092				15	0.050	7182092
Conductivity	umho/cm	5900	1.0	7182308				5000	1.0	7182308
Total Dissolved Solids	mg/L	4130	10	7182318	4320	10	7182318	3590	10	7182318
Fluoride (F-)	mg/L	1.2	0.10	7182309				1.1	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	8.6	1.0	7182094				16	1.0	7182094
Total Organic Carbon (TOC)	mg/L	19	0.40	7182095				8.1	0.40	7182095
Orthophosphate (P)	mg/L	<0.010	0.010	7182281				<0.010	0.010	7182281
pH	pH	7.51		7182307				7.54		7182307
Phenols-4AAP	mg/L	0.0017	0.0010	7182010				0.071	0.0050	7182010
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7182306				130	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182282				<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	1200	10	7182305				680	10	7182305
Nitrate (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<10	10	7182305				<10	10	7182305
Dissolved Sulphate (SO4)	mg/L	1300	10	7182305				1700	10	7182305

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB101			OSB102			OSB102		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-05-01		
	UNITS	56-I	RDL	QC Batch	ST1	RDL	QC Batch	ST1 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1200	1.0	7171039	260	1.0	7171039			
Inorganics										
Total Ammonia-N	mg/L	1.2	0.050	7182092	32 (1)	0.25	7182092			
Conductivity	umho/cm	2900	1.0	7182457	3100	1.0	7182457			
Total Dissolved Solids	mg/L	1890	10	7182318	1530	10	7182318			
Fluoride (F-)	mg/L	0.43	0.10	7182459	1.3	0.10	7182459			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.5	0.10	7182094	31 (1)	2.0	7182094			
Total Organic Carbon (TOC)	mg/L	3.0	0.40	7182095	8.5	0.40	7182095			
Orthophosphate (P)	mg/L	<0.010	0.010	7182444	<0.010	0.010	7182444			
pH	pH	7.88		7182456	7.91		7182456			
Phenols-4AAP	mg/L	<0.0010	0.0010	7182010	0.0065	0.0050	7182020	0.0088	0.0050	7182020
Alkalinity (Total as CaCO3)	mg/L	250	1.0	7182455	210	1.0	7182455			
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	0.010	7182447			
Dissolved Chloride (Cl-)	mg/L	420	5.0	7182448	630	5.0	7182448			
Nitrate (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7182448	<5.0	5.0	7182448			
Dissolved Sulphate (SO4)	mg/L	710	5.0	7182448	270	5.0	7182448			

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 #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB103			OSB104			OSB104		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-05-01		
	UNITS	ST2	RDL	QC Batch	3-II	RDL	QC Batch	3-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	55	1.0	7171039	1200	1.0	7171039			
Inorganics										
Total Ammonia-N	mg/L	70 (1)	0.25	7182092	1.2	0.050	7182092			
Conductivity	umho/cm	5900	1.0	7182457	2800	1.0	7182457	2800	1.0	7182457
Total Dissolved Solids	mg/L	2760	10	7182318	1880	10	7182318			
Fluoride (F-)	mg/L	2.0	0.10	7182459	0.41	0.10	7182459	0.40	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	67 (1)	5.0	7182094	1.4	0.10	7182094			
Total Organic Carbon (TOC)	mg/L	19	0.40	7182095	2.9	0.40	7182095			
Orthophosphate (P)	mg/L	0.013	0.010	7182444	<0.010	0.010	7182444	<0.010	0.010	7182444
pH	pH	9.07		7182456	7.81		7182456	7.77		7182456
Phenols-4AAP	mg/L	0.046	0.0050	7182020	<0.0010	0.0010	7182010			
Alkalinity (Total as CaCO3)	mg/L	180	1.0	7182455	250	1.0	7182455	250	1.0	7182455
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L	1600	10	7182448	420	5.0	7182448	420	5.0	7182448
Nitrate (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447	<0.10	0.10	7182447
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447	<0.10	0.10	7182447
Dissolved Bromide (Br-)	mg/L	<10	10	7182448	<5.0	5.0	7182448	<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L	270	10	7182448	710	5.0	7182448	700	5.0	7182448

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		OSB105			OSB106			OSB106		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-05-01		
	UNITS	57-I	RDL	QC Batch	57-II	RDL	QC Batch	57-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	220	1.0	7171039	1200	1.0	7171039			
Inorganics										
Total Ammonia-N	mg/L	210 (1)	1.0	7182092	1.0	0.050	7182092			
Conductivity	umho/cm	13000	1.0	7182308	4600	1.0	7182308			
Total Dissolved Solids	mg/L	7380	20	7182318	1070	10	7182318			
Fluoride (F-)	mg/L	3.2	0.10	7182309	0.54	0.10	7182309			
Total Kjeldahl Nitrogen (TKN)	mg/L	200 (1)	5.0	7182094	1.4	0.10	7182094	1.4	0.10	7182094
Total Organic Carbon (TOC)	mg/L	73	0.40	7182095	4.3	0.40	7182095	4.3	0.40	7182095
Orthophosphate (P)	mg/L	0.023	0.010	7182281	<0.010	0.010	7182281			
pH	pH	10.4		7182307	12.2		7182307			
Phenols-4AAP	mg/L	0.94	0.020	7182020	0.018	0.0010	7182010			
Alkalinity (Total as CaCO3)	mg/L	790	1.0	7182306	1100	1.0	7182306			
Nitrite (N)	mg/L	0.010	0.010	7182282	0.020	0.010	7182282			
Dissolved Chloride (Cl-)	mg/L	4000	50	7182305	17	1.0	7182305			
Nitrate (N)	mg/L	<0.10	0.10	7182282	<0.10	0.10	7182282			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282	<0.10	0.10	7182282			
Dissolved Bromide (Br-)	mg/L	<50	50	7182305	<1.0	1.0	7182305			
Dissolved Sulphate (SO4)	mg/L	270	50	7182305	23	1.0	7182305			

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 #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB107			OSB108			OSB174		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-06-01		
	UNITS	35-III	RDL	QC Batch	35-IV	RDL	QC Batch	P9-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2200	1.0	7171039	2400	1.0	7171039	3800	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	3.2	0.050	7182092	96 (1)	0.50	7182092	12	0.050	7182123
Conductivity	umho/cm	5100	1.0	7182457	16000	1.0	7182308	13000	1.0	7182308
Total Dissolved Solids	mg/L	3450	10	7182318	10900	20	7182318	8970	20	7182318
Fluoride (F-)	mg/L	0.35	0.10	7182459	3.6	0.10	7182309	0.94	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	3.7	0.10	7182094	94 (1)	5.0	7182094	12	1.0	7182126
Total Organic Carbon (TOC)	mg/L	5.9	0.40	7182095	28	0.40	7182095	3.2	0.40	7182127
Orthophosphate (P)	mg/L	0.25	0.010	7182444	<0.50 (2)	0.50	7182281	0.039	0.010	7182281
pH	pH	7.79		7182456	8.56		7182307	8.03		7182307
Phenols-4AAP	mg/L	0.0011	0.0010	7182010	0.43	0.020	7182010	0.0013	0.0010	7182010
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7182455	91	1.0	7182306	260	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	0.010	7182282	<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	940	10	7182448	4200	50	7182305	3400	50	7182305
Nitrate (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182282	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182282	<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<10	10	7182448	<50	50	7182305	<50	50	7182305
Dissolved Sulphate (SO4)	mg/L	1300	10	7182448	2100	50	7182305	1600	50	7182305

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.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB175		OSB176			OSB177		
Sampling Date		2021/01/26		2021/01/26			2021/01/26		
COC Number		808571-06-01		808571-06-01			808571-06-01		
	UNITS	P9-II	QC Batch	P9-IIIR	RDL	QC Batch	36-IR	RDL	QC Batch

Calculated Parameters									
Hardness (CaCO3)	mg/L	800	7171039	1100	1.0	7171039	2200	1.0	7171039
Inorganics									
Total Ammonia-N	mg/L	0.12	7182092	2.3	0.050	7182092	9.1 (1)	0.050	7182123
Conductivity	umho/cm	2400	7182308	3400	1.0	7182457	6200	1.0	7182457
Total Dissolved Solids	mg/L	1580	7182318	2320	10	7182318	4650	20	7182318
Fluoride (F-)	mg/L	0.83	7182309	1.0	0.10	7182459	0.99	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	0.18	7182094	2.4	0.10	7182094	9.1 (1)	1.0	7182126
Total Organic Carbon (TOC)	mg/L	2.9	7182095	2.6	0.40	7182095	2.6	0.40	7182127
Orthophosphate (P)	mg/L	0.015	7182281	<0.010	0.010	7182444	<0.50 (2)	0.50	7182444
pH	pH	7.91	7182307	7.88		7182456	7.66		7182456
Phenols-4AAP	mg/L	<0.0010	7182020	<0.0010	0.0010	7182010	<0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	190	7182306	190	1.0	7182455	230	1.0	7182455
Nitrite (N)	mg/L	<0.010	7182282	<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L	370	7182305	500	5.0	7182448	1000	20	7182448
Nitrate (N)	mg/L	1.38	7182282	<0.10	0.10	7182447	<0.10	0.10	7182447
Nitrate + Nitrite (N)	mg/L	1.38	7182282	<0.10	0.10	7182447	<0.10	0.10	7182447
Dissolved Bromide (Br-)	mg/L	<5.0	7182305	<5.0	5.0	7182448	<20	20	7182448
Dissolved Sulphate (SO4)	mg/L	510	7182305	940	5.0	7182448	1700	20	7182448

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.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB178			OSB178			OSB179		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-06-01			808571-06-01			808571-06-01		
	UNITS	36-IIR	RDL	QC Batch	36-IIR Lab-Dup	RDL	QC Batch	36-IVR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	5900	1.0	7171039				980	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	8.3	0.050	7182123				<0.050	0.050	7182092
Conductivity	umho/cm	21000	1.0	7182308				1700	1.0	7182457
Total Dissolved Solids	mg/L	13500	20	7182318				1250	10	7182318
Fluoride (F-)	mg/L	0.61	0.10	7182309				1.3	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	8.3	1.0	7182126				0.14	0.10	7182094
Total Organic Carbon (TOC)	mg/L	2.4	0.40	7182127				2.2	0.40	7182095
Orthophosphate (P)	mg/L	<0.50 (1)	0.50	7182281				<0.010	0.010	7182444
pH	pH	7.39		7182307				8.06		7182456
Phenols-4AAP	mg/L	<0.0010	0.0010	7182010	<0.0010	0.0010	7182010	<0.0010	0.0010	7182010
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7182306				270	1.0	7182455
Nitrite (N)	mg/L	<0.010	0.010	7182282				<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L	6400	50	7182305				62	5.0	7182448
Nitrate (N)	mg/L	<0.10	0.10	7182282				0.24	0.10	7182447
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282				0.24	0.10	7182447
Dissolved Bromide (Br-)	mg/L	72	50	7182305				<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L	1600	50	7182305				620	5.0	7182448

RDL = Reportable Detection Limit
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 Lab-Dup = Laboratory Initiated Duplicate
 (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB180			OSB181			OSB182		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-06-01			808571-06-01			808571-06-01		
	UNITS	36-VR	RDL	QC Batch	P14	RDL	QC Batch	P8-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	630	1.0	7171039	24	1.0	7171039	730	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	69 (1)	0.25	7182092	48 (1)	0.25	7182123	0.083	0.050	7182092
Conductivity	umho/cm	7000	1.0	7182457	2600	1.0	7182457	1700	1.0	7182457
Total Dissolved Solids	mg/L	3900	20	7182318	1690	10	7182318	1050	10	7182318
Fluoride (F-)	mg/L	2.9	0.10	7182459	2.1	0.10	7182459	1.1	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	64 (1)	5.0	7182094	47 (1)	2.0	7182126	<0.20 (2)	0.20	7182094
Total Organic Carbon (TOC)	mg/L	19	0.40	7182095	32	0.40	7182127	3.0	0.40	7182095
Orthophosphate (P)	mg/L	<0.010	0.010	7182444	0.011	0.010	7182444	0.015	0.010	7182444
pH	pH	9.09		7182456	8.82		7182456	8.01		7182456
Phenols-4AAP	mg/L	0.30	0.010	7182010	0.49	0.020	7182010	<0.0010	0.0010	7182010
Alkalinity (Total as CaCO3)	mg/L	110	1.0	7182455	190	1.0	7182455	250	1.0	7182455
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L	1800	20	7182448	530	5.0	7182448	140	5.0	7182448
Nitrate (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447	5.30	0.10	7182447
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447	5.30	0.10	7182447
Dissolved Bromide (Br-)	mg/L	<20	20	7182448	<5.0	5.0	7182448	<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L	590	20	7182448	220	5.0	7182448	430	5.0	7182448

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.
 (2) Due to a high concentration of NOx, the sample required dilution. The detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB183			OSB192	OSB193		
Sampling Date		2021/01/26			2021/01/26	2021/01/26		
COC Number		808571-06-01			808571-07-01	808571-07-01		
	UNITS	2-II	RDL	QC Batch	P1-I	P1-II	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	770	1.0	7171039	2100	1700	1.0	7171039
Inorganics								
Total Ammonia-N	mg/L	0.12	0.050	7182092	38 (1)	34	0.25	7182092
Conductivity	umho/cm	2300	1.0	7182457	6700	6600	1.0	7182308
Total Dissolved Solids	mg/L	1590	10	7182318	4570	4490	20	7182333
Fluoride (F-)	mg/L	0.82	0.10	7182459	0.99	1.0	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	0.29	0.10	7182094	37 (1)	37	2.0	7182094
Total Organic Carbon (TOC)	mg/L	2.8	0.40	7182095	8.8	8.9	0.40	7182095
Orthophosphate (P)	mg/L	0.014	0.010	7182444	0.011	<0.010	0.010	7182281
pH	pH	8.00		7182456	7.56	7.54		7182307
Phenols-4AAP	mg/L	<0.0010	0.0010	7182010	<0.0010	<0.0010	0.0010	7182010
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7182455	170	160	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	340	5.0	7182448	1300	1300	20	7182305
Nitrate (N)	mg/L	1.32	0.10	7182447	<0.10	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	1.32	0.10	7182447	<0.10	<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7182448	<20	<20	20	7182305
Dissolved Sulphate (SO4)	mg/L	470	5.0	7182448	1500	1400	20	7182305
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 #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB193			OSB194			OSB195		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-07-01			808571-07-01			808571-07-01		
	UNITS	P1-II Lab-Dup	RDL	QC Batch	P1-III	RDL	QC Batch	4-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				630	1.0	7171039	97	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	38	0.25	7182092	0.46	0.050	7182092	17	0.050	7182123
Conductivity	umho/cm				1300	1.0	7182457	1900	1.0	7182457
Total Dissolved Solids	mg/L				925	10	7182333	1220	10	7182333
Fluoride (F-)	mg/L				1.1	0.10	7182459	1.6	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L				0.85	0.10	7182094	18	1.0	7182126
Total Organic Carbon (TOC)	mg/L				5.3	0.40	7182095	37	0.40	7182127
Orthophosphate (P)	mg/L				0.023	0.010	7182444	0.014	0.010	7182444
pH	pH				8.00		7182456	9.75		7182456
Phenols-4AAP	mg/L				<0.0010	0.0010	7182010	0.66	0.020	7182020
Alkalinity (Total as CaCO3)	mg/L				260	1.0	7182455	100	1.0	7182455
Nitrite (N)	mg/L				<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L				40	1.0	7182448	270	5.0	7182448
Nitrate (N)	mg/L				0.73	0.10	7182447	<0.10	0.10	7182447
Nitrate + Nitrite (N)	mg/L				0.73	0.10	7182447	<0.10	0.10	7182447
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	7182448	<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L				360	1.0	7182448	350	5.0	7182448

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



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB195			OSB196			OSB197		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-07-01			808571-07-01			808571-07-01		
	UNITS	4-III Lab-Dup	RDL	QC Batch	P11-I	RDL	QC Batch	P11-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				2200	1.0	7171039	92	1.0	7173346
Inorganics										
Total Ammonia-N	mg/L				41 (1)	0.25	7182123	17	0.050	7182092
Conductivity	umho/cm				8200	1.0	7182457	1900	1.0	7182457
Total Dissolved Solids	mg/L				5690	20	7182333	1180	10	7182333
Fluoride (F-)	mg/L				0.99	0.10	7182459	1.6	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	19	1.0	7182126	38 (1)	2.0	7182126	18	1.0	7182094
Total Organic Carbon (TOC)	mg/L				6.7	0.40	7182127	39	0.40	7182095
Orthophosphate (P)	mg/L				<0.010	0.010	7182444	0.010	0.010	7182444
pH	pH				7.65		7182456	9.77		7182456
Phenols-4AAP	mg/L				<0.0010	0.0010	7182010	0.64	0.020	7182010
Alkalinity (Total as CaCO3)	mg/L				130	1.0	7182455	94	1.0	7182455
Nitrite (N)	mg/L				<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L				1600	20	7182448	270	5.0	7182448
Nitrate (N)	mg/L				<0.10	0.10	7182447	<0.10	0.10	7182447
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7182447	<0.10	0.10	7182447
Dissolved Bromide (Br-)	mg/L				<20	20	7182448	<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L				1800	20	7182448	360	5.0	7182448

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 #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB099	OSB100		OSB101		OSB102		OSB103		
Sampling Date		2021/01/26	2021/01/26		2021/01/26		2021/01/26		2021/01/26		
COC Number		808571-05-01	808571-05-01		808571-05-01		808571-05-01		808571-05-01		
	UNITS	42-III	42-II	RDL	56-I	RDL	ST1	RDL	ST2	RDL	QC Batch

Metals											
Dissolved Aluminum (Al)	ug/L	<25	<25	25	6.9	4.9	8.0	4.9	11	4.9	7182014
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7182014
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	1.4	1.0	7182014
Dissolved Barium (Ba)	ug/L	57	12	10	36	2.0	17	2.0	14	2.0	7182014
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	2.0	<0.40	0.40	<0.40	0.40	<0.40	0.40	7182014
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7182014
Dissolved Boron (B)	ug/L	970	1300	50	390	10	360	10	440	10	7182014
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.090	0.090	<0.090	0.090	7182014
Dissolved Calcium (Ca)	ug/L	630000	570000	1000	300000	400	57000	200	9500	200	7182014
Dissolved Chromium (Cr)	ug/L	<25	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	7182014
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7182014
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	4.5	<0.90	0.90	<0.90	0.90	<0.90	0.90	7182014
Dissolved Iron (Fe)	ug/L	<500	<500	500	740	100	<100	100	<100	100	7182014
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7182014
Dissolved Lithium (Li)	ug/L	63	99	25	73	5.0	30	5.0	27	5.0	7182014
Dissolved Magnesium (Mg)	ug/L	150000	130000	250	120000	50	28000	50	7500	50	7182014
Dissolved Manganese (Mn)	ug/L	150	140	10	73	2.0	5.9	2.0	<2.0	2.0	7182014
Dissolved Molybdenum (Mo)	ug/L	<2.5	4.4	2.5	<0.50	0.50	2.2	0.50	17	0.50	7182014
Dissolved Nickel (Ni)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	2.4	1.0	7.3	1.0	7182014
Dissolved Phosphorus (P)	ug/L	<500	<500	500	<100	100	<100	100	110	100	7182014
Dissolved Potassium (K)	ug/L	64000	39000	1000	15000	200	31000	200	71000	200	7182014
Dissolved Selenium (Se)	ug/L	<10	<10	10	<2.0	2.0	<2.0	2.0	<2.0	2.0	7182014
Dissolved Silicon (Si)	ug/L	5300	20000	250	3800	50	6100	50	4700	50	7182014
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.090	0.090	<0.090	0.090	7182014
Dissolved Sodium (Na)	ug/L	500000	390000	500	190000	100	490000	100	1000000	500	7182014
Dissolved Strontium (Sr)	ug/L	13000	13000	5.0	6200	1.0	1800	1.0	990	1.0	7182014
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7182014
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	0.25	<0.050	0.050	<0.050	0.050	<0.050	0.050	7182014
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7182014
Dissolved Titanium (Ti)	ug/L	<25	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	7182014
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	5.2	1.0	9.9	1.0	7182014
Dissolved Uranium (U)	ug/L	<0.50	<0.50	0.50	<0.10	0.10	<0.10	0.10	<0.10	0.10	7182014
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<0.50	0.50	1.1	0.50	7182014
Dissolved Zinc (Zn)	ug/L	<25	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	7182014
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7182014

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB104	OSB105		OSB106		OSB107	OSB108		
Sampling Date		2021/01/26	2021/01/26		2021/01/26		2021/01/26	2021/01/26		
COC Number		808571-05-01	808571-05-01		808571-05-01		808571-05-01	808571-05-01		
	UNITS	3-II	57-I	RDL	57-II	RDL	35-III	35-IV	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	3400	25	140	4.9	<25	<25	25	7182006
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7182006
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.5	5.0	7182006
Dissolved Barium (Ba)	ug/L	38	22	10	130	2.0	110	15	10	7182006
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	2.0	<0.40	0.40	<2.0	<2.0	2.0	7182006
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7182006
Dissolved Boron (B)	ug/L	360	480	50	34	10	430	1800	50	7182006
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.45	<0.45	0.45	7182006
Dissolved Calcium (Ca)	ug/L	300000	84000	1000	470000	200	780000	890000	1000	7182006
Dissolved Chromium (Cr)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7182006
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7182006
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	4.5	11	0.90	<4.5	<4.5	4.5	7182006
Dissolved Iron (Fe)	ug/L	790	<500	500	<100	100	1200	<500	500	7182006
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	2.5	6.8	0.50	<2.5	<2.5	2.5	7182006
Dissolved Lithium (Li)	ug/L	69	30	25	12	5.0	300	350	25	7182006
Dissolved Magnesium (Mg)	ug/L	120000	1700	250	<50	50	72000	40000	250	7182006
Dissolved Manganese (Mn)	ug/L	74	<10	10	<2.0	2.0	110	23	10	7182006
Dissolved Molybdenum (Mo)	ug/L	<2.5	91	2.5	21	0.50	<2.5	42	2.5	7182006
Dissolved Nickel (Ni)	ug/L	<5.0	31	5.0	2.1	1.0	<5.0	14	5.0	7182006
Dissolved Phosphorus (P)	ug/L	<500	740	500	<100	100	<500	<500	500	7182006
Dissolved Potassium (K)	ug/L	15000	190000	1000	14000	200	21000	120000	1000	7182006
Dissolved Selenium (Se)	ug/L	<10	<10	10	<2.0	2.0	<10	<10	10	7182006
Dissolved Silicon (Si)	ug/L	4200	8900	250	710	50	4900	3600	250	7182006
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.45	<0.45	0.45	7182006
Dissolved Sodium (Na)	ug/L	190000	2800000	500	16000	100	360000	2800000	500	7182006
Dissolved Strontium (Sr)	ug/L	5900	1500	5.0	490	1.0	4900	8000	5.0	7182006
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7182006
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	0.25	<0.050	0.050	<0.25	<0.25	0.25	7182006
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7182006
Dissolved Titanium (Ti)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7182006
Dissolved Tungsten (W)	ug/L	<5.0	23	5.0	1.7	1.0	<5.0	12	5.0	7182006
Dissolved Uranium (U)	ug/L	<0.50	<0.50	0.50	<0.10	0.10	<0.50	<0.50	0.50	7182006
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	2.5	3.7	0.50	<2.5	<2.5	2.5	7182006
Dissolved Zinc (Zn)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7182006
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7182006
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB174		OSB175	OSB176	OSB177		OSB178		
Sampling Date		2021/01/26		2021/01/26	2021/01/26	2021/01/26		2021/01/26		
COC Number		808571-06-01		808571-06-01	808571-06-01	808571-06-01		808571-06-01		
	UNITS	P9-I	RDL	P9-II	P9-IIIR	36-IR	RDL	36-IIR	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	<25	<25	<25	25	<25	25	7182006
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Barium (Ba)	ug/L	23	10	32	<10	21	10	28	10	7182006
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	2.0	<2.0	2.0	7182006
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Boron (B)	ug/L	8000	50	97	1100	2800	50	5400	50	7182006
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.45	<0.45	<0.45	0.45	<0.45	0.45	7182006
Dissolved Calcium (Ca)	ug/L	1100000	1000	240000	360000	710000	1000	1700000	2000	7182006
Dissolved Chromium (Cr)	ug/L	<25	25	<25	<25	<25	25	<25	25	7182006
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<4.5	<4.5	<4.5	4.5	<4.5	4.5	7182006
Dissolved Iron (Fe)	ug/L	<500	500	<500	<500	<500	500	<500	500	7182006
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Lithium (Li)	ug/L	2700	50	<25	95	600	25	2700	50	7182006
Dissolved Magnesium (Mg)	ug/L	280000	250	49000	61000	110000	250	420000	250	7182006
Dissolved Manganese (Mn)	ug/L	54	10	10	40	64	10	100	10	7182006
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	6.0	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	12	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Phosphorus (P)	ug/L	<500	500	<500	<500	<500	500	<500	500	7182006
Dissolved Potassium (K)	ug/L	62000	1000	5100	22000	37000	1000	66000	1000	7182006
Dissolved Selenium (Se)	ug/L	<10	10	<10	<10	<10	10	<10	10	7182006
Dissolved Silicon (Si)	ug/L	7700	250	3500	3600	4400	250	5200	250	7182006
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.45	<0.45	<0.45	0.45	<0.45	0.45	7182006
Dissolved Sodium (Na)	ug/L	1700000	500	250000	360000	650000	500	2700000	500	7182006
Dissolved Strontium (Sr)	ug/L	16000	5.0	2000	3900	7500	5.0	30000	5.0	7182006
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.25	<0.25	<0.25	0.25	<0.25	0.25	7182006
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Titanium (Ti)	ug/L	<25	25	<25	<25	<25	25	<25	25	7182006
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	12	5.0	7182006
Dissolved Uranium (U)	ug/L	<0.50	0.50	8.8	3.4	0.69	0.50	<0.50	0.50	7182006
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Zinc (Zn)	ug/L	<25	25	<25	<25	<25	25	<25	25	7182006
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB179		OSB180	OSB180	OSB181		OSB182		
Sampling Date		2021/01/26		2021/01/26	2021/01/26	2021/01/26		2021/01/26		
COC Number		808571-06-01		808571-06-01	808571-06-01	808571-06-01		808571-06-01		
	UNITS	36-IVR	RDL	36-VR	36-VR Lab-Dup	P14	RDL	P8-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	150	4.9	540	570	<25	25	<4.9	4.9	7182006
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	<2.5	<2.5	2.5	<0.50	0.50	7182006
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
Dissolved Barium (Ba)	ug/L	20	2.0	25	25	<10	10	25	2.0	7182006
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	<2.0	<2.0	2.0	<0.40	0.40	7182006
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
Dissolved Boron (B)	ug/L	69	10	540	560	370	50	110	10	7182006
Dissolved Cadmium (Cd)	ug/L	0.13	0.090	<0.45	<0.45	<0.45	0.45	<0.090	0.090	7182006
Dissolved Calcium (Ca)	ug/L	240000	200	200000	200000	6400	1000	170000	200	7182006
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	<25	<25	25	<5.0	5.0	7182006
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	<2.5	<2.5	2.5	<0.50	0.50	7182006
Dissolved Copper (Cu)	ug/L	2.6	0.90	<4.5	<4.5	<4.5	4.5	1.1	0.90	7182006
Dissolved Iron (Fe)	ug/L	370	100	<500	<500	<500	500	<100	100	7182006
Dissolved Lead (Pb)	ug/L	5.6	0.50	<2.5	<2.5	<2.5	2.5	<0.50	0.50	7182006
Dissolved Lithium (Li)	ug/L	40	5.0	47	48	<25	25	28	5.0	7182006
Dissolved Magnesium (Mg)	ug/L	92000	50	35000	35000	1800	250	72000	50	7182006
Dissolved Manganese (Mn)	ug/L	44	2.0	<10	<10	<10	10	27	2.0	7182006
Dissolved Molybdenum (Mo)	ug/L	11	0.50	16	15	16	2.5	7.4	0.50	7182006
Dissolved Nickel (Ni)	ug/L	24	1.0	7.9	9.4	9.2	5.0	10	1.0	7182006
Dissolved Phosphorus (P)	ug/L	100	100	<500	<500	<500	500	<100	100	7182006
Dissolved Potassium (K)	ug/L	4100	200	51000	52000	49000	1000	3500	200	7182006
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	<10	<10	10	<2.0	2.0	7182006
Dissolved Silicon (Si)	ug/L	5300	50	5700	5600	5700	250	4800	50	7182006
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	<0.45	<0.45	0.45	<0.090	0.090	7182006
Dissolved Sodium (Na)	ug/L	70000	100	1200000	1200000	680000	500	78000	100	7182006
Dissolved Strontium (Sr)	ug/L	2000	1.0	2500	2600	220	5.0	1500	1.0	7182006
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
Dissolved Thallium (Tl)	ug/L	0.15	0.050	<0.25	<0.25	<0.25	0.25	0.14	0.050	7182006
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	<25	<25	25	<5.0	5.0	7182006
Dissolved Tungsten (W)	ug/L	35	1.0	8.6	8.3	14	5.0	<1.0	1.0	7182006
Dissolved Uranium (U)	ug/L	24	0.10	5.7	5.6	<0.50	0.50	9.0	0.10	7182006
Dissolved Vanadium (V)	ug/L	0.63	0.50	<2.5	<2.5	<2.5	2.5	1.0	0.50	7182006
Dissolved Zinc (Zn)	ug/L	210	5.0	<25	<25	<25	25	320	5.0	7182006
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB183		OSB192	OSB193		OSB194		OSB195		
Sampling Date		2021/01/26		2021/01/26	2021/01/26		2021/01/26		2021/01/26		
COC Number		808571-06-01		808571-07-01	808571-07-01		808571-07-01		808571-07-01		
	UNITS	2-II	RDL	P1-I	P1-II	RDL	P1-III	RDL	4-III	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	4.9	4.9	36	31	25	5.8	4.9	91	25	7182006
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	0.51	0.50	<2.5	2.5	7182006
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
Dissolved Barium (Ba)	ug/L	29	2.0	24	26	10	39	2.0	17	10	7182006
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	<2.0	2.0	<0.40	0.40	<2.0	2.0	7182006
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
Dissolved Boron (B)	ug/L	88	10	990	960	50	510	10	180	50	7182006
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	<0.45	0.45	<0.090	0.090	<0.45	0.45	7182006
Dissolved Calcium (Ca)	ug/L	230000	200	720000	550000	1000	140000	200	39000	1000	7182006
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	<25	25	<5.0	5.0	<25	25	7182006
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7182006
Dissolved Copper (Cu)	ug/L	1.3	0.90	<4.5	<4.5	4.5	1.1	0.90	<4.5	4.5	7182006
Dissolved Iron (Fe)	ug/L	<100	100	<500	<500	500	<100	100	<500	500	7182006
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7182006
Dissolved Lithium (Li)	ug/L	19	5.0	150	140	25	34	5.0	<25	25	7182006
Dissolved Magnesium (Mg)	ug/L	46000	50	71000	70000	250	71000	50	<250	250	7182006
Dissolved Manganese (Mn)	ug/L	9.1	2.0	39	42	10	66	2.0	<10	10	7182006
Dissolved Molybdenum (Mo)	ug/L	5.9	0.50	<2.5	<2.5	2.5	5.1	0.50	33	2.5	7182006
Dissolved Nickel (Ni)	ug/L	11	1.0	<5.0	<5.0	5.0	1.7	1.0	6.6	5.0	7182006
Dissolved Phosphorus (P)	ug/L	<100	100	<500	<500	500	<100	100	<500	500	7182006
Dissolved Potassium (K)	ug/L	4700	200	56000	56000	1000	8400	200	65000	1000	7182006
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	<10	10	16	2.0	<10	10	7182006
Dissolved Silicon (Si)	ug/L	3300	50	7300	6200	250	11000	50	13000	250	7182006
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	<0.45	0.45	<0.090	0.090	<0.45	0.45	7182006
Dissolved Sodium (Na)	ug/L	230000	100	780000	790000	500	43000	100	310000	500	7182006
Dissolved Strontium (Sr)	ug/L	2000	1.0	7100	7300	5.0	1100	1.0	830	5.0	7182006
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	<0.25	0.25	<0.050	0.050	<0.25	0.25	7182006
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	<25	25	<5.0	5.0	<25	25	7182006
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	9.1	5.0	7182006
Dissolved Uranium (U)	ug/L	8.3	0.10	<0.50	<0.50	0.50	3.7	0.10	<0.50	0.50	7182006
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	1.4	0.50	<2.5	2.5	7182006
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<25	<25	25	69	5.0	<25	25	7182006
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB196			OSB197	OSB197		
Sampling Date		2021/01/26			2021/01/26	2021/01/26		
COC Number		808571-07-01			808571-07-01	808571-07-01		
	UNITS	P11-I	RDL	QC Batch	P11-III	P11-III Lab-Dup	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<25	25	7182006	<4.9	<4.9	4.9	7182873
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	7182006	0.55	<0.50	0.50	7182873
Dissolved Arsenic (As)	ug/L	<5.0	5.0	7182006	2.7	2.6	1.0	7182873
Dissolved Barium (Ba)	ug/L	23	10	7182006	16	17	2.0	7182873
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	7182006	<0.40	<0.40	0.40	7182873
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	7182006	<1.0	<1.0	1.0	7182873
Dissolved Boron (B)	ug/L	1200	50	7182006	170	170	10	7182873
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	7182006	<0.090	<0.090	0.090	7182873
Dissolved Calcium (Ca)	ug/L	730000	1000	7182006	37000	37000	200	7182873
Dissolved Chromium (Cr)	ug/L	<25	25	7182006	<5.0	<5.0	5.0	7182873
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	7182006	<0.50	<0.50	0.50	7182873
Dissolved Copper (Cu)	ug/L	<4.5	4.5	7182006	<0.90	<0.90	0.90	7182873
Dissolved Iron (Fe)	ug/L	<500	500	7182006	<100	<100	100	7182873
Dissolved Lead (Pb)	ug/L	<2.5	2.5	7182006	<0.50	<0.50	0.50	7182873
Dissolved Lithium (Li)	ug/L	270	25	7182006	20	20	5.0	7182873
Dissolved Magnesium (Mg)	ug/L	95000	250	7182006	190	200	50	7182873
Dissolved Manganese (Mn)	ug/L	69	10	7182006	<2.0	<2.0	2.0	7182873
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	7182006	39	37	0.50	7182873
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	7182006	6.5	6.2	1.0	7182873
Dissolved Phosphorus (P)	ug/L	<500	500	7182006	<100	<100	100	7182873
Dissolved Potassium (K)	ug/L	67000	1000	7182006	63000	62000	200	7182873
Dissolved Selenium (Se)	ug/L	<10	10	7182006	<2.0	<2.0	2.0	7182873
Dissolved Silicon (Si)	ug/L	4800	250	7182006	13000	13000	50	7182873
Dissolved Silver (Ag)	ug/L	<0.45	0.45	7182006	<0.090	<0.090	0.090	7182873
Dissolved Sodium (Na)	ug/L	1000000	500	7182006	300000	290000	100	7182873
Dissolved Strontium (Sr)	ug/L	8900	5.0	7182006	880	870	1.0	7182873
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	7182006	<1.0	<1.0	1.0	7182873
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	7182006	<0.050	<0.050	0.050	7182873
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7182006	<1.0	<1.0	1.0	7182873
Dissolved Titanium (Ti)	ug/L	<25	25	7182006	<5.0	<5.0	5.0	7182873
Dissolved Tungsten (W)	ug/L	<5.0	5.0	7182006	9.4	9.5	1.0	7182873
Dissolved Uranium (U)	ug/L	<0.50	0.50	7182006	<0.10	<0.10	0.10	7182873
Dissolved Vanadium (V)	ug/L	<2.5	2.5	7182006	0.54	0.53	0.50	7182873
Dissolved Zinc (Zn)	ug/L	<25	25	7182006	<5.0	<5.0	5.0	7182873
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	7182006	<1.0	<1.0	1.0	7182873
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB099
Sample ID: 42-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/03	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB099 Dup
Sample ID: 42-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai

BV Labs ID: OSB100
Sample ID: 42-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB101
Sample ID: 56-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB102
Sample ID: ST1
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB102 Dup
Sample ID: ST1
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB103
Sample ID: ST2
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB104
Sample ID: 3-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB104 Dup
Sample ID: 3-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB104 Dup
Sample ID: 3-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan

BV Labs ID: OSB105
Sample ID: 57-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB106
Sample ID: 57-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB106 Dup
Sample ID: 57-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB107
Sample ID: 35-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB108
Sample ID: 35-IV
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB174
Sample ID: P9-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB175
Sample ID: P9-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB176
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB176
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB177
Sample ID: 36-IR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB178
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB178
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB178 Dup
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram

BV Labs ID: OSB179
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB180
Sample ID: 36-VR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB180
Sample ID: 36-VR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB180 Dup
Sample ID: 36-VR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha

BV Labs ID: OSB181
Sample ID: P14
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB182
Sample ID: P8-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB182
Sample ID: P8-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB183
Sample ID: 2-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB192
Sample ID: P1-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB192
Sample ID: P1-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB193
Sample ID: P1-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB193 Dup
Sample ID: P1-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu

BV Labs ID: OSB194
Sample ID: P1-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB194
Sample ID: P1-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB195
Sample ID: 4-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB195 Dup
Sample ID: 4-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi

BV Labs ID: OSB196
Sample ID: P11-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB196
Sample ID: P11-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB197
Sample ID: P11-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173346	N/A	2021/02/04	Anastassia Hamanov
Lab Filtered Metals by ICPMS	ICP/MS	7182873	2021/02/03	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB197 Dup
Sample ID: P11-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Lab Filtered Metals by ICPMS	ICP/MS	7182873	2021/02/03	2021/02/04	Nan Raykha



GENERAL COMMENTS

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

Package 1	-0.3°C
Package 2	-1.0°C
Package 3	-1.0°C
Package 4	-0.7°C
Package 5	0.3°C
Package 6	0.3°C

Revised Report (2021/02/24): One sample name has been amended to 42-III as per client's request.

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

Sample OSB099 [42-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSB100 [42-II] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSB102 [ST1] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB103 [ST2] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB104 [3-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB105 [57-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB107 [35-III] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB108 [35-IV] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB174 [P9-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB175 [P9-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB176 [P9-IIIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB177 [36-IR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB178 [36-IIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB180 [36-VR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB181 [P14] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB182 [P8-II] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.



Sample OSB183 [2-II] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB192 [P1-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB193 [P1-II] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB194 [P1-III] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB195 [4-III] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB196 [P11-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB197 [P11-III] : ortho-Phosphate > Total Phosphorus: 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 #: C123457

Report Date: 2021/02/24

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
7182006	Dissolved Aluminum (Al)	2021/02/03	NC	80 - 120	105	80 - 120	<4.9	ug/L	5.3	20		
7182006	Dissolved Antimony (Sb)	2021/02/03	107	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7182006	Dissolved Arsenic (As)	2021/02/03	102	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7182006	Dissolved Barium (Ba)	2021/02/03	101	80 - 120	100	80 - 120	<2.0	ug/L	0.82	20		
7182006	Dissolved Beryllium (Be)	2021/02/03	103	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7182006	Dissolved Bismuth (Bi)	2021/02/03	78 (1)	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7182006	Dissolved Boron (B)	2021/02/03	NC	80 - 120	95	80 - 120	<10	ug/L	3.3	20		
7182006	Dissolved Cadmium (Cd)	2021/02/03	102	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7182006	Dissolved Calcium (Ca)	2021/02/03	NC	80 - 120	103	80 - 120	<200	ug/L	2.3	20		
7182006	Dissolved Chromium (Cr)	2021/02/03	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182006	Dissolved Cobalt (Co)	2021/02/03	101	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7182006	Dissolved Copper (Cu)	2021/02/03	101	80 - 120	105	80 - 120	<0.90	ug/L	NC	20		
7182006	Dissolved Iron (Fe)	2021/02/03	100	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7182006	Dissolved Lead (Pb)	2021/02/03	97	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7182006	Dissolved Lithium (Li)	2021/02/03	109	80 - 120	102	80 - 120	<5.0	ug/L	2.4	20		
7182006	Dissolved Magnesium (Mg)	2021/02/03	NC	80 - 120	103	80 - 120	<50	ug/L	0.30	20		
7182006	Dissolved Manganese (Mn)	2021/02/03	100	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7182006	Dissolved Molybdenum (Mo)	2021/02/03	107	80 - 120	101	80 - 120	<0.50	ug/L	7.7	20		
7182006	Dissolved Nickel (Ni)	2021/02/03	98	80 - 120	95	80 - 120	<1.0	ug/L	17	20		
7182006	Dissolved Phosphorus (P)	2021/02/03	114	80 - 120	122 (1)	80 - 120	<100	ug/L	NC	20		
7182006	Dissolved Potassium (K)	2021/02/03	NC	80 - 120	104	80 - 120	<200	ug/L	2.2	20		
7182006	Dissolved Selenium (Se)	2021/02/03	75 (1)	80 - 120	97	80 - 120	<2.0	ug/L	NC	20		
7182006	Dissolved Silicon (Si)	2021/02/03	107	80 - 120	105	80 - 120	<50	ug/L	1.8	20		
7182006	Dissolved Silver (Ag)	2021/02/03	72 (1)	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
7182006	Dissolved Sodium (Na)	2021/02/03	NC	80 - 120	101	80 - 120	<100	ug/L	1.3	20		
7182006	Dissolved Strontium (Sr)	2021/02/03	NC	80 - 120	94	80 - 120	<1.0	ug/L	1.4	20		
7182006	Dissolved Tellurium (Te)	2021/02/03	60 (1)	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7182006	Dissolved Thallium (Tl)	2021/02/03	98	80 - 120	96	80 - 120	<0.050	ug/L	NC	20		
7182006	Dissolved Tin (Sn)	2021/02/03	105	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7182006	Dissolved Titanium (Ti)	2021/02/03	103	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7182006	Dissolved Tungsten (W)	2021/02/03	103	80 - 120	100	80 - 120	<1.0	ug/L	3.4	20		



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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
7182006	Dissolved Uranium (U)	2021/02/03	100	80 - 120	95	80 - 120	<0.10	ug/L	1.1	20		
7182006	Dissolved Vanadium (V)	2021/02/03	103	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7182006	Dissolved Zinc (Zn)	2021/02/03	99	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7182006	Dissolved Zirconium (Zr)	2021/02/03	108	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7182010	Phenols-4AAP	2021/02/03	103	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7182014	Dissolved Aluminum (Al)	2021/02/04	109	80 - 120	107	80 - 120	<4.9	ug/L	4.3	20		
7182014	Dissolved Antimony (Sb)	2021/02/04	107	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Arsenic (As)	2021/02/04	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Barium (Ba)	2021/02/04	105	80 - 120	105	80 - 120	<2.0	ug/L	3.8	20		
7182014	Dissolved Beryllium (Be)	2021/02/04	113	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7182014	Dissolved Bismuth (Bi)	2021/02/04	95	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Boron (B)	2021/02/04	NC	80 - 120	98	80 - 120	<10	ug/L	0.0039	20		
7182014	Dissolved Cadmium (Cd)	2021/02/04	102	80 - 120	104	80 - 120	<0.090	ug/L	NC	20		
7182014	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	104	80 - 120	<200	ug/L	2.5	20		
7182014	Dissolved Chromium (Cr)	2021/02/04	100	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7182014	Dissolved Cobalt (Co)	2021/02/04	103	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Copper (Cu)	2021/02/04	103	80 - 120	101	80 - 120	<0.90	ug/L	NC	20		
7182014	Dissolved Iron (Fe)	2021/02/04	100	80 - 120	98	80 - 120	<100	ug/L	0.033	20		
7182014	Dissolved Lead (Pb)	2021/02/04	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Lithium (Li)	2021/02/04	109	80 - 120	104	80 - 120	<5.0	ug/L	1.6	20		
7182014	Dissolved Magnesium (Mg)	2021/02/04	NC	80 - 120	104	80 - 120	<50	ug/L	2.2	20		
7182014	Dissolved Manganese (Mn)	2021/02/04	101	80 - 120	102	80 - 120	<2.0	ug/L	0.11	20		
7182014	Dissolved Molybdenum (Mo)	2021/02/04	104	80 - 120	103	80 - 120	<0.50	ug/L	1.1	20		
7182014	Dissolved Nickel (Ni)	2021/02/04	98	80 - 120	99	80 - 120	<1.0	ug/L	6.2	20		
7182014	Dissolved Phosphorus (P)	2021/02/04	103	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7182014	Dissolved Potassium (K)	2021/02/04	101	80 - 120	106	80 - 120	<200	ug/L	1.5	20		
7182014	Dissolved Selenium (Se)	2021/02/04	107	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7182014	Dissolved Silicon (Si)	2021/02/04	109	80 - 120	104	80 - 120	<50	ug/L	5.1	20		
7182014	Dissolved Silver (Ag)	2021/02/04	85	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7182014	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	102	80 - 120	<100	ug/L	2.5	20		
7182014	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	102	80 - 120	<1.0	ug/L	0.89	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
7182014	Dissolved Tellurium (Te)	2021/02/04	100	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Thallium (Tl)	2021/02/04	100	80 - 120	103	80 - 120	<0.050	ug/L	NC	20		
7182014	Dissolved Tin (Sn)	2021/02/04	108	80 - 120	107	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Titanium (Ti)	2021/02/04	106	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
7182014	Dissolved Tungsten (W)	2021/02/04	106	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Uranium (U)	2021/02/04	101	80 - 120	96	80 - 120	<0.10	ug/L	3.2	20		
7182014	Dissolved Vanadium (V)	2021/02/04	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Zinc (Zn)	2021/02/04	99	80 - 120	101	80 - 120	<5.0	ug/L	3.8	20		
7182014	Dissolved Zirconium (Zr)	2021/02/04	111	80 - 120	109	80 - 120	<1.0	ug/L	NC	20		
7182020	Phenols-4AAP	2021/02/04	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7182092	Total Ammonia-N	2021/02/03	NC	75 - 125	99	80 - 120	<0.050	mg/L	12	20		
7182094	Total Kjeldahl Nitrogen (TKN)	2021/02/03	108	80 - 120	102	80 - 120	<0.10	mg/L	4.3	20	101	80 - 120
7182095	Total Organic Carbon (TOC)	2021/02/03	96	80 - 120	98	80 - 120	<0.40	mg/L	0.53	20		
7182123	Total Ammonia-N	2021/02/03	90	75 - 125	99	80 - 120	<0.050	mg/L	0.027	20		
7182126	Total Kjeldahl Nitrogen (TKN)	2021/02/03	NC	80 - 120	100	80 - 120	<0.10	mg/L	5.6	20	102	80 - 120
7182127	Total Organic Carbon (TOC)	2021/02/03	NC	80 - 120	98	80 - 120	<0.40	mg/L	1.5	20		
7182281	Orthophosphate (P)	2021/02/03	100	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7182282	Nitrate (N)	2021/02/03	100	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
7182282	Nitrite (N)	2021/02/03	107	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7182305	Dissolved Bromide (Br-)	2021/02/03	117	80 - 120	109	80 - 120	<1.0	mg/L	NC	20		
7182305	Dissolved Chloride (Cl-)	2021/02/03	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.20	20		
7182305	Dissolved Sulphate (SO4)	2021/02/03	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.46	20		
7182306	Alkalinity (Total as CaCO3)	2021/02/03			98	85 - 115	<1.0	mg/L	0.60	20		
7182307	pH	2021/02/03			101	98 - 103			0.30	N/A		
7182308	Conductivity	2021/02/03			100	85 - 115	<1.0	umho/cm	0	25		
7182309	Fluoride (F-)	2021/02/03	103	80 - 120	103	80 - 120	<0.10	mg/L	11	20		
7182318	Total Dissolved Solids	2021/02/04					<10	mg/L	4.6	25	102	90 - 110
7182333	Total Dissolved Solids	2021/02/04					<10	mg/L	0.34	25	98	90 - 110
7182444	Orthophosphate (P)	2021/02/03	95	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7182447	Nitrate (N)	2021/02/03	97	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		



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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
7182447	Nitrite (N)	2021/02/03	106	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7182448	Dissolved Bromide (Br-)	2021/02/03	117	80 - 120	109	80 - 120	<1.0	mg/L	NC	20		
7182448	Dissolved Chloride (Cl-)	2021/02/03	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.19	20		
7182448	Dissolved Sulphate (SO4)	2021/02/03	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.27	20		
7182455	Alkalinity (Total as CaCO3)	2021/02/03			98	85 - 115	<1.0	mg/L	0.79	20		
7182456	pH	2021/02/03			101	98 - 103			0.47	N/A		
7182457	Conductivity	2021/02/03			100	85 - 115	<1.0	umho/cm	0.35	25		
7182459	Fluoride (F-)	2021/02/03	95	80 - 120	101	80 - 120	<0.10	mg/L	2.4	20		
7182873	Dissolved Aluminum (Al)	2021/02/04	104	80 - 120	98	80 - 120	<4.9	ug/L	NC	20		
7182873	Dissolved Antimony (Sb)	2021/02/04	107	80 - 120	102	80 - 120	<0.50	ug/L	9.2	20		
7182873	Dissolved Arsenic (As)	2021/02/04	103	80 - 120	100	80 - 120	<1.0	ug/L	4.8	20		
7182873	Dissolved Barium (Ba)	2021/02/04	103	80 - 120	100	80 - 120	<2.0	ug/L	1.8	20		
7182873	Dissolved Beryllium (Be)	2021/02/04	103	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7182873	Dissolved Bismuth (Bi)	2021/02/04	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7182873	Dissolved Boron (B)	2021/02/04	96	80 - 120	94	80 - 120	<10	ug/L	0.90	20		
7182873	Dissolved Cadmium (Cd)	2021/02/04	101	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7182873	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	98	80 - 120	<200	ug/L	1.6	20		
7182873	Dissolved Chromium (Cr)	2021/02/04	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182873	Dissolved Cobalt (Co)	2021/02/04	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7182873	Dissolved Copper (Cu)	2021/02/04	103	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7182873	Dissolved Iron (Fe)	2021/02/04	100	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7182873	Dissolved Lead (Pb)	2021/02/04	102	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7182873	Dissolved Lithium (Li)	2021/02/04	105	80 - 120	102	80 - 120	<5.0	ug/L	1.0	20		
7182873	Dissolved Magnesium (Mg)	2021/02/04	101	80 - 120	99	80 - 120	<50	ug/L	3.2	20		
7182873	Dissolved Manganese (Mn)	2021/02/04	100	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
7182873	Dissolved Molybdenum (Mo)	2021/02/04	108	80 - 120	101	80 - 120	<0.50	ug/L	5.4	20		
7182873	Dissolved Nickel (Ni)	2021/02/04	99	80 - 120	99	80 - 120	<1.0	ug/L	4.8	20		
7182873	Dissolved Phosphorus (P)	2021/02/04	108	80 - 120	112	80 - 120	<100	ug/L	NC	20		
7182873	Dissolved Potassium (K)	2021/02/04	NC	80 - 120	97	80 - 120	<200	ug/L	1.8	20		
7182873	Dissolved Selenium (Se)	2021/02/04	98	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
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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
7182873	Dissolved Silicon (Si)	2021/02/04	109	80 - 120	100	80 - 120	<50	ug/L	2.3	20		
7182873	Dissolved Silver (Ag)	2021/02/04	87	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7182873	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	97	80 - 120	<100	ug/L	0.57	20		
7182873	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	100	80 - 120	<1.0	ug/L	1.8	20		
7182873	Dissolved Tellurium (Te)	2021/02/04	100	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7182873	Dissolved Thallium (Tl)	2021/02/04	102	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
7182873	Dissolved Tin (Sn)	2021/02/04	109	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7182873	Dissolved Titanium (Ti)	2021/02/04	104	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182873	Dissolved Tungsten (W)	2021/02/04	106	80 - 120	102	80 - 120	<1.0	ug/L	1.6	20		
7182873	Dissolved Uranium (U)	2021/02/04	102	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
7182873	Dissolved Vanadium (V)	2021/02/04	104	80 - 120	99	80 - 120	<0.50	ug/L	3.4	20		
7182873	Dissolved Zinc (Zn)	2021/02/04	100	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
7182873	Dissolved Zirconium (Zr)	2021/02/04	109	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		

N/A = Not Applicable

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

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

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

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

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

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

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

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



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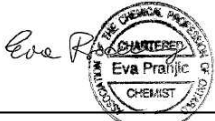
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Sampler Initials: BM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

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: <u>Brad Mullin - GHD Reporting</u>	Quotation #: B60569	BV Labs Job #:	Bottle Order #:	COC #:			Project Manager:
Attention: Accounting	Attention: <u>Brad Mullin - GHD Reporting</u>	P.O. #:	COC #:		COC #:			Jolanta Goralczyk
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: GW	COC #:		COC #:			
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name: <u>GW</u>	COC #:		COC #:			
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:	COC #:		COC #:			
		Sampled By:	COC #:		COC #:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects				
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle): Metals / Hg / Cr / V	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	
	P9-I P9-I	21/01/26	AM	GW	Y	✓												6		
	P9-II P9-II			GW	Y	✓												6		
	P9-III P9-III			GW	Y	✓												6		
	36-IR 36-IR			GW	Y	✓												6		
	36-IR 36-IR			GW	Y	✓												6		
	36-IV 36-IV			GW	Y	✓												6		
	36-IV 36-IV			GW	Y	✓												6		
	P14 P14			GW	Y	✓												6		
	P8-II P8-II			GW	Y	✓												6		
	2-II 2-II			GW	Y	✓												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				
	21/01/27	AM	See page 1		15:24		Time Sensitive	Temperature (°C) on Receil	Custody Seal Present	Yes	No
								ACTR	Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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

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

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

White: BV Labs Yellow: Client

ON 126



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. #:	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: Fax:	Project: GW	Project Name: GW	COC #:	Project Manager:
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com			Site #:	Sampled By:	C#605691-07-01	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 / 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.	Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)
Table 1	Res/Park	Medium/Fine	CCME	Sanitary Sewer Bylaw											
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
Include Criteria on Certificate of Analysis (Y/N)? _____															
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	List "A"								# of Bottles	Comments
	P1-I	2/10/26	AM	GW	Y	✓								6	
	P1-II	↓	↓	GW	Y	✓								6	
	P1-III	↓	↓	GW	Y	✓								6	
	4-III	↓	↓	GW	Y	✓								6	
	P11-I	↓	↓	GW	Y	✓								6	
	P11-III	↓	↓	GW	Y	✓								6	
				GW											
				GW											
				GW											
				GW											

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	2/10/27	AM	See page 1				Time Sensitive	Temperature (°C) on Receipt	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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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 #:	Bottle Order #:	808571		
Attention: Accounting	Attention:	P.O. #:	COC #:	Project Manager:			Jolanta Goralczyk
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: GW	C#808571-12-01				
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name: GHD					
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:					
		Sampled By:					

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY			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	Field Filtered (please circle): Metals / Hg / Cr / V List "A" - GW Monitoring add phone to report C123457		<input checked="" type="checkbox"/>	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw			<input type="checkbox"/>	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____			<input type="checkbox"/>	
<input type="checkbox"/> Table _____	<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table _____	<input type="checkbox"/> Other _____	<input type="checkbox"/>			<input type="checkbox"/>	
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 / V	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	Analysis Requested	# of Bottles	Comments
1	57-II	21/01/28	Pm	GW	N/A														1	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

27-Jan-21 15:24
Jolanta Goralczyk
C123457
URE ENV-1355

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>		21/01/29	AM	<i>[Signature]</i>		20/01/29	15:20		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
										5°C HCTR	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

Attention: Brad Mullin - GHD Reporting

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

Your C.O.C. #: 808253-07-01, 808253-08-01, 808253-09-01

Report Date: 2021/02/05
Report #: R6507518
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C124617

Received: 2021/01/28, 15:15

Sample Matrix: Water
Samples Received: 30

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	30	N/A	2021/02/03	CAM SOP-00448	SM 23 2320 B m
Anions	30	N/A	2021/02/03	CAM SOP-00435	SM 23 4110 B m
Conductivity	30	N/A	2021/02/03	CAM SOP-00414	SM 23 2510 m
Fluoride	30	2021/02/03	2021/02/03	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	30	N/A	2021/02/04	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	20	N/A	2021/02/03	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	10	N/A	2021/02/04	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	10	N/A	2021/02/03	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	20	N/A	2021/02/04	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	30	N/A	2021/02/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	30	2021/02/03	2021/02/03	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	23	N/A	2021/02/03	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	7	N/A	2021/02/04	CAM SOP-00444	OMOE E3179 m
Orthophosphate	30	N/A	2021/02/03	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	30	2021/02/03	2021/02/04	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	6	2021/02/03	2021/02/03	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	24	2021/02/03	2021/02/04	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	30	N/A	2021/02/03	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

Attention: Brad Mullin - GHD Reporting

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

Your C.O.C. #: 808253-07-01, 808253-08-01, 808253-09-01

Report Date: 2021/02/05
Report #: R6507518
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C124617

Received: 2021/01/28, 15:15

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas Laboratories

05 Feb 2021 17:37:42

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

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

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

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BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH600				OSH600				OSH601			
Sampling Date		2021/01/27				2021/01/27				2021/01/27			
COC Number		808253-07-01				808253-07-01				808253-07-01			
	UNITS	40-I	RDL	QC Batch	40-I Lab-Dup	RDL	QC Batch	40-II	RDL	QC Batch			
Calculated Parameters													
Hardness (CaCO3)	mg/L	1900	1.0	7173116				1100	1.0	7173116			
Inorganics													
Total Ammonia-N	mg/L	3.4	0.050	7182104				4.5	0.050	7182104			
Conductivity	umho/cm	4300	1.0	7182072				3000	1.0	7182072			
Total Dissolved Solids	mg/L	3320	10	7182334	3380	10	7182334	2070	10	7182334			
Fluoride (F-)	mg/L	1.0	0.10	7182073				1.0	0.10	7182073			
Total Kjeldahl Nitrogen (TKN)	mg/L	3.9	0.10	7182108				4.8	0.10	7182108			
Total Organic Carbon (TOC)	mg/L	3.6	0.40	7182109				3.1	0.40	7182109			
Orthophosphate (P)	mg/L	<0.010	0.010	7182051				<0.010	0.010	7182051			
pH	pH	7.79		7182071				7.81		7182071			
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047	<0.0010	0.0010	7182047	<0.0010	0.0010	7182047			
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7182067				230	1.0	7182067			
Nitrite (N)	mg/L	0.056	0.010	7182061				<0.010	0.010	7182061			
Dissolved Chloride (Cl-)	mg/L	480	10	7182066				400	5.0	7182066			
Nitrate (N)	mg/L	1.38	0.10	7182061				<0.10	0.10	7182061			
Nitrate + Nitrite (N)	mg/L	1.44	0.10	7182061				<0.10	0.10	7182061			
Dissolved Bromide (Br-)	mg/L	<10	10	7182066				<5.0	5.0	7182066			
Dissolved Sulphate (SO4)	mg/L	1600	10	7182066				810	5.0	7182066			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate													



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH602		OSH603			OSH604		
Sampling Date		2021/01/27		2021/01/27			2021/01/27		
COC Number		808253-07-01		808253-07-01			808253-07-01		
	UNITS	40-III	RDL	29-I	RDL	QC Batch	29-II	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	1400	1.0	2100	1.0	7173116	980	1.0	7173116
Inorganics									
Total Ammonia-N	mg/L	2.7	0.050	13	0.050	7182104	0.67	0.050	7182123
Conductivity	umho/cm	3300	1.0	5300	1.0	7182072	2800	1.0	7182072
Total Dissolved Solids	mg/L	2480	10	3770	10	7182334	1900	10	7182334
Fluoride (F ⁻)	mg/L	1.0	0.10	1.1	0.10	7182073	0.83	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	3.0	0.10	13	1.0	7182108	1.4	0.10	7182126
Total Organic Carbon (TOC)	mg/L	3.3	0.40	6.2	0.40	7182109	6.7	0.40	7182127
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	7182051	0.011	0.010	7182051
pH	pH	7.88		7.72		7182071	7.91		7182071
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	0.0010	7182047	<0.0010	0.0010	7182047
Alkalinity (Total as CaCO ₃)	mg/L	220	1.0	180	1.0	7182067	160	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.010	0.016	0.010	7182061	0.018	0.010	7182061
Dissolved Chloride (Cl ⁻)	mg/L	460	5.0	800	10	7182066	350	5.0	7182066
Nitrate (N)	mg/L	0.21	0.10	<0.10	0.10	7182061	<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	0.21	0.10	<0.10	0.10	7182061	<0.10	0.10	7182061
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	<10	10	7182066	<5.0	5.0	7182066
Dissolved Sulphate (SO ₄)	mg/L	910	5.0	1700	10	7182066	810	5.0	7182066
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH605	OSH606			OSH607		OSH608		
Sampling Date		2021/01/27	2021/01/27			2021/01/27		2021/01/27		
COC Number		808253-07-01	808253-07-01			808253-07-01		808253-07-01		
	UNITS	29-IV	12-I	RDL	QC Batch	12-IV	QC Batch	14-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	2000	1.0	7173116	1100	7173116	850	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	15	12	0.050	7182104	4.6	7182123	<0.050	0.050	7182104
Conductivity	umho/cm	5100	5300	1.0	7182072	3000	7182072	1600	1.0	7182072
Total Dissolved Solids	mg/L	3650	3690	10	7182334	1950	7182334	1030	10	7182334
Fluoride (F-)	mg/L	1.2	1.1	0.10	7182073	1.0	7182073	0.27	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	15	13	1.0	7182108	4.8	7182126	0.16	0.10	7182108
Total Organic Carbon (TOC)	mg/L	5.8	6.2	0.40	7182109	3.1	7182127	1.6	0.40	7182109
Orthophosphate (P)	mg/L	<0.010	<0.010	0.010	7182051	<0.010	7182051	0.012	0.010	7182051
pH	pH	7.74	7.76		7182071	7.85	7182071	7.98		7182071
Phenols-4AAP	mg/L	<0.0010	<0.0010	0.0010	7182047	<0.0010	7182047	<0.0010	0.0010	7182047
Alkalinity (Total as CaCO3)	mg/L	180	170	1.0	7182067	220	7182067	400	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.013	0.010	7182061	<0.010	7182061	<0.010	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	750	820	10	7182066	400	7182066	78	5.0	7182066
Nitrate (N)	mg/L	<0.10	0.20	0.10	7182061	<0.10	7182061	<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.21	0.10	7182061	<0.10	7182061	<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<10	<10	10	7182066	<5.0	7182066	<5.0	5.0	7182066
Dissolved Sulphate (SO4)	mg/L	1600	1700	10	7182066	800	7182066	390	5.0	7182066

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH609			OSH618		OSH619		
Sampling Date		2021/01/27			2021/01/27		2021/01/27		
COC Number		808253-07-01			808253-08-01		808253-08-01		
	UNITS	45-I	RDL	QC Batch	45-II	RDL	76-I	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	450	1.0	7173116	570	1.0	40000	1.0	7173116
Inorganics									
Total Ammonia-N	mg/L	0.077	0.050	7182104	0.33	0.050	37	0.25	7182104
Conductivity	umho/cm	870	1.0	7182072	1500	1.0	>100000	1.0	7182072
Total Dissolved Solids	mg/L	500	10	7182334	905	10	94800	20	7182334
Fluoride (F ⁻)	mg/L	0.22	0.10	7182073	0.23	0.10	0.16	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	0.18	0.10	7182108	0.44	0.10	38	1.0	7182108
Total Organic Carbon (TOC)	mg/L	0.93	0.40	7182109	1.4	0.40	5.9	0.40	7182109
Orthophosphate (P)	mg/L	<0.010	0.010	7182051	<0.010	0.010	<0.50 (1)	0.50	7182051
pH	pH	7.95		7182071	7.83		6.89		7182071
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047	<0.0010	0.0010	0.0032	0.0020	7182020
Alkalinity (Total as CaCO ₃)	mg/L	300	1.0	7182067	320	1.0	130	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.010	7182061	<0.010	0.010	<0.20	0.20	7182061
Dissolved Chloride (Cl ⁻)	mg/L	40	1.0	7182066	220	5.0	53000	500	7182066
Nitrate (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	<2.0	2.0	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	<2.0	2.0	7182061
Dissolved Bromide (Br ⁻)	mg/L	<1.0	1.0	7182066	<5.0	5.0	640	50	7182066
Dissolved Sulphate (SO ₄)	mg/L	100	1.0	7182066	140	5.0	1000	50	7182066
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.									



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH620			OSH621			OSH621		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-08-01			808253-08-01			808253-08-01		
	UNITS	76-II	RDL	QC Batch	76-III	RDL	QC Batch	76-III Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	470	1.0	7173116	430	1.0	7173116			
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7182104	<0.050	0.050	7182104			
Conductivity	umho/cm	1900	1.0	7182072	1600	1.0	7182308			
Total Dissolved Solids	mg/L	1070	10	7182334	900	10	7182334			
Fluoride (F-)	mg/L	0.26	0.10	7182073	0.26	0.10	7182309			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.20	0.10	7182108	0.21	0.10	7182108	0.23	0.10	7182108
Total Organic Carbon (TOC)	mg/L	3.4	0.40	7182109	4.7	0.40	7182109			
Orthophosphate (P)	mg/L	<0.010	0.010	7182051	0.010	0.010	7182281			
pH	pH	7.89		7182071	7.73		7182307			
Phenols-4AAP	mg/L	<0.0010	0.0010	7182020	<0.0010	0.0010	7182020			
Alkalinity (Total as CaCO3)	mg/L	470	1.0	7182067	420	1.0	7182306			
Nitrite (N)	mg/L	<0.010	0.010	7182061	<0.010	0.010	7182282			
Dissolved Chloride (Cl-)	mg/L	160	5.0	7182066	130	1.0	7182305			
Nitrate (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182282			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182282			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7182066	<1.0	1.0	7182305			
Dissolved Sulphate (SO4)	mg/L	260	5.0	7182066	230	1.0	7182305			

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH622			OSH622			OSH623		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-08-01			808253-08-01			808253-08-01		
	UNITS	44-I	RDL	QC Batch	44-I Lab-Dup	RDL	QC Batch	44-II	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	860	1.0	7173116				440	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	1.7	0.050	7182123				<0.050	0.050	7182104
Conductivity	umho/cm	2600	1.0	7182072	2600	1.0	7182072	880	1.0	7182072
Total Dissolved Solids	mg/L	1750	10	7182334				535	10	7182334
Fluoride (F-)	mg/L	0.50	0.10	7182073	0.49	0.10	7182073	0.24	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	1.8	0.10	7182126				0.15	0.10	7182108
Total Organic Carbon (TOC)	mg/L	1.7	0.40	7182127				2.1	0.40	7182109
Orthophosphate (P)	mg/L	0.012	0.010	7182051	0.012	0.010	7182051	<0.010	0.010	7182051
pH	pH	7.66		7182071	7.66		7182071	7.95		7182071
Phenols-4AAP	mg/L	<0.0010	0.0010	7182020				<0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	360	1.0	7182067	370	1.0	7182067	260	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.010	7182061	<0.010	0.010	7182061	<0.010	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	310	5.0	7182066	310	5.0	7182066	34	1.0	7182066
Nitrate (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182061	<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182061	<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7182066	<5.0	5.0	7182066	<1.0	1.0	7182066
Dissolved Sulphate (SO4)	mg/L	580	5.0	7182066	580	5.0	7182066	150	1.0	7182066
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH624			OSH624			OSH625		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-08-01			808253-08-01			808253-08-01		
	UNITS	49-II	RDL	QC Batch	49-II Lab-Dup	RDL	QC Batch	49-IV	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1100	1.0	7173116				1900	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	0.36	0.050	7182104	0.34	0.050	7182104	1.3	0.050	7182104
Conductivity	umho/cm	3700	1.0	7182072				3700	1.0	7182072
Total Dissolved Solids	mg/L	2260	10	7182334				3020	10	7182334
Fluoride (F-)	mg/L	1.3	0.10	7182073				1.3	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	0.44	0.10	7182108				1.6	0.10	7182108
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7182109				3.9	0.40	7182109
Orthophosphate (P)	mg/L	<0.010	0.010	7182051				0.018	0.010	7182051
pH	pH	7.71		7182071				7.75		7182071
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047				<0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7182067				350	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.010	7182061				<0.010	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	730	10	7182066				210	10	7182066
Nitrate (N)	mg/L	<0.10	0.10	7182061				<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061				<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<10	10	7182066				<10	10	7182066
Dissolved Sulphate (SO4)	mg/L	580	10	7182066				1700	10	7182066
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH626			OSH627			OSH681		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-08-01			808253-08-01			808253-09-01		
	UNITS	49-V	RDL	QC Batch	46-IR	RDL	QC Batch	46-IIR	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	7173116	1900	1.0	7173116	790	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	1.5	0.050	7182104	34 (1)	0.25	7182123	0.24	0.050	7182123
Conductivity	umho/cm	3900	1.0	7182072	7000	1.0	7182308	2200	1.0	7182308
Total Dissolved Solids	mg/L	3160	10	7182334	4910	20	7182334	1490	10	7182333
Fluoride (F-)	mg/L	1.3	0.10	7182073	1.0	0.10	7182309	0.42	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	1.7	0.10	7182108	32 (1)	2.0	7182126	0.41	0.10	7182126
Total Organic Carbon (TOC)	mg/L	3.0	0.40	7182109	7.4	0.40	7182127	3.7	0.40	7182127
Orthophosphate (P)	mg/L	<0.50 (2)	0.50	7182051	<0.010	0.010	7182281	<0.010	0.010	7182281
pH	pH	7.57		7182071	7.84		7182307	7.86		7182307
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047	<0.0010	0.0010	7182047	0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	330	1.0	7182067	150	1.0	7182306	150	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182061	<0.010	0.010	7182282	<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	280	10	7182066	1300	20	7182305	270	5.0	7182305
Nitrate (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182282	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182282	<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<10	10	7182066	<20	20	7182305	<5.0	5.0	7182305
Dissolved Sulphate (SO4)	mg/L	1700	10	7182066	1700	20	7182305	590	5.0	7182305
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.										
(2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.										



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH681			OSH682			OSH682		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-09-01			808253-09-01			808253-09-01		
	UNITS	46-IIR Lab-Dup	RDL	QC Batch	46-IIIR	RDL	QC Batch	46-IIIR Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				800	1.0	7173116			
Inorganics										
Total Ammonia-N	mg/L				<0.050	0.050	7182123			
Conductivity	umho/cm				2100	1.0	7182308	2100	1.0	7182308
Total Dissolved Solids	mg/L	1500	10	7182333	1430	10	7182333			
Fluoride (F-)	mg/L				0.17	0.10	7182309	0.15	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L				0.99	0.10	7182126			
Total Organic Carbon (TOC)	mg/L				17	0.40	7182127			
Orthophosphate (P)	mg/L				<0.010	0.010	7182281	<0.010	0.010	7182281
pH	pH				7.62		7182307	7.64		7182307
Phenols-4AAP	mg/L				<0.0010	0.0010	7182047			
Alkalinity (Total as CaCO3)	mg/L				310	1.0	7182306	310	1.0	7182306
Nitrite (N)	mg/L				<0.010	0.010	7182282	<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L				210	5.0	7182305	210	5.0	7182305
Nitrate (N)	mg/L				<0.10	0.10	7182282	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7182282	<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7182305	<5.0	5.0	7182305
Dissolved Sulphate (SO4)	mg/L				510	5.0	7182305	520	5.0	7182305
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH683			OSH683			OSH684		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-09-01			808253-09-01			808253-09-01		
	UNITS	75-I	RDL	QC Batch	75-I Lab-Dup	RDL	QC Batch	75-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2400	1.0	7173116				870	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	6.8	0.050	7182104				28	0.050	7182123
Conductivity	umho/cm	7400	1.0	7182308				5400	1.0	7182308
Total Dissolved Solids	mg/L	5380	20	7182333				3230	10	7182333
Fluoride (F-)	mg/L	0.77	0.10	7182309				1.1	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	7.8	1.0	7182108				28	1.0	7182126
Total Organic Carbon (TOC)	mg/L	2.6	0.40	7182109	2.6	0.40	7182109	8.3	0.40	7182127
Orthophosphate (P)	mg/L	<0.010	0.010	7182281				<0.50 (1)	0.50	7182281
pH	pH	7.59		7182307				7.69		7182307
Phenols-4AAP	mg/L	<0.0010	0.0010	7182020				<0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7182306				170	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182282				<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	1500	50	7182305				1200	20	7182305
Nitrate (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<50	50	7182305				<20	20	7182305
Dissolved Sulphate (SO4)	mg/L	1600	50	7182305				730	20	7182305

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH685		OSH686		OSH687		
Sampling Date		2021/01/27		2021/01/27		2021/01/27		
COC Number		808253-09-01		808253-09-01		808253-09-01		
	UNITS	75-III	RDL	75-IV	RDL	67-I	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO ₃)	mg/L	1100	1.0	1400	1.0	1500	1.0	7173116
Inorganics								
Total Ammonia-N	mg/L	2.1	0.050	5.0	0.050	41 (1)	0.25	7182104
Conductivity	umho/cm	3200	1.0	4300	1.0	6600	1.0	7182308
Total Dissolved Solids	mg/L	2150	10	2930	10	4340	20	7182333
Fluoride (F ⁻)	mg/L	0.30	0.10	0.57	0.10	0.99	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	2.3	0.10	5.4	1.0	39 (1)	2.0	7182108
Total Organic Carbon (TOC)	mg/L	4.9	0.40	7.2	0.40	8.1	0.40	7182109
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	<0.50 (2)	0.50	7182281
pH	pH	7.66		7.70		7.72		7182307
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	0.0010	0.0013	0.0010	7182020
Alkalinity (Total as CaCO ₃)	mg/L	440	1.0	250	1.0	160	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	<0.010	0.010	7182282
Dissolved Chloride (Cl ⁻)	mg/L	510	5.0	870	10	1300	20	7182305
Nitrate (N)	mg/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	7182282
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	<10	10	<20	20	7182305
Dissolved Sulphate (SO ₄)	mg/L	590	5.0	780	10	1300	20	7182305
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.								
(2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.								



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH688				OSH688				OSH689			
Sampling Date		2021/01/27				2021/01/27				2021/01/27			
COC Number		808253-09-01				808253-09-01				808253-09-01			
	UNITS	P15	RDL	QC Batch	P15 Lab-Dup	RDL	QC Batch	4-I	RDL	QC Batch			

Calculated Parameters										
Hardness (CaCO3)	mg/L	150	1.0	7173116				1500	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	170 (1)	1.0	7182123				41 (1)	0.25	7182123
Conductivity	umho/cm	12000	1.0	7182308				6600	1.0	7182072
Total Dissolved Solids	mg/L	6140	20	7182333				4320	20	7182333
Fluoride (F-)	mg/L	3.0	0.10	7182309				1.1	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	160 (1)	5.0	7182126				39 (1)	2.0	7182126
Total Organic Carbon (TOC)	mg/L	49	0.40	7182127	50	0.40	7182127	8.3	0.40	7182127
Orthophosphate (P)	mg/L	0.023	0.010	7182281				<0.50 (2)	0.50	7182051
pH	pH	9.80		7182307				7.72		7182071
Phenols-4AAP	mg/L	0.84	0.050	7182020				<0.0010	0.0010	7182047
Alkalinity (Total as CaCO3)	mg/L	480	1.0	7182306				160	1.0	7182067
Nitrite (N)	mg/L	0.020	0.010	7182282				<0.010	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	3300	20	7182305				1300	20	7182066
Nitrate (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<20	20	7182305				<20	20	7182066
Dissolved Sulphate (SO4)	mg/L	290	20	7182305				1300	20	7182066

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.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH690			OSH690		
Sampling Date		2021/01/27			2021/01/27		
COC Number		808253-09-01			808253-09-01		
	UNITS	2-I	RDL	QC Batch	2-I Lab-Dup	RDL	QC Batch

Calculated Parameters							
Hardness (CaCO3)	mg/L	2400	1.0	7173116			
Inorganics							
Total Ammonia-N	mg/L	6.7	0.050	7182123	6.7	0.050	7182123
Conductivity	umho/cm	7300	1.0	7182072			
Total Dissolved Solids	mg/L	5330	20	7182333			
Fluoride (F-)	mg/L	0.79	0.10	7182073			
Total Kjeldahl Nitrogen (TKN)	mg/L	6.4 (1)	1.0	7182126			
Total Organic Carbon (TOC)	mg/L	2.6	0.40	7182127			
Orthophosphate (P)	mg/L	<0.010	0.010	7182051			
pH	pH	7.65		7182071			
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047			
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7182067			
Nitrite (N)	mg/L	<0.010	0.010	7182061			
Dissolved Chloride (Cl-)	mg/L	1500	20	7182066			
Nitrate (N)	mg/L	<0.10	0.10	7182061			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061			
Dissolved Bromide (Br-)	mg/L	<20	20	7182066			
Dissolved Sulphate (SO4)	mg/L	1600	20	7182066			

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 #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH600		OSH601	OSH601	OSH602		OSH603		
Sampling Date		2021/01/27		2021/01/27	2021/01/27	2021/01/27		2021/01/27		
COC Number		808253-07-01		808253-07-01	808253-07-01	808253-07-01		808253-07-01		
	UNITS	40-I	RDL	40-II	40-II Lab-Dup	40-III	RDL	29-I	RDL	QC Batch

Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	8.1	8.5	13	4.9	<25	25	7182014
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	0.50	<2.5	2.5	7182014
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Barium (Ba)	ug/L	17	10	17	18	21	2.0	25	10	7182014
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	<0.40	<0.40	0.40	<2.0	2.0	7182014
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Boron (B)	ug/L	1200	50	570	570	740	10	1100	50	7182014
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	<0.090	<0.090	0.090	<0.45	0.45	7182014
Dissolved Calcium (Ca)	ug/L	610000	1000	300000	310000	410000	200	680000	1000	7182014
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	<5.0	<5.0	5.0	<25	25	7182014
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	0.50	<2.5	2.5	7182014
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	<0.90	<0.90	0.90	<4.5	4.5	7182014
Dissolved Iron (Fe)	ug/L	660	500	860	860	<100	100	<500	500	7182014
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	0.50	<2.5	2.5	7182014
Dissolved Lithium (Li)	ug/L	120	25	89	87	110	5.0	89	25	7182014
Dissolved Magnesium (Mg)	ug/L	100000	250	77000	79000	92000	50	88000	250	7182014
Dissolved Manganese (Mn)	ug/L	130	10	140	140	140	2.0	190	10	7182014
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	2.3	2.4	3.1	0.50	<2.5	2.5	7182014
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	1.3	1.2	1.5	1.0	<5.0	5.0	7182014
Dissolved Phosphorus (P)	ug/L	<500	500	<100	<100	<100	100	<500	500	7182014
Dissolved Potassium (K)	ug/L	28000	1000	21000	21000	25000	200	38000	1000	7182014
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	<2.0	<2.0	2.0	<10	10	7182014
Dissolved Silicon (Si)	ug/L	4600	250	5300	5600	6000	50	4900	250	7182014
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	<0.090	<0.090	0.090	<0.45	0.45	7182014
Dissolved Sodium (Na)	ug/L	330000	500	260000	260000	330000	100	480000	500	7182014
Dissolved Strontium (Sr)	ug/L	5200	5.0	3700	3700	4500	1.0	5200	5.0	7182014
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	<0.050	<0.050	0.050	<0.25	0.25	7182014
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	<5.0	<5.0	5.0	<25	25	7182014
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Uranium (U)	ug/L	<0.50	0.50	1.4	1.4	1.5	0.10	<0.50	0.50	7182014
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	0.50	<2.5	2.5	7182014
Dissolved Zinc (Zn)	ug/L	<25	25	5.3	5.5	<5.0	5.0	<25	25	7182014
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014

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



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH604		OSH605		OSH606		OSH607			
Sampling Date		2021/01/27		2021/01/27		2021/01/27		2021/01/27			
COC Number		808253-07-01		808253-07-01		808253-07-01		808253-07-01			
	UNITS	29-II	RDL	29-IV	12-I	RDL	QC Batch	12-IV	RDL	QC Batch	
Metals											
Dissolved Aluminum (Al)	ug/L	9.7	4.9	<25	33	25	7182011	6.6	4.9	7182014	
Dissolved Antimony (Sb)	ug/L	2.6	0.50	<2.5	<2.5	2.5	7182011	<0.50	0.50	7182014	
Dissolved Arsenic (As)	ug/L	1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Barium (Ba)	ug/L	43	2.0	26	23	10	7182011	18	2.0	7182014	
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	<2.0	2.0	7182011	<0.40	0.40	7182014	
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Boron (B)	ug/L	440	10	790	1000	50	7182011	540	10	7182014	
Dissolved Cadmium (Cd)	ug/L	0.32	0.090	<0.45	<0.45	0.45	7182011	<0.090	0.090	7182014	
Dissolved Calcium (Ca)	ug/L	280000	200	620000	650000	1000	7182011	320000	200	7182014	
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	<25	25	7182011	<5.0	5.0	7182014	
Dissolved Cobalt (Co)	ug/L	1.6	0.50	<2.5	<2.5	2.5	7182011	<0.50	0.50	7182014	
Dissolved Copper (Cu)	ug/L	5.1	0.90	<4.5	<4.5	4.5	7182011	<0.90	0.90	7182014	
Dissolved Iron (Fe)	ug/L	360	100	<500	<500	500	7182011	840	100	7182014	
Dissolved Lead (Pb)	ug/L	1.8	0.50	<2.5	<2.5	2.5	7182011	<0.50	0.50	7182014	
Dissolved Lithium (Li)	ug/L	41	5.0	71	84	25	7182011	84	5.0	7182014	
Dissolved Magnesium (Mg)	ug/L	68000	50	81000	81000	250	7182011	80000	50	7182014	
Dissolved Manganese (Mn)	ug/L	380	2.0	260	200	10	7182011	140	2.0	7182014	
Dissolved Molybdenum (Mo)	ug/L	32	0.50	<2.5	<2.5	2.5	7182011	2.2	0.50	7182014	
Dissolved Nickel (Ni)	ug/L	9.6	1.0	<5.0	<5.0	5.0	7182011	2.3	1.0	7182014	
Dissolved Phosphorus (P)	ug/L	120	100	<500	<500	500	7182011	<100	100	7182014	
Dissolved Potassium (K)	ug/L	28000	200	35000	36000	1000	7182011	21000	200	7182014	
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	<10	10	7182011	<2.0	2.0	7182014	
Dissolved Silicon (Si)	ug/L	3100	50	6000	4700	250	7182011	5500	50	7182014	
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	<0.45	0.45	7182011	<0.090	0.090	7182014	
Dissolved Sodium (Na)	ug/L	230000	100	460000	470000	500	7182011	270000	100	7182014	
Dissolved Strontium (Sr)	ug/L	2300	1.0	5000	4800	5.0	7182011	3700	1.0	7182014	
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Thallium (Tl)	ug/L	0.16	0.050	<0.25	<0.25	0.25	7182011	<0.050	0.050	7182014	
Dissolved Tin (Sn)	ug/L	6.3	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	<25	25	7182011	<5.0	5.0	7182014	
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Uranium (U)	ug/L	2.5	0.10	<0.50	<0.50	0.50	7182011	1.4	0.10	7182014	
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	7182011	<0.50	0.50	7182014	
Dissolved Zinc (Zn)	ug/L	62	5.0	<25	<25	25	7182011	<5.0	5.0	7182014	
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch											



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH608	OSH609		OSH618		OSH619		
Sampling Date		2021/01/27	2021/01/27		2021/01/27		2021/01/27		
COC Number		808253-07-01	808253-07-01		808253-08-01		808253-08-01		
	UNITS	14-I	45-I	QC Batch	45-II	RDL	76-I	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	7182011	23	4.9	<49	49	7182014
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Barium (Ba)	ug/L	12	49	7182011	40	2.0	110	20	7182014
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	7182011	<0.40	0.40	<4.0	4.0	7182014
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Boron (B)	ug/L	120	39	7182011	67	10	7300	100	7182014
Dissolved Cadmium (Cd)	ug/L	0.80	<0.090	7182011	<0.090	0.090	<0.90	0.90	7182014
Dissolved Calcium (Ca)	ug/L	140000	120000	7182011	150000	200	11000000	10000	7182014
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	7182011	<5.0	5.0	<50	50	7182014
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	7182011	<0.90	0.90	<9.0	9.0	7182014
Dissolved Iron (Fe)	ug/L	<100	<100	7182011	<100	100	<1000	1000	7182014
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Lithium (Li)	ug/L	89	29	7182011	40	5.0	21000	250	7182014
Dissolved Magnesium (Mg)	ug/L	120000	37000	7182011	50000	50	2700000	500	7182014
Dissolved Manganese (Mn)	ug/L	7.8	24	7182011	35	2.0	1400	20	7182014
Dissolved Molybdenum (Mo)	ug/L	1.0	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Nickel (Ni)	ug/L	2.8	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Phosphorus (P)	ug/L	<100	<100	7182011	<100	100	<1000	1000	7182014
Dissolved Potassium (K)	ug/L	4200	2700	7182011	6300	200	320000	2000	7182014
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	7182011	<2.0	2.0	<20	20	7182014
Dissolved Silicon (Si)	ug/L	7600	5200	7182011	4500	50	3700	500	7182014
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	7182011	<0.090	0.090	<0.90	0.90	7182014
Dissolved Sodium (Na)	ug/L	33000	18000	7182011	100000	100	18000000	5000	7182014
Dissolved Strontium (Sr)	ug/L	2300	2200	7182011	1100	1.0	220000	10	7182014
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Thallium (Tl)	ug/L	0.055	<0.050	7182011	<0.050	0.050	<0.50	0.50	7182014
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	7182011	<5.0	5.0	<50	50	7182014
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Uranium (U)	ug/L	12	0.23	7182011	0.77	0.10	<1.0	1.0	7182014
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Zinc (Zn)	ug/L	15	16	7182011	16	5.0	<50	50	7182014
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH620	OSH621		OSH622			OSH623		
Sampling Date		2021/01/27	2021/01/27		2021/01/27			2021/01/27		
COC Number		808253-08-01	808253-08-01		808253-08-01			808253-08-01		
	UNITS	76-II	76-III	RDL	44-I	RDL	QC Batch	44-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	4.9	<4.9	4.9	7182011	19	4.9	7182014
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7182011	<0.50	0.50	7182014
Dissolved Arsenic (As)	ug/L	<1.0	1.2	1.0	<1.0	1.0	7182011	1.5	1.0	7182014
Dissolved Barium (Ba)	ug/L	30	23	2.0	19	2.0	7182011	41	2.0	7182014
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	7182011	<0.40	0.40	7182014
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
Dissolved Boron (B)	ug/L	76	71	10	230	10	7182011	46	10	7182014
Dissolved Cadmium (Cd)	ug/L	0.34	0.25	0.090	<0.090	0.090	7182011	<0.090	0.090	7182014
Dissolved Calcium (Ca)	ug/L	130000	120000	200	270000	1000	7182011	100000	200	7182014
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	7182011	<5.0	5.0	7182014
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7182011	<0.50	0.50	7182014
Dissolved Copper (Cu)	ug/L	1.2	<0.90	0.90	<0.90	0.90	7182011	<0.90	0.90	7182014
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	100	7182011	220	100	7182014
Dissolved Lead (Pb)	ug/L	2.9	1.7	0.50	<0.50	0.50	7182011	<0.50	0.50	7182014
Dissolved Lithium (Li)	ug/L	13	13	5.0	60	5.0	7182011	24	5.0	7182014
Dissolved Magnesium (Mg)	ug/L	36000	32000	50	47000	50	7182011	43000	50	7182014
Dissolved Manganese (Mn)	ug/L	27	38	2.0	40	2.0	7182011	34	2.0	7182014
Dissolved Molybdenum (Mo)	ug/L	0.63	0.66	0.50	<0.50	0.50	7182011	2.3	0.50	7182014
Dissolved Nickel (Ni)	ug/L	3.3	2.8	1.0	<1.0	1.0	7182011	1.3	1.0	7182014
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	100	7182011	<100	100	7182014
Dissolved Potassium (K)	ug/L	3400	3200	200	11000	200	7182011	2500	200	7182014
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	7182011	<2.0	2.0	7182014
Dissolved Silicon (Si)	ug/L	4600	4800	50	3600	50	7182011	6700	50	7182014
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	7182011	<0.090	0.090	7182014
Dissolved Sodium (Na)	ug/L	230000	190000	100	230000	100	7182011	27000	100	7182014
Dissolved Strontium (Sr)	ug/L	950	720	1.0	10000	1.0	7182011	1100	1.0	7182014
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	7182011	<0.050	0.050	7182014
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	7182011	<5.0	5.0	7182014
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
Dissolved Uranium (U)	ug/L	2.5	2.4	0.10	<0.10	0.10	7182011	1.5	0.10	7182014
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7182011	<0.50	0.50	7182014
Dissolved Zinc (Zn)	ug/L	130	110	5.0	<5.0	5.0	7182011	6.3	5.0	7182014
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH624		OSH625			OSH626		
Sampling Date		2021/01/27		2021/01/27			2021/01/27		
COC Number		808253-08-01		808253-08-01			808253-08-01		
	UNITS	49-II	RDL	49-IV	RDL	QC Batch	49-V	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	5.5	4.9	<25	25	7182011	6.2	4.9	7182014
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	7182011	<0.50	0.50	7182014
Dissolved Arsenic (As)	ug/L	5.1	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Barium (Ba)	ug/L	46	2.0	62	10	7182011	33	2.0	7182014
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	7182011	<0.40	0.40	7182014
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Boron (B)	ug/L	62	10	830	50	7182011	620	10	7182014
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	7182011	<0.090	0.090	7182014
Dissolved Calcium (Ca)	ug/L	250000	200	460000	1000	7182011	470000	1000	7182014
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	7182011	<5.0	5.0	7182014
Dissolved Cobalt (Co)	ug/L	5.5	0.50	<2.5	2.5	7182011	<0.50	0.50	7182014
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	7182011	3.9	0.90	7182014
Dissolved Iron (Fe)	ug/L	1800	100	510	500	7182011	<100	100	7182014
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	7182011	<0.50	0.50	7182014
Dissolved Lithium (Li)	ug/L	50	5.0	220	25	7182011	200	5.0	7182014
Dissolved Magnesium (Mg)	ug/L	120000	50	190000	250	7182011	220000	50	7182014
Dissolved Manganese (Mn)	ug/L	47	2.0	370	10	7182011	62	2.0	7182014
Dissolved Molybdenum (Mo)	ug/L	11	0.50	<2.5	2.5	7182011	<0.50	0.50	7182014
Dissolved Nickel (Ni)	ug/L	20	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Phosphorus (P)	ug/L	<100	100	<500	500	7182011	<100	100	7182014
Dissolved Potassium (K)	ug/L	5600	200	13000	1000	7182011	14000	200	7182014
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	10	7182011	<2.0	2.0	7182014
Dissolved Silicon (Si)	ug/L	5000	50	9900	250	7182011	8300	50	7182014
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	7182011	<0.090	0.090	7182014
Dissolved Sodium (Na)	ug/L	410000	100	170000	500	7182011	210000	100	7182014
Dissolved Strontium (Sr)	ug/L	3400	1.0	5300	5.0	7182011	6100	1.0	7182014
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	7182011	<0.050	0.050	7182014
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	7182011	<5.0	5.0	7182014
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Uranium (U)	ug/L	6.8	0.10	3.4	0.50	7182011	2.1	0.10	7182014
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	2.5	7182011	0.58	0.50	7182014
Dissolved Zinc (Zn)	ug/L	89	5.0	<25	25	7182011	9.2	5.0	7182014
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH627		OSH681	OSH682		OSH683	OSH683		
Sampling Date		2021/01/27		2021/01/27	2021/01/27		2021/01/27	2021/01/27		
COC Number		808253-08-01		808253-09-01	808253-09-01		808253-09-01	808253-09-01		
	UNITS	46-IR	RDL	46-IIR	46-IIIR	RDL	75-I	75-I Lab-Dup	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	7.7	<4.9	4.9	<25	<25	25	7182011
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7182011
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Barium (Ba)	ug/L	18	10	69	23	2.0	11	11	10	7182011
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	<0.40	0.40	<2.0	<2.0	2.0	7182011
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Boron (B)	ug/L	840	50	240	86	10	1500	1400	50	7182011
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	0.17	0.090	<0.45	<0.45	0.45	7182011
Dissolved Calcium (Ca)	ug/L	650000	1000	210000	210000	200	760000	740000	1000	7182011
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7182011
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7182011
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	2.0	0.90	<4.5	<4.5	4.5	7182011
Dissolved Iron (Fe)	ug/L	<500	500	<100	<100	100	<500	<500	500	7182011
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7182011
Dissolved Lithium (Li)	ug/L	130	25	32	11	5.0	480	470	25	7182011
Dissolved Magnesium (Mg)	ug/L	73000	250	61000	69000	50	120000	120000	250	7182011
Dissolved Manganese (Mn)	ug/L	110	10	92	15	2.0	100	100	10	7182011
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	6.0	2.6	0.50	<2.5	<2.5	2.5	7182011
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	1.1	4.2	1.0	<5.0	<5.0	5.0	7182011
Dissolved Phosphorus (P)	ug/L	<500	500	<100	<100	100	<500	<500	500	7182011
Dissolved Potassium (K)	ug/L	55000	1000	11000	1400	200	31000	31000	1000	7182011
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	<2.0	2.0	<10	<10	10	7182011
Dissolved Silicon (Si)	ug/L	3900	250	5100	4700	50	3500	3400	250	7182011
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	<0.090	0.090	<0.45	<0.45	0.45	7182011
Dissolved Sodium (Na)	ug/L	810000	500	180000	170000	100	750000	760000	500	7182011
Dissolved Strontium (Sr)	ug/L	8100	5.0	2700	620	1.0	13000	13000	5.0	7182011
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	<0.050	0.050	<0.25	<0.25	0.25	7182011
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7182011
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Uranium (U)	ug/L	<0.50	0.50	2.7	7.3	0.10	<0.50	<0.50	0.50	7182011
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7182011
Dissolved Zinc (Zn)	ug/L	<25	25	6.7	7.2	5.0	<25	<25	25	7182011
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH684			OSH685			OSH686			OSH687		
Sampling Date		2021/01/27			2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-09-01			808253-09-01			808253-09-01			808253-09-01		
	UNITS	75-II	RDL	QC Batch	75-III	RDL	QC Batch	75-IV	67-I	RDL	QC Batch		
Metals													
Dissolved Aluminum (Al)	ug/L	<25	25	7182011	5.6	4.9	7182014	28	<25	25	7182011		
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Arsenic (As)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Barium (Ba)	ug/L	25	10	7182011	13	2.0	7182014	17	19	10	7182011		
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	7182011	<0.40	0.40	7182014	<2.0	<2.0	2.0	7182011		
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Boron (B)	ug/L	730	50	7182011	400	10	7182014	240	1000	50	7182011		
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	7182011	<0.090	0.090	7182014	<0.45	<0.45	0.45	7182011		
Dissolved Calcium (Ca)	ug/L	260000	1000	7182011	270000	200	7182014	320000	500000	1000	7182011		
Dissolved Chromium (Cr)	ug/L	<25	25	7182011	<5.0	5.0	7182014	<25	<25	25	7182011		
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Copper (Cu)	ug/L	<4.5	4.5	7182011	<0.90	0.90	7182014	<4.5	<4.5	4.5	7182011		
Dissolved Iron (Fe)	ug/L	<500	500	7182011	210	100	7182014	<500	<500	500	7182011		
Dissolved Lead (Pb)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Lithium (Li)	ug/L	85	25	7182011	46	5.0	7182014	74	140	25	7182011		
Dissolved Magnesium (Mg)	ug/L	54000	250	7182011	110000	50	7182014	140000	67000	250	7182011		
Dissolved Manganese (Mn)	ug/L	29	10	7182011	59	2.0	7182014	85	45	10	7182011		
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	7182011	9.6	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Phosphorus (P)	ug/L	<500	500	7182011	<100	100	7182014	500	<500	500	7182011		
Dissolved Potassium (K)	ug/L	52000	1000	7182011	13000	200	7182014	14000	60000	1000	7182011		
Dissolved Selenium (Se)	ug/L	<10	10	7182011	<2.0	2.0	7182014	<10	<10	10	7182011		
Dissolved Silicon (Si)	ug/L	6800	250	7182011	6800	50	7182014	6700	6500	250	7182011		
Dissolved Silver (Ag)	ug/L	<0.45	0.45	7182011	<0.090	0.090	7182014	<0.45	<0.45	0.45	7182011		
Dissolved Sodium (Na)	ug/L	750000	500	7182011	290000	100	7182014	450000	780000	500	7182011		
Dissolved Strontium (Sr)	ug/L	10000	5.0	7182011	3400	1.0	7182014	8300	8600	5.0	7182011		
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	7182011	<0.050	0.050	7182014	<0.25	<0.25	0.25	7182011		
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Titanium (Ti)	ug/L	<25	25	7182011	<5.0	5.0	7182014	<25	<25	25	7182011		
Dissolved Tungsten (W)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	53	<5.0	5.0	7182011		
Dissolved Uranium (U)	ug/L	<0.50	0.50	7182011	0.49	0.10	7182014	0.59	<0.50	0.50	7182011		
Dissolved Vanadium (V)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Zinc (Zn)	ug/L	<25	25	7182011	<5.0	5.0	7182014	<25	<25	25	7182011		
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
RDL = Reportable Detection Limit													
QC Batch = Quality Control Batch													



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH688	OSH689	OSH690		
Sampling Date		2021/01/27	2021/01/27	2021/01/27		
COC Number		808253-09-01	808253-09-01	808253-09-01		
	UNITS	P15	4-I	2-I	RDL	QC Batch
Metals						
Dissolved Aluminum (Al)	ug/L	680	<25	<25	25	7182011
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	<2.5	2.5	7182011
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
Dissolved Barium (Ba)	ug/L	<10	18	11	10	7182011
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	2.0	7182011
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
Dissolved Boron (B)	ug/L	520	990	1500	50	7182011
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	<0.45	0.45	7182011
Dissolved Calcium (Ca)	ug/L	56000	480000	750000	1000	7182011
Dissolved Chromium (Cr)	ug/L	<25	<25	<25	25	7182011
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	<2.5	2.5	7182011
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	<4.5	4.5	7182011
Dissolved Iron (Fe)	ug/L	<500	<500	<500	500	7182011
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	<2.5	2.5	7182011
Dissolved Lithium (Li)	ug/L	37	130	480	25	7182011
Dissolved Magnesium (Mg)	ug/L	1400	67000	120000	250	7182011
Dissolved Manganese (Mn)	ug/L	<10	45	100	10	7182011
Dissolved Molybdenum (Mo)	ug/L	38	<2.5	<2.5	2.5	7182011
Dissolved Nickel (Ni)	ug/L	23	<5.0	<5.0	5.0	7182011
Dissolved Phosphorus (P)	ug/L	660	<500	<500	500	7182011
Dissolved Potassium (K)	ug/L	170000	58000	30000	1000	7182011
Dissolved Selenium (Se)	ug/L	<10	<10	<10	10	7182011
Dissolved Silicon (Si)	ug/L	5900	6800	3400	250	7182011
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	<0.45	0.45	7182011
Dissolved Sodium (Na)	ug/L	2200000	760000	740000	500	7182011
Dissolved Strontium (Sr)	ug/L	1400	8100	12000	5.0	7182011
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	<0.25	0.25	7182011
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
Dissolved Titanium (Ti)	ug/L	<25	<25	<25	25	7182011
Dissolved Tungsten (W)	ug/L	20	<5.0	<5.0	5.0	7182011
Dissolved Uranium (U)	ug/L	<0.50	<0.50	<0.50	0.50	7182011
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	<2.5	2.5	7182011
Dissolved Zinc (Zn)	ug/L	<25	<25	<25	25	7182011
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH600
Sample ID: 40-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/03	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH600 Dup
Sample ID: 40-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai

BV Labs ID: OSH601
Sample ID: 40-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH601 Dup
Sample ID: 40-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad

BV Labs ID: OSH602
Sample ID: 40-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH603
Sample ID: 29-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/03	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH604
Sample ID: 29-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH605
Sample ID: 29-IV
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH606
Sample ID: 12-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH606
Sample ID: 12-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH607
Sample ID: 12-IV
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH608
Sample ID: 14-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH608
Sample ID: 14-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH609
Sample ID: 45-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH618
Sample ID: 45-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH619
Sample ID: 76-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH620
Sample ID: 76-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH621
Sample ID: 76-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH621
Sample ID: 76-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH621 Dup
Sample ID: 76-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi

BV Labs ID: OSH622
Sample ID: 44-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH622 Dup
Sample ID: 44-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH622 Dup
Sample ID: 44-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan

BV Labs ID: OSH623
Sample ID: 44-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH624
Sample ID: 49-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH624 Dup
Sample ID: 49-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu

BV Labs ID: OSH625
Sample ID: 49-IV
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH626
Sample ID: 49-V
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH627
Sample ID: 46-IR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH681
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH681 Dup
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH682
Sample ID: 46-IIIR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH682 Dup
Sample ID: 46-IIIR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan

BV Labs ID: OSH683
Sample ID: 75-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH683
Sample ID: 75-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH683 Dup
Sample ID: 75-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH684
Sample ID: 75-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH685
Sample ID: 75-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH685
Sample ID: 75-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH686
Sample ID: 75-IV
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH687
Sample ID: 67-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH688
Sample ID: P15
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH688 Dup
Sample ID: P15
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH689
Sample ID: 4-1
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH690
Sample ID: 2-l
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH690 Dup
Sample ID: 2-l
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu



GENERAL COMMENTS

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

Package 1	1.3°C
Package 2	0.3°C
Package 3	2.7°C
Package 4	1.0°C
Package 5	-0.3°C

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

Sample OSH600 [40-I] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSH603 [29-I] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSH605 [29-IV] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH606 [12-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH619 [76-I] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

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

Sample OSH625 [49-IV] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH627 [46-IR] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSH683 [75-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH684 [75-II] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH686 [75-IV] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH687 [67-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSH688 [P15] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSH689 [4-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH690 [2-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

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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BV Labs Job #: C124617
Report Date: 2021/02/05

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
7182011	Dissolved Aluminum (Al)	2021/02/03	110	80 - 120	101	80 - 120	<4.9	ug/L	NC	20		
7182011	Dissolved Antimony (Sb)	2021/02/03	109	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Arsenic (As)	2021/02/03	106	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Barium (Ba)	2021/02/03	105	80 - 120	99	80 - 120	<2.0	ug/L	3.6	20		
7182011	Dissolved Beryllium (Be)	2021/02/03	105	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7182011	Dissolved Bismuth (Bi)	2021/02/03	93	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Boron (B)	2021/02/03	NC	80 - 120	96	80 - 120	<10	ug/L	1.5	20		
7182011	Dissolved Cadmium (Cd)	2021/02/03	104	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7182011	Dissolved Calcium (Ca)	2021/02/03	NC	80 - 120	101	80 - 120	<200	ug/L	2.6	20		
7182011	Dissolved Chromium (Cr)	2021/02/03	104	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182011	Dissolved Cobalt (Co)	2021/02/03	104	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Copper (Cu)	2021/02/03	103	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7182011	Dissolved Iron (Fe)	2021/02/03	103	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7182011	Dissolved Lead (Pb)	2021/02/03	98	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Lithium (Li)	2021/02/03	NC	80 - 120	105	80 - 120	<5.0	ug/L	2.3	20		
7182011	Dissolved Magnesium (Mg)	2021/02/03	NC	80 - 120	103	80 - 120	<50	ug/L	0.29	20		
7182011	Dissolved Manganese (Mn)	2021/02/03	103	80 - 120	99	80 - 120	<2.0	ug/L	0.64	20		
7182011	Dissolved Molybdenum (Mo)	2021/02/03	110	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Nickel (Ni)	2021/02/03	101	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Phosphorus (P)	2021/02/03	106	80 - 120	97	80 - 120	<100	ug/L	NC	20		
7182011	Dissolved Potassium (K)	2021/02/03	NC	80 - 120	103	80 - 120	<200	ug/L	0.25	20		
7182011	Dissolved Selenium (Se)	2021/02/03	98	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7182011	Dissolved Silicon (Si)	2021/02/03	109	80 - 120	101	80 - 120	<50	ug/L	2.6	20		
7182011	Dissolved Silver (Ag)	2021/02/03	84	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7182011	Dissolved Sodium (Na)	2021/02/03	NC	80 - 120	101	80 - 120	<100	ug/L	0.64	20		
7182011	Dissolved Strontium (Sr)	2021/02/03	NC	80 - 120	97	80 - 120	<1.0	ug/L	0.55	20		
7182011	Dissolved Tellurium (Te)	2021/02/03	89	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Thallium (Tl)	2021/02/03	99	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
7182011	Dissolved Tin (Sn)	2021/02/03	106	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Titanium (Ti)	2021/02/03	104	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7182011	Dissolved Tungsten (W)	2021/02/03	103	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		



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BV Labs Job #: C124617

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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
7182011	Dissolved Uranium (U)	2021/02/03	100	80 - 120	98	80 - 120	<0.10	ug/L	NC	20		
7182011	Dissolved Vanadium (V)	2021/02/03	105	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Zinc (Zn)	2021/02/03	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182011	Dissolved Zirconium (Zr)	2021/02/03	110	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Aluminum (Al)	2021/02/04	109	80 - 120	107	80 - 120	<4.9	ug/L	4.3	20		
7182014	Dissolved Antimony (Sb)	2021/02/04	107	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Arsenic (As)	2021/02/04	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Barium (Ba)	2021/02/04	105	80 - 120	105	80 - 120	<2.0	ug/L	3.8	20		
7182014	Dissolved Beryllium (Be)	2021/02/04	113	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7182014	Dissolved Bismuth (Bi)	2021/02/04	95	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Boron (B)	2021/02/04	NC	80 - 120	98	80 - 120	<10	ug/L	0.0039	20		
7182014	Dissolved Cadmium (Cd)	2021/02/04	102	80 - 120	104	80 - 120	<0.090	ug/L	NC	20		
7182014	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	104	80 - 120	<200	ug/L	2.5	20		
7182014	Dissolved Chromium (Cr)	2021/02/04	100	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7182014	Dissolved Cobalt (Co)	2021/02/04	103	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Copper (Cu)	2021/02/04	103	80 - 120	101	80 - 120	<0.90	ug/L	NC	20		
7182014	Dissolved Iron (Fe)	2021/02/04	100	80 - 120	98	80 - 120	<100	ug/L	0.033	20		
7182014	Dissolved Lead (Pb)	2021/02/04	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Lithium (Li)	2021/02/04	109	80 - 120	104	80 - 120	<5.0	ug/L	1.6	20		
7182014	Dissolved Magnesium (Mg)	2021/02/04	NC	80 - 120	104	80 - 120	<50	ug/L	2.2	20		
7182014	Dissolved Manganese (Mn)	2021/02/04	101	80 - 120	102	80 - 120	<2.0	ug/L	0.11	20		
7182014	Dissolved Molybdenum (Mo)	2021/02/04	104	80 - 120	103	80 - 120	<0.50	ug/L	1.1	20		
7182014	Dissolved Nickel (Ni)	2021/02/04	98	80 - 120	99	80 - 120	<1.0	ug/L	6.2	20		
7182014	Dissolved Phosphorus (P)	2021/02/04	103	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7182014	Dissolved Potassium (K)	2021/02/04	101	80 - 120	106	80 - 120	<200	ug/L	1.5	20		
7182014	Dissolved Selenium (Se)	2021/02/04	107	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7182014	Dissolved Silicon (Si)	2021/02/04	109	80 - 120	104	80 - 120	<50	ug/L	5.1	20		
7182014	Dissolved Silver (Ag)	2021/02/04	85	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7182014	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	102	80 - 120	<100	ug/L	2.5	20		
7182014	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	102	80 - 120	<1.0	ug/L	0.89	20		
7182014	Dissolved Tellurium (Te)	2021/02/04	100	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		



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BV Labs Job #: C124617
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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
7182014	Dissolved Thallium (Tl)	2021/02/04	100	80 - 120	103	80 - 120	<0.050	ug/L	NC	20		
7182014	Dissolved Tin (Sn)	2021/02/04	108	80 - 120	107	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Titanium (Ti)	2021/02/04	106	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
7182014	Dissolved Tungsten (W)	2021/02/04	106	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Uranium (U)	2021/02/04	101	80 - 120	96	80 - 120	<0.10	ug/L	3.2	20		
7182014	Dissolved Vanadium (V)	2021/02/04	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Zinc (Zn)	2021/02/04	99	80 - 120	101	80 - 120	<5.0	ug/L	3.8	20		
7182014	Dissolved Zirconium (Zr)	2021/02/04	111	80 - 120	109	80 - 120	<1.0	ug/L	NC	20		
7182020	Phenols-4AAP	2021/02/04	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7182047	Phenols-4AAP	2021/02/03	100	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7182051	Orthophosphate (P)	2021/02/03	108	75 - 125	100	80 - 120	<0.010	mg/L	1.0	25		
7182061	Nitrate (N)	2021/02/03	99	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
7182061	Nitrite (N)	2021/02/03	105	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7182066	Dissolved Bromide (Br-)	2021/02/03	114	80 - 120	109	80 - 120	<1.0	mg/L	NC	20		
7182066	Dissolved Chloride (Cl-)	2021/02/03	NC	80 - 120	97	70 - 130	<1.0	mg/L	1.1	20		
7182066	Dissolved Sulphate (SO4)	2021/02/03	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.64	20		
7182067	Alkalinity (Total as CaCO3)	2021/02/03			98	85 - 115	<1.0	mg/L	1.9	20		
7182071	pH	2021/02/03			101	98 - 103			0.055	N/A		
7182072	Conductivity	2021/02/03			100	85 - 115	<1.0	umho/cm	0	25		
7182073	Fluoride (F-)	2021/02/03	99	80 - 120	103	80 - 120	<0.10	mg/L	0.93	20		
7182104	Total Ammonia-N	2021/02/04	108	75 - 125	99	80 - 120	<0.050	mg/L	5.6	20		
7182108	Total Kjeldahl Nitrogen (TKN)	2021/02/04	106	80 - 120	101	80 - 120	<0.10	mg/L	9.1	20	102	80 - 120
7182109	Total Organic Carbon (TOC)	2021/02/03	95	80 - 120	98	80 - 120	<0.40	mg/L	0.27	20		
7182123	Total Ammonia-N	2021/02/03	90	75 - 125	99	80 - 120	<0.050	mg/L	0.027	20		
7182126	Total Kjeldahl Nitrogen (TKN)	2021/02/03	NC	80 - 120	100	80 - 120	<0.10	mg/L	5.6	20	102	80 - 120
7182127	Total Organic Carbon (TOC)	2021/02/03	NC	80 - 120	98	80 - 120	<0.40	mg/L	1.5	20		
7182281	Orthophosphate (P)	2021/02/03	100	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7182282	Nitrate (N)	2021/02/03	100	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
7182282	Nitrite (N)	2021/02/03	107	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7182305	Dissolved Bromide (Br-)	2021/02/03	117	80 - 120	109	80 - 120	<1.0	mg/L	NC	20		
7182305	Dissolved Chloride (Cl-)	2021/02/03	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.20	20		



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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
7182305	Dissolved Sulphate (SO4)	2021/02/03	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.46	20		
7182306	Alkalinity (Total as CaCO3)	2021/02/03			98	85 - 115	<1.0	mg/L	0.60	20		
7182307	pH	2021/02/03			101	98 - 103			0.30	N/A		
7182308	Conductivity	2021/02/03			100	85 - 115	<1.0	umho/cm	0	25		
7182309	Fluoride (F-)	2021/02/03	103	80 - 120	103	80 - 120	<0.10	mg/L	11	20		
7182333	Total Dissolved Solids	2021/02/04					<10	mg/L	0.34	25	98	90 - 110
7182334	Total Dissolved Solids	2021/02/04					<10	mg/L	1.9	25	100	90 - 110

N/A = Not Applicable

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

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

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

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

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

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).



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

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.



Bureau Veritas Laboratories
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28-Jan-21 15:15

Jolanta Goralczyk
C124617

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 Address: Tel: (905) 548-5882 Fax: (905) 578-7533 Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: GW Project Name: URE Site #: ENV-766 Sampled By:		Only: Bottle Order #: 808253 Project Manager: Jolanta Goralczyk	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)						Turnaround Time (TAT) Required: Please provide advance notice for rush projects.		
Regulation 153 (2011)			Other Regulations			Special Instructions						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	Field Filtered (please circle): Metals Hg / Cr-VI Groundwater List A						<input checked="" type="checkbox"/> 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 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw							<input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWQO Reg 406 Table _____ <input type="checkbox"/> Other _____		<input type="checkbox"/> 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"/> Include Criteria on Certificate of Analysis (Y/N)? _____			
<input type="checkbox"/> Table														
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	Metals	Hg	Cr-VI	# of Bottles	Comments				
1	40-I	Jan 27 2020	AM	water	Y	✓			6					
2	40-II				Y	✓			6					
3	40-III				Y	✓			6					
4	29-I				Y	✓			6					
5	29-II				Y	✓			6					
6	29-III				Y	✓			6					
7	12-I				Y	✓			6					
8	12-II				Y	✓			6					
9	14-I				Y	✓			6					
10	45-I				Y	✓			6					

CAUTION
Reason: sulphur odor

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
<i>[Signature]</i>	21/01/28	AM	<i>[Signature]</i>	21/01/28	15:15		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes / No
								Refer to ACTR	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.



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: _____	Quotation #: B60569	BV Labs Job #:		Bottle Order #:		
Attention: Accounting	Attention: Brad Mullin	P.O. #:	COC #:		Project Manager:		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address: _____	Project: <u>GW</u>	COC #:		Project Manager: Jolanta Goralczyk		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: (905) 548-5882 Fax: (905) 578-7533	Project Name: <u>GW</u>	COC #:		Project Manager: Jolanta Goralczyk		
Email: kbailey@terrapureenv.com	Email: bmullin@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:			
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle):											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		Metals Hg / Cr VI											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"/> PWOO	<input type="checkbox"/> 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)?						Other _____	Groundwater											Job Specific Rush TAT (if applies to entire submission)	
							List A											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	45-II	Jan 27 2028	AM	water	Y	Y											6		
2	76-I				Y	Y											6		
3	76-II				Y	Y											6		
4	76-III				Y	Y											6		
5	44-I				Y	Y											6		
6	44-II				Y	Y											6		
7	49-II		PM		Y	Y											6		
8	49-IV				Y	Y											6		
9	49-V				Y	Y											6		
10	46-IR				Y	Y											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				
<i>[Signature]</i>	21/01/28	AM	See Page 1				Time Sensitive	Temperature (°C) on Recept	Custody Seal	Yes	No
									Present		
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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

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

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

White: BV Labs Yellow: Client



Bureau Veritas Laboratories
6740 Campbell 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:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Attention: Accounting	Company Name: Brad Mullin	Attention: Brad Mullin	Quotation #: B60569	P.O. #:	BV Labs Job #:	Bottle Order #:
Address: 65 Green Mountain Rd West	Address: Stoney Creek ON L8J 1X5	Address:	Address:	Project: GW	Project: GW	COC #:	Project Manager:
Tel: (905) 561-0305	Fax: (905) 561-1674	Tel: (905) 548-5882	Fax: (905) 578-7533	Site #:	Sampled By:		Jolanta Goralczyk
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com				C#B08253-09-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required: Please provide advance notice for rush projects			
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals Hg / Cr VI		Regular (Standard) TAT: (will be applied if Rush TAT is not specified): 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		Y	✓	<input checked="" type="checkbox"/> 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				Job Specific Rush TAT (if applies to entire submission)		Date Required:	Time Required:
<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 405 Table _____							
Include Criteria on Certificate of Analysis (Y/N)?								# of Bottles	Comments		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix							
1	46-IR	Jan 27 2020	PM	water	Y	✓		6			
2	46-IR				Y	✓		6			
3	75-I				Y	✓		6			
4	75-II				Y	✓		6			
5	75-III				Y	✓		6			
6	75-IV				Y	✓		6			
7	67-I				Y	✓		6			
8	P15				Y	✓		6			
9	4-I				Y	✓		6			
10	2-I				Y	✓		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		
	2/01/28	Am	See Note 1				Time Sensitive	Temperature (°C) on Recci	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



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. #: 808571-10-01, 808571-09-01, 808571-08-01, 808571-11-01

Report Date: 2021/02/09
Report #: R6511702
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C125935

Received: 2021/01/29, 15:20

Sample Matrix: Water
Samples Received: 31

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	31	N/A	2021/02/04	CAM SOP-00448	SM 23 2320 B m
Anions	20	N/A	2021/02/04	CAM SOP-00435	SM 23 4110 B m
Anions	11	N/A	2021/02/05	CAM SOP-00435	SM 23 4110 B m
Conductivity	31	N/A	2021/02/04	CAM SOP-00414	SM 23 2510 m
Fluoride	31	2021/02/04	2021/02/04	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	31	N/A	2021/02/05	CAM SOP 00102/00408/00447	SM 2340 B
Lab Filtered Metals by ICPMS	1	2021/02/04	2021/02/05	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	18	N/A	2021/02/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	10	N/A	2021/02/05	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/02/09	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	11	N/A	2021/02/04	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	20	N/A	2021/02/05	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	31	N/A	2021/02/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	31	2021/02/04	2021/02/04	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	3	N/A	2021/02/04	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	28	N/A	2021/02/05	CAM SOP-00444	OMOE E3179 m
Orthophosphate	31	N/A	2021/02/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	31	2021/02/04	2021/02/05	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	15	2021/02/04	2021/02/04	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	16	2021/02/04	2021/02/05	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	20	N/A	2021/02/04	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	11	N/A	2021/02/05	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

Attention: Brad Mullin - GHD Reporting

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

Your C.O.C. #: 808571-10-01, 808571-09-01, 808571-08-01, 808571-11-01

Report Date: 2021/02/09
Report #: R6511702
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C125935

Received: 2021/01/29, 15:20

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

09 Feb 2021 14:45:59

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.

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



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO554			OSO554			OSO555		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-10-01			808571-10-01		
	UNITS	33-I	RDL	QC Batch	33-I Lab-Dup	RDL	QC Batch	33-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1200	1.0	7175494				150	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	3.2	0.050	7184558				<0.050	0.050	7184558
Conductivity	umho/cm	4200	1.0	7184397				520	1.0	7184397
Total Dissolved Solids	mg/L	3050	10	7184681	3080	10	7184681	245	10	7184681
Fluoride (F-)	mg/L	1.5	0.10	7184398				0.35	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L	3.6	0.10	7184545	3.8	0.10	7184545	0.10	0.10	7184545
Total Organic Carbon (TOC)	mg/L	28	0.40	7184543	29	0.40	7184543	5.4	0.40	7184543
Orthophosphate (P)	mg/L	0.12	0.010	7184387				0.19	0.010	7184387
pH	pH	7.66		7184392				7.96		7184392
Phenols-4AAP	mg/L	<0.0010	0.0010	7184315				<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	46	1.0	7184391				80	1.0	7184391
Nitrite (N)	mg/L	0.027	0.010	7184389				0.011	0.010	7184389
Dissolved Chloride (Cl-)	mg/L	420	10	7184390				27	1.0	7184390
Nitrate (N)	mg/L	<0.10	0.10	7184389				0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389				0.11	0.10	7184389
Dissolved Bromide (Br-)	mg/L	<10	10	7184390				<1.0	1.0	7184390
Dissolved Sulphate (SO4)	mg/L	1600	10	7184390				120	1.0	7184390

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



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO555			OSO556			OSO557		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-10-01			808571-10-01		
	UNITS	33-II Lab-Dup	RDL	QC Batch	30-II	RDL	QC Batch	58-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				570	1.0	7175494	170	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7184558	2.1	0.050	7184558	94	0.50	7184558
Conductivity	umho/cm				2500	1.0	7184397	8400	1.0	7184397
Total Dissolved Solids	mg/L				1820	10	7184681	4840	20	7184681
Fluoride (F-)	mg/L				1.6	0.10	7184398	7.3	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L				2.5	0.10	7184545	99	2.5	7184545
Total Organic Carbon (TOC)	mg/L				21	0.40	7184543	390	2.0	7184543
Orthophosphate (P)	mg/L				0.011	0.010	7184387	0.51	0.50	7184387
pH	pH				9.64		7184392	11.7		7184392
Phenols-4AAP	mg/L				0.0037	0.0020	7184296	6.6	0.50	7184315
Alkalinity (Total as CaCO3)	mg/L				37	1.0	7184391	920	1.0	7184391
Nitrite (N)	mg/L				0.153	0.010	7184389	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L				180	5.0	7184390	1700	20	7184390
Nitrate (N)	mg/L				<0.10	0.10	7184389	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L				0.15	0.10	7184389	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7184390	<20	20	7184390
Dissolved Sulphate (SO4)	mg/L				900	5.0	7184390	390	20	7184390

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO558			OSO558			OSO559		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-10-01			808571-10-01		
	UNITS	41-I	RDL	QC Batch	41-I Lab-Dup	RDL	QC Batch	41-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1800	1.0	7175494				570	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	8.7	0.050	7184558				<0.050	0.050	7184558
Conductivity	umho/cm	4800	1.0	7184397	4800	1.0	7184397	1100	1.0	7184397
Total Dissolved Solids	mg/L	3730	10	7184681				680	10	7184681
Fluoride (F-)	mg/L	0.78	0.10	7184398	0.79	0.10	7184398	0.45	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L	9.3	1.0	7184545				0.17	0.10	7184545
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7184543				3.0	0.40	7184543
Orthophosphate (P)	mg/L	0.011	0.010	7184387	0.011	0.010	7184387	0.010	0.010	7184387
pH	pH	7.64		7184392	7.63		7184392	7.77		7184392
Phenols-4AAP	mg/L	<0.0010	0.0010	7184296				<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7184391	230	1.0	7184391	450	1.0	7184391
Nitrite (N)	mg/L	<0.010	0.010	7184389	<0.010	0.010	7184389	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L	720	10	7184390	720	10	7184390	41	1.0	7184390
Nitrate (N)	mg/L	<0.10	0.10	7184389	<0.10	0.10	7184389	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389	<0.10	0.10	7184389	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L	<10	10	7184390	<10	10	7184390	<1.0	1.0	7184390
Dissolved Sulphate (SO4)	mg/L	1500	10	7184390	1500	10	7184390	120	1.0	7184390

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



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO560			OSO561			OSO562		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-10-01			808571-10-01		
	UNITS	41-III	RDL	QC Batch	P3-II	RDL	QC Batch	P3-III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	600	1.0	7175494	540	1.0	7175494	1300	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7184558	3.5	0.050	7184558	0.84 (1)	0.050	7184558
Conductivity	umho/cm	1300	1.0	7184397	3100	1.0	7184397	3700	1.0	7184507
Total Dissolved Solids	mg/L	775	10	7184681	1170	10	7184681	2420	10	7184681
Fluoride (F-)	mg/L	0.34	0.10	7184398	1.1	0.10	7184398	0.44	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L	<0.10	0.10	7184545	3.6	0.10	7184545	0.83 (1)	0.10	7184545
Total Organic Carbon (TOC)	mg/L	3.2	0.40	7184543	9.1	0.40	7184543	4.3	0.40	7184543
Orthophosphate (P)	mg/L	0.011	0.010	7184387	0.013	0.010	7184387	<0.010	0.010	7184469
pH	pH	7.70		7184392	7.97		7184392	7.70		7184506
Phenols-4AAP	mg/L	0.0011	0.0010	7184315	0.027	0.0050	7184296	<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	450	1.0	7184391	170	1.0	7184391	280	1.0	7184505
Nitrite (N)	mg/L	<0.010	0.010	7184389	<0.010	0.010	7184389	<0.010	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	59	1.0	7184390	570	5.0	7184390	670	5.0	7184504
Nitrate (N)	mg/L	<0.10	0.10	7184389	<0.10	0.10	7184389	<0.10	0.10	7184503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389	<0.10	0.10	7184389	<0.10	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7184390	<5.0	5.0	7184390	<5.0	5.0	7184504
Dissolved Sulphate (SO4)	mg/L	160	1.0	7184390	580	5.0	7184390	660	5.0	7184504

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 #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO563			OSO572		OSO573		
Sampling Date		2021/01/28			2021/01/28		2021/01/28		
COC Number		808571-10-01			808571-09-01		808571-09-01		
	UNITS	32-II	RDL	QC Batch	62-I	RDL	62-II	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	570	1.0	7175494	2200	1.0	2000	1.0	7175494
Inorganics									
Total Ammonia-N	mg/L	9.1	0.050	7184558	24	0.050	29	0.050	7184558
Conductivity	umho/cm	3500	1.0	7184397	7800	1.0	7500	1.0	7184397
Total Dissolved Solids	mg/L	1110	10	7184681	5540	20	5180	20	7184681
Fluoride (F ⁻)	mg/L	1.4	0.10	7184398	0.98	0.10	1.0	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L	9.2	1.0	7184545	26	2.0	31	2.0	7184545
Total Organic Carbon (TOC)	mg/L	14	0.40	7184543	3.9	0.40	4.9	0.40	7184543
Orthophosphate (P)	mg/L	<0.010	0.010	7184387	0.011	0.010	<0.50 (1)	0.50	7184387
pH	pH	7.96		7184392	7.54		7.64		7184392
Phenols-4AAP	mg/L	0.065	0.0010	7184315	<0.0010	0.0010	<0.0010	0.0010	7184296
Alkalinity (Total as CaCO ₃)	mg/L	43	1.0	7184391	180	1.0	170	1.0	7184391
Nitrite (N)	mg/L	0.220	0.010	7184389	<0.010	0.010	<0.010	0.010	7184389
Dissolved Chloride (Cl ⁻)	mg/L	830	5.0	7184390	1600	20	1500	20	7184390
Nitrate (N)	mg/L	0.93	0.10	7184389	<0.10	0.10	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L	1.15	0.10	7184389	<0.10	0.10	<0.10	0.10	7184389
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	7184390	<20	20	<20	20	7184390
Dissolved Sulphate (SO ₄)	mg/L	410	5.0	7184390	1700	20	1600	20	7184390
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.									



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO573			OSO574	OSO575		OSO576		
Sampling Date		2021/01/28			2021/01/28	2021/01/28		2021/01/28		
COC Number		808571-09-01			808571-09-01	808571-09-01		808571-09-01		
	UNITS	62-II Lab-Dup	RDL	QC Batch	62-III	62-IV	RDL	36-IIIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				710	490	1.0	1900	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L				0.18	1.1	0.050	3.9	0.050	7184558
Conductivity	umho/cm				1800	1800	1.0	5800	1.0	7184397
Total Dissolved Solids	mg/L				1140	900	10	4470	10	7184681
Fluoride (F-)	mg/L				0.20	0.39	0.10	1.1	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L				0.31	1.4	0.10	4.4	0.10	7184545
Total Organic Carbon (TOC)	mg/L				2.3	3.7	0.40	2.1	0.40	7184543
Orthophosphate (P)	mg/L				<0.010	0.010	0.010	<0.010	0.010	7184387
pH	pH				7.77	7.98		7.74		7184392
Phenols-4AAP	mg/L	<0.0010	0.0010	7184296	<0.0010	<0.0010	0.0010	<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L				390	180	1.0	240	1.0	7184391
Nitrite (N)	mg/L				<0.010	<0.010	0.010	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L				180	260	5.0	850	10	7184390
Nitrate (N)	mg/L				<0.10	<0.10	0.10	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L				<0.10	<0.10	0.10	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L				<5.0	<5.0	5.0	<10	10	7184390
Dissolved Sulphate (SO4)	mg/L				280	310	5.0	2000	10	7184390

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO577			OSO578	OSO579		OSO580		
Sampling Date		2021/01/28			2021/01/28	2021/01/28		2021/01/28		
COC Number		808571-09-01			808571-09-01	808571-09-01		808571-09-01		
	UNITS	2-III	RDL	QC Batch	11-III	61-I	QC Batch	61-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7175494	2000	2000	7175494	1500	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	33 (1)	0.25	7184558	4.2	4.2	7184558	0.92	0.050	7184558
Conductivity	umho/cm	7500	1.0	7184397	5000	5100	7184397	4100	1.0	7184397
Total Dissolved Solids	mg/L	5170	20	7184681	3960	3950	7184681	3260	10	7184681
Fluoride (F-)	mg/L	1.0	0.10	7184398	0.75	0.74	7184398	0.94	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L	32 (1)	2.0	7184545	4.8	4.7	7184545	1.2	0.10	7184545
Total Organic Carbon (TOC)	mg/L	5.1	0.40	7184543	2.0	2.1	7184543	1.8	0.40	7184543
Orthophosphate (P)	mg/L	<0.50 (2)	0.50	7184387	0.010	0.011	7184387	<0.010	0.010	7184387
pH	pH	7.51		7184392	7.63	7.65	7184392	7.66		7184392
Phenols-4AAP	mg/L	<0.0010	0.0010	7184315	<0.0010	<0.0010	7184296	<0.0010	0.0010	7184315
Alkalinity (Total as CaCO3)	mg/L	170	1.0	7184391	290	290	7184391	290	1.0	7184391
Nitrite (N)	mg/L	<0.010	0.010	7184389	<0.010	<0.010	7184389	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L	1500	20	7184390	720	710	7184390	330	10	7184390
Nitrate (N)	mg/L	<0.10	0.10	7184389	<0.10	<0.10	7184389	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389	<0.10	<0.10	7184389	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L	<20	20	7184390	<10	<10	7184390	<10	10	7184390
Dissolved Sulphate (SO4)	mg/L	1600	20	7184390	1600	1600	7184390	1700	10	7184390

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.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO581			OSO615			OSO615		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-09-01			808571-08-01			808571-08-01		
	UNITS	61-III	RDL	QC Batch	G27	RDL	QC Batch	G27 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	7175494	710	1.0	7175494			
Inorganics										
Total Ammonia-N	mg/L	2.5	0.050	7184558	<0.050	0.050	7184562			
Conductivity	umho/cm	4700	1.0	7184507	1500	1.0	7184397			
Total Dissolved Solids	mg/L	3610	10	7184681	1010	10	7184687	985	10	7184687
Fluoride (F-)	mg/L	0.73	0.10	7184509	1.3	0.10	7184398			
Total Kjeldahl Nitrogen (TKN)	mg/L	3.0	0.10	7184545	<0.10	0.10	7184555	<0.10	0.10	7184555
Total Organic Carbon (TOC)	mg/L	2.5	0.40	7184543	2.7	0.40	7184535	2.7	0.40	7184535
Orthophosphate (P)	mg/L	0.018	0.010	7184469	0.033	0.010	7184387			
pH	pH	7.61		7184506	8.23		7184392			
Phenols-4AAP	mg/L	<0.0010	0.0010	7184315	<0.0010	0.0010	7184315			
Alkalinity (Total as CaCO3)	mg/L	310	1.0	7184505	300	1.0	7184391			
Nitrite (N)	mg/L	<0.010	0.010	7184503	<0.010	0.010	7184389			
Dissolved Chloride (Cl-)	mg/L	700	10	7184504	130	5.0	7184390			
Nitrate (N)	mg/L	0.22	0.10	7184503	4.42	0.10	7184389			
Nitrate + Nitrite (N)	mg/L	0.22	0.10	7184503	4.42	0.10	7184389			
Dissolved Bromide (Br-)	mg/L	<10	10	7184504	<5.0	5.0	7184390			
Dissolved Sulphate (SO4)	mg/L	1400	10	7184504	300	5.0	7184390			

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO616			OSO616			OSO617		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-08-01			808571-08-01			808571-08-01		
	UNITS	P5-IR	RDL	QC Batch	P5-IR Lab-Dup	RDL	QC Batch	P5-IIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7175494				1700	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	56	0.25	7184562	56	0.25	7184562	1.9	0.050	7184562
Conductivity	umho/cm	7400	1.0	7184397				3200	1.0	7184507
Total Dissolved Solids	mg/L	5080	20	7184687				2460	10	7184687
Fluoride (F-)	mg/L	1.6	0.10	7184398				0.51	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L	54 (1)	2.0	7184555				2.2	0.10	7184555
Total Organic Carbon (TOC)	mg/L	11	0.40	7184535				2.3	0.40	7184535
Orthophosphate (P)	mg/L	<0.50 (2)	0.50	7184387				<0.010	0.010	7184469
pH	pH	7.57		7184392				7.68		7184506
Phenols-4AAP	mg/L	0.0092	0.0050	7184296				<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	60	1.0	7184391				260	1.0	7184505
Nitrite (N)	mg/L	<0.010	0.010	7184389				<0.010	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	1300	20	7184390				290	5.0	7184504
Nitrate (N)	mg/L	<0.10	0.10	7184389				<0.10	0.10	7184503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389				<0.10	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<20	20	7184390				<5.0	5.0	7184504
Dissolved Sulphate (SO4)	mg/L	1900	20	7184390				1300	5.0	7184504

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.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO617			OSO618			OSO619		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-08-01			808571-08-01			808571-08-01		
	UNITS	P5-IIR Lab-Dup	RDL	QC Batch	P5-IIIR	RDL	QC Batch	P5-IVR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				330	1.0	7175494	840	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L				51	0.25	7184562	0.42	0.050	7184562
Conductivity	umho/cm	3200	1.0	7184507	5100	1.0	7184507	1600	1.0	7184507
Total Dissolved Solids	mg/L				2560	10	7184687	1110	10	7184687
Fluoride (F-)	mg/L	0.50	0.10	7184509	2.0	0.10	7184509	0.60	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L				52	2.0	7184555	0.76	0.10	7184555
Total Organic Carbon (TOC)	mg/L				15	0.40	7184535	9.0	0.40	7184535
Orthophosphate (P)	mg/L	<0.010	0.010	7184469	<0.010	0.010	7184469	<0.10 (1)	0.10	7184469
pH	pH	7.67		7184506	7.79		7184506	7.58		7184506
Phenols-4AAP	mg/L				0.083	0.010	7184296	0.0020	0.0020	7184315
Alkalinity (Total as CaCO3)	mg/L	260	1.0	7184505	140	1.0	7184505	450	1.0	7184505
Nitrite (N)	mg/L	<0.010	0.010	7184503	<0.010	0.010	7184503	<0.010	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	300	5.0	7184504	1200	10	7184504	28	1.0	7184504
Nitrate (N)	mg/L	<0.10	0.10	7184503	<0.10	0.10	7184503	<0.10	0.10	7184503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184503	<0.10	0.10	7184503	<0.10	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7184504	<10	10	7184504	<1.0	1.0	7184504
Dissolved Sulphate (SO4)	mg/L	1300	5.0	7184504	420	10	7184504	440	1.0	7184504

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO620			OSO621			OSO621		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-08-01			808571-08-01			808571-08-01		
	UNITS	P11-II	RDL	QC Batch	67-II	RDL	QC Batch	67-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	720	1.0	7175494	950	1.0	7175494			
Inorganics										
Total Ammonia-N	mg/L	0.62	0.050	7184562	22	0.050	7184562			
Conductivity	umho/cm	1700	1.0	7184507	4200	1.0	7184507			
Total Dissolved Solids	mg/L	1080	10	7184687	2480	10	7184687			
Fluoride (F-)	mg/L	0.46	0.10	7184509	0.97	0.10	7184509			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.76	0.10	7184555	23	1.0	7184555			
Total Organic Carbon (TOC)	mg/L	1.6	0.40	7184535	6.5	0.40	7184535			
Orthophosphate (P)	mg/L	<0.010	0.010	7184469	<0.010	0.010	7184469			
pH	pH	7.81		7184506	7.73		7184506			
Phenols-4AAP	mg/L	<0.0010	0.0010	7184296	0.0015	0.0010	7184315	0.0024	0.0010	7184315
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7184505	300	1.0	7184505			
Nitrite (N)	mg/L	<0.010	0.010	7184503	0.174	0.010	7184503			
Dissolved Chloride (Cl-)	mg/L	200	5.0	7184504	810	10	7184504			
Nitrate (N)	mg/L	<0.10	0.10	7184503	1.08	0.10	7184503			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184503	1.26	0.10	7184503			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7184504	<10	10	7184504			
Dissolved Sulphate (SO4)	mg/L	310	5.0	7184504	670	10	7184504			

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



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO622		OSO623			OSO624		
Sampling Date		2021/01/28		2021/01/28			2021/01/28		
COC Number		808571-08-01		808571-08-01			808571-08-01		
	UNITS	67-III	RDL	P7-II	RDL	QC Batch	P7-III	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	510	1.0	1200	1.0	7175494	430	1.0	7175494
Inorganics									
Total Ammonia-N	mg/L	7.2	0.050	21	0.050	7184562	47 (1)	0.25	7184562
Conductivity	umho/cm	2300	1.0	4200	1.0	7184507	4400	1.0	7184507
Total Dissolved Solids	mg/L	1270	10	2850	10	7184687	2780	10	7184687
Fluoride (F-)	mg/L	0.99	0.10	0.98	0.10	7184509	1.4	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L	7.7	1.0	22	1.0	7184555	47 (1)	2.0	7184555
Total Organic Carbon (TOC)	mg/L	5.5	0.40	18	0.40	7184535	16	0.40	7184535
Orthophosphate (P)	mg/L	<0.010	0.010	0.049	0.010	7184469	0.070	0.010	7184469
pH	pH	8.04		8.63		7184506	8.92		7184506
Phenols-4AAP	mg/L	<0.0010	0.0010	0.65	0.050	7184296	0.39	0.020	7184315
Alkalinity (Total as CaCO3)	mg/L	250	1.0	75	1.0	7184505	140	1.0	7184505
Nitrite (N)	mg/L	0.039	0.010	<0.010	0.010	7184503	0.030	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	390	5.0	590	10	7184504	910	10	7184504
Nitrate (N)	mg/L	0.61	0.10	<0.10	0.10	7184503	1.84	0.10	7184503
Nitrate + Nitrite (N)	mg/L	0.65	0.10	<0.10	0.10	7184503	1.87	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	<10	10	7184504	<10	10	7184504
Dissolved Sulphate (SO4)	mg/L	320	5.0	1300	10	7184504	610	10	7184504
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 #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO627		
Sampling Date		2021/01/28		
COC Number		808571-11-01		
	UNITS	P7-IV	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO ₃)	mg/L	120	1.0	7175494
Inorganics				
Total Ammonia-N	mg/L	38	0.25	7184562
Conductivity	umho/cm	1700	1.0	7184507
Total Dissolved Solids	mg/L	975	10	7184687
Fluoride (F ⁻)	mg/L	2.7	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L	40	2.0	7184555
Total Organic Carbon (TOC)	mg/L	82	0.40	7184535
Orthophosphate (P)	mg/L	<0.50 (1)	0.50	7184469
pH	pH	9.62		7184506
Phenols-4AAP	mg/L	3.0	0.10	7184296
Alkalinity (Total as CaCO ₃)	mg/L	230	1.0	7184505
Nitrite (N)	mg/L	<0.010	0.010	7184503
Dissolved Chloride (Cl ⁻)	mg/L	150	5.0	7184504
Nitrate (N)	mg/L	<0.10	0.10	7184503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184503
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	7184504
Dissolved Sulphate (SO ₄)	mg/L	320	5.0	7184504
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.				



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO554		OSO555	OSO556		OSO557	OSO558		
Sampling Date		2021/01/28		2021/01/28	2021/01/28		2021/01/28	2021/01/28		
COC Number		808571-10-01		808571-10-01	808571-10-01		808571-10-01	808571-10-01		
	UNITS	33-I	RDL	33-II	30-II	RDL	58-I	41-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	10	23	4.9	1000	<25	25	7184237
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	12	<2.5	2.5	7184237
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	3.2	1.0	81	<5.0	5.0	7184237
Dissolved Barium (Ba)	ug/L	100	10	16	41	2.0	38	13	10	7184237
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	<0.40	0.40	<2.0	<2.0	2.0	7184237
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7184237
Dissolved Boron (B)	ug/L	340	50	29	59	10	480	550	50	7184237
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	0.11	<0.090	0.090	<0.45	<0.45	0.45	7184237
Dissolved Calcium (Ca)	ug/L	430000	1000	48000	230000	200	67000	620000	1000	7184237
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7184237
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7184237
Dissolved Copper (Cu)	ug/L	<4.5	4.5	3.8	2.7	0.90	<4.5	<4.5	4.5	7184237
Dissolved Iron (Fe)	ug/L	510	500	<100	<100	100	<500	<500	500	7184237
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	13	<2.5	2.5	7184237
Dissolved Lithium (Li)	ug/L	<25	25	<5.0	16	5.0	87	88	25	7184237
Dissolved Magnesium (Mg)	ug/L	21000	250	6900	970	50	<250	62000	250	7184237
Dissolved Manganese (Mn)	ug/L	710	10	<2.0	<2.0	2.0	<10	74	10	7184237
Dissolved Molybdenum (Mo)	ug/L	24	2.5	3.0	61	0.50	900	<2.5	2.5	7184237
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	<1.0	2.8	1.0	170	<5.0	5.0	7184237
Dissolved Phosphorus (P)	ug/L	<500	500	210	<100	100	900	<500	500	7184237
Dissolved Potassium (K)	ug/L	49000	1000	7100	83000	200	410000	22000	1000	7184237
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	<2.0	2.0	<10	<10	10	7184237
Dissolved Silicon (Si)	ug/L	4700	250	3100	6800	50	12000	3900	250	7184237
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	<0.090	0.090	<0.45	<0.45	0.45	7184237
Dissolved Sodium (Na)	ug/L	400000	500	16000	270000	100	1200000	380000	500	7184237
Dissolved Strontium (Sr)	ug/L	2000	5.0	260	2000	1.0	360	7400	5.0	7184237
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7184237
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	0.061	0.050	<0.25	<0.25	0.25	7184237
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7184237
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7184237
Dissolved Tungsten (W)	ug/L	<5.0	5.0	2.1	9.6	1.0	110	<5.0	5.0	7184237
Dissolved Uranium (U)	ug/L	<0.50	0.50	0.41	<0.10	0.10	<0.50	<0.50	0.50	7184237
Dissolved Vanadium (V)	ug/L	<2.5	2.5	1.4	37	0.50	71	<2.5	2.5	7184237
Dissolved Zinc (Zn)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7184237
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7184237
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO559	OSO560		OSO561			OSO562		
Sampling Date		2021/01/28	2021/01/28		2021/01/28			2021/01/28		
COC Number		808571-10-01	808571-10-01		808571-10-01			808571-10-01		
	UNITS	41-II	41-III	QC Batch	P3-II	RDL	QC Batch	P3-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	23	<4.9	7184237	5.4	4.9	7191403	6.1	4.9	7182245
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	7184237	<0.50	0.50	7191403	0.57	0.50	7182245
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	7184237	1.4	1.0	7191403	<1.0	1.0	7182245
Dissolved Barium (Ba)	ug/L	37	33	7184237	31	2.0	7191403	43	2.0	7182245
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	7184237	<0.40	0.40	7191403	<0.40	0.40	7182245
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
Dissolved Boron (B)	ug/L	130	110	7184237	570	10	7191403	370	10	7182245
Dissolved Cadmium (Cd)	ug/L	<0.090	0.12	7184237	<0.090	0.090	7191403	0.58	0.090	7182245
Dissolved Calcium (Ca)	ug/L	120000	140000	7184237	160000	200	7191403	320000	400	7182245
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	7184237	<5.0	5.0	7191403	<5.0	5.0	7182245
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	7184237	<0.50	0.50	7191403	2.0	0.50	7182245
Dissolved Copper (Cu)	ug/L	1.6	1.7	7184237	<0.90	0.90	7191403	<0.90	0.90	7182245
Dissolved Iron (Fe)	ug/L	<100	<100	7184237	1200	100	7191403	<100	100	7182245
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	7184237	<0.50	0.50	7191403	<0.50	0.50	7182245
Dissolved Lithium (Li)	ug/L	16	<5.0	7184237	37	5.0	7191403	68	5.0	7182245
Dissolved Magnesium (Mg)	ug/L	63000	63000	7184237	38000	50	7191403	110000	50	7182245
Dissolved Manganese (Mn)	ug/L	23	<2.0	7184237	140	2.0	7191403	260	2.0	7182245
Dissolved Molybdenum (Mo)	ug/L	0.69	<0.50	7184237	1.3	0.50	7191403	0.71	0.50	7182245
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	7184237	1.1	1.0	7191403	4.7	1.0	7182245
Dissolved Phosphorus (P)	ug/L	<100	<100	7184237	<100	100	7191403	<100	100	7182245
Dissolved Potassium (K)	ug/L	1400	960	7184237	25000	200	7191403	19000	200	7182245
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	7184237	<2.0	2.0	7191403	<2.0	2.0	7182245
Dissolved Silicon (Si)	ug/L	7000	5100	7184237	9600	50	7191403	5100	50	7182245
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	7184237	<0.090	0.090	7191403	<0.090	0.090	7182245
Dissolved Sodium (Na)	ug/L	34000	46000	7184237	160000	100	7191403	300000	100	7182245
Dissolved Strontium (Sr)	ug/L	960	830	7184237	4800	1.0	7191403	6800	1.0	7182245
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	7184237	<0.050	0.050	7191403	<0.050	0.050	7182245
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	7184237	<5.0	5.0	7191403	<5.0	5.0	7182245
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
Dissolved Uranium (U)	ug/L	2.5	2.7	7184237	0.17	0.10	7191403	0.19	0.10	7182245
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	7184237	<0.50	0.50	7191403	<0.50	0.50	7182245
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	7184237	<5.0	5.0	7191403	<5.0	5.0	7182245
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO563			OSO572			OSO573			OSO573		
Sampling Date		2021/01/28			2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-09-01			808571-09-01			808571-09-01		
	UNITS	32-II	RDL	QC Batch	62-I	RDL	QC Batch	62-II	62-II Lab-Dup	RDL	QC Batch		
Metals													
Dissolved Aluminum (Al)	ug/L	240	4.9	7191403	<25	25	7184237	<4.9	<4.9	4.9	7185288		
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Barium (Ba)	ug/L	28	2.0	7191403	14	10	7184237	18	20	2.0	7185288		
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7191403	<2.0	2.0	7184237	<0.40	<0.40	0.40	7185288		
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Boron (B)	ug/L	12	10	7191403	1300	50	7184237	1300	1300	10	7185288		
Dissolved Cadmium (Cd)	ug/L	1.5	0.090	7191403	<0.45	0.45	7184237	<0.090	<0.090	0.090	7185288		
Dissolved Calcium (Ca)	ug/L	200000	200	7191403	700000	1000	7184237	650000	670000	1000	7185288		
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7191403	<25	25	7184237	<5.0	<5.0	5.0	7185288		
Dissolved Cobalt (Co)	ug/L	2.2	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Copper (Cu)	ug/L	0.97	0.90	7191403	<4.5	4.5	7184237	<0.90	<0.90	0.90	7185288		
Dissolved Iron (Fe)	ug/L	23000	100	7191403	<500	500	7184237	<100	<100	100	7185288		
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Lithium (Li)	ug/L	5.5	5.0	7191403	360	25	7184237	270	270	5.0	7185288		
Dissolved Magnesium (Mg)	ug/L	17000	50	7191403	100000	250	7184237	90000	91000	50	7185288		
Dissolved Manganese (Mn)	ug/L	17000	10	7191403	85	10	7184237	65	65	2.0	7185288		
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Nickel (Ni)	ug/L	13	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Phosphorus (P)	ug/L	110	100	7191403	<500	500	7184237	<100	<100	100	7185288		
Dissolved Potassium (K)	ug/L	29000	200	7191403	49000	1000	7184237	58000	58000	200	7185288		
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7191403	<10	10	7184237	<2.0	<2.0	2.0	7185288		
Dissolved Silicon (Si)	ug/L	2300	50	7191403	3800	250	7184237	5000	5000	50	7185288		
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7191403	<0.45	0.45	7184237	<0.090	<0.090	0.090	7185288		
Dissolved Sodium (Na)	ug/L	70000	100	7191403	850000	500	7184237	850000	880000	500	7185288		
Dissolved Strontium (Sr)	ug/L	290	1.0	7191403	11000	5.0	7184237	9600	9600	1.0	7185288		
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7191403	<0.25	0.25	7184237	<0.050	<0.050	0.050	7185288		
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7191403	<25	25	7184237	<5.0	<5.0	5.0	7185288		
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Uranium (U)	ug/L	<0.10	0.10	7191403	<0.50	0.50	7184237	<0.10	<0.10	0.10	7185288		
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Zinc (Zn)	ug/L	57	5.0	7191403	<25	25	7184237	<5.0	<5.0	5.0	7185288		
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		

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



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO574		OSO575			OSO576	OSO576		
Sampling Date		2021/01/28		2021/01/28			2021/01/28	2021/01/28		
COC Number		808571-09-01		808571-09-01			808571-09-01	808571-09-01		
	UNITS	62-III	QC Batch	62-IV	RDL	QC Batch	36-IIIR	36-IIIR Lab-Dup	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	7184237	<4.9	4.9	7182245	<25	<25	25	7184237
Dissolved Antimony (Sb)	ug/L	<0.50	7184237	<0.50	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Arsenic (As)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Barium (Ba)	ug/L	39	7184237	82	2.0	7182245	<10	<10	10	7184237
Dissolved Beryllium (Be)	ug/L	<0.40	7184237	<0.40	0.40	7182245	<2.0	<2.0	2.0	7184237
Dissolved Bismuth (Bi)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Boron (B)	ug/L	75	7184237	90	10	7182245	3800	3700	50	7184237
Dissolved Cadmium (Cd)	ug/L	<0.090	7184237	<0.090	0.090	7182245	<0.45	<0.45	0.45	7184237
Dissolved Calcium (Ca)	ug/L	180000	7184237	130000	200	7182245	600000	600000	1000	7184237
Dissolved Chromium (Cr)	ug/L	<5.0	7184237	<5.0	5.0	7182245	<25	<25	25	7184237
Dissolved Cobalt (Co)	ug/L	0.55	7184237	0.55	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Copper (Cu)	ug/L	<0.90	7184237	1.4	0.90	7182245	<4.5	<4.5	4.5	7184237
Dissolved Iron (Fe)	ug/L	350	7184237	<100	100	7182245	<500	<500	500	7184237
Dissolved Lead (Pb)	ug/L	<0.50	7184237	<0.50	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Lithium (Li)	ug/L	22	7184237	23	5.0	7182245	970	930	25	7184237
Dissolved Magnesium (Mg)	ug/L	65000	7184237	42000	50	7182245	110000	110000	250	7184237
Dissolved Manganese (Mn)	ug/L	100	7184237	95	2.0	7182245	68	67	10	7184237
Dissolved Molybdenum (Mo)	ug/L	0.65	7184237	2.4	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Nickel (Ni)	ug/L	4.1	7184237	1.8	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Phosphorus (P)	ug/L	<100	7184237	<100	100	7182245	<500	<500	500	7184237
Dissolved Potassium (K)	ug/L	3400	7184237	2500	200	7182245	30000	29000	1000	7184237
Dissolved Selenium (Se)	ug/L	<2.0	7184237	<2.0	2.0	7182245	<10	<10	10	7184237
Dissolved Silicon (Si)	ug/L	5800	7184237	4200	50	7182245	3200	3200	250	7184237
Dissolved Silver (Ag)	ug/L	<0.090	7184237	<0.090	0.090	7182245	<0.45	<0.45	0.45	7184237
Dissolved Sodium (Na)	ug/L	110000	7184237	110000	100	7182245	560000	550000	500	7184237
Dissolved Strontium (Sr)	ug/L	900	7184237	840	1.0	7182245	6900	6700	5.0	7184237
Dissolved Tellurium (Te)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Thallium (Tl)	ug/L	<0.050	7184237	<0.050	0.050	7182245	<0.25	<0.25	0.25	7184237
Dissolved Tin (Sn)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Titanium (Ti)	ug/L	<5.0	7184237	<5.0	5.0	7182245	<25	<25	25	7184237
Dissolved Tungsten (W)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Uranium (U)	ug/L	2.2	7184237	1.9	0.10	7182245	15	15	0.50	7184237
Dissolved Vanadium (V)	ug/L	<0.50	7184237	<0.50	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Zinc (Zn)	ug/L	50	7184237	<5.0	5.0	7182245	<25	<25	25	7184237
Dissolved Zirconium (Zr)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO577	OSO578		OSO579	OSO580	OSO581		
Sampling Date		2021/01/28	2021/01/28		2021/01/28	2021/01/28	2021/01/28		
COC Number		808571-09-01	808571-09-01		808571-09-01	808571-09-01	808571-09-01		
	UNITS	2-III	11-III	QC Batch	61-I	61-II	61-III	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<25	45	7182245	<25	27	<25	25	7184237
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Barium (Ba)	ug/L	20	15	7182245	13	14	21	10	7184237
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	7182245	<2.0	<2.0	<2.0	2.0	7184237
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Boron (B)	ug/L	1200	1500	7182245	1400	2600	2100	50	7184237
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	7182245	<0.45	<0.45	<0.45	0.45	7184237
Dissolved Calcium (Ca)	ug/L	620000	650000	7182245	650000	470000	680000	1000	7184237
Dissolved Chromium (Cr)	ug/L	<25	<25	7182245	<25	<25	<25	25	7184237
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	7182245	<4.5	<4.5	<4.5	4.5	7184237
Dissolved Iron (Fe)	ug/L	<500	<500	7182245	<500	<500	<500	500	7184237
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Lithium (Li)	ug/L	280	230	7182245	240	380	210	25	7184237
Dissolved Magnesium (Mg)	ug/L	87000	100000	7182245	97000	87000	93000	250	7184237
Dissolved Manganese (Mn)	ug/L	59	94	7182245	96	170	72	10	7184237
Dissolved Molybdenum (Mo)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Nickel (Ni)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Phosphorus (P)	ug/L	<500	<500	7182245	<500	<500	<500	500	7184237
Dissolved Potassium (K)	ug/L	52000	25000	7182245	25000	17000	25000	1000	7184237
Dissolved Selenium (Se)	ug/L	<10	<10	7182245	<10	<10	<10	10	7184237
Dissolved Silicon (Si)	ug/L	4300	3500	7182245	3500	5300	3800	250	7184237
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	7182245	<0.45	<0.45	<0.45	0.45	7184237
Dissolved Sodium (Na)	ug/L	850000	400000	7182245	390000	350000	280000	500	7184237
Dissolved Strontium (Sr)	ug/L	8300	5400	7182245	5600	5900	8500	5.0	7184237
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	7182245	<0.25	<0.25	<0.25	0.25	7184237
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Titanium (Ti)	ug/L	<25	<25	7182245	<25	<25	<25	25	7184237
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Uranium (U)	ug/L	<0.50	<0.50	7182245	<0.50	<0.50	0.67	0.50	7184237
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Zinc (Zn)	ug/L	<25	<25	7182245	<25	<25	<25	25	7184237
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO615		OSO616		OSO617		OSO618		
Sampling Date		2021/01/28		2021/01/28		2021/01/28		2021/01/28		
COC Number		808571-08-01		808571-08-01		808571-08-01		808571-08-01		
	UNITS	G27	RDL	P5-IR	QC Batch	P5-IIR	QC Batch	P5-IIIR	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	190	4.9	<25	7182245	<25	7184237	<25	25	7182245
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	7182245	<2.5	7184237	<2.5	2.5	7182245
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
Dissolved Barium (Ba)	ug/L	35	2.0	26	7182245	12	7184237	11	10	7182245
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	7182245	<2.0	7184237	<2.0	2.0	7182245
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
Dissolved Boron (B)	ug/L	39	10	790	7182245	380	7184237	490	50	7182245
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	7182245	<0.45	7184237	<0.45	0.45	7182245
Dissolved Calcium (Ca)	ug/L	120000	200	600000	7182245	530000	7184237	66000	1000	7182245
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	7182245	<25	7184237	<25	25	7182245
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	7182245	<2.5	7184237	<2.5	2.5	7182245
Dissolved Copper (Cu)	ug/L	1.4	0.90	<4.5	7182245	<4.5	7184237	<4.5	4.5	7182245
Dissolved Iron (Fe)	ug/L	230	100	<500	7182245	<500	7184237	<500	500	7182245
Dissolved Lead (Pb)	ug/L	0.63	0.50	<2.5	7182245	<2.5	7184237	<2.5	2.5	7182245
Dissolved Lithium (Li)	ug/L	32	5.0	79	7182245	67	7184237	31	25	7182245
Dissolved Magnesium (Mg)	ug/L	97000	50	48000	7182245	94000	7184237	40000	250	7182245
Dissolved Manganese (Mn)	ug/L	7.5	2.0	44	7182245	59	7184237	<10	10	7182245
Dissolved Molybdenum (Mo)	ug/L	4.0	0.50	<2.5	7182245	<2.5	7184237	16	2.5	7182245
Dissolved Nickel (Ni)	ug/L	1.9	1.0	<5.0	7182245	<5.0	7184237	5.0	5.0	7182245
Dissolved Phosphorus (P)	ug/L	<100	100	<500	7182245	<500	7184237	<500	500	7182245
Dissolved Potassium (K)	ug/L	1500	200	65000	7182245	11000	7184237	45000	1000	7182245
Dissolved Selenium (Se)	ug/L	2.1	2.0	<10	7182245	<10	7184237	<10	10	7182245
Dissolved Silicon (Si)	ug/L	5400	50	5000	7182245	3400	7184237	8900	250	7182245
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	7182245	<0.45	7184237	<0.45	0.45	7182245
Dissolved Sodium (Na)	ug/L	55000	100	890000	7182245	97000	7184237	800000	500	7182245
Dissolved Strontium (Sr)	ug/L	1100	1.0	5300	7182245	6200	7184237	2000	5.0	7182245
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	7182245	<0.25	7184237	<0.25	0.25	7182245
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
Dissolved Titanium (Ti)	ug/L	5.5	5.0	<25	7182245	<25	7184237	<25	25	7182245
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	8.3	5.0	7182245
Dissolved Uranium (U)	ug/L	9.6	0.10	<0.50	7182245	<0.50	7184237	<0.50	0.50	7182245
Dissolved Vanadium (V)	ug/L	0.84	0.50	<2.5	7182245	<2.5	7184237	<2.5	2.5	7182245
Dissolved Zinc (Zn)	ug/L	22	5.0	<25	7182245	<25	7184237	<25	25	7182245
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO619		OSO620	OSO621		OSO622	OSO623		
Sampling Date		2021/01/28		2021/01/28	2021/01/28		2021/01/28	2021/01/28		
COC Number		808571-08-01		808571-08-01	808571-08-01		808571-08-01	808571-08-01		
	UNITS	P5-IVR	RDL	P11-II	67-II	QC Batch	67-III	P7-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	5.6	4.9	13	<4.9	7184237	<4.9	23	4.9	7182245
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	7184237	<0.50	<0.50	0.50	7182245
Dissolved Arsenic (As)	ug/L	2.5	1.0	<1.0	1.3	7184237	<1.0	2.3	1.0	7182245
Dissolved Barium (Ba)	ug/L	54	2.0	10	23	7184237	24	31	2.0	7182245
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	7184237	<0.40	<0.40	0.40	7182245
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	7184237	<1.0	<1.0	1.0	7182245
Dissolved Boron (B)	ug/L	150	10	360	2100	7184237	550	390	10	7182245
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	7184237	<0.090	<0.090	0.090	7182245
Dissolved Calcium (Ca)	ug/L	230000	400	180000	270000	7184237	100000	460000	200	7182245
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	7184237	<5.0	<5.0	5.0	7182245
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.73	7184237	<0.50	<0.50	0.50	7182245
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	7184237	<0.90	<0.90	0.90	7182245
Dissolved Iron (Fe)	ug/L	6100	100	<100	2300	7184237	<100	<100	100	7182245
Dissolved Lead (Pb)	ug/L	0.61	0.50	<0.50	<0.50	7184237	<0.50	<0.50	0.50	7182245
Dissolved Lithium (Li)	ug/L	8.4	5.0	82	81	7184237	53	38	5.0	7182245
Dissolved Magnesium (Mg)	ug/L	68000	50	65000	64000	7184237	62000	23000	50	7182245
Dissolved Manganese (Mn)	ug/L	420	2.0	29	150	7184237	17	3.7	2.0	7182245
Dissolved Molybdenum (Mo)	ug/L	2.1	0.50	<0.50	4.4	7184237	9.1	26	0.50	7182245
Dissolved Nickel (Ni)	ug/L	2.7	1.0	<1.0	5.3	7184237	2.4	6.5	1.0	7182245
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	7184237	<100	110	100	7182245
Dissolved Potassium (K)	ug/L	6900	200	9000	41000	7184237	13000	89000	200	7182245
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	7184237	<2.0	<2.0	2.0	7182245
Dissolved Silicon (Si)	ug/L	4200	50	4100	6500	7184237	5800	6600	50	7182245
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	7184237	<0.090	<0.090	0.090	7182245
Dissolved Sodium (Na)	ug/L	35000	100	88000	500000	7184237	240000	430000	100	7182245
Dissolved Strontium (Sr)	ug/L	6000	1.0	4800	4900	7184237	1200	4000	1.0	7182245
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	7184237	<1.0	<1.0	1.0	7182245
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	7184237	<0.050	<0.050	0.050	7182245
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	7184237	<1.0	<1.0	1.0	7182245
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	7184237	<5.0	<5.0	5.0	7182245
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.3	7184237	2.1	7.0	1.0	7182245
Dissolved Uranium (U)	ug/L	6.8	0.10	<0.10	0.19	7184237	3.0	<0.10	0.10	7182245
Dissolved Vanadium (V)	ug/L	2.6	0.50	<0.50	<0.50	7184237	<0.50	1.0	0.50	7182245
Dissolved Zinc (Zn)	ug/L	57	5.0	<5.0	<5.0	7184237	9.1	<5.0	5.0	7182245
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	7184237	<1.0	<1.0	1.0	7182245

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO624			OSO627		
Sampling Date		2021/01/28			2021/01/28		
COC Number		808571-08-01			808571-11-01		
	UNITS	P7-III	RDL	QC Batch	P7-IV	RDL	QC Batch
Metals							
Dissolved Aluminum (Al)	ug/L	81	25	7182245	98	4.9	7184237
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	7182245	<0.50	0.50	7184237
Dissolved Arsenic (As)	ug/L	<5.0	5.0	7182245	4.1	1.0	7184237
Dissolved Barium (Ba)	ug/L	49	10	7182245	3.2	2.0	7184237
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	7182245	<0.40	0.40	7184237
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	7182245	<1.0	1.0	7184237
Dissolved Boron (B)	ug/L	540	50	7182245	560	10	7184237
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	7182245	<0.090	0.090	7184237
Dissolved Calcium (Ca)	ug/L	140000	1000	7182245	39000	200	7184237
Dissolved Chromium (Cr)	ug/L	<25	25	7182245	<5.0	5.0	7184237
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	7182245	<0.50	0.50	7184237
Dissolved Copper (Cu)	ug/L	<4.5	4.5	7182245	<0.90	0.90	7184237
Dissolved Iron (Fe)	ug/L	<500	500	7182245	<100	100	7184237
Dissolved Lead (Pb)	ug/L	<2.5	2.5	7182245	0.88	0.50	7184237
Dissolved Lithium (Li)	ug/L	48	25	7182245	20	5.0	7184237
Dissolved Magnesium (Mg)	ug/L	17000	250	7182245	5300	50	7184237
Dissolved Manganese (Mn)	ug/L	<10	10	7182245	<2.0	2.0	7184237
Dissolved Molybdenum (Mo)	ug/L	21	2.5	7182245	86	0.50	7184237
Dissolved Nickel (Ni)	ug/L	8.2	5.0	7182245	28	1.0	7184237
Dissolved Phosphorus (P)	ug/L	<500	500	7182245	110	100	7184237
Dissolved Potassium (K)	ug/L	60000	1000	7182245	51000	200	7184237
Dissolved Selenium (Se)	ug/L	<10	10	7182245	2.5	2.0	7184237
Dissolved Silicon (Si)	ug/L	5000	250	7182245	14000	50	7184237
Dissolved Silver (Ag)	ug/L	<0.45	0.45	7182245	<0.090	0.090	7184237
Dissolved Sodium (Na)	ug/L	760000	500	7182245	270000	100	7184237
Dissolved Strontium (Sr)	ug/L	1700	5.0	7182245	650	1.0	7184237
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	7182245	<1.0	1.0	7184237
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	7182245	<0.050	0.050	7184237
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7182245	<1.0	1.0	7184237
Dissolved Titanium (Ti)	ug/L	<25	25	7182245	<5.0	5.0	7184237
Dissolved Tungsten (W)	ug/L	7.4	5.0	7182245	23	1.0	7184237
Dissolved Uranium (U)	ug/L	<0.50	0.50	7182245	<0.10	0.10	7184237
Dissolved Vanadium (V)	ug/L	<2.5	2.5	7182245	3.3	0.50	7184237
Dissolved Zinc (Zn)	ug/L	<25	25	7182245	<5.0	5.0	7184237
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	7182245	<1.0	1.0	7184237
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO554
Sample ID: 33-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO554 Dup
Sample ID: 33-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO555
Sample ID: 33-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO555 Dup
Sample ID: 33-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu

BV Labs ID: OSO556
Sample ID: 30-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO557
Sample ID: 58-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO558
Sample ID: 41-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO558 Dup
Sample ID: 41-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan

BV Labs ID: OSO559
Sample ID: 41-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO559
Sample ID: 41-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO560
Sample ID: 41-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO561
Sample ID: P3-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7191403	N/A	2021/02/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO562
Sample ID: P3-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO563
Sample ID: 32-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7191403	N/A	2021/02/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO572
Sample ID: 62-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO572
Sample ID: 62-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO573
Sample ID: 62-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	7185288	2021/02/04	2021/02/05	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO573 Dup
Sample ID: 62-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Lab Filtered Metals by ICPMS	ICP/MS	7185288	2021/02/04	2021/02/05	Azita Fazaeli
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/04	Bramdeo Motiram

BV Labs ID: OSO574
Sample ID: 62-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO574
Sample ID: 62-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO575
Sample ID: 62-IV
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO576
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO576
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO576 Dup
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha

BV Labs ID: OSO577
Sample ID: 2-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO578
Sample ID: 11-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO578
Sample ID: 11-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO579
Sample ID: 61-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO580
Sample ID: 61-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO580
Sample ID: 61-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO581
Sample ID: 61-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO615
Sample ID: G27
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO615 Dup
Sample ID: G27
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO616
Sample ID: P5-IR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO616 Dup
Sample ID: P5-IR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu

BV Labs ID: OSO617
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO617
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO617 Dup
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan

BV Labs ID: OSO618
Sample ID: P5-IIIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO619
Sample ID: P5-IVR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO619
Sample ID: P5-IVR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO620
Sample ID: P11-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO621
Sample ID: 67-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO621
Sample ID: 67-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO621 Dup
Sample ID: 67-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/04	Bramdeo Motiram

BV Labs ID: OSO622
Sample ID: 67-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO623
Sample ID: P7-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO623
Sample ID: P7-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO624
Sample ID: P7-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO627
Sample ID: P7-IV
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai



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BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO627
Sample ID: P7-IV
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh



GENERAL COMMENTS

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

Package 1	0.7°C
Package 2	1.0°C
Package 3	-1.0°C
Package 4	-1.0°C
Package 5	0.0°C

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

Sample OSO554 [33-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO556 [30-II] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO557 [58-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO558 [41-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO559 [41-II] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO560 [41-III] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO561 [P3-II] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO562 [P3-III] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO572 [62-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO576 [36-IIIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO577 [2-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO578 [11-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO579 [61-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO580 [61-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO581 [61-III] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO616 [P5-IR] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO617 [P5-IIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO618 [P5-IIIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



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Sample OSO624 [P7-III] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.
Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



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BV Labs Job #: C125935

Report Date: 2021/02/09

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
7182245	Dissolved Aluminum (Al)	2021/02/05	98	80 - 120	95	80 - 120	<4.9	ug/L				
7182245	Dissolved Antimony (Sb)	2021/02/05	104	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182245	Dissolved Arsenic (As)	2021/02/05	97	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7182245	Dissolved Barium (Ba)	2021/02/05	98	80 - 120	95	80 - 120	<2.0	ug/L	6.7	20		
7182245	Dissolved Beryllium (Be)	2021/02/05	109	80 - 120	105	80 - 120	<0.40	ug/L	NC	20		
7182245	Dissolved Bismuth (Bi)	2021/02/05	96	80 - 120	98	80 - 120	<1.0	ug/L				
7182245	Dissolved Boron (B)	2021/02/05	NC	80 - 120	98	80 - 120	<10	ug/L	0.29	20		
7182245	Dissolved Cadmium (Cd)	2021/02/05	100	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7182245	Dissolved Calcium (Ca)	2021/02/05	NC	80 - 120	92	80 - 120	<200	ug/L				
7182245	Dissolved Chromium (Cr)	2021/02/05	95	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7182245	Dissolved Cobalt (Co)	2021/02/05	96	80 - 120	97	80 - 120	<0.50	ug/L	0.13	20		
7182245	Dissolved Copper (Cu)	2021/02/05	96	80 - 120	94	80 - 120	<0.90	ug/L	NC	20		
7182245	Dissolved Iron (Fe)	2021/02/05	95	80 - 120	93	80 - 120	<100	ug/L				
7182245	Dissolved Lead (Pb)	2021/02/05	98	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7182245	Dissolved Lithium (Li)	2021/02/05	107	80 - 120	106	80 - 120	<5.0	ug/L				
7182245	Dissolved Magnesium (Mg)	2021/02/05	NC	80 - 120	93	80 - 120	<50	ug/L				
7182245	Dissolved Manganese (Mn)	2021/02/05	NC	80 - 120	93	80 - 120	<2.0	ug/L				
7182245	Dissolved Molybdenum (Mo)	2021/02/05	105	80 - 120	98	80 - 120	<0.50	ug/L	1.9	20		
7182245	Dissolved Nickel (Ni)	2021/02/05	93	80 - 120	93	80 - 120	<1.0	ug/L	2.1	20		
7182245	Dissolved Phosphorus (P)	2021/02/05	91	80 - 120	101	80 - 120	<100	ug/L				
7182245	Dissolved Potassium (K)	2021/02/05	96	80 - 120	91	80 - 120	<200	ug/L				
7182245	Dissolved Selenium (Se)	2021/02/05	101	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7182245	Dissolved Silicon (Si)	2021/02/05	96	80 - 120	92	80 - 120	<50	ug/L				
7182245	Dissolved Silver (Ag)	2021/02/05	96	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7182245	Dissolved Sodium (Na)	2021/02/05	NC	80 - 120	92	80 - 120	<100	ug/L	1.2	20		
7182245	Dissolved Strontium (Sr)	2021/02/05	NC	80 - 120	94	80 - 120	<1.0	ug/L				
7182245	Dissolved Tellurium (Te)	2021/02/05	99	80 - 120	96	80 - 120	<1.0	ug/L				
7182245	Dissolved Thallium (Tl)	2021/02/05	99	80 - 120	98	80 - 120	<0.050	ug/L	NC	20		
7182245	Dissolved Tin (Sn)	2021/02/05	103	80 - 120	97	80 - 120	<1.0	ug/L				
7182245	Dissolved Titanium (Ti)	2021/02/05	94	80 - 120	87	80 - 120	<5.0	ug/L				
7182245	Dissolved Tungsten (W)	2021/02/05	105	80 - 120	100	80 - 120	<1.0	ug/L				



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BV Labs Job #: C125935

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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
7182245	Dissolved Uranium (U)	2021/02/05	99	80 - 120	96	80 - 120	<0.10	ug/L	2.0	20		
7182245	Dissolved Vanadium (V)	2021/02/05	98	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7182245	Dissolved Zinc (Zn)	2021/02/05	93	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7182245	Dissolved Zirconium (Zr)	2021/02/05	523 (1)	80 - 120	98	80 - 120	<1.0	ug/L				
7184237	Dissolved Aluminum (Al)	2021/02/04	98	80 - 120	98	80 - 120	<4.9	ug/L	NC	20		
7184237	Dissolved Antimony (Sb)	2021/02/04	103	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Arsenic (As)	2021/02/04	99	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Barium (Ba)	2021/02/04	98	80 - 120	97	80 - 120	<2.0	ug/L	NC	20		
7184237	Dissolved Beryllium (Be)	2021/02/04	101	80 - 120	100	80 - 120	<0.40	ug/L	NC	20		
7184237	Dissolved Bismuth (Bi)	2021/02/04	94	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Boron (B)	2021/02/04	NC	80 - 120	94	80 - 120	<10	ug/L	2.0	20		
7184237	Dissolved Cadmium (Cd)	2021/02/04	99	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
7184237	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	98	80 - 120	<200	ug/L	0.15	20		
7184237	Dissolved Chromium (Cr)	2021/02/04	97	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7184237	Dissolved Cobalt (Co)	2021/02/04	99	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Copper (Cu)	2021/02/04	98	80 - 120	95	80 - 120	<0.90	ug/L	NC	20		
7184237	Dissolved Iron (Fe)	2021/02/04	96	80 - 120	93	80 - 120	<100	ug/L	NC	20		
7184237	Dissolved Lead (Pb)	2021/02/04	99	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Lithium (Li)	2021/02/04	NC	80 - 120	105	80 - 120	<5.0	ug/L	3.9	20		
7184237	Dissolved Magnesium (Mg)	2021/02/04	NC	80 - 120	94	80 - 120	<50	ug/L	1.9	20		
7184237	Dissolved Manganese (Mn)	2021/02/04	95	80 - 120	95	80 - 120	<2.0	ug/L	1.5	20		
7184237	Dissolved Molybdenum (Mo)	2021/02/04	104	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Nickel (Ni)	2021/02/04	96	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Phosphorus (P)	2021/02/04	97	80 - 120	111	80 - 120	<100	ug/L	NC	20		
7184237	Dissolved Potassium (K)	2021/02/04	NC	80 - 120	94	80 - 120	<200	ug/L	0.94	20		
7184237	Dissolved Selenium (Se)	2021/02/04	99	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7184237	Dissolved Silicon (Si)	2021/02/04	100	80 - 120	99	80 - 120	<50	ug/L	0.67	20		
7184237	Dissolved Silver (Ag)	2021/02/04	89	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7184237	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	94	80 - 120	<100	ug/L	1.6	20		
7184237	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	94	80 - 120	<1.0	ug/L	2.2	20		
7184237	Dissolved Tellurium (Te)	2021/02/04	90	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		



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BV Labs Job #: C125935

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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
7184237	Dissolved Thallium (Tl)	2021/02/04	99	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
7184237	Dissolved Tin (Sn)	2021/02/04	105	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Titanium (Ti)	2021/02/04	98	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7184237	Dissolved Tungsten (W)	2021/02/04	101	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Uranium (U)	2021/02/04	100	80 - 120	94	80 - 120	<0.10	ug/L	2.5	20		
7184237	Dissolved Vanadium (V)	2021/02/04	99	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Zinc (Zn)	2021/02/04	96	80 - 120	93	80 - 120	<5.0	ug/L	NC	20		
7184237	Dissolved Zirconium (Zr)	2021/02/04	104	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7184296	Phenols-4AAP	2021/02/04	102	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
7184315	Phenols-4AAP	2021/02/04	104	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7184387	Orthophosphate (P)	2021/02/04	97	75 - 125	100	80 - 120	<0.010	mg/L	0.38	25		
7184389	Nitrate (N)	2021/02/05	102	80 - 120	95	80 - 120	<0.10	mg/L	NC	20		
7184389	Nitrite (N)	2021/02/05	109	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
7184390	Dissolved Bromide (Br-)	2021/02/04	106	80 - 120	106	80 - 120	<1.0	mg/L	NC	20		
7184390	Dissolved Chloride (Cl-)	2021/02/04	NC	80 - 120	93	70 - 130	<1.0	mg/L	0.40	20		
7184390	Dissolved Sulphate (SO4)	2021/02/04	NC	80 - 120	95	80 - 120	<1.0	mg/L	0.75	20		
7184391	Alkalinity (Total as CaCO3)	2021/02/04			99	85 - 115	<1.0	mg/L	0.51	20		
7184392	pH	2021/02/04			102	98 - 103			0.21	N/A		
7184397	Conductivity	2021/02/04			101	85 - 115	<1.0	umho/cm	0.21	25		
7184398	Fluoride (F-)	2021/02/04	96	80 - 120	108	80 - 120	<0.10	mg/L	1.4	20		
7184469	Orthophosphate (P)	2021/02/04	107	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7184503	Nitrate (N)	2021/02/05	98	80 - 120	96	80 - 120	<0.10	mg/L	NC	20		
7184503	Nitrite (N)	2021/02/05	106	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
7184504	Dissolved Bromide (Br-)	2021/02/05	109	80 - 120	108	80 - 120	<1.0	mg/L	NC	20		
7184504	Dissolved Chloride (Cl-)	2021/02/05	NC	80 - 120	96	70 - 130	<1.0	mg/L	3.2	20		
7184504	Dissolved Sulphate (SO4)	2021/02/05	NC	80 - 120	97	80 - 120	<1.0	mg/L	3.9	20		
7184505	Alkalinity (Total as CaCO3)	2021/02/04			97	85 - 115	<1.0	mg/L	0.26	20		
7184506	pH	2021/02/04			102	98 - 103			0.16	N/A		
7184507	Conductivity	2021/02/04			101	85 - 115	<1.0	umho/cm	0	25		



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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
7184509	Fluoride (F-)	2021/02/04	102	80 - 120	108	80 - 120	<0.10	mg/L	0.93	20		
7184535	Total Organic Carbon (TOC)	2021/02/05	93	80 - 120	96	80 - 120	<0.40	mg/L	0.22	20		
7184543	Total Organic Carbon (TOC)	2021/02/04	NC	80 - 120	98	80 - 120	<0.40	mg/L	0.91	20		
7184545	Total Kjeldahl Nitrogen (TKN)	2021/02/04	NC	80 - 120	98	80 - 120	<0.10	mg/L	3.8	20	98	80 - 120
7184555	Total Kjeldahl Nitrogen (TKN)	2021/02/04	109	80 - 120	100	80 - 120	<0.10	mg/L	NC	20	100	80 - 120
7184558	Total Ammonia-N	2021/02/05	100	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7184562	Total Ammonia-N	2021/02/04	NC	75 - 125	100	80 - 120	<0.050	mg/L	0.22	20		
7184681	Total Dissolved Solids	2021/02/05					<10	mg/L	0.98	25	102	90 - 110
7184687	Total Dissolved Solids	2021/02/05					<10	mg/L	2.0	25	100	90 - 110
7185288	Dissolved Aluminum (Al)	2021/02/05	106	80 - 120	101	80 - 120	<4.9	ug/L	NC	20		
7185288	Dissolved Antimony (Sb)	2021/02/05	105	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Arsenic (As)	2021/02/05	101	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Barium (Ba)	2021/02/05	98	80 - 120	100	80 - 120	<2.0	ug/L	7.6	20		
7185288	Dissolved Beryllium (Be)	2021/02/05	98	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7185288	Dissolved Bismuth (Bi)	2021/02/05	91	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Boron (B)	2021/02/05	NC	80 - 120	99	80 - 120	<10	ug/L	4.2	20		
7185288	Dissolved Cadmium (Cd)	2021/02/05	98	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7185288	Dissolved Calcium (Ca)	2021/02/05	NC	80 - 120	101	80 - 120	<200	ug/L	3.1	20		
7185288	Dissolved Chromium (Cr)	2021/02/05	103	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7185288	Dissolved Cobalt (Co)	2021/02/05	100	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Copper (Cu)	2021/02/05	102	80 - 120	101	80 - 120	<0.90	ug/L	NC	20		
7185288	Dissolved Iron (Fe)	2021/02/05	97	80 - 120	95	80 - 120	<100	ug/L	NC	20		
7185288	Dissolved Lead (Pb)	2021/02/05	93	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Lithium (Li)	2021/02/05	NC	80 - 120	100	80 - 120	<5.0	ug/L	0.51	20		
7185288	Dissolved Magnesium (Mg)	2021/02/05	NC	80 - 120	96	80 - 120	<50	ug/L	1.1	20		
7185288	Dissolved Manganese (Mn)	2021/02/05	100	80 - 120	99	80 - 120	<2.0	ug/L	0.60	20		
7185288	Dissolved Molybdenum (Mo)	2021/02/05	111	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Nickel (Ni)	2021/02/05	97	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Phosphorus (P)	2021/02/05	115	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7185288	Dissolved Potassium (K)	2021/02/05	NC	80 - 120	97	80 - 120	<200	ug/L	0.60	20		
7185288	Dissolved Selenium (Se)	2021/02/05	96	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		



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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
7185288	Dissolved Silicon (Si)	2021/02/05	108	80 - 120	101	80 - 120	<50	ug/L	0.21	20		
7185288	Dissolved Silver (Ag)	2021/02/05	87	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7185288	Dissolved Sodium (Na)	2021/02/05	NC	80 - 120	95	80 - 120	<100	ug/L	3.5	20		
7185288	Dissolved Strontium (Sr)	2021/02/05	NC	80 - 120	99	80 - 120	<1.0	ug/L	0.32	20		
7185288	Dissolved Tellurium (Te)	2021/02/05	92	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Thallium (Tl)	2021/02/05	93	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
7185288	Dissolved Tin (Sn)	2021/02/05	106	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Titanium (Ti)	2021/02/05	107	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7185288	Dissolved Tungsten (W)	2021/02/05	104	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Uranium (U)	2021/02/05	104	80 - 120	102	80 - 120	<0.10	ug/L	NC	20		
7185288	Dissolved Vanadium (V)	2021/02/05	105	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Zinc (Zn)	2021/02/05	91	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7185288	Dissolved Zirconium (Zr)	2021/02/05	113	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7191403	Dissolved Aluminum (Al)	2021/02/09	110	80 - 120	104	80 - 120	<4.9	ug/L				
7191403	Dissolved Antimony (Sb)	2021/02/09	109	80 - 120	103	80 - 120	<0.50	ug/L				
7191403	Dissolved Arsenic (As)	2021/02/09	106	80 - 120	99	80 - 120	<1.0	ug/L				
7191403	Dissolved Barium (Ba)	2021/02/09	108	80 - 120	101	80 - 120	<2.0	ug/L				
7191403	Dissolved Beryllium (Be)	2021/02/09	107	80 - 120	98	80 - 120	<0.40	ug/L				
7191403	Dissolved Bismuth (Bi)	2021/02/09	100	80 - 120	95	80 - 120	<1.0	ug/L				
7191403	Dissolved Boron (B)	2021/02/09	105	80 - 120	94	80 - 120	<10	ug/L				
7191403	Dissolved Cadmium (Cd)	2021/02/09	106	80 - 120	100	80 - 120	<0.090	ug/L				
7191403	Dissolved Calcium (Ca)	2021/02/09	NC	80 - 120	102	80 - 120	<200	ug/L				
7191403	Dissolved Chromium (Cr)	2021/02/09	102	80 - 120	95	80 - 120	<5.0	ug/L				
7191403	Dissolved Cobalt (Co)	2021/02/09	104	80 - 120	97	80 - 120	<0.50	ug/L				
7191403	Dissolved Copper (Cu)	2021/02/09	104	80 - 120	101	80 - 120	<0.90	ug/L				
7191403	Dissolved Iron (Fe)	2021/02/09	105	80 - 120	98	80 - 120	<100	ug/L				
7191403	Dissolved Lead (Pb)	2021/02/09	103	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7191403	Dissolved Lithium (Li)	2021/02/09	112	80 - 120	105	80 - 120	<5.0	ug/L				
7191403	Dissolved Magnesium (Mg)	2021/02/09	107	80 - 120	104	80 - 120	<50	ug/L				
7191403	Dissolved Manganese (Mn)	2021/02/09	NC	80 - 120	100	80 - 120	<2.0	ug/L				
7191403	Dissolved Molybdenum (Mo)	2021/02/09	106	80 - 120	99	80 - 120	<0.50	ug/L				



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

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
7191403	Dissolved Nickel (Ni)	2021/02/09	100	80 - 120	93	80 - 120	<1.0	ug/L				
7191403	Dissolved Phosphorus (P)	2021/02/09	121 (1)	80 - 120	122 (1)	80 - 120	<100	ug/L				
7191403	Dissolved Potassium (K)	2021/02/09	111	80 - 120	106	80 - 120	<200	ug/L				
7191403	Dissolved Selenium (Se)	2021/02/09	101	80 - 120	97	80 - 120	<2.0	ug/L				
7191403	Dissolved Silicon (Si)	2021/02/09	112	80 - 120	108	80 - 120	<50	ug/L				
7191403	Dissolved Silver (Ag)	2021/02/09	65 (1)	80 - 120	99	80 - 120	<0.090	ug/L				
7191403	Dissolved Sodium (Na)	2021/02/09	103	80 - 120	102	80 - 120	170, RDL=100 (2)	ug/L				
7191403	Dissolved Strontium (Sr)	2021/02/09	105	80 - 120	99	80 - 120	<1.0	ug/L				
7191403	Dissolved Tellurium (Te)	2021/02/09	108	80 - 120	102	80 - 120	<1.0	ug/L				
7191403	Dissolved Thallium (Tl)	2021/02/09	102	80 - 120	98	80 - 120	<0.050	ug/L				
7191403	Dissolved Tin (Sn)	2021/02/09	109	80 - 120	102	80 - 120	<1.0	ug/L				
7191403	Dissolved Titanium (Ti)	2021/02/09	104	80 - 120	99	80 - 120	<5.0	ug/L				
7191403	Dissolved Tungsten (W)	2021/02/09	103	80 - 120	96	80 - 120	<1.0	ug/L				
7191403	Dissolved Uranium (U)	2021/02/09	103	80 - 120	97	80 - 120	<0.10	ug/L				
7191403	Dissolved Vanadium (V)	2021/02/09	106	80 - 120	98	80 - 120	<0.50	ug/L				
7191403	Dissolved Zinc (Zn)	2021/02/09	103	80 - 120	95	80 - 120	<5.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C125935

Report Date: 2021/02/09

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
7191403	Dissolved Zirconium (Zr)	2021/02/09	110	80 - 120	102	80 - 120	<1.0	ug/L				

N/A = Not Applicable

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

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

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

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

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

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.

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



BUREAU
VERITAS

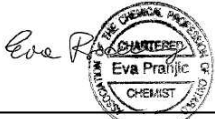
BV Labs Job #: C125935
Report Date: 2021/02/09

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 the following individual(s).



Anastassia Hamanov, Scientific Specialist



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

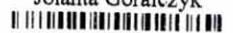
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.


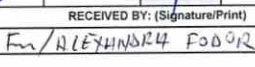


INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Address: _____		P.O. #: _____		Bottle Order #: 	
Address: 65 Green Mountain Rd West		Tel: _____ Fax: (905) 561-1674		Project: GW		COC #:	
Stoney Creek ON L8J 1X5		Email: bnmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Project Name: <u>SCW</u>		Project Manager: Jolanta Goralczyk	
Tel: (905) 561-0305		Tel: _____ Fax: _____		Site #: _____			
Email: kbailey@terrapureenv.com		Email: _____		Sampled By: _____		C#808571-10-01	

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: Please provide advance notice for rush projects				
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle): Metals / Hg / Cr / V	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	
1	33-I	21/01/28	AM	GW	Y	✓												6		
2	33-II			GW	Y	✓												6		
3	30-II			GW	Y	✓												6		
4	58-I			GW	Y	✓												6		
5	41-I			GW	Y	✓												6		
6	41-II			GW	Y	✓												6		
7	41-III			GW	Y	✓												6		
8	P3-II			GW	Y	✓												6		
9	P3-III			GW	Y	✓												6		
10	32-II			GW	Y	✓												6		

CAUTION
Reason: sulphur smell

29-Jan-21 15:20
Jolanta Goralczyk

C125935
ATM env-1305

* RELINQUISHED BY: (Signature/Print)		Date: YY/MM/DD	Time	RECEIVED BY: (Signature/Print)		Date: YY/MM/DD	Time	# jars used and not submitted	Laboratory Use Only				
		21/01/29	AM			20/01/29	15:20		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
										See ACTR	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.



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention:		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		COC #:	
Stoney Creek ON L8J 1X5				Project Name: GW		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#208571-09-01	

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 / V	Last "A" GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified)			
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw																	<input checked="" type="checkbox"/>
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____																	
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	Reg 406 Table _____																	
<input type="checkbox"/> Other _____																					
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	G2-I	21/01/28	AM	GW	Y	✓													6		
2	G2-II			GW	Y	✓													6		
3	G2-III			GW	Y	✓													6		
4	G2-IV			GW	Y	✓													6		
5	36-III R			GW	Y	✓													6		
6	2-III			GW	Y	✓													6		
7	11-III			GW	Y	✓													6		
8	G1-I			GW	Y	✓													6		
9	G1-II			GW	Y	✓													6		
10	G1-III			GW	Y	✓													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			
		21/01/28	AM					Time Sensitive	Temperature (°C) on Receipt	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 #:	Bottle Order #:	808571		
Attention: Accounting	Attention:	P.O. #:	COC #:		Project Manager: Jolanta Goralczyk		
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:	Project Name: GW	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:					
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"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw															Please provide advance notice for rush projects		
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw															Regular (Standard) TAT: (will be applied if Rush TAT is not specified):		
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	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 #)		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle)	Metals / Hg / Cr-VI	List "A" GW Monitoring											# of Bottles	Comments		
1	G27	21/01/28	AM	GW	Y		✓											6			
2	P5-IR			GW	Y		✓											6			
3	P5-IR			GW	Y		✓											6			
4	P5-III			GW	Y		✓											6			
5	P5-IVR			GW	Y		✓											6			
6	P11-II			GW	Y		✓											6			
7	G7-II			GW	Y		✓											6			
8	G7-III			GW	Y		✓											6			
9	P7-II			GW	Y		✓											6			
10	P7-III			GW	Y		✓											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				
<i>[Signature]</i>	21/01/29	AM	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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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:		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		808571	
Stoney Creek ON L8J 1X5				Project Name: GW		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		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)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects			
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr / V List 'A' GW Monitoring										Regular (Standard) TAT: (will be applied if Rush TAT is not specified) <input checked="" type="checkbox"/> 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		# of Bottles		Comments									
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____		6											
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	Reg 406 Table _____													
Include Criteria on Certificate of Analysis (Y/N)?																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix													
1	P7-IV	2/10/28	AM	GW													
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)		Time		RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)		Time		# jars used and not submitted		Laboratory Use Only									
<i>[Signature]</i>		2/10/29		AM		<i>[Signature]</i>								Time Sensitive		Temperature (°C) on Recl		Custody Seal Present		Yes		No	
						See page 1												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. #: 808571-13-01, 808571-14-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/02/08
 Report #: R6510812
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C127406

Received: 2021/02/01, 15:15

Sample Matrix: Water
 # Samples Received: 20

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	20	N/A	2021/02/04	CAM SOP-00448	SM 23 2320 B m
Anions	20	N/A	2021/02/05	CAM SOP-00435	SM 23 4110 B m
Conductivity	20	N/A	2021/02/04	CAM SOP-00414	SM 23 2510 m
Fluoride	20	2021/02/04	2021/02/04	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	20	N/A	2021/02/05	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	14	N/A	2021/02/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	6	N/A	2021/02/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	20	N/A	2021/02/05	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	20	N/A	2021/02/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	20	2021/02/04	2021/02/04	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	20	N/A	2021/02/05	CAM SOP-00444	OMOE E3179 m
Orthophosphate	20	N/A	2021/02/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	20	2021/02/04	2021/02/05	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	11	2021/02/04	2021/02/05	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	9	2021/02/04	2021/02/08	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	15	N/A	2021/02/04	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	5	N/A	2021/02/05	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. #: 808571-13-01, 808571-14-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/02/08
Report #: R6510812
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C127406

Received: 2021/02/01, 15:15

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
08 Feb 2021 18:15:00

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 #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX497			OSX497			OSX498		
Sampling Date		2021/01/29			2021/01/29			2021/01/29		
COC Number		808571-13-01			808571-13-01			808571-13-01		
	UNITS	M4	RDL	QC Batch	M4 Lab-Dup	RDL	QC Batch	L1	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1300	1.0	7178317				1900	1.0	7178317
Inorganics										
Total Ammonia-N	mg/L	13	0.050	7184652				16	0.050	7184652
Conductivity	umho/cm	4300	1.0	7184311				5900	1.0	7184311
Total Dissolved Solids	mg/L	3050	10	7184659	3080	10	7184659	4380	20	7184659
Fluoride (F-)	mg/L	1.3	0.10	7184313				0.85	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	14	0.50	7184647	14	0.50	7184647	17	0.50	7184647
Total Organic Carbon (TOC)	mg/L	5.3	0.40	7184628	5.2	0.40	7184628	4.0	0.40	7184628
Orthophosphate (P)	mg/L	<0.010	0.010	7184302				0.015	0.010	7184302
pH	pH	7.79		7184310				7.69		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	7184298				<0.0010	0.0010	7184298
Alkalinity (Total as CaCO3)	mg/L	180	1.0	7184309				250	1.0	7184309
Nitrite (N)	mg/L	0.039	0.010	7184306				<0.010	0.010	7184306
Dissolved Chloride (Cl-)	mg/L	1000	10	7184307				1000	5.0	7184307
Nitrate (N)	mg/L	0.85	0.10	7184306				<0.10	0.10	7184306
Nitrate + Nitrite (N)	mg/L	0.89	0.10	7184306				<0.10	0.10	7184306
Dissolved Bromide (Br-)	mg/L	<10	10	7184307				<5.0	5.0	7184307
Dissolved Sulphate (SO4)	mg/L	1600	10	7184307				1600	5.0	7184307

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



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX498			OSX499		OSX500		
Sampling Date		2021/01/29			2021/01/29		2021/01/29		
COC Number		808571-13-01			808571-13-01		808571-13-01		
	UNITS	L1 Lab-Dup	RDL	QC Batch	CW16	RDL	CW5R	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				930	1.0	150	1.0	7178317
Inorganics									
Total Ammonia-N	mg/L	16	0.050	7184652	2.0	0.050	140	0.50	7184652
Conductivity	umho/cm				2000	1.0	9700	1.0	7184311
Total Dissolved Solids	mg/L				1460	10	5240	20	7184659
Fluoride (F-)	mg/L				1.3	0.10	3.1	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L				2.4	0.10	150	5.0	7184647
Total Organic Carbon (TOC)	mg/L				6.3	0.40	35	0.40	7184628
Orthophosphate (P)	mg/L				<0.010	0.010	<0.50 (1)	0.50	7184302
pH	pH				7.82		9.30		7184310
Phenols-4AAP	mg/L				<0.0010	0.0010	0.76	0.020	7184298
Alkalinity (Total as CaCO3)	mg/L				220	1.0	340	1.0	7184309
Nitrite (N)	mg/L				<0.010	0.010	<0.010	0.010	7184306
Dissolved Chloride (Cl-)	mg/L				130	5.0	2800	50	7184307
Nitrate (N)	mg/L				<0.10	0.10	<0.10	0.10	7184306
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	<0.10	0.10	7184306
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	<50	50	7184307
Dissolved Sulphate (SO4)	mg/L				680	5.0	230	50	7184307
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.									



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX501		OSX502	OSX503			OSX503		
Sampling Date		2021/01/29		2021/01/29	2021/01/29			2021/01/29		
COC Number		808571-13-01		808571-13-01	808571-13-01			808571-13-01		
	UNITS	60-I	RDL	60-II	60-III	RDL	QC Batch	60-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1500	1.0	1100	1200	1.0	7178317			
Inorganics										
Total Ammonia-N	mg/L	5.3	0.050	2.5	0.54	0.050	7184652			
Conductivity	umho/cm	5800	1.0	3000	2700	1.0	7184311	2800	1.0	7184311
Total Dissolved Solids	mg/L	3920	20	2130	2050	10	7184659			
Fluoride (F-)	mg/L	0.67	0.10	1.0	0.70	0.10	7184313	0.65	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	6.1	0.20	2.9	0.87	0.10	7184647			
Total Organic Carbon (TOC)	mg/L	8.7	0.40	3.0	6.0	0.40	7184628			
Orthophosphate (P)	mg/L	<0.010	0.010	0.012	0.010	0.010	7184302	0.010	0.010	7184302
pH	pH	7.76		7.84	7.62		7184310	7.59		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	7184298			
Alkalinity (Total as CaCO3)	mg/L	160	1.0	230	420	1.0	7184309	430	1.0	7184309
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.056	0.010	7184306	0.055	0.010	7184306
Dissolved Chloride (Cl-)	mg/L	1400	10	380	210	5.0	7184307	210	5.0	7184307
Nitrate (N)	mg/L	<0.10	0.10	<0.10	1.12	0.10	7184306	1.12	0.10	7184306
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	1.18	0.10	7184306	1.17	0.10	7184306
Dissolved Bromide (Br-)	mg/L	<10	10	<5.0	<5.0	5.0	7184307	<5.0	5.0	7184307
Dissolved Sulphate (SO4)	mg/L	940	10	850	850	5.0	7184307	850	5.0	7184307

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



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX504		OSX505	OSX506			OSX506		
Sampling Date		2021/01/29		2021/01/29	2021/01/29			2021/01/29		
COC Number		808571-13-01		808571-13-01	808571-13-01			808571-13-01		
	UNITS	60-IV	RDL	51-IV	12-II	RDL	QC Batch	12-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	1800	1800	1.0	7178317			
Inorganics										
Total Ammonia-N	mg/L	7.6	0.050	4.4	4.4	0.050	7184652			
Conductivity	umho/cm	6800	1.0	4200	4200	1.0	7184311			
Total Dissolved Solids	mg/L	4940	20	3460	3530	10	7184659			
Fluoride (F-)	mg/L	0.96	0.10	1.1	1.1	0.10	7184313			
Total Kjeldahl Nitrogen (TKN)	mg/L	8.3	0.20	5.0	5.0	0.10	7184647			
Total Organic Carbon (TOC)	mg/L	3.5	0.40	2.1	2.0	0.40	7184628			
Orthophosphate (P)	mg/L	<0.010	0.010	0.011	0.010	0.010	7184302			
pH	pH	7.56		7.71	7.64		7184310			
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	7184298	<0.0010	0.0010	7184298
Alkalinity (Total as CaCO3)	mg/L	180	1.0	310	310	1.0	7184309			
Nitrite (N)	mg/L	<0.010	0.010	<0.010	<0.010	0.010	7184306			
Dissolved Chloride (Cl-)	mg/L	1300	10	380	380	10	7184307			
Nitrate (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	7184306			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	7184306			
Dissolved Bromide (Br-)	mg/L	<10	10	<10	<10	10	7184307			
Dissolved Sulphate (SO4)	mg/L	1700	10	1700	1700	10	7184307			

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



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX507		OSX508	OSX509		OSX510		
Sampling Date		2021/01/29		2021/01/29	2021/01/29		2021/01/29		
COC Number		808571-14-01		808571-14-01	808571-14-01		808571-14-01		
	UNITS	47-I	RDL	47-II	47-III	RDL	11-I	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	1800	1.0	740	1200	1.0	2700	1.0	7178317
Inorganics									
Total Ammonia-N	mg/L	5.0	0.050	0.089	1.3	0.050	2.9	0.050	7184652
Conductivity	umho/cm	4100	1.0	1600	2600	1.0	7300	1.0	7184311
Total Dissolved Solids	mg/L	3260	10	1130	2030	10	5510	20	7184659
Fluoride (F-)	mg/L	0.94	0.10	0.61	0.67	0.10	0.79	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	5.7	0.20	0.30	1.5	0.10	3.4	0.10	7184647
Total Organic Carbon (TOC)	mg/L	2.9	0.40	4.1	3.8	0.40	1.6	0.40	7184628
Orthophosphate (P)	mg/L	<0.010	0.010	0.011	0.011	0.010	<0.010	0.010	7184302
pH	pH	7.70		7.77	7.72		7.55		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	<0.0010	0.0010	7184298
Alkalinity (Total as CaCO3)	mg/L	230	1.0	280	350	1.0	310	1.0	7184309
Nitrite (N)	mg/L	<0.010	0.010	<0.010	<0.010	0.010	<0.010	0.010	7184306
Dissolved Chloride (Cl-)	mg/L	420	10	86	190	5.0	1500	10	7184307
Nitrate (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	7184306
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	7184306
Dissolved Bromide (Br-)	mg/L	<10	10	<5.0	<5.0	5.0	18	10	7184307
Dissolved Sulphate (SO4)	mg/L	1600	10	490	860	5.0	1600	10	7184307
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX511		OSX512		OSX513		OSX514		
Sampling Date		2021/01/29		2021/01/29		2021/01/29		2021/01/29		
COC Number		808571-14-01		808571-14-01		808571-14-01		808571-14-01		
	UNITS	11-II	RDL	48-I	RDL	48-II	RDL	48-IV	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	2100	1.0	2600	1.0	1700	1.0	860	1.0	7178317
Inorganics										
Total Ammonia-N	mg/L	7.6	0.050	2.9	0.050	1.0	0.050	<0.050	0.050	7184652
Conductivity	umho/cm	6800	1.0	7300	1.0	4100	1.0	1600	1.0	7184311
Total Dissolved Solids	mg/L	4990	20	5470	20	3240	10	1170	10	7184659
Fluoride (F ⁻)	mg/L	0.96	0.10	0.80	0.10	0.77	0.10	0.49	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	8.7	0.50	3.6	0.20	1.3	0.10	<0.10	0.10	7184647
Total Organic Carbon (TOC)	mg/L	3.4	0.40	1.5	0.40	2.5	0.40	2.6	0.40	7184628
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	0.018	0.010	<0.010	0.010	7184302
pH	pH	7.61		7.65		7.72		7.84		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	0.0010	<0.0010	0.0010	<0.0010	0.0010	7184298
Alkalinity (Total as CaCO ₃)	mg/L	180	1.0	310	1.0	330	1.0	300	1.0	7184309
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	<0.010	0.010	<0.010	0.010	7184306
Dissolved Chloride (Cl ⁻)	mg/L	1300	10	1500	10	470	10	79	5.0	7184307
Nitrate (N)	mg/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	0.43	0.10	7184306
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	0.43	0.10	7184306
Dissolved Bromide (Br ⁻)	mg/L	<10	10	17	10	<10	10	<5.0	5.0	7184307
Dissolved Sulphate (SO ₄)	mg/L	1700	10	1600	10	1400	10	500	5.0	7184307
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX515			OSX516		
Sampling Date		2021/01/29			2021/01/29		
COC Number		808571-14-01			808571-14-01		
	UNITS	48-V	RDL	QC Batch	3-I	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO ₃)	mg/L	1700	1.0	7178317	740	1.0	7179137
Inorganics							
Total Ammonia-N	mg/L	0.75	0.050	7184652	0.10	0.050	7184652
Conductivity	umho/cm	4300	1.0	7184311	1600	1.0	7184311
Total Dissolved Solids	mg/L	3230	10	7184659	1100	10	7184659
Fluoride (F ⁻)	mg/L	0.72	0.10	7184313	0.60	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	1.1	0.10	7184647	0.24	0.10	7184647
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7184628	4.2	0.40	7184628
Orthophosphate (P)	mg/L	<0.010	0.010	7184302	0.012	0.010	7184302
pH	pH	7.77		7184310	7.82		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	7184298	<0.0010	0.0010	7184298
Alkalinity (Total as CaCO ₃)	mg/L	340	1.0	7184309	280	1.0	7184309
Nitrite (N)	mg/L	<0.010	0.010	7184306	<0.010	0.010	7184306
Dissolved Chloride (Cl ⁻)	mg/L	540	10	7184307	84	5.0	7184307
Nitrate (N)	mg/L	<0.10	0.10	7184306	<0.10	0.10	7184306
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184306	<0.10	0.10	7184306
Dissolved Bromide (Br ⁻)	mg/L	<10	10	7184307	<5.0	5.0	7184307
Dissolved Sulphate (SO ₄)	mg/L	1300	10	7184307	480	5.0	7184307
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX497	OSX498		OSX499		OSX500	OSX501		
Sampling Date		2021/01/29	2021/01/29		2021/01/29		2021/01/29	2021/01/29		
COC Number		808571-13-01	808571-13-01		808571-13-01		808571-13-01	808571-13-01		
	UNITS	M4	L1	RDL	CW16	RDL	CW5R	60-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	76	<25	25	10	4.9	59	<25	25	7184239
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7184239
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
Dissolved Barium (Ba)	ug/L	23	15	10	23	2.0	11	24	10	7184239
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	2.0	<0.40	0.40	<2.0	<2.0	2.0	7184239
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
Dissolved Boron (B)	ug/L	660	720	50	340	10	530	560	50	7184239
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.45	<0.45	0.45	7184239
Dissolved Calcium (Ca)	ug/L	390000	660000	1000	200000	200	34000	440000	1000	7184239
Dissolved Chromium (Cr)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7184239
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7184239
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	4.5	<0.90	0.90	<4.5	<4.5	4.5	7184239
Dissolved Iron (Fe)	ug/L	<500	<500	500	330	100	<500	<500	500	7184239
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7184239
Dissolved Lithium (Li)	ug/L	66	150	25	26	5.0	29	75	25	7184239
Dissolved Magnesium (Mg)	ug/L	75000	71000	250	100000	50	15000	100000	250	7184239
Dissolved Manganese (Mn)	ug/L	250	70	10	110	2.0	<10	84	10	7184239
Dissolved Molybdenum (Mo)	ug/L	<2.5	<2.5	2.5	6.6	0.50	42	<2.5	2.5	7184239
Dissolved Nickel (Ni)	ug/L	<5.0	<5.0	5.0	1.8	1.0	16	<5.0	5.0	7184239
Dissolved Phosphorus (P)	ug/L	<500	<500	500	<100	100	510	<500	500	7184239
Dissolved Potassium (K)	ug/L	31000	33000	1000	24000	200	100000	29000	1000	7184239
Dissolved Selenium (Se)	ug/L	<10	<10	10	<2.0	2.0	<10	<10	10	7184239
Dissolved Silicon (Si)	ug/L	6000	3900	250	5500	50	4900	3600	250	7184239
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.45	<0.45	0.45	7184239
Dissolved Sodium (Na)	ug/L	420000	550000	500	100000	100	1700000	600000	500	7184239
Dissolved Strontium (Sr)	ug/L	4200	9300	5.0	2400	1.0	1600	7100	5.0	7184239
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	0.25	<0.050	0.050	<0.25	<0.25	0.25	7184239
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
Dissolved Titanium (Ti)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7184239
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	18	<5.0	5.0	7184239
Dissolved Uranium (U)	ug/L	0.69	<0.50	0.50	1.1	0.10	<0.50	<0.50	0.50	7184239
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7184239
Dissolved Zinc (Zn)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7184239
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX502	OSX503		OSX504	OSX505	OSX506		
Sampling Date		2021/01/29	2021/01/29		2021/01/29	2021/01/29	2021/01/29		
COC Number		808571-13-01	808571-13-01		808571-13-01	808571-13-01	808571-13-01		
	UNITS	60-II	60-III	RDL	60-IV	51-IV	12-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	7.1	20	4.9	<25	44	42	25	7184239
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Barium (Ba)	ug/L	19	39	2.0	14	<10	<10	10	7184239
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<2.0	<2.0	<2.0	2.0	7184239
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Boron (B)	ug/L	550	700	10	1400	1300	1300	50	7184239
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.45	<0.45	<0.45	0.45	7184239
Dissolved Calcium (Ca)	ug/L	320000	350000	200	670000	570000	570000	1000	7184239
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<25	<25	<25	25	7184239
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Copper (Cu)	ug/L	<0.90	0.99	0.90	<4.5	<4.5	<4.5	4.5	7184239
Dissolved Iron (Fe)	ug/L	260	<100	100	<500	<500	<500	500	7184239
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Lithium (Li)	ug/L	82	16	5.0	390	210	210	25	7184239
Dissolved Magnesium (Mg)	ug/L	86000	77000	50	110000	100000	99000	250	7184239
Dissolved Manganese (Mn)	ug/L	130	87	2.0	91	43	44	10	7184239
Dissolved Molybdenum (Mo)	ug/L	1.2	0.99	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Nickel (Ni)	ug/L	<1.0	3.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<500	<500	<500	500	7184239
Dissolved Potassium (K)	ug/L	18000	13000	200	36000	26000	25000	1000	7184239
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<10	<10	<10	10	7184239
Dissolved Silicon (Si)	ug/L	4800	6200	50	3000	4700	4800	250	7184239
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.45	<0.45	<0.45	0.45	7184239
Dissolved Sodium (Na)	ug/L	250000	230000	100	650000	290000	290000	500	7184239
Dissolved Strontium (Sr)	ug/L	3600	4200	1.0	8400	6000	5900	5.0	7184239
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.25	<0.25	<0.25	0.25	7184239
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<25	<25	<25	25	7184239
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Uranium (U)	ug/L	0.47	3.7	0.10	<0.50	<0.50	<0.50	0.50	7184239
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Zinc (Zn)	ug/L	<5.0	42	5.0	<25	<25	<25	25	7184239
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX507		OSX508		OSX509	OSX510	OSX511		
Sampling Date		2021/01/29		2021/01/29		2021/01/29	2021/01/29	2021/01/29		
COC Number		808571-14-01		808571-14-01		808571-14-01	808571-14-01	808571-14-01		
	UNITS	47-I	RDL	47-II	RDL	47-III	11-I	11-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	29	25	24	4.9	35	<25	36	25	7184239
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Barium (Ba)	ug/L	15	10	58	2.0	14	12	13	10	7184239
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	0.40	<2.0	<2.0	<2.0	2.0	7184239
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Boron (B)	ug/L	850	50	230	10	1500	2100	1400	50	7184239
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	0.090	<0.45	<0.45	<0.45	0.45	7184239
Dissolved Calcium (Ca)	ug/L	570000	1000	220000	200	370000	800000	670000	1000	7184239
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	5.0	<25	<25	<25	25	7184239
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	0.90	<4.5	<4.5	<4.5	4.5	7184239
Dissolved Iron (Fe)	ug/L	<500	500	120	100	<500	<500	<500	500	7184239
Dissolved Lead (Pb)	ug/L	<2.5	2.5	0.92	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Lithium (Li)	ug/L	100	25	6.6	5.0	68	720	380	25	7184239
Dissolved Magnesium (Mg)	ug/L	90000	250	48000	50	69000	170000	110000	250	7184239
Dissolved Manganese (Mn)	ug/L	100	10	140	2.0	59	91	90	10	7184239
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	4.0	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	1.3	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Phosphorus (P)	ug/L	<500	500	<100	100	<500	<500	<500	500	7184239
Dissolved Potassium (K)	ug/L	23000	1000	4000	200	14000	24000	36000	1000	7184239
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	2.0	<10	<10	<10	10	7184239
Dissolved Silicon (Si)	ug/L	3400	250	5200	50	4500	3600	3100	250	7184239
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	0.090	<0.45	<0.45	<0.45	0.45	7184239
Dissolved Sodium (Na)	ug/L	280000	500	82000	100	120000	620000	670000	500	7184239
Dissolved Strontium (Sr)	ug/L	4400	5.0	2300	1.0	5200	12000	8300	5.0	7184239
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	0.050	<0.25	<0.25	<0.25	0.25	7184239
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	5.0	<25	<25	<25	25	7184239
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Uranium (U)	ug/L	<0.50	0.50	2.4	0.10	<0.50	<0.50	<0.50	0.50	7184239
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Zinc (Zn)	ug/L	<25	25	180	5.0	<25	<25	<25	25	7184239
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX512	OSX512	OSX513		OSX514		OSX515		
Sampling Date		2021/01/29	2021/01/29	2021/01/29		2021/01/29		2021/01/29		
COC Number		808571-14-01	808571-14-01	808571-14-01		808571-14-01		808571-14-01		
	UNITS	48-I	48-I Lab-Dup	48-II	RDL	48-IV	RDL	48-V	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	33	<25	30	25	11	4.9	27	25	7184239
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7184239
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
Dissolved Barium (Ba)	ug/L	10	11	30	10	40	2.0	35	10	7184239
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	2.0	<0.40	0.40	<2.0	2.0	7184239
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
Dissolved Boron (B)	ug/L	2100	2100	1300	50	150	10	920	50	7184239
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	<0.45	0.45	0.13	0.090	<0.45	0.45	7184239
Dissolved Calcium (Ca)	ug/L	760000	760000	540000	1000	210000	200	530000	1000	7184239
Dissolved Chromium (Cr)	ug/L	<25	<25	<25	25	<5.0	5.0	<25	25	7184239
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7184239
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	<4.5	4.5	1.4	0.90	<4.5	4.5	7184239
Dissolved Iron (Fe)	ug/L	<500	<500	<500	500	<100	100	690	500	7184239
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7184239
Dissolved Lithium (Li)	ug/L	720	720	150	25	52	5.0	110	25	7184239
Dissolved Magnesium (Mg)	ug/L	170000	170000	83000	250	82000	50	80000	250	7184239
Dissolved Manganese (Mn)	ug/L	91	90	140	10	<2.0	2.0	150	10	7184239
Dissolved Molybdenum (Mo)	ug/L	<2.5	<2.5	<2.5	2.5	2.2	0.50	<2.5	2.5	7184239
Dissolved Nickel (Ni)	ug/L	<5.0	<5.0	<5.0	5.0	1.2	1.0	<5.0	5.0	7184239
Dissolved Phosphorus (P)	ug/L	<500	<500	<500	500	<100	100	<500	500	7184239
Dissolved Potassium (K)	ug/L	25000	24000	11000	1000	3000	200	8600	1000	7184239
Dissolved Selenium (Se)	ug/L	<10	<10	<10	10	<2.0	2.0	<10	10	7184239
Dissolved Silicon (Si)	ug/L	3500	3500	4700	250	7300	50	4700	250	7184239
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	<0.45	0.45	<0.090	0.090	<0.45	0.45	7184239
Dissolved Sodium (Na)	ug/L	610000	600000	310000	500	44000	100	330000	500	7184239
Dissolved Strontium (Sr)	ug/L	12000	12000	4400	5.0	1300	1.0	3900	5.0	7184239
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	<0.25	0.25	<0.050	0.050	<0.25	0.25	7184239
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
Dissolved Titanium (Ti)	ug/L	<25	<25	<25	25	<5.0	5.0	<25	25	7184239
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	<5.0	5.0	2.0	1.0	<5.0	5.0	7184239
Dissolved Uranium (U)	ug/L	0.51	<0.50	0.87	0.50	5.6	0.10	1.4	0.50	7184239
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7184239
Dissolved Zinc (Zn)	ug/L	<25	<25	<25	25	61	5.0	<25	25	7184239
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX516		
Sampling Date		2021/01/29		
COC Number		808571-14-01		
	UNITS	3-I	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	7.6	4.9	7184239
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7184239
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7184239
Dissolved Barium (Ba)	ug/L	56	2.0	7184239
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7184239
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7184239
Dissolved Boron (B)	ug/L	230	10	7184239
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7184239
Dissolved Calcium (Ca)	ug/L	220000	200	7184239
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7184239
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7184239
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7184239
Dissolved Iron (Fe)	ug/L	120	100	7184239
Dissolved Lead (Pb)	ug/L	0.80	0.50	7184239
Dissolved Lithium (Li)	ug/L	6.8	5.0	7184239
Dissolved Magnesium (Mg)	ug/L	48000	50	7184239
Dissolved Manganese (Mn)	ug/L	140	2.0	7184239
Dissolved Molybdenum (Mo)	ug/L	3.3	0.50	7184239
Dissolved Nickel (Ni)	ug/L	1.2	1.0	7184239
Dissolved Phosphorus (P)	ug/L	<100	100	7184239
Dissolved Potassium (K)	ug/L	4000	200	7184239
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7184239
Dissolved Silicon (Si)	ug/L	5200	50	7184239
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7184239
Dissolved Sodium (Na)	ug/L	81000	100	7184239
Dissolved Strontium (Sr)	ug/L	2300	1.0	7184239
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7184239
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7184239
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7184239
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7184239
Dissolved Uranium (U)	ug/L	2.4	0.10	7184239
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7184239
Dissolved Zinc (Zn)	ug/L	180	5.0	7184239
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7184239
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX497
Sample ID: M4
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX497 Dup
Sample ID: M4
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX498
Sample ID: L1
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX498 Dup
Sample ID: L1
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu

BV Labs ID: OSX499
Sample ID: CW16
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX500
Sample ID: CW5R
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX501
Sample ID: 60-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX502
Sample ID: 60-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX503
Sample ID: 60-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX503
Sample ID: 60-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX503 Dup
Sample ID: 60-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan

BV Labs ID: OSX504
Sample ID: 60-IV
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX505
Sample ID: 51-IV
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX506
Sample ID: 12-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX506 Dup
Sample ID: 12-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX507
Sample ID: 47-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX508
Sample ID: 47-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX509
Sample ID: 47-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX509
Sample ID: 47-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX510
Sample ID: 11-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX511
Sample ID: 11-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX511
Sample ID: 11-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX512
Sample ID: 48-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden

BV Labs ID: OSX512 Dup
Sample ID: 48-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha

BV Labs ID: OSX513
Sample ID: 48-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal



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BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX513
Sample ID: 48-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden

BV Labs ID: OSX514
Sample ID: 48-IV
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden

BV Labs ID: OSX515
Sample ID: 48-V
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi



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BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX515
Sample ID: 48-V
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden

BV Labs ID: OSX516
Sample ID: 3-l
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7179137	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden



GENERAL COMMENTS

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

Package 1	-1.3°C
Package 2	-0.7°C
Package 3	-0.3°C
Package 4	-0.3°C
Package 5	-0.7°C

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

Sample OSX497 [M4] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX498 [L1] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX500 [CW5R] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX501 [60-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX504 [60-IV] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX505 [51-IV] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX506 [12-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX507 [47-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX509 [47-III] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX510 [11-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX511 [11-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX512 [48-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX513 [48-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX515 [48-V] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

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
7184239	Dissolved Aluminum (Al)	2021/02/04	97	80 - 120	95	80 - 120	<4.9	ug/L	NC	20		
7184239	Dissolved Antimony (Sb)	2021/02/04	102	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Arsenic (As)	2021/02/04	99	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Barium (Ba)	2021/02/04	98	80 - 120	98	80 - 120	<2.0	ug/L	2.3	20		
7184239	Dissolved Beryllium (Be)	2021/02/04	101	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
7184239	Dissolved Bismuth (Bi)	2021/02/04	98	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Boron (B)	2021/02/04	NC	80 - 120	96	80 - 120	<10	ug/L	1.4	20		
7184239	Dissolved Cadmium (Cd)	2021/02/04	98	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7184239	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	96	80 - 120	<200	ug/L	0.87	20		
7184239	Dissolved Chromium (Cr)	2021/02/04	98	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7184239	Dissolved Cobalt (Co)	2021/02/04	97	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Copper (Cu)	2021/02/04	96	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7184239	Dissolved Iron (Fe)	2021/02/04	97	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7184239	Dissolved Lead (Pb)	2021/02/04	99	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Lithium (Li)	2021/02/04	NC	80 - 120	101	80 - 120	<5.0	ug/L	0.11	20		
7184239	Dissolved Magnesium (Mg)	2021/02/04	NC	80 - 120	96	80 - 120	<50	ug/L	1.1	20		
7184239	Dissolved Manganese (Mn)	2021/02/04	97	80 - 120	98	80 - 120	<2.0	ug/L	1.5	20		
7184239	Dissolved Molybdenum (Mo)	2021/02/04	104	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Nickel (Ni)	2021/02/04	95	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Phosphorus (P)	2021/02/04	97	80 - 120	104	80 - 120	<100	ug/L	NC	20		
7184239	Dissolved Potassium (K)	2021/02/04	98	80 - 120	96	80 - 120	<200	ug/L	0.76	20		
7184239	Dissolved Selenium (Se)	2021/02/04	95	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7184239	Dissolved Silicon (Si)	2021/02/04	99	80 - 120	96	80 - 120	<50	ug/L	0.041	20		
7184239	Dissolved Silver (Ag)	2021/02/04	86	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7184239	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	94	80 - 120	<100	ug/L	0.43	20		
7184239	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	99	80 - 120	<1.0	ug/L	2.9	20		
7184239	Dissolved Tellurium (Te)	2021/02/04	94	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Thallium (Tl)	2021/02/04	101	80 - 120	104	80 - 120	<0.050	ug/L	NC	20		
7184239	Dissolved Tin (Sn)	2021/02/04	102	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Titanium (Ti)	2021/02/04	97	80 - 120	93	80 - 120	<5.0	ug/L	NC	20		
7184239	Dissolved Tungsten (W)	2021/02/04	104	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		



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BV Labs Job #: C127406
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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
7184239	Dissolved Uranium (U)	2021/02/04	98	80 - 120	100	80 - 120	<0.10	ug/L	1.2	20		
7184239	Dissolved Vanadium (V)	2021/02/04	100	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Zinc (Zn)	2021/02/04	95	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7184239	Dissolved Zirconium (Zr)	2021/02/04	525 (1)	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7184298	Phenols-4AAP	2021/02/05	104	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
7184302	Orthophosphate (P)	2021/02/04	104	75 - 125	100	80 - 120	<0.010	mg/L	0.29	25		
7184306	Nitrate (N)	2021/02/05	107	80 - 120	95	80 - 120	<0.10	mg/L	0.69	20		
7184306	Nitrite (N)	2021/02/05	112	80 - 120	105	80 - 120	<0.010	mg/L	1.6	20		
7184307	Dissolved Bromide (Br-)	2021/02/05	114	80 - 120	114	80 - 120	<1.0	mg/L	NC	20		
7184307	Dissolved Chloride (Cl-)	2021/02/05	NC	80 - 120	101	70 - 130	<1.0	mg/L	0.50	20		
7184307	Dissolved Sulphate (SO4)	2021/02/05	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.34	20		
7184309	Alkalinity (Total as CaCO3)	2021/02/04			98	85 - 115	<1.0	mg/L	0.93	20		
7184310	pH	2021/02/04			102	98 - 103			0.38	N/A		
7184311	Conductivity	2021/02/04			101	85 - 115	<1.0	umho/cm	0.36	25		
7184313	Fluoride (F-)	2021/02/04	103	80 - 120	107	80 - 120	<1.0	mg/L	6.7	20		
7184628	Total Organic Carbon (TOC)	2021/02/04	95	80 - 120	97	80 - 120	<0.40	mg/L	1.5	20		
7184647	Total Kjeldahl Nitrogen (TKN)	2021/02/08	NC	80 - 120	103	80 - 120	<0.10	mg/L	2.0	20	98	80 - 120
7184652	Total Ammonia-N	2021/02/05	NC	75 - 125	100	80 - 120	<0.050	mg/L	0.29	20		



BUREAU
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BV Labs Job #: C127406
Report Date: 2021/02/08

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
7184659	Total Dissolved Solids	2021/02/05					<10	mg/L	1.1	25	98	90 - 110

N/A = Not Applicable

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

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

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

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

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

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.




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BV Labs Job #: C127406
Report Date: 2021/02/08

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 the following individual(s).

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:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	BV Labs Job #:		Bottle Order #:		
Attention: Accounting	Attention:	P.O. #:	Project: GW		CDC #:		Project Manager:
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project Name: Gw	Site #:		Barcode: C#908571-13-01		Jolanta Goralczyk
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel:	Sampled By:					
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com						

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects							
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle):	Metals / Hg / Cr / V	Last "A" GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified)			
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw																			<input checked="" type="checkbox"/>
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																			
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality: _____																			
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	Reg 406 Table: _____																			
<input type="checkbox"/> Other _____																							
Include Criteria on Certificate of Analysis (Y/N)?																							
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																			
	m4	21/01/29	Am	GW	Y	✓																	
	L1			GW	Y	✓																	
	CW16			GW	Y	✓																	
	CW5R			GW	Y	✓																	
	60-I			GW	Y	✓																	
	60-II			GW	Y	✓																	
	60-III			GW	Y	✓																	
	60-IV			GW	Y	✓																	
	51-IV			GW	Y	✓																	
	12-II			GW	Y	✓																	

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 #)

01-Feb-21 15:15
Jolanta Goralczyk
C127406
GID ENV-804

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	21/02/01	Am	<i>[Signature]</i>	2021/02/01	15:15		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
							Refer to ACTR		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:		Project: GW		COC #:	
Address: Stoney Creek ON L8J 1X5		Address:		Project Name: GW		Project Manager: Jolanta Goralczyk	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		C#908571-14-01	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					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	Let "A" GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified)	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw													<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	47-I	21/01/29	AM	GW	Y	✓										6		
2	47-II			GW	Y	✓										6		
3	47-III			GW	Y	✓										6		
4	11-I			GW	Y	✓										6		
5	11-II			GW	Y	✓										6		
6	48-I			GW	Y	✓										6		
7	48-II			GW	Y	✓										6		
8	48-IV			GW	Y	✓										6		
9	48-V			GW	Y	✓										6		
10	3-I			GW	Y	✓										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				
<i>[Signature]</i>	21/02/10	AM	<i>[Signature]</i>				Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
									Intact		

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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. #: 808571-15-01, 808571-16-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/02/11
 Report #: R6514710
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C131308

Received: 2021/02/04, 15:33

Sample Matrix: Water
 # Samples Received: 11

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	11	N/A	2021/02/08	CAM SOP-00448	SM 23 2320 B m
Anions	9	N/A	2021/02/08	CAM SOP-00435	SM 23 4110 B m
Anions	2	N/A	2021/02/09	CAM SOP-00435	SM 23 4110 B m
Conductivity	11	N/A	2021/02/08	CAM SOP-00414	SM 23 2510 m
Fluoride	11	2021/02/05	2021/02/08	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/02/10	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	10	N/A	2021/02/08	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	3	N/A	2021/02/06	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	7	N/A	2021/02/08	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/02/09	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	11	N/A	2021/02/07	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	8	N/A	2021/02/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	3	N/A	2021/02/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	11	2021/02/05	2021/02/08	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	6	N/A	2021/02/05	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	4	N/A	2021/02/08	CAM SOP-00444	OMOE E3179 m
Orthophosphate	11	N/A	2021/02/08	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	9	2021/02/05	2021/02/06	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	2	2021/02/06	2021/02/08	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	5	2021/02/05	2021/02/08	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	6	2021/02/05	2021/02/09	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	11	N/A	2021/02/06	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.



Your Project #: GW
Your C.O.C. #: 808571-15-01, 808571-16-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/02/11
Report #: R6514710
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C131308

Received: 2021/02/04, 15:33

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
11 Feb 2021 14:59:59

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

=====
This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS704			OTS704			OTS705		
Sampling Date		2021/02/02			2021/02/02			2021/02/02		
COC Number		808571-15-01			808571-15-01			808571-15-01		
	UNITS	P7-IR	RDL	QC Batch	P7-IR Lab-Dup	RDL	QC Batch	P6-IR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	270	1.0	7184344				30	1.0	7184344
Inorganics										
Total Ammonia-N	mg/L	23	0.050	7187245				190	1.0	7187245
Conductivity	umho/cm	3000	1.0	7187186	3000	1.0	7187186	13000	1.0	7187186
Total Dissolved Solids	mg/L	1520	10	7186640				7150	20	7186640
Fluoride (F-)	mg/L	1.2	0.10	7187178	1.1	0.10	7187178	2.8	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L	26	1.0	7187234				190	5.0	7187234
Total Organic Carbon (TOC)	mg/L	42	0.40	7187763				40	0.40	7187763
Orthophosphate (P)	mg/L	<0.010	0.010	7187247				0.20	0.010	7187205
pH	pH	9.12		7187190	9.29		7187190	9.75		7187190
Phenols-4AAP	mg/L	1.2	0.050	7186713				0.98	0.050	7186713
Alkalinity (Total as CaCO3)	mg/L	76	1.0	7187187	80	1.0	7187187	620	1.0	7187187
Nitrite (N)	mg/L	<0.010	0.010	7186981				<0.010	0.010	7186981
Dissolved Chloride (Cl-)	mg/L	550	5.0	7188690				4100	50	7188690
Nitrate (N)	mg/L	<0.10	0.10	7186981				<0.10	0.10	7186981
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7186981				<0.10	0.10	7186981
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7188690				<20	20	7188690
Dissolved Sulphate (SO4)	mg/L	560	5.0	7188690				140	20	7188690

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



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS706			OTS707			OTS708		
Sampling Date		2021/02/02			2021/02/02			2021/02/02		
COC Number		808571-15-01			808571-15-01			808571-15-01		
	UNITS	G11	RDL	QC Batch	G13	RDL	QC Batch	P10-V	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	760	1.0	7184344	730	1.0	7184344	480	1.0	7184344
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7187245	<0.050	0.050	7187245	0.061	0.050	7187245
Conductivity	umho/cm	4500	1.0	7187186	2300	1.0	7187186	980	1.0	7187186
Total Dissolved Solids	mg/L	2610	10	7186640	1380	10	7186640	590	10	7188709
Fluoride (F ⁻)	mg/L	1.1	0.10	7187178	0.91	0.10	7187178	0.79	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L	0.30	0.10	7187234	0.19	0.10	7187234	0.28	0.10	7187234
Total Organic Carbon (TOC)	mg/L	2.8	0.40	7187763	3.0	0.40	7187763	4.5	0.40	7187763
Orthophosphate (P)	mg/L	<0.010	0.010	7187205	<0.010	0.010	7187247	0.051	0.010	7187205
pH	pH	7.60		7187190	7.71		7187190	7.81		7187190
Phenols-4AAP	mg/L	<0.0010	0.0010	7186713	<0.0010	0.0010	7186836	<0.0010	0.0010	7186836
Alkalinity (Total as CaCO ₃)	mg/L	270	1.0	7187187	300	1.0	7187187	390	1.0	7187187
Nitrite (N)	mg/L	0.018	0.010	7186981	<0.010	0.010	7187278	<0.010	0.010	7187278
Dissolved Chloride (Cl ⁻)	mg/L	1100	10	7188690	380	5.0	7188690	12	1.0	7188694
Nitrate (N)	mg/L	0.13	0.10	7186981	3.87	0.10	7187278	0.34	0.10	7187278
Nitrate + Nitrite (N)	mg/L	0.14	0.10	7186981	3.87	0.10	7187278	0.34	0.10	7187278
Dissolved Bromide (Br ⁻)	mg/L	<10	10	7188690	<5.0	5.0	7188690	<1.0	1.0	7188694
Dissolved Sulphate (SO ₄)	mg/L	340	10	7188690	330	5.0	7188690	140	1.0	7188694
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS709			OTS709			OTS710		
Sampling Date		2021/02/02			2021/02/02			2021/02/02		
COC Number		808571-15-01			808571-15-01			808571-15-01		
	UNITS	P4-IV	RDL	QC Batch	P4-IV Lab-Dup	RDL	QC Batch	51-V	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	330	1.0	7184344				620	1.0	7184344
Inorganics										
Total Ammonia-N	mg/L	0.066	0.050	7187245				<0.050	0.050	7187245
Conductivity	umho/cm	810	1.0	7187186				2200	1.0	7187186
Total Dissolved Solids	mg/L	440	10	7188709	435	10	7188709	1210	10	7186640
Fluoride (F-)	mg/L	0.73	0.10	7187178				1.0	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L	0.30	0.10	7187234				0.22	0.10	7187234
Total Organic Carbon (TOC)	mg/L	4.8	0.40	7187763				3.8	0.40	7187763
Orthophosphate (P)	mg/L	0.019	0.010	7187205				<0.010	0.010	7187205
pH	pH	7.98		7187190				7.80		7187190
Phenols-4AAP	mg/L	<0.0010	0.0010	7186713				<0.0010	0.0010	7186836
Alkalinity (Total as CaCO3)	mg/L	240	1.0	7187187				270	1.0	7187187
Nitrite (N)	mg/L	<0.010	0.010	7186981				<0.010	0.010	7186981
Dissolved Chloride (Cl-)	mg/L	25	1.0	7188690				240	5.0	7188690
Nitrate (N)	mg/L	0.27	0.10	7186981				0.13	0.10	7186981
Nitrate + Nitrite (N)	mg/L	0.27	0.10	7186981				0.13	0.10	7186981
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7188690				<5.0	5.0	7188690
Dissolved Sulphate (SO4)	mg/L	140	1.0	7188690				530	5.0	7188690

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



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS710			OTS711		OTS712		
Sampling Date		2021/02/02			2021/02/02		2021/02/03		
COC Number		808571-15-01			808571-15-01		808571-15-01		
	UNITS	51-V Lab-Dup	RDL	QC Batch	9-I	RDL	47-IV	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				1100	1.0	550	1.0	7184344
Inorganics									
Total Ammonia-N	mg/L				<0.050	0.050	0.12	0.050	7187245
Conductivity	umho/cm				2200	1.0	1300	1.0	7187186
Total Dissolved Solids	mg/L				1600	10	820	10	7186640
Fluoride (F-)	mg/L				0.84	0.10	0.51	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L				0.26	0.20	0.35	0.10	7187234
Total Organic Carbon (TOC)	mg/L	3.8	0.40	7187763	6.5	0.40	5.0	0.40	7187763
Orthophosphate (P)	mg/L				<0.010	0.010	<0.010	0.010	7187205
pH	pH				7.67		7.70		7187190
Phenols-4AAP	mg/L				<0.0010	0.0010	<0.0010	0.0010	7186713
Alkalinity (Total as CaCO3)	mg/L				270	1.0	290	1.0	7187187
Nitrite (N)	mg/L				0.023	0.010	<0.010	0.010	7186981
Dissolved Chloride (Cl-)	mg/L				130	5.0	69	1.0	7188690
Nitrate (N)	mg/L				7.15	0.10	<0.10	0.10	7186981
Nitrate + Nitrite (N)	mg/L				7.17	0.10	<0.10	0.10	7186981
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	<1.0	1.0	7188690
Dissolved Sulphate (SO4)	mg/L				780	5.0	310	1.0	7188690
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS713			OTS729		
Sampling Date		2021/02/03			2021/02/03		
COC Number		808571-15-01			808571-16-01		
	UNITS	4-II	RDL	QC Batch	52-III	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	530	1.0	7184344	410	1.0	7184344
Inorganics							
Total Ammonia-N	mg/L	0.099	0.050	7187245	<0.050	0.050	7187245
Conductivity	umho/cm	1300	1.0	7187186	860	1.0	7187186
Total Dissolved Solids	mg/L	800	10	7186640	515	10	7186640
Fluoride (F-)	mg/L	0.49	0.10	7187178	0.38	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L	0.40	0.10	7187234	0.33	0.10	7187234
Total Organic Carbon (TOC)	mg/L	4.9	0.40	7187763	3.6	0.40	7187763
Orthophosphate (P)	mg/L	<0.010	0.010	7187205	0.025	0.010	7187205
pH	pH	7.64		7187190	7.80		7187190
Phenols-4AAP	mg/L				<0.0010	0.0010	7186713
Alkalinity (Total as CaCO3)	mg/L	300	1.0	7187187	260	1.0	7187187
Nitrite (N)	mg/L	<0.010	0.010	7186981	<0.010	0.010	7187278
Dissolved Chloride (Cl-)	mg/L	69	1.0	7188690	8.5	1.0	7188694
Nitrate (N)	mg/L	<0.10	0.10	7186981	4.07	0.10	7187278
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7186981	4.07	0.10	7187278
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7188690	<1.0	1.0	7188694
Dissolved Sulphate (SO4)	mg/L	310	1.0	7188690	180	1.0	7188694
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OTS704		OTS705		OTS706		OTS707	OTS708		
Sampling Date		2021/02/02		2021/02/02		2021/02/02		2021/02/02	2021/02/02		
COC Number		808571-15-01		808571-15-01		808571-15-01		808571-15-01	808571-15-01		
	UNITS	P7-IR	RDL	P6-IR	RDL	G11	RDL	G13	P10-V	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	12	4.9	<25	25	12	4.9	<4.9	<4.9	4.9	7186645
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	<0.50	0.50	7186645
Dissolved Arsenic (As)	ug/L	4.2	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Barium (Ba)	ug/L	26	2.0	<10	10	31	2.0	30	40	2.0	7186645
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	<0.40	0.40	<0.40	<0.40	0.40	7186645
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Boron (B)	ug/L	450	10	490	50	140	10	270	180	10	7186645
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	0.30	0.090	0.38	1.6	0.090	7186645
Dissolved Calcium (Ca)	ug/L	90000	200	11000	1000	220000	200	210000	120000	200	7186645
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	<5.0	5.0	7186645
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	2.5	1.0	0.50	<0.50	<0.50	0.50	7186645
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	3.4	0.90	3.2	5.1	0.90	7186645
Dissolved Iron (Fe)	ug/L	<100	100	<500	500	<100	100	<100	<100	100	7186645
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	0.82	0.50	<0.50	0.88	0.50	7186645
Dissolved Lithium (Li)	ug/L	64	5.0	<25	25	11	5.0	12	<5.0	5.0	7186645
Dissolved Magnesium (Mg)	ug/L	11000	50	530	250	49000	50	52000	46000	50	7186645
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	<10	10	55	2.0	<2.0	5.6	2.0	7186645
Dissolved Molybdenum (Mo)	ug/L	53	0.50	75	2.5	13	0.50	5.8	2.6	0.50	7186645
Dissolved Nickel (Ni)	ug/L	17	1.0	20	5.0	34	1.0	14	6.5	1.0	7186645
Dissolved Phosphorus (P)	ug/L	<100	100	770	500	<100	100	<100	120	100	7186645
Dissolved Potassium (K)	ug/L	92000	200	140000	1000	2600	200	2300	4300	200	7186645
Dissolved Selenium (Se)	ug/L	6.7	2.0	14	10	<2.0	2.0	<2.0	<2.0	2.0	7186645
Dissolved Silicon (Si)	ug/L	8400	50	9200	250	3200	50	3900	7900	50	7186645
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	<0.090	0.090	7186645
Dissolved Sodium (Na)	ug/L	320000	100	2500000	500	650000	500	210000	35000	100	7186645
Dissolved Strontium (Sr)	ug/L	2400	1.0	1100	5.0	2000	1.0	1600	950	1.0	7186645
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	0.49	0.050	0.17	0.14	0.050	7186645
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	<5.0	5.0	7186645
Dissolved Tungsten (W)	ug/L	15	1.0	20	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.50	0.50	19	0.10	9.8	5.7	0.10	7186645
Dissolved Vanadium (V)	ug/L	2.7	0.50	<2.5	2.5	<0.50	0.50	<0.50	<0.50	0.50	7186645
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<25	25	980	5.0	570	860	5.0	7186645
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OTS709	OTS710	OTS711	OTS712	OTS713	OTS729		
Sampling Date		2021/02/02	2021/02/02	2021/02/02	2021/02/03	2021/02/03	2021/02/03		
COC Number		808571-15-01	808571-15-01	808571-15-01	808571-15-01	808571-15-01	808571-16-01		
	UNITS	P4-IV	51-V	9-I	47-IV	4-II	52-III	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	170	<4.9	5.1	<4.9	<4.9	7.6	4.9	7186645
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.54	<0.50	<0.50	<0.50	0.50	7186645
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Barium (Ba)	ug/L	25	24	51	61	62	38	2.0	7186645
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7186645
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Boron (B)	ug/L	97	150	100	150	150	43	10	7186645
Dissolved Cadmium (Cd)	ug/L	1.0	0.12	4.2	0.98	1.2	1.5	0.090	7186645
Dissolved Calcium (Ca)	ug/L	86000	150000	330000	150000	140000	110000	200	7186645
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7186645
Dissolved Cobalt (Co)	ug/L	<0.50	0.60	<0.50	<0.50	<0.50	<0.50	0.50	7186645
Dissolved Copper (Cu)	ug/L	4.6	<0.90	6.0	1.7	1.7	13	0.90	7186645
Dissolved Iron (Fe)	ug/L	260	<100	<100	<100	<100	<100	100	7186645
Dissolved Lead (Pb)	ug/L	1.9	<0.50	0.81	<0.50	<0.50	<0.50	0.50	7186645
Dissolved Lithium (Li)	ug/L	<5.0	18	6.1	<5.0	<5.0	<5.0	5.0	7186645
Dissolved Magnesium (Mg)	ug/L	27000	60000	69000	43000	43000	32000	50	7186645
Dissolved Manganese (Mn)	ug/L	96	19	26	230	230	9.5	2.0	7186645
Dissolved Molybdenum (Mo)	ug/L	6.7	7.0	3.3	2.9	3.0	1.8	0.50	7186645
Dissolved Nickel (Ni)	ug/L	3.8	6.3	12	2.2	2.1	5.3	1.0	7186645
Dissolved Phosphorus (P)	ug/L	140	<100	<100	<100	<100	<100	100	7186645
Dissolved Potassium (K)	ug/L	7800	4300	5600	3000	3000	1700	200	7186645
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7186645
Dissolved Silicon (Si)	ug/L	5900	4600	4400	4900	4800	2900	50	7186645
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	0.090	7186645
Dissolved Sodium (Na)	ug/L	28000	180000	87000	65000	65000	22000	100	7186645
Dissolved Strontium (Sr)	ug/L	530	1700	2900	1800	1800	600	1.0	7186645
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Thallium (Tl)	ug/L	0.22	0.078	0.23	<0.050	<0.050	<0.050	0.050	7186645
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7186645
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Uranium (U)	ug/L	2.6	8.5	5.8	2.3	2.2	3.7	0.10	7186645
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7186645
Dissolved Zinc (Zn)	ug/L	210	190	1500	170	170	360	5.0	7186645
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS704
Sample ID: P7-IR
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/08	Bramdeo Motiram
Orthophosphate	KONE	7187247	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS704 Dup
Sample ID: P7-IR
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai

BV Labs ID: OTS705
Sample ID: P6-IR
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/06	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/08	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS706
Sample ID: G11
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS707
Sample ID: G13
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7187278	N/A	2021/02/08	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186836	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187247	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS708
Sample ID: P10-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188694	N/A	2021/02/09	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS708
Sample ID: P10-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7187278	N/A	2021/02/08	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186836	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7188709	2021/02/06	2021/02/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS709
Sample ID: P4-IV
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7188709	2021/02/06	2021/02/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS709 Dup
Sample ID: P4-IV
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7188709	2021/02/06	2021/02/08	Shaneil Hall

BV Labs ID: OTS710
Sample ID: 51-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS710
Sample ID: 51-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186836	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS710 Dup
Sample ID: 51-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS711
Sample ID: 9-I
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS712
Sample ID: 47-IV
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai



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VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS712
Sample ID: 47-IV
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/08	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS713
Sample ID: 4-II
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/06	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS729
Sample ID: 52-III
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188694	N/A	2021/02/09	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/06	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal



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VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS729
Sample ID: 52-III
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7187278	N/A	2021/02/08	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/08	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh



GENERAL COMMENTS

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

Package 1	0.7°C
Package 2	0.0°C

Sample OTS705 [P6-IR] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample OTS729 [52-III] : ortho-Phosphate > Total Phosphorus: 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 #: C131308

Report Date: 2021/02/11

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
7186640	Total Dissolved Solids	2021/02/06					<10	mg/L	3.1	25	100	90 - 110
7186645	Dissolved Aluminum (Al)	2021/02/06	94	80 - 120	99	80 - 120	<4.9	ug/L				
7186645	Dissolved Antimony (Sb)	2021/02/06	92	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7186645	Dissolved Arsenic (As)	2021/02/06	89	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7186645	Dissolved Barium (Ba)	2021/02/06	87	80 - 120	97	80 - 120	<2.0	ug/L	1.3	20		
7186645	Dissolved Beryllium (Be)	2021/02/06	89	80 - 120	95	80 - 120	<0.40	ug/L	NC	20		
7186645	Dissolved Bismuth (Bi)	2021/02/06	82	80 - 120	97	80 - 120	<1.0	ug/L				
7186645	Dissolved Boron (B)	2021/02/06	87	80 - 120	94	80 - 120	<10	ug/L	0.50	20		
7186645	Dissolved Cadmium (Cd)	2021/02/06	86	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7186645	Dissolved Calcium (Ca)	2021/02/06	NC	80 - 120	98	80 - 120	<200	ug/L				
7186645	Dissolved Chromium (Cr)	2021/02/06	88	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7186645	Dissolved Cobalt (Co)	2021/02/06	85	80 - 120	95	80 - 120	<0.50	ug/L	7.5	20		
7186645	Dissolved Copper (Cu)	2021/02/06	89	80 - 120	97	80 - 120	<0.90	ug/L	17	20		
7186645	Dissolved Iron (Fe)	2021/02/06	87	80 - 120	95	80 - 120	<100	ug/L				
7186645	Dissolved Lead (Pb)	2021/02/06	80	80 - 120	94	80 - 120	<0.50	ug/L	NC	20		
7186645	Dissolved Lithium (Li)	2021/02/06	87	80 - 120	98	80 - 120	<5.0	ug/L				
7186645	Dissolved Magnesium (Mg)	2021/02/06	NC	80 - 120	95	80 - 120	<50	ug/L				
7186645	Dissolved Manganese (Mn)	2021/02/06	85	80 - 120	95	80 - 120	<2.0	ug/L				
7186645	Dissolved Molybdenum (Mo)	2021/02/06	97	80 - 120	99	80 - 120	<0.50	ug/L	12	20		
7186645	Dissolved Nickel (Ni)	2021/02/06	82	80 - 120	94	80 - 120	<1.0	ug/L	9.3	20		
7186645	Dissolved Phosphorus (P)	2021/02/06	91	80 - 120	116	80 - 120	<100	ug/L				
7186645	Dissolved Potassium (K)	2021/02/06	90	80 - 120	96	80 - 120	<200	ug/L				
7186645	Dissolved Selenium (Se)	2021/02/06	87	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7186645	Dissolved Silicon (Si)	2021/02/06	95	80 - 120	98	80 - 120	<50	ug/L				
7186645	Dissolved Silver (Ag)	2021/02/06	72 (1)	80 - 120	92	80 - 120	<0.090	ug/L	NC	20		
7186645	Dissolved Sodium (Na)	2021/02/06	NC	80 - 120	95	80 - 120	<100	ug/L				
7186645	Dissolved Strontium (Sr)	2021/02/06	NC	80 - 120	95	80 - 120	<1.0	ug/L				
7186645	Dissolved Tellurium (Te)	2021/02/06	86	80 - 120	98	80 - 120	<1.0	ug/L				
7186645	Dissolved Thallium (Tl)	2021/02/06	80	80 - 120	93	80 - 120	<0.050	ug/L	NC	20		
7186645	Dissolved Tin (Sn)	2021/02/06	94	80 - 120	98	80 - 120	<1.0	ug/L				
7186645	Dissolved Titanium (Ti)	2021/02/06	92	80 - 120	99	80 - 120	<5.0	ug/L				



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VERITAS

BV Labs Job #: C131308

Report Date: 2021/02/11

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
7186645	Dissolved Tungsten (W)	2021/02/06	91	80 - 120	96	80 - 120	<1.0	ug/L				
7186645	Dissolved Uranium (U)	2021/02/06	91	80 - 120	99	80 - 120	<0.10	ug/L	3.4	20		
7186645	Dissolved Vanadium (V)	2021/02/06	90	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7186645	Dissolved Zinc (Zn)	2021/02/06	82	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7186645	Dissolved Zirconium (Zr)	2021/02/06	98	80 - 120	101	80 - 120	<1.0	ug/L				
7186713	Phenols-4AAP	2021/02/05	103	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
7186836	Phenols-4AAP	2021/02/05	104	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
7186981	Nitrate (N)	2021/02/05	97	80 - 120	94	80 - 120	<0.10	mg/L	0.39	20		
7186981	Nitrite (N)	2021/02/05	104	80 - 120	103	80 - 120	<0.010	mg/L	NC	20		
7187178	Fluoride (F-)	2021/02/08	108	80 - 120	103	80 - 120	<0.10	mg/L	1.4	20		
7187186	Conductivity	2021/02/08			101	85 - 115	<1.0	umho/cm	0	25		
7187187	Alkalinity (Total as CaCO3)	2021/02/08			97	85 - 115	<1.0	mg/L	4.9	20		
7187190	pH	2021/02/08			102	98 - 103			1.9	N/A		
7187205	Orthophosphate (P)	2021/02/08	96	75 - 125	98	80 - 120	<0.010	mg/L	NC	25		
7187234	Total Kjeldahl Nitrogen (TKN)	2021/02/08	109	80 - 120	106	80 - 120	<0.10	mg/L	12	20	104	80 - 120
7187245	Total Ammonia-N	2021/02/07	94	75 - 125	99	80 - 120	<0.050	mg/L	NC	20		
7187247	Orthophosphate (P)	2021/02/08	105	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7187278	Nitrate (N)	2021/02/08	101	80 - 120	102	80 - 120	<0.10	mg/L	0.10	20		
7187278	Nitrite (N)	2021/02/08	104	80 - 120	106	80 - 120	<0.010	mg/L	0.57	20		
7187763	Total Organic Carbon (TOC)	2021/02/06	93	80 - 120	95	80 - 120	<0.40	mg/L	0.42	20		
7188690	Dissolved Bromide (Br-)	2021/02/08	113	80 - 120	111	80 - 120	<1.0	mg/L	NC	20		
7188690	Dissolved Chloride (Cl-)	2021/02/08	NC	80 - 120	99	70 - 130	<1.0	mg/L	0.69	20		
7188690	Dissolved Sulphate (SO4)	2021/02/08	NC	80 - 120	101	80 - 120	<1.0	mg/L	0.68	20		
7188694	Dissolved Bromide (Br-)	2021/02/09	118	80 - 120	111	80 - 120	<1.0	mg/L	NC	20		
7188694	Dissolved Chloride (Cl-)	2021/02/09	102	80 - 120	99	70 - 130	<1.0	mg/L				
7188694	Dissolved Sulphate (SO4)	2021/02/09	103	80 - 120	101	80 - 120	<1.0	mg/L				



BUREAU
VERITAS

BV Labs Job #: C131308

Report Date: 2021/02/11

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
7188709	Total Dissolved Solids	2021/02/08					<10	mg/L	1.1	25	100	90 - 110

N/A = Not Applicable

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

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

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

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

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

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 #: C131308
Report Date: 2021/02/11

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 the following individual(s).

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.



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: Fax:	Project Name: GW	Site #:	COC #:	Project Manager:
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com, dtaylor2@terrapureenv.com			Sampled By:	C#808571-15-01		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 / Ig / Cr / VI List "A" GW Monitoring GW List "A" - Excluding Phenols										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												# of Bottles		
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality: _____												Comments		
<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	Field Filtered	List "A" GW Monitoring											# of Bottles	Comments
1	P7-IR	21/02/02	AM	GW	Y	✓											6	
2	P8-IR	↑		GW	Y	✓											6	
3	G11			GW	Y	✓											6	
4	G13			GW	Y	✓											5	
5	P10-IV			GW	Y	✓											6	
6	P4-IV			GW	Y	✓											6	
7	51-V	↓		GW	Y	✓											6	
8	9-I	21/02/02		GW	Y	✓											6	
9	47-IV	21/02/03		GW	Y	✓											6	
10	4-II	21/02/03	↓	GW	Y	✓											5	

04-Feb-21 15:33
Jolanta Goralczyk
C131308
ATM ENV-762

* 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				
	21/02/04	AM		02/10/2021	5:33		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
								1/110 0/160	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.
 White: BV Labs Yellow: Client
 SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS



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		808571	
Stoney Creek ON L8J 1X5				Project Name: GW		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:		Jolanta Goralczyk	
						C#808571-16-01	

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 / V	List "A" GW Monitoring													Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____			<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____																				Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	
Include Criteria on Certificate of Analysis (Y/N)?																								
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix													# of Bottles	Comments						
	52-III	21/02/03	Am	GW	Y	✓													6					
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

* RELINQUISHED BY: (Signature/Print)		Date: YY/MM/DD	Time	RECEIVED BY: (Signature/Print)		Date: YY/MM/DD	Time	# jars used and not submitted	Laboratory Use Only				
		21/02/04	Am			2021/02/04	15:33		Time Sensitive	Temperature (°C) on Recl	Custody Seal Present	Yes	No
										1/1/0	0/0/0	✓	

* 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. #: 808253-19-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/02/25
Report #: R6533251
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C147042

Received: 2021/02/22, 15:37

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/02/23	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/02/24	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/02/23	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/02/22	2021/02/23	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/02/25	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/02/23	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/02/24	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/02/23	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/02/22	2021/02/23	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/02/24	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/02/23	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	1	2021/02/24	2021/02/25	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/02/23	2021/02/25	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/02/25	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

25 Feb 2021 17:27:54

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

Jolanta Goralczyk, Project Manager

Email: Jolanta.Goralczyk@bureauveritas.com

Phone# (905)817-5751

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

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



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		OXB881			OXB881		
Sampling Date		2021/02/18			2021/02/18		
COC Number		808253-19-01			808253-19-01		
	UNITS	P8-I	RDL	QC Batch	P8-I Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	2100	1.0	7211474			
Inorganics							
Total Ammonia-N	mg/L	160 (1)	1.0	7213668			
Conductivity	umho/cm	18000	1.0	7211789	18000	1.0	7211789
Total Dissolved Solids	mg/L	10500	20	7215087			
Fluoride (F-)	mg/L	2.7	0.10	7211761	2.7	0.10	7211761
Total Kjeldahl Nitrogen (TKN)	mg/L	160 (1)	5.0	7213189			
Total Organic Carbon (TOC)	mg/L	28	0.40	7215737	28	0.40	7215737
Orthophosphate (P)	mg/L	<0.10 (2)	0.10	7211780			
pH	pH	7.21		7211764	7.19		7211764
Phenols-4AAP	mg/L	0.0056	0.0020	7214909			
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7211762	320	1.0	7211762
Nitrite (N)	mg/L	<0.010	0.010	7211965			
Dissolved Chloride (Cl-)	mg/L	4700	50	7213280	4600	50	7213280
Nitrate (N)	mg/L	<0.10	0.10	7211965			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7211965			
Dissolved Bromide (Br-)	mg/L	<50	50	7213280	<50	50	7213280
Dissolved Sulphate (SO4)	mg/L	2100	50	7213280	2100	50	7213280
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. (2) Due to colour interferences, sample required dilution. Detection limit was adjusted accordingly.							



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OXB881		
Sampling Date		2021/02/18		
COC Number		808253-19-01		
	UNITS	P8-I	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	66	25	7212789
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	7212789
Dissolved Arsenic (As)	ug/L	<5.0	5.0	7212789
Dissolved Barium (Ba)	ug/L	43	10	7212789
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	7212789
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	7212789
Dissolved Boron (B)	ug/L	2100	50	7212789
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	7212789
Dissolved Calcium (Ca)	ug/L	650000	1000	7212789
Dissolved Chromium (Cr)	ug/L	<25	25	7212789
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	7212789
Dissolved Copper (Cu)	ug/L	<4.5	4.5	7212789
Dissolved Iron (Fe)	ug/L	16000	500	7212789
Dissolved Lead (Pb)	ug/L	<2.5	2.5	7212789
Dissolved Lithium (Li)	ug/L	240	25	7212789
Dissolved Magnesium (Mg)	ug/L	110000	250	7212789
Dissolved Manganese (Mn)	ug/L	930	10	7212789
Dissolved Molybdenum (Mo)	ug/L	4.7	2.5	7212789
Dissolved Nickel (Ni)	ug/L	5.0	5.0	7212789
Dissolved Phosphorus (P)	ug/L	<500	500	7212789
Dissolved Potassium (K)	ug/L	130000	1000	7212789
Dissolved Selenium (Se)	ug/L	<10	10	7212789
Dissolved Silicon (Si)	ug/L	22000	250	7212789
Dissolved Silver (Ag)	ug/L	<0.45	0.45	7212789
Dissolved Sodium (Na)	ug/L	2800000	500	7212789
Dissolved Strontium (Sr)	ug/L	5300	5.0	7212789
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	7212789
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	7212789
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7212789
Dissolved Titanium (Ti)	ug/L	<25	25	7212789
Dissolved Tungsten (W)	ug/L	<5.0	5.0	7212789
Dissolved Uranium (U)	ug/L	<0.50	0.50	7212789
Dissolved Vanadium (V)	ug/L	<2.5	2.5	7212789
Dissolved Zinc (Zn)	ug/L	<25	25	7212789
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	7212789
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: OXB881
Sample ID: P8-I
Matrix: Water

Collected: 2021/02/18
Shipped:
Received: 2021/02/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7211762	N/A	2021/02/23	Surinder Rai
Anions	IC	7213280	N/A	2021/02/24	Fari Dehdezi
Conductivity	AT	7211789	N/A	2021/02/23	Surinder Rai
Fluoride	ISE	7211761	2021/02/22	2021/02/23	Surinder Rai
Hardness (calculated as CaCO3)		7211474	N/A	2021/02/25	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7212789	N/A	2021/02/23	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7213668	N/A	2021/02/24	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7211965	N/A	2021/02/23	Chandra Nandlal
pH	AT	7211764	2021/02/22	2021/02/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7214909	N/A	2021/02/24	Bramdeo Motiram
Orthophosphate	KONE	7211780	N/A	2021/02/23	Avneet Kour Sudan
Total Dissolved Solids	BAL	7215087	2021/02/24	2021/02/25	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7213189	2021/02/23	2021/02/25	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7215737	N/A	2021/02/25	Nimarta Singh

BV Labs ID: OXB881 Dup
Sample ID: P8-I
Matrix: Water

Collected: 2021/02/18
Shipped:
Received: 2021/02/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7211762	N/A	2021/02/23	Surinder Rai
Anions	IC	7213280	N/A	2021/02/24	Fari Dehdezi
Conductivity	AT	7211789	N/A	2021/02/23	Surinder Rai
Fluoride	ISE	7211761	2021/02/22	2021/02/23	Surinder Rai
pH	AT	7211764	2021/02/22	2021/02/23	Surinder Rai
Total Organic Carbon (TOC)	TOCV/NDIR	7215737	N/A	2021/02/25	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

GENERAL COMMENTS

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

Package 1	0.3°C
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Sample OXB881 [P8-I] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

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 #: C147042

Report Date: 2021/02/25

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
7211761	Fluoride (F-)	2021/02/23	94	80 - 120	98	80 - 120	<0.10	mg/L	0.51	20		
7211762	Alkalinity (Total as CaCO3)	2021/02/23			97	85 - 115	<1.0	mg/L	0.054	20		
7211764	pH	2021/02/23			102	98 - 103			0.26	N/A		
7211780	Orthophosphate (P)	2021/02/23	103	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7211789	Conductivity	2021/02/23			101	85 - 115	<1.0	umho/cm	0.11	25		
7211965	Nitrate (N)	2021/02/23	89	80 - 120	93	80 - 120	<0.10	mg/L	NC	20		
7211965	Nitrite (N)	2021/02/23	104	80 - 120	107	80 - 120	<0.010	mg/L	3.8	20		
7212789	Dissolved Aluminum (Al)	2021/02/23	110	80 - 120	103	80 - 120	<4.9	ug/L				
7212789	Dissolved Antimony (Sb)	2021/02/23	112	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7212789	Dissolved Arsenic (As)	2021/02/23	107	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7212789	Dissolved Barium (Ba)	2021/02/23	106	80 - 120	99	80 - 120	<2.0	ug/L	0.69	20		
7212789	Dissolved Beryllium (Be)	2021/02/23	106	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7212789	Dissolved Bismuth (Bi)	2021/02/23	102	80 - 120	95	80 - 120	<1.0	ug/L				
7212789	Dissolved Boron (B)	2021/02/23	101	80 - 120	95	80 - 120	<10	ug/L	0.40	20		
7212789	Dissolved Cadmium (Cd)	2021/02/23	107	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7212789	Dissolved Calcium (Ca)	2021/02/23	NC	80 - 120	100	80 - 120	<200	ug/L				
7212789	Dissolved Chromium (Cr)	2021/02/23	103	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7212789	Dissolved Cobalt (Co)	2021/02/23	101	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
7212789	Dissolved Copper (Cu)	2021/02/23	106	80 - 120	98	80 - 120	<0.90	ug/L	1.0	20		
7212789	Dissolved Iron (Fe)	2021/02/23	102	80 - 120	93	80 - 120	<100	ug/L				
7212789	Dissolved Lead (Pb)	2021/02/23	98	80 - 120	91	80 - 120	<0.50	ug/L	NC	20		
7212789	Dissolved Lithium (Li)	2021/02/23	107	80 - 120	99	80 - 120	<5.0	ug/L				
7212789	Dissolved Magnesium (Mg)	2021/02/23	NC	80 - 120	95	80 - 120	<50	ug/L				
7212789	Dissolved Manganese (Mn)	2021/02/23	103	80 - 120	95	80 - 120	<2.0	ug/L				
7212789	Dissolved Molybdenum (Mo)	2021/02/23	111	80 - 120	100	80 - 120	<0.50	ug/L	1.6	20		
7212789	Dissolved Nickel (Ni)	2021/02/23	99	80 - 120	93	80 - 120	<1.0	ug/L	0.18	20		
7212789	Dissolved Phosphorus (P)	2021/02/23	118	80 - 120	122 (1)	80 - 120	<100	ug/L				
7212789	Dissolved Potassium (K)	2021/02/23	106	80 - 120	97	80 - 120	<200	ug/L				
7212789	Dissolved Selenium (Se)	2021/02/23	106	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7212789	Dissolved Silicon (Si)	2021/02/23	109	80 - 120	100	80 - 120	<50	ug/L				



**BUREAU
VERITAS**

BV Labs Job #: C147042

Report Date: 2021/02/25

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
7212789	Dissolved Silver (Ag)	2021/02/23	99	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7212789	Dissolved Sodium (Na)	2021/02/23	NC	80 - 120	95	80 - 120	<100	ug/L	1.6	20		
7212789	Dissolved Strontium (Sr)	2021/02/23	NC	80 - 120	96	80 - 120	<1.0	ug/L				
7212789	Dissolved Tellurium (Te)	2021/02/23	107	80 - 120	99	80 - 120	<1.0	ug/L				
7212789	Dissolved Thallium (Tl)	2021/02/23	98	80 - 120	90	80 - 120	<0.050	ug/L	NC	20		
7212789	Dissolved Tin (Sn)	2021/02/23	111	80 - 120	99	80 - 120	<1.0	ug/L				
7212789	Dissolved Titanium (Ti)	2021/02/23	112	80 - 120	99	80 - 120	<5.0	ug/L				
7212789	Dissolved Tungsten (W)	2021/02/23	104	80 - 120	94	80 - 120	<1.0	ug/L				
7212789	Dissolved Uranium (U)	2021/02/23	104	80 - 120	96	80 - 120	<0.10	ug/L	0.58	20		
7212789	Dissolved Vanadium (V)	2021/02/23	105	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7212789	Dissolved Zinc (Zn)	2021/02/23	100	80 - 120	93	80 - 120	<5.0	ug/L	0.080	20		
7212789	Dissolved Zirconium (Zr)	2021/02/23	114	80 - 120	102	80 - 120	<1.0	ug/L				
7213189	Total Kjeldahl Nitrogen (TKN)	2021/02/24	107	80 - 120	97	80 - 120	<0.10	mg/L	NC (2)	20	97	80 - 120
7213280	Dissolved Bromide (Br-)	2021/02/24	102	80 - 120	106	80 - 120	<1.0	mg/L	NC	20		
7213280	Dissolved Chloride (Cl-)	2021/02/24	NC	80 - 120	96	70 - 130	<1.0	mg/L	0.37	20		
7213280	Dissolved Sulphate (SO4)	2021/02/24	NC	80 - 120	97	80 - 120	<1.0	mg/L	0.54	20		
7213668	Total Ammonia-N	2021/02/24	97	75 - 125	100	80 - 120	<0.050	mg/L	5.6	20		
7214909	Phenols-4AAP	2021/02/24	100	80 - 120	98	80 - 120	<0.0010	mg/L	0	20		
7215087	Total Dissolved Solids	2021/02/25					<10	mg/L	2.8	25	100	90 - 110



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

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
7215737	Total Organic Carbon (TOC)	2021/02/25	NC	80 - 120	98	80 - 120	<0.40	mg/L	0.43	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.

(2) Due to a high concentration of NOx, the sample required dilution. The detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

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 the following individual(s).

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

Anastassia Hamanov, Scientific Specialist

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



Bureau Veritas Laboratories
6743 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Attention: Brad Mullin Address: Tel: (905) 548-5882 Fax: (905) 578-7533 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 #: Bottle Order #: 808253 COC #: Project Manager: Jolanta Goralczyk C#808253-19-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
Regulation 153 (2011)		Other Regulations		Special Instructions				Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw				<input checked="" type="checkbox"/>	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw					
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality					
<input type="checkbox"/> Table			<input type="checkbox"/> PWO	Reg 406 Table					
Include Criteria on Certificate of Analysis (Y/N)?									
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI			# of Bottles	Comments
	P8-I	Feb 18 2021	AM	water	Y	✓		6	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

22-Feb-21 15:37
 Jolanta Goralczyk

 C147042
 GID ENV-1381

* RELINQUISHED BY: (Signature/Print) Dan Taylor		Date: (YY/MM/DD) 21/02/22	Time 10:30	RECEIVED BY: (Signature/Print) [Signature]		Date: (YY/MM/DD) 02/10/21	Time [Time]	# jars used and not submitted	Laboratory Use Only			
								Time Sensitive	Temperature (°C) on Recept 0/0/1	Custody Seal Present	Yes	No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.
 White: BV Labs Yellow: Client
 SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS



Your Project #: EQ LEACH
Your C.O.C. #: 815199-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/03/12
Report #: R6553107
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C158424

Received: 2021/03/04, 15:50

Sample Matrix: Leachate
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/03/09	2021/03/09	CAM SOP-00301	EPA 8270 m
Alkalinity	1	N/A	2021/03/05	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/03/05	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	1	2021/03/05	2021/03/10	CAM SOP-00427	SM 23 5210B m
Conductivity	1	N/A	2021/03/05	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/03/05	2021/03/05	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/03/09	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Calcium and Magnesium	1	2021/03/05	2021/03/08	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	1	N/A	2021/03/08	CAM SOP-00447	EPA 6020B m
Resin and Fatty Acids (1)	1	2021/03/11	2021/03/12	STL SOP-00152	MA414-Aci-g-r-1.0R3m
Neutral Chlorinated in Water by GC/ECD	1	2021/03/05	2021/03/09	CAM SOP-00317	EPA 8121 m
Total Ammonia-N	1	N/A	2021/03/08	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	1	N/A	2021/03/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	1	2021/03/08	2021/03/09	CAM SOP-00309	EPA 8082A m
pH	1	2021/03/05	2021/03/05	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/03/08	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/03/08	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/03/05	2021/03/05	CAM SOP-00938	OMOE E3516 m
Tot./Min./ Animal & Veg. Oil and Grease	1	2021/03/10	2021/03/10	CAM SOP-00326	EPA 821/R-98-002 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/03/05	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/03/08	2021/03/08	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/03/05	2021/03/06	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	1	N/A	2021/03/05	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	1	N/A	2021/03/05	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) This test was performed by BVLab Montreal via Mississauga

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

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



Your Project #: EQ LEACH
Your C.O.C. #: 815199-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/03/12
Report #: R6553107
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C158424

Received: 2021/03/04, 15:50

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
12 Mar 2021 18:46:26

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

=====
This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

MISA ATG 19 & 20 (ABNS)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<2.0	2.0	7236295
Acenaphthylene	ug/L	<2.0	2.0	7236295
Anthracene	ug/L	<2.0	2.0	7236295
Benzo(a)anthracene	ug/L	<2.0	2.0	7236295
Benzo(a)pyrene	ug/L	<2.0	2.0	7236295
Benzo(b,j)fluoranthene	ug/L	<2.0	2.0	7236295
Benzo(g,h,i)perylene	ug/L	<2.0	2.0	7236295
Benzo(k)fluoranthene	ug/L	<2.0	2.0	7236295
1-Chloronaphthalene	ug/L	<10	10	7236295
2-Chloronaphthalene	ug/L	<5.0	5.0	7236295
Chrysene	ug/L	<2.0	2.0	7236295
Dibenzo(a,h)anthracene	ug/L	<2.0	2.0	7236295
Fluoranthene	ug/L	<2.0	2.0	7236295
Fluorene	ug/L	<2.0	2.0	7236295
Indeno(1,2,3-cd)pyrene	ug/L	<2.0	2.0	7236295
1-Methylnaphthalene	ug/L	2.1	2.0	7236295
2-Methylnaphthalene	ug/L	<2.0	2.0	7236295
Naphthalene	ug/L	21	2.0	7236295
5-Nitroacenaphthene	ug/L	<10	10	7236295
Perylene	ug/L	<2.0	2.0	7236295
Phenanthrene	ug/L	<2.0	2.0	7236295
Pyrene	ug/L	<2.0	2.0	7236295
2-Chlorophenol	ug/L	<3.0	3.0	7236295
4-Chloro-3-Methylphenol	ug/L	<5.0	5.0	7236295
m/p-Cresol	ug/L	110	5.0	7236295
o-Cresol	ug/L	22	5.0	7236295
2,4-Dichlorophenol	ug/L	<3.0	3.0	7236295
2,6-Dichlorophenol	ug/L	<5.0	5.0	7236295
2,4-Dimethylphenol	ug/L	<5.0	5.0	7236295
2,4-Dinitrophenol	ug/L	<50	50	7236295
4,6-Dinitro-2-methylphenol	ug/L	<20	20	7236295
4-Nitrophenol	ug/L	<14	14	7236295
Pentachlorophenol	ug/L	<10	10	7236295
Phenol	ug/L	180	5.0	7236295
2,3,4,5-Tetrachlorophenol	ug/L	<4.0	4.0	7236295
2,3,4,6-Tetrachlorophenol	ug/L	<5.0	5.0	7236295
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG 19 & 20 (ABNS)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
2,3,5,6-Tetrachlorophenol	ug/L	<5.0	5.0	7236295
2,3,4-Trichlorophenol	ug/L	<5.0	5.0	7236295
2,3,5-Trichlorophenol	ug/L	<5.0	5.0	7236295
2,4,5-Trichlorophenol	ug/L	<5.0	5.0	7236295
2,4,6-Trichlorophenol	ug/L	<5.0	5.0	7236295
Benzyl butyl phthalate	ug/L	<5.0	5.0	7236295
Biphenyl	ug/L	<5.0	5.0	7236295
Bis(2-chloroethyl)ether	ug/L	<5.0	5.0	7236295
Bis(2-chloroethoxy)methane	ug/L	<5.0	5.0	7236295
Bis(2-chloroisopropyl)ether	ug/L	<5.0	5.0	7236295
Bis(2-ethylhexyl)phthalate	ug/L	<20	20	7236295
4-Bromophenyl phenyl ether	ug/L	<3.0	3.0	7236295
Camphene	ug/L	<10	10	7236295
4-Chlorophenyl phenyl ether	ug/L	<5.0	5.0	7236295
Di-N-butyl phthalate	ug/L	<20	20	7236295
di-n-octyl phthalate	ug/L	<8.0	8.0	7236295
2,4-Dinitrotoluene	ug/L	<5.0	5.0	7236295
2,6-Dinitrotoluene	ug/L	<5.0	5.0	7236295
Diphenyl Ether	ug/L	<3.0	3.0	7236295
Indole	ug/L	<10	10	7236295
Nitrosodiphenylamine/Diphenylamine	ug/L	<10	10	7236295
N-Nitroso-di-n-propylamine	ug/L	<5.0	5.0	7236295
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	99		7236295
2-Fluorobiphenyl	%	62		7236295
2-Fluorophenol	%	38		7236295
D14-Terphenyl	%	101		7236295
D5-Nitrobenzene	%	71		7236295
D5-Phenol	%	24		7236295
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG23 NEUTRAL CHLORINATED COMPOUNDS (LEACHATE)

BV Labs ID		OZM826	OZM826		
Sampling Date		2021/03/03	2021/03/03		
COC Number		815199-01-01	815199-01-01		
	UNITS	EQ LEACH	EQ LEACH Lab-Dup	RDL	QC Batch
Pesticides & Herbicides					
1,2,3,4-Tetrachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
1,2,3,5-Tetrachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
1,2,3-Trichlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
1,2,4,5-Tetrachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
1,2,4-Trichlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
2,4,5-Trichlorotoluene	ug/L	<0.040	<0.040	0.040	7231608
Hexachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
Hexachlorobutadiene	ug/L	<0.0090	<0.0090	0.0090	7231608
Hexachlorocyclopentadiene	ug/L	<0.025	<0.025	0.025	7231608
Hexachloroethane	ug/L	<0.010	<0.010	0.010	7231608
Octachlorostyrene	ug/L	<0.040	<0.040	0.040	7231608
Pentachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
Surrogate Recovery (%)					
1,3,5-Tribromobenzene	%	77	76		7231608
2,4,5,6-Tetrachloro-m-xylene	%	71	73		7231608
Decachlorobiphenyl	%	81	71		7231608
Hexabromobenzene	%	85	70		7231608
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate					



BUREAU
VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

MISA ATG 16-18 VOLATILE ORGANICS (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	2100	500	7229592
Benzene	ug/L	13	5.0	7229592
Bromodichloromethane	ug/L	<5.0	5.0	7229592
Acrolein	ug/L	<500	500	7229594
Bromoform	ug/L	<10	10	7229592
Bromomethane	ug/L	<25	25	7229592
Carbon Tetrachloride	ug/L	<5.0	5.0	7229592
Chlorobenzene	ug/L	<5.0	5.0	7229592
Chloroform	ug/L	<5.0	5.0	7229592
Acrylonitrile	ug/L	<250	250	7229594
Chloromethane	ug/L	<25	25	7229592
Dibromochloromethane	ug/L	<10	10	7229592
1,2-Dichlorobenzene	ug/L	<10	10	7229592
1,3-Dichlorobenzene	ug/L	<10	10	7229592
1,4-Dichlorobenzene	ug/L	<10	10	7229592
1,1-Dichloroethane	ug/L	<5.0	5.0	7229592
1,2-Dichloroethane	ug/L	<10	10	7229592
1,1-Dichloroethylene	ug/L	<5.0	5.0	7229592
cis-1,2-Dichloroethylene	ug/L	<5.0	5.0	7229592
trans-1,2-Dichloroethylene	ug/L	<5.0	5.0	7229592
1,2-Dichloropropane	ug/L	<5.0	5.0	7229592
cis-1,3-Dichloropropene	ug/L	<10	10	7229592
trans-1,3-Dichloropropene	ug/L	<10	10	7229592
Ethylbenzene	ug/L	29	5.0	7229592
Ethylene Dibromide	ug/L	<10	10	7229592
Methylene Chloride(Dichloromethane)	ug/L	<25	25	7229592
Methyl Ethyl Ketone (2-Butanone)	ug/L	790	250	7229592
Methyl Isobutyl Ketone	ug/L	<250	250	7229592
Methyl t-butyl ether (MTBE)	ug/L	18	10	7229592
Styrene	ug/L	<10	10	7229592
1,1,1,2-Tetrachloroethane	ug/L	<10	10	7229592
1,1,2,2-Tetrachloroethane	ug/L	<10	10	7229592
Tetrachloroethylene	ug/L	<5.0	5.0	7229592
Toluene	ug/L	210	10	7229592
1,1,1-Trichloroethane	ug/L	<5.0	5.0	7229592
1,1,2-Trichloroethane	ug/L	<10	10	7229592
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG 16-18 VOLATILE ORGANICS (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Trichloroethylene	ug/L	<5.0	5.0	7229592
Trichlorofluoromethane (FREON 11)	ug/L	<10	10	7229592
Vinyl Chloride	ug/L	<10	10	7229592
p+m-Xylene	ug/L	45	5.0	7229592
o-Xylene	ug/L	23	5.0	7229592
Total Xylenes	ug/L	68	5.0	7229592
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	101		7229592
D4-1,2-Dichloroethane	%	104		7229592
D8-Toluene	%	100		7229592
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



RESULTS OF ANALYSES OF LEACHATE

BV Labs ID		OZM826			OZM826		
Sampling Date		2021/03/03			2021/03/03		
COC Number		815199-01-01			815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch	EQ LEACH Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO ₃)	mg/L	380	1.0	7229500			
Inorganics							
Total Ammonia-N	mg/L	190	0.50	7231977			
Total BOD	mg/L	290	2	7231187			
Conductivity	umho/cm	14000	1.0	7230176			
Fluoride (F ⁻)	mg/L	3.0	0.10	7230167			
Total Kjeldahl Nitrogen (TKN)	mg/L	200	10	7231973			
Total Organic Carbon (TOC)	mg/L	390	2.0	7231981			
Orthophosphate (P)	mg/L	0.45	0.10	7233693			
pH	pH	8.28		7230177			
Phenols-4AAP	mg/L	0.93	0.10	7234137			
Total Phosphorus	mg/L	2.7	0.40	7234529			
Total Suspended Solids	mg/L	18	10	7231477			
Alkalinity (Total as CaCO ₃)	mg/L	3200	5.0	7230169			
Nitrite (N)	mg/L	<0.050	0.050	7231606			
Dissolved Chloride (Cl ⁻)	mg/L	2600	20	7232216	2700	20	7232216
Nitrate (N)	mg/L	<0.50	0.50	7231606			
Dissolved Bromide (Br ⁻)	mg/L	72	20	7232216	73	20	7232216
Dissolved Sulphate (SO ₄)	mg/L	210	20	7232216	220	20	7232216
Petroleum Hydrocarbons							
Animal/Vegetable Oil and Grease	mg/L	51	1	7240412			
Mineral Oil and Grease	mg/L	15	1	7240412			
Oil & Grease	mg/L	67	1	7240412			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



ELEMENTS BY ATOMIC SPECTROSCOPY (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	41	0.50	7232530
Dissolved Magnesium (Mg)	mg/L	68	0.50	7232530
Total Aluminum (Al)	mg/L	0.032	0.0049	7234519
Total Barium (Ba)	mg/L	0.18	0.0020	7234519
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7234519
Total Boron (B)	mg/L	3.8	0.010	7234519
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7234519
Total Calcium (Ca)	mg/L	46	0.20	7234519
Total Chromium (Cr)	mg/L	0.018	0.0050	7234519
Total Cobalt (Co)	mg/L	0.0042	0.00050	7234519
Total Copper (Cu)	mg/L	0.0052	0.00090	7234519
Total Iron (Fe)	mg/L	1.2	0.10	7234519
Total Lead (Pb)	mg/L	0.0050	0.00050	7234519
Total Magnesium (Mg)	mg/L	74	0.050	7234519
Total Manganese (Mn)	mg/L	0.13	0.0020	7234519
Total Molybdenum (Mo)	mg/L	0.29	0.00050	7234519
Total Nickel (Ni)	mg/L	0.15	0.0010	7234519
Total Potassium (K)	mg/L	1300	2.0	7234519
Total Silicon (Si)	mg/L	16	0.050	7234519
Total Sodium (Na)	mg/L	2000	0.50	7234519
Total Strontium (Sr)	mg/L	4.3	0.0010	7234519
Total Titanium (Ti)	mg/L	0.028	0.0050	7234519
Total Vanadium (V)	mg/L	0.067	0.00050	7234519
Total Zinc (Zn)	mg/L	0.0053	0.0050	7234519
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



POLYCHLORINATED BIPHENYLS BY GC-ECD (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
PCBs				
Aroclor 1016	ug/L	<0.05	0.05	7235389
Aroclor 1221	ug/L	<0.05	0.05	7235389
Aroclor 1232	ug/L	<0.05	0.05	7235389
Aroclor 1242	ug/L	<0.05	0.05	7235389
Aroclor 1248	ug/L	<0.05	0.05	7235389
Aroclor 1254	ug/L	<0.05	0.05	7235389
Aroclor 1260	ug/L	<0.05	0.05	7235389
Aroclor 1262	ug/L	<0.05	0.05	7235389
Aroclor 1268	ug/L	<0.05	0.05	7235389
Total PCB	ug/L	<0.05	0.05	7235389
Surrogate Recovery (%)				
Decachlorobiphenyl	%	97		7235389
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



RESIN AND FATTY ACIDS BY GC-MS (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Fatty Acids				
9,10-Dichlorostearic acid	ug/L	<3.0	3.0	7245273
Linoleic acid (C18:2)	ug/L	<3.0	3.0	7245273
Linolenic acid (C18:3)	ug/L	<3.0	3.0	7245273
Oleic acid (C18:1)	ug/L	<3.0	3.0	7245273
Resin Acids				
12,14-Dichlorodehydroabiatic acid	ug/L	<3.0	3.0	7245273
12-Chlorodehydroabiatic acid	ug/L	<3.0	3.0	7245273
14-Chlorodehydroabiatic acid	ug/L	<3.0	3.0	7245273
Abiatic acid	ug/L	<5.0	5.0	7245273
Dehydroabiatic acid	ug/L	120	5.0	7245273
Isopimaric acid	ug/L	<3.0	3.0	7245273
Neoabiatic acid	ug/L	<3.0	3.0	7245273
Palustric acid	ug/L	<3.0	3.0	7245273
Pimaric acid	ug/L	4.4	3.0	7245273
Sandaracopimaric acid	ug/L	<3.0	3.0	7245273
Resin and Fatty Acids				
Levopimaric acid	ug/L	<3.0	3.0	7245273
Palmitic acid	ug/L	19	5.0	7245273
Palmitoleic acid	ug/L	<3.0	3.0	7245273
Stearic acid	ug/L	<15 (1)	15	7245273
Total Resin and Fatty Acids (RRPPM)	ug/L	120	15	7245273
Surrogate Recovery (%)				
o-Methylpodocarpic Acid (sur.)	%	75		7245273
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection limit raised due to matrix interference.				



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BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

TEST SUMMARY

BV Labs ID: OZM826
Sample ID: EQ LEACH
Matrix: Leachate

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7236295	2021/03/09	2021/03/09	Kathy Horvat
Alkalinity	AT	7230169	N/A	2021/03/05	Surinder Rai
Anions	IC	7232216	N/A	2021/03/05	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7231187	2021/03/05	2021/03/10	Nusrat Naz
Conductivity	AT	7230176	N/A	2021/03/05	Surinder Rai
Fluoride	ISE	7230167	2021/03/05	2021/03/05	Surinder Rai
Hardness (calculated as CaCO3)		7229500	N/A	2021/03/09	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7232530	2021/03/05	2021/03/08	Suban Kanapathipplai
Total Metals Analysis by ICPMS	ICP/MS	7234519	N/A	2021/03/08	Nan Raykha
Resin and Fatty Acids	GC/MS	7245273	2021/03/11	2021/03/12	Sylvain Chevigny
Neutral Chlorinated in Water by GC/ECD	GC/ECD	7231608	2021/03/05	2021/03/09	Mahmudul Khan
Total Ammonia-N	LACH/NH4	7231977	N/A	2021/03/08	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7231606	N/A	2021/03/05	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	7235389	2021/03/08	2021/03/09	Svitlana Shaula
pH	AT	7230177	2021/03/05	2021/03/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7234137	N/A	2021/03/08	Bramdeo Motiram
Orthophosphate	KONE	7233693	N/A	2021/03/08	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7231973	2021/03/05	2021/03/05	Rajni Tyagi
Tot./Min./ Animal & Veg. Oil and Grease	/BAL	7240412	2021/03/10	2021/03/10	Karamjeet Randhawa
Total Organic Carbon (TOC)	TOCV/NDIR	7231981	N/A	2021/03/05	Anna-Kay Gooden
Total Phosphorus (Colourimetric)	LACH/P	7234529	2021/03/08	2021/03/08	Shivani Shivani
Total Suspended Solids	BAL	7231477	2021/03/05	2021/03/06	Shaneil Hall
Volatile Organic Compounds in Water	P&T/MS	7229592	N/A	2021/03/05	Dina Wang
Non-Routine Volatile Organic Compounds	P&T/MS	7229594	N/A	2021/03/05	Dina Wang

BV Labs ID: OZM826 Dup
Sample ID: EQ LEACH
Matrix: Leachate

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7232216	N/A	2021/03/05	Fari Dehdezi
Neutral Chlorinated in Water by GC/ECD	GC/ECD	7231608	2021/03/05	2021/03/09	Mahmudul Khan



GENERAL COMMENTS

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

Package 1	2.3°C
Package 2	2.0°C

Sample OZM826 [EQ LEACH] : Sample required dilution due to matrix. Detection limits were adjusted accordingly.

RESIN AND FATTY ACIDS BY GC-MS (LEACHATE)

Un-rounded results are used in the totals "Total Resin and Fatty Acids (RRPPM)" calculation. These totals results are then rounded to two significant figures.

Please note that the total resin and fatty acids (RRPPM) does not include the palmitic acid and the palmitoleic acid.

Results relate only to the items tested.



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Report Date: 2021/03/12

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: EQ LEACH

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
7229592	4-Bromofluorobenzene	2021/03/05	101	70 - 130	102	70 - 130	98	%				
7229592	D4-1,2-Dichloroethane	2021/03/05	102	70 - 130	105	70 - 130	105	%				
7229592	D8-Toluene	2021/03/05	103	70 - 130	100	70 - 130	104	%				
7231608	1,3,5-Tribromobenzene	2021/03/09	78	30 - 130	86	30 - 130	84	%				
7231608	2,4,5,6-Tetrachloro-m-xylene	2021/03/09	79	30 - 130	78	30 - 130	76	%				
7231608	Decachlorobiphenyl	2021/03/09	88	30 - 130	86	30 - 130	86	%				
7231608	Hexabromobenzene	2021/03/09	110	30 - 130	108	30 - 130	107	%				
7235389	Decachlorobiphenyl	2021/03/09	132 (1)	60 - 130	102	60 - 130	147 (1)	%				
7236295	2,4,6-Tribromophenol	2021/03/09	86	10 - 130	79	10 - 130	68	%				
7236295	2-Fluorobiphenyl	2021/03/09	79	30 - 130	82	30 - 130	84	%				
7236295	2-Fluorophenol	2021/03/09	46	10 - 130	52	10 - 130	46	%				
7236295	D14-Terphenyl	2021/03/09	96	30 - 130	98	30 - 130	97	%				
7236295	D5-Nitrobenzene	2021/03/09	97	30 - 130	98	30 - 130	96	%				
7236295	D5-Phenol	2021/03/09	27	10 - 130	31	10 - 130	28	%				
7245273	o-Methylpodocarpic Acid (sur.)	2021/03/12			107	60 - 130	104	%				
7229592	1,1,1,2-Tetrachloroethane	2021/03/05	97	70 - 130	98	70 - 130	<0.20	ug/L				
7229592	1,1,1-Trichloroethane	2021/03/05	104	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7229592	1,1,2,2-Tetrachloroethane	2021/03/05	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229592	1,1,2-Trichloroethane	2021/03/05	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7229592	1,1-Dichloroethane	2021/03/05	96	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7229592	1,1-Dichloroethylene	2021/03/05	105	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7229592	1,2-Dichlorobenzene	2021/03/05	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229592	1,2-Dichloroethane	2021/03/05	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7229592	1,2-Dichloropropane	2021/03/05	97	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7229592	1,3-Dichlorobenzene	2021/03/05	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229592	1,4-Dichlorobenzene	2021/03/05	108	70 - 130	107	70 - 130	<0.20	ug/L	1.4	30		
7229592	Acetone (2-Propanone)	2021/03/05	94	60 - 140	87	60 - 140	<10	ug/L				
7229592	Benzene	2021/03/05	94	70 - 130	92	70 - 130	<0.10	ug/L	2.9	30		
7229592	Bromodichloromethane	2021/03/05	104	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7229592	Bromoform	2021/03/05	99	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7229592	Bromomethane	2021/03/05	92	60 - 140	106	60 - 140	<0.50	ug/L	NC	30		



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QUALITY ASSURANCE REPORT(CONT'D)

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7229592	Carbon Tetrachloride	2021/03/05	110	70 - 130	108	70 - 130	<0.10	ug/L	NC	30		
7229592	Chlorobenzene	2021/03/05	97	70 - 130	95	70 - 130	<0.10	ug/L	0.64	30		
7229592	Chloroform	2021/03/05	99	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7229592	Chloromethane	2021/03/05	96	60 - 140	93	60 - 140	<0.50	ug/L	NC	30		
7229592	cis-1,2-Dichloroethylene	2021/03/05	98	70 - 130	96	70 - 130	<0.10	ug/L	3.9	30		
7229592	cis-1,3-Dichloropropene	2021/03/05	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7229592	Dibromochloromethane	2021/03/05	101	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
7229592	Ethylbenzene	2021/03/05	92	70 - 130	89	70 - 130	<0.10	ug/L	1.9	30		
7229592	Ethylene Dibromide	2021/03/05	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229592	Methyl Ethyl Ketone (2-Butanone)	2021/03/05	94	60 - 140	97	60 - 140	<5.0	ug/L				
7229592	Methyl Isobutyl Ketone	2021/03/05	98	70 - 130	98	70 - 130	<5.0	ug/L				
7229592	Methyl t-butyl ether (MTBE)	2021/03/05	91	70 - 130	93	70 - 130	<0.20	ug/L				
7229592	Methylene Chloride(Dichloromethane)	2021/03/05	99	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
7229592	o-Xylene	2021/03/05	95	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7229592	p+m-Xylene	2021/03/05	100	70 - 130	95	70 - 130	<0.10	ug/L	0.50	30		
7229592	Styrene	2021/03/05	105	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7229592	Tetrachloroethylene	2021/03/05	96	70 - 130	90	70 - 130	<0.10	ug/L	NC	30		
7229592	Toluene	2021/03/05	97	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
7229592	Total Xylenes	2021/03/05					<0.10	ug/L				
7229592	trans-1,2-Dichloroethylene	2021/03/05	98	70 - 130	93	70 - 130	<0.10	ug/L	NC	30		
7229592	trans-1,3-Dichloropropene	2021/03/05	103	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7229592	Trichloroethylene	2021/03/05	104	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7229592	Trichlorofluoromethane (FREON 11)	2021/03/05	104	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7229592	Vinyl Chloride	2021/03/05	99	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229594	Acrolein	2021/03/05	93	60 - 140	106	60 - 140	<10	ug/L				
7229594	Acrylonitrile	2021/03/05	88	60 - 140	104	60 - 140	<5.0	ug/L				
7230167	Fluoride (F-)	2021/03/05	40 (1)	80 - 120	105	80 - 120	<0.10	mg/L	NC	20		
7230169	Alkalinity (Total as CaCO3)	2021/03/05			96	85 - 115	<1.0	mg/L	2.2	20		
7230176	Conductivity	2021/03/05			99	85 - 115	<1.0	umho/cm	0	25		
7230177	pH	2021/03/05			102	98 - 103			0.096	N/A		
7231187	Total BOD	2021/03/10					<2	mg/L	NC	30	97	80 - 120



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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
7231477	Total Suspended Solids	2021/03/06					<10	mg/L	NC	25	97	85 - 115
7231606	Nitrate (N)	2021/03/05	100	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
7231606	Nitrite (N)	2021/03/05	106	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
7231608	1,2,3,4-Tetrachlorobenzene	2021/03/09	76	50 - 130	83	50 - 130	<0.010	ug/L	NC	40		
7231608	1,2,3,5-Tetrachlorobenzene	2021/03/09	63	30 - 130	72	30 - 130	<0.010	ug/L	NC	40		
7231608	1,2,3-Trichlorobenzene	2021/03/09	77	50 - 130	82	50 - 130	<0.010	ug/L	NC	40		
7231608	1,2,4,5-Tetrachlorobenzene	2021/03/09	66	30 - 130	70	30 - 130	<0.010	ug/L	NC	40		
7231608	1,2,4-Trichlorobenzene	2021/03/09	73	50 - 130	74	50 - 130	<0.010	ug/L	NC	40		
7231608	2,4,5-Trichlorotoluene	2021/03/09	77	30 - 130	83	30 - 130	<0.010	ug/L	NC	40		
7231608	Hexachlorobenzene	2021/03/09	83	50 - 130	88	50 - 130	<0.0050	ug/L	NC	40		
7231608	Hexachlorobutadiene	2021/03/09	57	30 - 130	54	30 - 130	<0.0090	ug/L	NC	40		
7231608	Hexachlorocyclopentadiene	2021/03/09	67	30 - 130	58	30 - 130	<0.025	ug/L	NC	40		
7231608	Hexachloroethane	2021/03/09	67	30 - 130	65	30 - 130	<0.010	ug/L	NC	40		
7231608	Octachlorostyrene	2021/03/09	84	30 - 130	89	30 - 130	<0.0050	ug/L	NC	40		
7231608	Pentachlorobenzene	2021/03/09	95	50 - 130	103	50 - 130	<0.0050	ug/L	NC	40		
7231973	Total Kjeldahl Nitrogen (TKN)	2021/03/05	103	80 - 120	100	80 - 120	<0.10	mg/L	17	20	99	80 - 120
7231977	Total Ammonia-N	2021/03/08	86	75 - 125	100	80 - 120	<0.050	mg/L	0.32	20		
7231981	Total Organic Carbon (TOC)	2021/03/05	97	80 - 120	103	80 - 120	<0.40	mg/L	2.1	20		
7232216	Dissolved Bromide (Br-)	2021/03/05	NC	80 - 120	110	80 - 120	<1.0	mg/L	1.8	20		
7232216	Dissolved Chloride (Cl-)	2021/03/05	NC	80 - 120	99	70 - 130	<1.0	mg/L	2.2	20		
7232216	Dissolved Sulphate (SO4)	2021/03/05	94	80 - 120	100	80 - 120	<1.0	mg/L	1.1	20		
7232530	Dissolved Calcium (Ca)	2021/03/08	NC	80 - 120	100	80 - 120	<0.050	mg/L				
7232530	Dissolved Magnesium (Mg)	2021/03/08	NC	80 - 120	97	80 - 120	<0.050	mg/L				
7233693	Orthophosphate (P)	2021/03/08	111	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7234137	Phenols-4AAP	2021/03/08	103	80 - 120	105	80 - 120	<0.0010	mg/L	3.6	20		
7234519	Total Aluminum (Al)	2021/03/08	98	80 - 120	97	80 - 120	<0.0049	mg/L	9.8	20		
7234519	Total Barium (Ba)	2021/03/08	101	80 - 120	101	80 - 120	<0.0020	mg/L	2.5	20		
7234519	Total Beryllium (Be)	2021/03/08	106	80 - 120	107	80 - 120	<0.00040	mg/L	NC	20		
7234519	Total Boron (B)	2021/03/08	100	80 - 120	103	80 - 120	<0.010	mg/L	2.3	20		
7234519	Total Cadmium (Cd)	2021/03/08	104	80 - 120	102	80 - 120	<0.000090	mg/L	NC	20		
7234519	Total Calcium (Ca)	2021/03/08	NC	80 - 120	96	80 - 120	<0.20	mg/L	1.9	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
7234519	Total Chromium (Cr)	2021/03/08	98	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
7234519	Total Cobalt (Co)	2021/03/08	100	80 - 120	101	80 - 120	<0.00050	mg/L	0.011	20		
7234519	Total Copper (Cu)	2021/03/08	100	80 - 120	104	80 - 120	<0.00090	mg/L	5.2	20		
7234519	Total Iron (Fe)	2021/03/08	97	80 - 120	99	80 - 120	<0.10	mg/L	0.64	20		
7234519	Total Lead (Pb)	2021/03/08	99	80 - 120	96	80 - 120	<0.00050	mg/L	2.0	20		
7234519	Total Magnesium (Mg)	2021/03/08	94	80 - 120	99	80 - 120	<0.050	mg/L	0.56	20		
7234519	Total Manganese (Mn)	2021/03/08	98	80 - 120	100	80 - 120	<0.0020	mg/L	1.6	20		
7234519	Total Molybdenum (Mo)	2021/03/08	103	80 - 120	101	80 - 120	<0.00050	mg/L	0.18	20		
7234519	Total Nickel (Ni)	2021/03/08	96	80 - 120	99	80 - 120	<0.0010	mg/L	0.083	20		
7234519	Total Potassium (K)	2021/03/08	98	80 - 120	100	80 - 120	<0.20	mg/L	0.51	20		
7234519	Total Silicon (Si)	2021/03/08	98	80 - 120	97	80 - 120	<0.050	mg/L	0.059	20		
7234519	Total Sodium (Na)	2021/03/08	95	80 - 120	97	80 - 120	<0.10	mg/L	2.3	20		
7234519	Total Strontium (Sr)	2021/03/08	NC	80 - 120	99	80 - 120	<0.0010	mg/L	0.34	20		
7234519	Total Titanium (Ti)	2021/03/08	97	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
7234519	Total Vanadium (V)	2021/03/08	99	80 - 120	100	80 - 120	<0.00050	mg/L	2.6	20		
7234519	Total Zinc (Zn)	2021/03/08	102	80 - 120	104	80 - 120	<0.0050	mg/L	19	20		
7234529	Total Phosphorus	2021/03/08	105	80 - 120	102	80 - 120	<0.020	mg/L	1.3	20	101	80 - 120
7235389	Aroclor 1016	2021/03/09					<0.05	ug/L	NC	40		
7235389	Aroclor 1221	2021/03/09					<0.05	ug/L	NC	40		
7235389	Aroclor 1232	2021/03/09					<0.05	ug/L	NC	40		
7235389	Aroclor 1242	2021/03/09					<0.05	ug/L	NC	30		
7235389	Aroclor 1248	2021/03/09					<0.05	ug/L	NC	30		
7235389	Aroclor 1254	2021/03/09					<0.05	ug/L	NC	30		
7235389	Aroclor 1260	2021/03/09	112	60 - 130	77	60 - 130	<0.05	ug/L	NC	30		
7235389	Aroclor 1262	2021/03/09					<0.05	ug/L	NC	40		
7235389	Aroclor 1268	2021/03/09					<0.05	ug/L	NC	40		
7235389	Total PCB	2021/03/09	112	60 - 130	77	60 - 130	<0.05	ug/L	NC	40		
7236295	1-Chloronaphthalene	2021/03/09	70	30 - 130	70	30 - 130	<1.0	ug/L				
7236295	1-Methylnaphthalene	2021/03/09	87	30 - 130	87	30 - 130	<0.20	ug/L				
7236295	2,3,4,5-Tetrachlorophenol	2021/03/09	72	10 - 130	72	10 - 130	<0.40	ug/L				
7236295	2,3,4,6-Tetrachlorophenol	2021/03/09	108	10 - 130	114	10 - 130	<0.50	ug/L				



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH

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
7236295	2,3,4-Trichlorophenol	2021/03/09	88	10 - 130	87	10 - 130	<0.50	ug/L				
7236295	2,3,5,6-Tetrachlorophenol	2021/03/09	75	10 - 130	79	10 - 130	<0.50	ug/L				
7236295	2,3,5-Trichlorophenol	2021/03/09	106	10 - 130	101	10 - 130	<0.50	ug/L				
7236295	2,4,5-Trichlorophenol	2021/03/09	95	10 - 130	91	10 - 130	<0.50	ug/L				
7236295	2,4,6-Trichlorophenol	2021/03/09	82	10 - 130	79	10 - 130	<0.50	ug/L				
7236295	2,4-Dichlorophenol	2021/03/09	98	10 - 130	95	10 - 130	<0.30	ug/L				
7236295	2,4-Dimethylphenol	2021/03/09	49	10 - 130	53	10 - 130	<0.50	ug/L				
7236295	2,4-Dinitrophenol	2021/03/09	91	10 - 130	91	10 - 130	<2.0	ug/L				
7236295	2,4-Dinitrotoluene	2021/03/09	94	30 - 130	97	30 - 130	<0.50	ug/L				
7236295	2,6-Dichlorophenol	2021/03/09	84	10 - 130	82	10 - 130	<0.50	ug/L				
7236295	2,6-Dinitrotoluene	2021/03/09	90	30 - 130	87	30 - 130	<0.50	ug/L				
7236295	2-Chloronaphthalene	2021/03/09	86	30 - 130	92	30 - 130	<0.50	ug/L				
7236295	2-Chlorophenol	2021/03/09	82	10 - 130	84	10 - 130	<0.30	ug/L				
7236295	2-Methylnaphthalene	2021/03/09	82	30 - 130	82	30 - 130	<0.20	ug/L				
7236295	4,6-Dinitro-2-methylphenol	2021/03/09	97	10 - 130	93	10 - 130	<2.0	ug/L				
7236295	4-Bromophenyl phenyl ether	2021/03/09	89	30 - 130	87	30 - 130	<0.30	ug/L				
7236295	4-Chloro-3-Methylphenol	2021/03/09	93	10 - 130	89	10 - 130	<0.50	ug/L				
7236295	4-Chlorophenyl phenyl ether	2021/03/09	83	30 - 130	82	30 - 130	<0.50	ug/L				
7236295	4-Nitrophenol	2021/03/09	31	10 - 130	38	10 - 130	<1.4	ug/L				
7236295	5-Nitroacenaphthene	2021/03/09	95	30 - 130	93	30 - 130	<1.0	ug/L				
7236295	Acenaphthene	2021/03/09	88	30 - 130	88	30 - 130	<0.20	ug/L				
7236295	Acenaphthylene	2021/03/09	87	30 - 130	86	30 - 130	<0.20	ug/L				
7236295	Anthracene	2021/03/09	88	30 - 130	86	30 - 130	<0.20	ug/L				
7236295	Benzo(a)anthracene	2021/03/09	102	30 - 130	102	30 - 130	<0.20	ug/L				
7236295	Benzo(a)pyrene	2021/03/09	86	30 - 130	101	30 - 130	<0.20	ug/L				
7236295	Benzo(b,j)fluoranthene	2021/03/09	101	30 - 130	100	30 - 130	<0.20	ug/L				
7236295	Benzo(g,h,i)perylene	2021/03/09	78	30 - 130	81	30 - 130	<0.20	ug/L				
7236295	Benzo(k)fluoranthene	2021/03/09	104	30 - 130	110	30 - 130	<0.20	ug/L				
7236295	Benzyl butyl phthalate	2021/03/09	101	30 - 130	102	30 - 130	<0.50	ug/L				
7236295	Biphenyl	2021/03/09	85	30 - 130	85	30 - 130	<0.50	ug/L				
7236295	Bis(2-chloroethoxy)methane	2021/03/09	82	30 - 130	81	30 - 130	<0.50	ug/L				



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BV Labs Job #: C158424

Report Date: 2021/03/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH

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
7236295	Bis(2-chloroethyl)ether	2021/03/09	86	30 - 130	86	30 - 130	<0.50	ug/L				
7236295	Bis(2-chloroisopropyl)ether	2021/03/09	75	30 - 130	78	30 - 130	<0.50	ug/L				
7236295	Bis(2-ethylhexyl)phthalate	2021/03/10	99	30 - 130	98	30 - 130	<2.0	ug/L	NC	40		
7236295	Camphene	2021/03/09	60	30 - 130	56	30 - 130	<1.0	ug/L				
7236295	Chrysene	2021/03/09	95	30 - 130	101	30 - 130	<0.20	ug/L				
7236295	Dibenzo(a,h)anthracene	2021/03/09	86	30 - 130	86	30 - 130	<0.20	ug/L				
7236295	Di-N-butyl phthalate	2021/03/10	103	30 - 130	102	30 - 130	<2.0	ug/L	NC	40		
7236295	di-n-octyl phthalate	2021/03/09	105	30 - 130	102	30 - 130	<0.80	ug/L				
7236295	Diphenyl Ether	2021/03/09	84	30 - 130	82	30 - 130	<0.30	ug/L				
7236295	Fluoranthene	2021/03/09	101	30 - 130	100	30 - 130	<0.20	ug/L				
7236295	Fluorene	2021/03/09	93	30 - 130	92	30 - 130	<0.20	ug/L				
7236295	Indeno(1,2,3-cd)pyrene	2021/03/09	80	30 - 130	83	30 - 130	<0.20	ug/L				
7236295	Indole	2021/03/09	60	30 - 130	59	30 - 130	<1.0	ug/L				
7236295	m/p-Cresol	2021/03/09	51	10 - 130	62	10 - 130	<0.50	ug/L				
7236295	Naphthalene	2021/03/09	84	30 - 130	82	30 - 130	<0.20	ug/L				
7236295	Nitrosodiphenylamine/Diphenylamine	2021/03/09	117	30 - 130	114	30 - 130	<1.0	ug/L				
7236295	N-Nitroso-di-n-propylamine	2021/03/09	99	30 - 130	98	30 - 130	<0.50	ug/L				
7236295	o-Cresol	2021/03/09	66	10 - 130	71	10 - 130	<0.50	ug/L				
7236295	Pentachlorophenol	2021/03/09	63	10 - 130	74	10 - 130	<1.0	ug/L				
7236295	Perylene	2021/03/09	103	30 - 130	101	30 - 130	<0.20	ug/L				
7236295	Phenanthrene	2021/03/09	93	30 - 130	89	30 - 130	<0.20	ug/L				
7236295	Phenol	2021/03/09	28	10 - 130	31	10 - 130	<0.50	ug/L				
7236295	Pyrene	2021/03/09	101	30 - 130	102	30 - 130	<0.20	ug/L				
7240412	Animal/Vegetable Oil and Grease	2021/03/10			102	75 - 125	<1	mg/L	1.5	25		
7240412	Mineral Oil and Grease	2021/03/10			96	75 - 125	<1	mg/L	1.8	25		
7240412	Oil & Grease	2021/03/10			99	85 - 115	<1	mg/L	0.28	25		
7245273	12,14-Dichlorodehydroabiatic acid	2021/03/12			92	60 - 130	<3.0	ug/L				
7245273	12-Chlorodehydroabiatic acid	2021/03/12			120	60 - 130	<3.0	ug/L				
7245273	14-Chlorodehydroabiatic acid	2021/03/12			122	60 - 130	<3.0	ug/L				
7245273	9,10-Dichlorostearic acid	2021/03/12			98	60 - 130	<3.0	ug/L				
7245273	Abiatic acid	2021/03/12			140 (1)	60 - 130	<5.0	ug/L				



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VERITAS

BV Labs Job #: C158424

Report Date: 2021/03/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: EQ LEACH

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
7245273	Dehydroabietic acid	2021/03/12			126	60 - 130	<5.0	ug/L				
7245273	Isopimaric acid	2021/03/12			79	60 - 130	<3.0	ug/L				
7245273	Levopimaric acid	2021/03/12			73	60 - 130	<3.0	ug/L				
7245273	Linoleic acid (C18:2)	2021/03/12			83	60 - 130	<3.0	ug/L				
7245273	Linolenic acid (C18:3)	2021/03/12			92	60 - 130	<3.0	ug/L				
7245273	Neoabietic acid	2021/03/12			89	60 - 130	<3.0	ug/L				
7245273	Oleic acid (C18:1)	2021/03/12			101	60 - 130	<3.0	ug/L				
7245273	Palmitic acid	2021/03/12			122	60 - 130	16, RDL=5.0	ug/L				
7245273	Palmitoleic acid	2021/03/12			107	60 - 130	<3.0	ug/L				
7245273	Palustric acid	2021/03/12			99	60 - 130	<3.0	ug/L				
7245273	Pimaric acid	2021/03/12			123	60 - 130	<3.0	ug/L				
7245273	Sandaracopimaric acid	2021/03/12			112	60 - 130	<3.0	ug/L				
7245273	Stearic acid	2021/03/12			118	60 - 130	15, RDL=5.0	ug/L				
7245273	Total Resin and Fatty Acids (RRPPM)	2021/03/12					15, RDL=5.0	ug/L				

N/A = Not Applicable

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

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

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

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

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

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

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

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

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



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BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

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



Sylvain Chevigny, B.Sc., Chemist, Scientific Service Specialist



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

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Your Project #: SW
 Your C.O.C. #: 815510-01-01, 815510-02-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/03/29
 Report #: R6574250
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C176697

Received: 2021/03/23, 16:05

Sample Matrix: Water
 # Samples Received: 17

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	6	2021/03/25	2021/03/25	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by GC/MS	1	2021/03/25	2021/03/26	CAM SOP-00301	EPA 8270 m
Dissolved Aluminum (0.2 u, clay free)	14	N/A	2021/03/25	CAM SOP-00447	EPA 6020B m
Alkalinity	8	N/A	2021/03/24	CAM SOP-00448	SM 23 2320 B m
Alkalinity	9	N/A	2021/03/25	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	14	2021/03/24	2021/03/29	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	17	N/A	2021/03/25	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	3	N/A	2021/03/24	CAM SOP-00414	SM 23 2510 m
Dissolved Organic Carbon (DOC) (1)	14	N/A	2021/03/25	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	14	N/A	2021/03/26	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	14	2021/03/25	2021/03/25	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	17	N/A	2021/03/29	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	17	N/A	2021/03/25	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	14	N/A	2021/03/25	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (3)	7	2021/03/27	2021/03/28	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	7	N/A	2021/03/25	CAM SOP-00307	EPA 8081A/8082B m
pH	8	2021/03/24	2021/03/24	CAM SOP-00413	SM 4500H+ B m
pH	9	2021/03/24	2021/03/25	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	13	N/A	2021/03/24	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	4	N/A	2021/03/25	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	14	N/A	2021/03/25	CAM SOP-00464	EPA 375.4 m
Total Phosphorus (Colourimetric)	14	2021/03/24	2021/03/24	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	17	2021/03/25	2021/03/26	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	7	N/A	2021/03/25	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	7	N/A	2021/03/26	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



Your Project #: SW
Your C.O.C. #: 815510-01-01, 815510-02-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/03/29
Report #: R6574250
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C176697

Received: 2021/03/23, 16:05

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
29 Mar 2021 18:53:02

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 #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PDK537			PDK538			PDK538		
Sampling Date		2021/03/22			2021/03/22			2021/03/22		
COC Number		815510-01-01			815510-01-01			815510-01-01		
	UNITS	T-1R	RDL	QC Batch	T-3R	RDL	QC Batch	T-3R Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	780	1.0	7261733	450	1.0	7261733			
Inorganics										
Total Ammonia-N	mg/L	35	0.25	7264367	0.67	0.050	7264367			
Total BOD	mg/L	9	2	7264380	<2	2	7264380			
Dissolved Organic Carbon	mg/L	12	0.40	7264098	4.9	0.40	7264098			
pH	pH	7.96		7263981	11.2		7264055			
Phenols-4AAP	mg/L	0.062	0.0050	7264400	0.0014	0.0010	7264400			
Total Phosphorus	mg/L	0.035	0.004	7264065	0.041	0.004	7264065			
Total Suspended Solids	mg/L	11	10	7263918	37	10	7263918			
Dissolved Sulphate (SO4)	mg/L	600	5.0	7264026	370	2.0	7264026			
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7263968	120	1.0	7264051			
Dissolved Chloride (Cl-)	mg/L	740	10	7264023	130	1.0	7264023			
Nitrite (N)	mg/L	0.016	0.010	7264077	1.02	0.010	7264950	1.01	0.010	7264950
Nitrate (N)	mg/L	0.12	0.10	7264077	4.84	0.10	7264950	5.66	0.10	7264950
Nitrate + Nitrite (N)	mg/L	0.13	0.10	7264077	5.86	0.10	7264950	6.67	0.10	7264950

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



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PKD539			PKD540		PKD541		
Sampling Date		2021/03/22			2021/03/22		2021/03/22		
COC Number		815510-01-01			815510-01-01		815510-01-01		
	UNITS	T-3A	RDL	QC Batch	T-12	QC Batch	T-13	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	1200	1.0	7261733	530	7261733	510	1.0	7261733
Inorganics									
Total Ammonia-N	mg/L	4.4	0.050	7264367	<0.050	7264367	<0.050	0.050	7264367
Total BOD	mg/L	<2	2	7264380	<2	7264380	<2	2	7264380
Dissolved Organic Carbon	mg/L	3.9	0.40	7264098	2.3	7264098	2.4	0.40	7264098
pH	pH	8.06		7263981	8.50	7264055	8.40		7263981
Phenols-4AAP	mg/L	<0.0010	0.0010	7264400	<0.0010	7264400	<0.0010	0.0010	7264400
Total Phosphorus	mg/L	0.030	0.004	7264065	0.043	7264065	0.036	0.004	7264065
Total Suspended Solids	mg/L	11	10	7263921	<10	7263921	<10	10	7263918
Dissolved Sulphate (SO4)	mg/L	850	5.0	7264026	260	7264026	250	1.0	7264026
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7263968	210	7264051	200	1.0	7263968
Dissolved Chloride (Cl-)	mg/L	440	5.0	7264023	290	7264023	350	4.0	7264023
Nitrite (N)	mg/L	0.052	0.010	7264077	<0.010	7264077	<0.010	0.010	7264077
Nitrate (N)	mg/L	0.49	0.10	7264077	0.78	7264077	0.90	0.10	7264077
Nitrate + Nitrite (N)	mg/L	0.54	0.10	7264077	0.78	7264077	0.90	0.10	7264077
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PDK541			PDK542			PDK542		
Sampling Date		2021/03/22			2021/03/22			2021/03/22		
COC Number		815510-01-01			815510-01-01			815510-01-01		
	UNITS	T-13 Lab-Dup	RDL	QC Batch	T-15R	RDL	QC Batch	T-15R Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L				620	1.0	7261733			
Inorganics										
Total Ammonia-N	mg/L				<0.050	0.050	7264367			
Total BOD	mg/L				<2	2	7264380			
Dissolved Organic Carbon	mg/L	2.4	0.40	7264098	2.0	0.40	7264098			
pH	pH				8.05		7264055			
Phenols-4AAP	mg/L				<0.0010	0.0010	7264400			
Total Phosphorus	mg/L				0.008	0.004	7264065			
Total Suspended Solids	mg/L				<10	10	7263921	<10	10	7263921
Dissolved Sulphate (SO ₄)	mg/L				310	2.0	7264026			
Alkalinity (Total as CaCO ₃)	mg/L				220	1.0	7264051			
Dissolved Chloride (Cl ⁻)	mg/L				220	2.0	7264023			
Nitrite (N)	mg/L				<0.010	0.010	7264077			
Nitrate (N)	mg/L				0.68	0.10	7264077			
Nitrate + Nitrite (N)	mg/L				0.68	0.10	7264077			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PDK543			PDK544		PDK545		
Sampling Date		2021/03/22			2021/03/22		2021/03/22		
COC Number		815510-01-01			815510-01-01		815510-01-01		
	UNITS	T-16	RDL	QC Batch	T-21	RDL	T-23	RDL	QC Batch

Calculated Parameters									
Hardness (CaCO ₃)	mg/L	500	1.0	7261733					
Inorganics									
Total Ammonia-N	mg/L	<0.050	0.050	7264367	<0.050	0.050	0.18	0.050	7264329
Total BOD	mg/L	<2	2	7264380					
Conductivity	umho/cm				1700	1.0	1500	1.0	7263966
Dissolved Organic Carbon	mg/L	2.6	0.40	7264098					
pH	pH	8.27		7263981	8.26		8.28		7263961
Phenols-4AAP	mg/L	<0.0010	0.0010	7264400	<0.0010	0.0010	<0.0010	0.0010	7264400
Total Phosphorus	mg/L	0.024	0.004	7264065					
Total Suspended Solids	mg/L	<10	10	7263921	19	10	<10	10	7263921
Dissolved Sulphate (SO ₄)	mg/L	250	1.0	7264026					
Alkalinity (Total as CaCO ₃)	mg/L	200	1.0	7263968	210	1.0	210	1.0	7263957
Dissolved Chloride (Cl ⁻)	mg/L	320	4.0	7264023	260	4.0	190	2.0	7264023
Nitrite (N)	mg/L	0.011	0.010	7264077					
Nitrate (N)	mg/L	0.83	0.10	7264077					
Nitrate + Nitrite (N)	mg/L	0.84	0.10	7264077					
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PDK546			PDK546			PDK568		
Sampling Date		2021/03/22			2021/03/22			2021/03/22		
COC Number		815510-01-01			815510-01-01			815510-02-01		
	UNITS	T-28	RDL	QC Batch	T-28 Lab-Dup	RDL	QC Batch	T-29	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L							540	1.0	7261733
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7264329	<0.050	0.050	7264329	<0.050	0.050	7264367
Total BOD	mg/L							<2	2	7264380
Conductivity	umho/cm	1900	1.0	7263966						
Dissolved Organic Carbon	mg/L							2.4	0.40	7264098
pH	pH	8.24		7263961				8.54		7263981
Phenols-4AAP	mg/L	<0.0010	0.0010	7264400				<0.0010	0.0010	7264400
Total Phosphorus	mg/L							0.038	0.004	7264065
Total Suspended Solids	mg/L	<10	10	7263921				<10	10	7263918
Dissolved Sulphate (SO4)	mg/L							260	1.0	7264026
Alkalinity (Total as CaCO3)	mg/L	200	1.0	7263957				210	1.0	7263968
Dissolved Chloride (Cl-)	mg/L	340	4.0	7264023				280	4.0	7264023
Nitrite (N)	mg/L							<0.010	0.010	7264077
Nitrate (N)	mg/L							0.74	0.10	7264077
Nitrate + Nitrite (N)	mg/L							0.74	0.10	7264077

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



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PDK569			PDK570			PDK571		
Sampling Date		2021/03/22			2021/03/22			2021/03/22		
COC Number		815510-02-01			815510-02-01			815510-02-01		
	UNITS	T-30	RDL	QC Batch	T-31	QC Batch	T-32	RDL	QC Batch	
Calculated Parameters										
Hardness (CaCO3)	mg/L	540	1.0	7261733	550	7261733	560	1.0	7261733	
Inorganics										
Total Ammonia-N	mg/L	0.053	0.050	7264367	0.060	7264367	<0.050	0.050	7264367	
Total BOD	mg/L	<2	2	7264380	<2	7264380	<2	2	7264380	
Dissolved Organic Carbon	mg/L	2.4	0.40	7264098	2.6	7264098	2.5	0.40	7264098	
pH	pH	8.54		7264055	8.48	7263981	8.26		7263981	
Phenols-4AAP	mg/L	<0.0010	0.0010	7264400	<0.0010	7264400	<0.0010	0.0010	7264400	
Total Phosphorus	mg/L	0.044	0.004	7264065	0.035	7264065	0.040	0.004	7264065	
Total Suspended Solids	mg/L	<10	10	7263921	<10	7263921	<10	10	7263918	
Dissolved Sulphate (SO4)	mg/L	260	1.0	7264026	290	7264026	270	1.0	7264026	
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7264051	200	7263968	220	1.0	7263968	
Dissolved Chloride (Cl-)	mg/L	300	4.0	7264023	340	7264023	340	5.0	7264023	
Nitrite (N)	mg/L	<0.010	0.010	7264077	0.012	7264077	0.013	0.010	7264077	
Nitrate (N)	mg/L	0.71	0.10	7264077	0.81	7264077	0.89	0.10	7264077	
Nitrate + Nitrite (N)	mg/L	0.71	0.10	7264077	0.82	7264077	0.90	0.10	7264077	
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PDK571			PDK572			PDK573		
Sampling Date		2021/03/22			2021/03/22			2021/03/22		
COC Number		815510-02-01			815510-02-01			815510-02-01		
	UNITS	T-32 Lab-Dup	RDL	QC Batch	T-35	RDL	QC Batch	TS-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				890	1.0	7261733	220	1.0	7261733
Inorganics										
Total Ammonia-N	mg/L				<0.050	0.050	7264367	<0.050	0.050	7264367
Total BOD	mg/L				<2	2	7264380	5	2	7264380
Dissolved Organic Carbon	mg/L				3.1	0.40	7264098	6.5	0.40	7264098
pH	pH				8.23		7263981	8.17		7263961
Phenols-4AAP	mg/L				<0.0010	0.0010	7264400	<0.0010	0.0010	7264400
Total Phosphorus	mg/L				0.013	0.004	7264065	0.085	0.004	7264065
Total Suspended Solids	mg/L	<10	10	7263918	<10	10	7263921	12	10	7263918
Dissolved Sulphate (SO4)	mg/L				600	5.0	7264026	110	1.0	7264026
Alkalinity (Total as CaCO3)	mg/L				180	1.0	7263968	140	1.0	7263957
Dissolved Chloride (Cl-)	mg/L				320	4.0	7264023	29	1.0	7264023
Nitrite (N)	mg/L				<0.010	0.010	7264077	<0.010	0.010	7264077
Nitrate (N)	mg/L				0.44	0.10	7264077	<0.10	0.10	7264077
Nitrate + Nitrite (N)	mg/L				0.44	0.10	7264077	<0.10	0.10	7264077
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PDK574			PDK574		
Sampling Date		2021/03/22			2021/03/22		
COC Number		815510-02-01			815510-02-01		
	UNITS	NORTH SUMP	RDL	QC Batch	NORTH SUMP Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	900	1.0	7261733			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	7264367			
Total BOD	mg/L	<2	2	7264380			
Dissolved Organic Carbon	mg/L	3.1	0.40	7264098			
pH	pH	8.24		7263981			
Phenols-4AAP	mg/L	<0.0010	0.0010	7264400	<0.0010	0.0010	7264400
Total Phosphorus	mg/L	0.014	0.004	7264065			
Total Suspended Solids	mg/L	12	10	7263918			
Dissolved Sulphate (SO4)	mg/L	570	5.0	7264026			
Alkalinity (Total as CaCO3)	mg/L	180	1.0	7263968			
Dissolved Chloride (Cl-)	mg/L	330	4.0	7264023			
Nitrite (N)	mg/L	<0.010	0.010	7264077			
Nitrate (N)	mg/L	0.43	0.10	7264077			
Nitrate + Nitrite (N)	mg/L	0.43	0.10	7264077			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PDK537		PDK538	PDK539		PDK540		
Sampling Date		2021/03/22		2021/03/22	2021/03/22		2021/03/22		
COC Number		815510-01-01		815510-01-01	815510-01-01		815510-01-01		
	UNITS	T-1R	QC Batch	T-3R	T-3A	QC Batch	T-12	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	7264917	140	<5	7264917	6	5	7264917
Mercury (Hg)	mg/L	<0.00010	7265985	<0.00010	<0.00010	7266051	<0.00010	0.00010	7265985
Total Aluminum (Al)	mg/L	0.026	7268117	0.52	0.13	7268117	0.039	0.0049	7268117
Total Arsenic (As)	mg/L	0.0024	7268117	<0.0010	<0.0010	7268117	<0.0010	0.0010	7268117
Total Beryllium (Be)	mg/L	<0.00040	7268117	<0.00040	<0.00040	7268117	<0.00040	0.00040	7268117
Total Boron (B)	mg/L	0.42	7268117	0.016	0.51	7268117	0.065	0.010	7268117
Total Cadmium (Cd)	mg/L	<0.000090	7268117	<0.000090	<0.000090	7268117	0.00017	0.000090	7268117
Total Calcium (Ca)	mg/L	230	7268117	180	320	7268117	120	0.20	7268117
Total Chromium (Cr)	mg/L	<0.0050	7268117	0.0067	<0.0050	7268117	<0.0050	0.0050	7268117
Total Cobalt (Co)	mg/L	<0.00050	7268117	0.0010	0.00059	7268117	<0.00050	0.00050	7268117
Total Copper (Cu)	mg/L	<0.00090	7268117	0.012	0.0030	7268117	0.0019	0.00090	7268117
Total Iron (Fe)	mg/L	1.1	7268117	0.64	0.66	7268117	<0.10	0.10	7268117
Total Lead (Pb)	mg/L	0.00088	7268117	0.0019	0.0086	7268117	<0.00050	0.00050	7268117
Total Magnesium (Mg)	mg/L	41	7268117	0.66	76	7268117	52	0.050	7268117
Total Manganese (Mn)	mg/L	0.17	7268117	0.020	0.21	7268117	0.0094	0.0020	7268117
Total Molybdenum (Mo)	mg/L	0.020	7268117	0.0089	0.0038	7268117	0.0040	0.00050	7268117
Total Nickel (Ni)	mg/L	0.0053	7268117	0.0054	0.0043	7268117	0.0028	0.0010	7268117
Total Selenium (Se)	mg/L	<0.0020	7268117	<0.0020	<0.0020	7268117	<0.0020	0.0020	7268117
Total Silver (Ag)	mg/L	<0.000090	7268117	<0.000090	<0.000090	7268117	<0.000090	0.000090	7268117
Total Sodium (Na)	mg/L	580	7268117	160	290	7268117	170	0.10	7268117
Total Strontium (Sr)	mg/L	3.4	7268117	3.2	3.5	7268117	2.6	0.0010	7268117
Total Vanadium (V)	mg/L	0.0012	7268117	0.0053	0.00097	7268117	<0.00050	0.00050	7268117
Total Zinc (Zn)	mg/L	0.011	7268117	0.070	0.057	7268117	0.11	0.0050	7268117

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PDK541		PDK542			PDK542		
Sampling Date		2021/03/22		2021/03/22			2021/03/22		
COC Number		815510-01-01		815510-01-01			815510-01-01		
	UNITS	T-13	QC Batch	T-15R	RDL	QC Batch	T-15R Lab-Dup	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	7	7264917	<5	5	7264917			
Mercury (Hg)	mg/L	<0.00010	7265985	<0.00010	0.00010	7266051			
Total Aluminum (Al)	mg/L	0.024	7268117	0.0095	0.0049	7268117	0.0089	0.0049	7268117
Total Arsenic (As)	mg/L	<0.0010	7268117	<0.0010	0.0010	7268117	<0.0010	0.0010	7268117
Total Beryllium (Be)	mg/L	<0.00040	7268117	<0.00040	0.00040	7268117	<0.00040	0.00040	7268117
Total Boron (B)	mg/L	0.096	7268117	0.092	0.010	7268117	0.087	0.010	7268117
Total Cadmium (Cd)	mg/L	<0.000090	7268117	0.00015	0.000090	7268117	0.00015	0.000090	7268117
Total Calcium (Ca)	mg/L	130	7268117	170	0.20	7268117	160	0.20	7268117
Total Chromium (Cr)	mg/L	<0.0050	7268117	<0.0050	0.0050	7268117	<0.0050	0.0050	7268117
Total Cobalt (Co)	mg/L	<0.00050	7268117	<0.00050	0.00050	7268117	<0.00050	0.00050	7268117
Total Copper (Cu)	mg/L	0.0021	7268117	<0.00090	0.00090	7268117	<0.00090	0.00090	7268117
Total Iron (Fe)	mg/L	<0.10	7268117	<0.10	0.10	7268117	<0.10	0.10	7268117
Total Lead (Pb)	mg/L	<0.00050	7268117	<0.00050	0.00050	7268117	<0.00050	0.00050	7268117
Total Magnesium (Mg)	mg/L	47	7268117	43	0.050	7268117	44	0.050	7268117
Total Manganese (Mn)	mg/L	<0.0020	7268117	0.012	0.0020	7268117	0.012	0.0020	7268117
Total Molybdenum (Mo)	mg/L	0.0032	7268117	0.0013	0.00050	7268117	0.0012	0.00050	7268117
Total Nickel (Ni)	mg/L	0.0018	7268117	0.0024	0.0010	7268117	0.0023	0.0010	7268117
Total Selenium (Se)	mg/L	<0.0020	7268117	<0.0020	0.0020	7268117	<0.0020	0.0020	7268117
Total Silver (Ag)	mg/L	<0.000090	7268117	<0.000090	0.000090	7268117	<0.000090	0.000090	7268117
Total Sodium (Na)	mg/L	210	7268117	130	0.10	7268117	130	0.10	7268117
Total Strontium (Sr)	mg/L	2.4	7268117	3.7	0.0010	7268117	3.6	0.0010	7268117
Total Vanadium (V)	mg/L	0.00050	7268117	<0.00050	0.00050	7268117	<0.00050	0.00050	7268117
Total Zinc (Zn)	mg/L	0.053	7268117	0.090	0.0050	7268117	0.089	0.0050	7268117

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



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PDK543			PDK544	PDK545	PDK546		
Sampling Date		2021/03/22			2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01			815510-01-01	815510-01-01	815510-01-01		
	UNITS	T-16	RDL	QC Batch	T-21	T-23	T-28	RDL	QC Batch

Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	6	5	7264917					
Mercury (Hg)	mg/L	<0.00010	0.00010	7265985					
Total Aluminum (Al)	mg/L	0.027	0.0049	7268117					
Total Arsenic (As)	mg/L	<0.0010	0.0010	7268117					
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7268117					
Total Boron (B)	mg/L	0.098	0.010	7268117	0.088	0.085	0.098	0.010	7268117
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7268117					
Total Calcium (Ca)	mg/L	130	0.20	7268117					
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7268117	<0.0050	<0.0050	<0.0050	0.0050	7268117
Total Cobalt (Co)	mg/L	<0.00050	0.00050	7268117					
Total Copper (Cu)	mg/L	0.0019	0.00090	7268117					
Total Iron (Fe)	mg/L	<0.10	0.10	7268117					
Total Lead (Pb)	mg/L	<0.00050	0.00050	7268117					
Total Magnesium (Mg)	mg/L	45	0.050	7268117					
Total Manganese (Mn)	mg/L	0.041	0.0020	7268117					
Total Molybdenum (Mo)	mg/L	0.0025	0.00050	7268117					
Total Nickel (Ni)	mg/L	0.0016	0.0010	7268117	0.0016	0.0011	0.0017	0.0010	7268117
Total Selenium (Se)	mg/L	<0.0020	0.0020	7268117					
Total Silver (Ag)	mg/L	<0.000090	0.000090	7268117					
Total Sodium (Na)	mg/L	190	0.10	7268117					
Total Strontium (Sr)	mg/L	2.1	0.0010	7268117					
Total Vanadium (V)	mg/L	<0.00050	0.00050	7268117					
Total Zinc (Zn)	mg/L	0.034	0.0050	7268117					

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PDK568		PDK569	PDK570	PDK571		
Sampling Date		2021/03/22		2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-02-01		815510-02-01	815510-02-01	815510-02-01		
	UNITS	T-29	QC Batch	T-30	T-31	T-32	RDL	QC Batch
Metals								
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	7264917	<5	<5	<5	5	7264917
Mercury (Hg)	mg/L	<0.00010	7266051	<0.00010	<0.00010	<0.00010	0.00010	7265985
Total Aluminum (Al)	mg/L	0.029	7268117	0.050	0.023	0.078	0.0049	7268117
Total Arsenic (As)	mg/L	<0.0010	7268117	<0.0010	<0.0010	<0.0010	0.0010	7268117
Total Beryllium (Be)	mg/L	<0.00040	7268117	<0.00040	<0.00040	<0.00040	0.00040	7268117
Total Boron (B)	mg/L	0.064	7268117	0.070	0.079	0.084	0.010	7268117
Total Cadmium (Cd)	mg/L	0.00016	7268117	0.00019	0.00014	0.00013	0.000090	7268117
Total Calcium (Ca)	mg/L	130	7268117	130	130	140	0.20	7268117
Total Chromium (Cr)	mg/L	<0.0050	7268117	<0.0050	<0.0050	<0.0050	0.0050	7268117
Total Cobalt (Co)	mg/L	<0.00050	7268117	<0.00050	<0.00050	<0.00050	0.00050	7268117
Total Copper (Cu)	mg/L	0.0016	7268117	0.0019	0.0018	0.0020	0.00090	7268117
Total Iron (Fe)	mg/L	<0.10	7268117	<0.10	<0.10	0.13	0.10	7268117
Total Lead (Pb)	mg/L	<0.00050	7268117	<0.00050	<0.00050	<0.00050	0.00050	7268117
Total Magnesium (Mg)	mg/L	51	7268117	51	53	50	0.050	7268117
Total Manganese (Mn)	mg/L	0.0092	7268117	0.013	0.012	0.016	0.0020	7268117
Total Molybdenum (Mo)	mg/L	0.0037	7268117	0.0040	0.0040	0.0036	0.00050	7268117
Total Nickel (Ni)	mg/L	0.0028	7268117	0.0031	0.0033	0.0033	0.0010	7268117
Total Selenium (Se)	mg/L	<0.0020	7268117	<0.0020	<0.0020	<0.0020	0.0020	7268117
Total Silver (Ag)	mg/L	<0.000090	7268117	<0.000090	<0.000090	<0.000090	0.000090	7268117
Total Sodium (Na)	mg/L	170	7268117	180	210	210	0.10	7268117
Total Strontium (Sr)	mg/L	2.5	7268117	2.6	2.5	2.4	0.0010	7268117
Total Vanadium (V)	mg/L	<0.00050	7268117	0.00053	<0.00050	0.00051	0.00050	7268117
Total Zinc (Zn)	mg/L	0.11	7268117	0.12	0.12	0.13	0.0050	7268117
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PDK571			PDK572		PDK573		
Sampling Date		2021/03/22			2021/03/22		2021/03/22		
COC Number		815510-02-01			815510-02-01		815510-02-01		
	UNITS	T-32 Lab-Dup	RDL	QC Batch	T-35	QC Batch	TS-1	RDL	QC Batch
Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	5	5	7264917	10	7264917	<5	5	7264917
Mercury (Hg)	mg/L				<0.00010	7266051	<0.00010	0.00010	7265985
Total Aluminum (Al)	mg/L				0.040	7268117	0.20	0.0049	7268117
Total Arsenic (As)	mg/L				<0.0010	7268117	<0.0010	0.0010	7268117
Total Beryllium (Be)	mg/L				<0.00040	7268117	<0.00040	0.00040	7268117
Total Boron (B)	mg/L				0.36	7268117	0.11	0.010	7268117
Total Cadmium (Cd)	mg/L				<0.000090	7268117	<0.000090	0.000090	7268117
Total Calcium (Ca)	mg/L				230	7268117	58	0.20	7268117
Total Chromium (Cr)	mg/L				<0.0050	7268117	<0.0050	0.0050	7268117
Total Cobalt (Co)	mg/L				<0.00050	7268117	<0.00050	0.00050	7268117
Total Copper (Cu)	mg/L				0.0029	7268117	0.0030	0.00090	7268117
Total Iron (Fe)	mg/L				0.12	7268117	0.36	0.10	7268117
Total Lead (Pb)	mg/L				0.0030	7268117	0.00070	0.00050	7268117
Total Magnesium (Mg)	mg/L				72	7268117	18	0.050	7268117
Total Manganese (Mn)	mg/L				0.022	7268117	0.059	0.0020	7268117
Total Molybdenum (Mo)	mg/L				0.0043	7268117	0.0056	0.00050	7268117
Total Nickel (Ni)	mg/L				0.0040	7268117	0.0031	0.0010	7268117
Total Selenium (Se)	mg/L				<0.0020	7268117	<0.0020	0.0020	7268117
Total Silver (Ag)	mg/L				<0.000090	7268117	<0.000090	0.000090	7268117
Total Sodium (Na)	mg/L				200	7268117	26	0.10	7268117
Total Strontium (Sr)	mg/L				2.8	7268117	0.41	0.0010	7268117
Total Vanadium (V)	mg/L				0.00075	7268117	0.00077	0.00050	7268117
Total Zinc (Zn)	mg/L				0.025	7268117	0.0056	0.0050	7268117
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PDK574		
Sampling Date		2021/03/22		
COC Number		815510-02-01		
	UNITS	NORTH SUMP	RDL	QC Batch
Metals				
Dissolved (0.2u) Aluminum (Al)	ug/L	9	5	7264917
Mercury (Hg)	mg/L	<0.00010	0.00010	7265985
Total Aluminum (Al)	mg/L	0.055	0.0049	7268117
Total Arsenic (As)	mg/L	<0.0010	0.0010	7268117
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7268117
Total Boron (B)	mg/L	0.37	0.010	7268117
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7268117
Total Calcium (Ca)	mg/L	230	0.20	7268117
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7268117
Total Cobalt (Co)	mg/L	<0.00050	0.00050	7268117
Total Copper (Cu)	mg/L	0.0031	0.00090	7268117
Total Iron (Fe)	mg/L	0.21	0.10	7268117
Total Lead (Pb)	mg/L	0.0041	0.00050	7268117
Total Magnesium (Mg)	mg/L	73	0.050	7268117
Total Manganese (Mn)	mg/L	0.026	0.0020	7268117
Total Molybdenum (Mo)	mg/L	0.0044	0.00050	7268117
Total Nickel (Ni)	mg/L	0.0038	0.0010	7268117
Total Selenium (Se)	mg/L	<0.0020	0.0020	7268117
Total Silver (Ag)	mg/L	<0.000090	0.000090	7268117
Total Sodium (Na)	mg/L	200	0.10	7268117
Total Strontium (Sr)	mg/L	2.8	0.0010	7268117
Total Vanadium (V)	mg/L	0.00079	0.00050	7268117
Total Zinc (Zn)	mg/L	0.026	0.0050	7268117
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PDK537	PDK538	PDK539	PDK540	PDK542		
Sampling Date		2021/03/22	2021/03/22	2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01	815510-01-01	815510-01-01	815510-01-01	815510-01-01		
	UNITS	T-1R	T-3R	T-3A	T-12	T-15R	RDL	QC Batch
Semivolatile Organics								
Acenaphthene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Acenaphthylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Anthracene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Benzo(a)anthracene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Benzo(a)pyrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Benzo(b,j)fluoranthene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Benzo(g,h,i)perylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Benzo(k)fluoranthene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
1-Chloronaphthalene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900
2-Chloronaphthalene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Chrysene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Dibenzo(a,h)anthracene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Fluoranthene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Fluorene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
1-Methylnaphthalene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
2-Methylnaphthalene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Naphthalene	ug/L	0.47	<0.20	<0.20	<0.20	<0.20	0.20	7265900
5-Nitroacenaphthene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900
Perylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Phenanthrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
Pyrene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7265900
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Hexachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Pentachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2-Chlorophenol	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7265900
4-Chloro-3-Methylphenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
m/p-Cresol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
o-Cresol	ug/L	2.1	<0.50	<0.50	<0.50	<0.50	0.50	7265900
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2,4-Dichlorophenol	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7265900
2,6-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PDK537	PDK538	PDK539	PDK540	PDK542		
Sampling Date		2021/03/22	2021/03/22	2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01	815510-01-01	815510-01-01	815510-01-01	815510-01-01		
	UNITS	T-1R	T-3R	T-3A	T-12	T-15R	RDL	QC Batch
2,4-Dimethylphenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2,4-Dinitrophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7265900
4,6-Dinitro-2-methylphenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7265900
2-Nitrophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
4-Nitrophenol	ug/L	<1.4	<1.4	<1.4	<1.4	<1.4	1.4	7265900
Pentachlorophenol	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900
Phenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7265900
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2,3,4-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2,3,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2,4,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
2,4,6-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
3,4,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Benzyl butyl phthalate	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Biphenyl	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Bis(2-chloroethyl)ether	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Bis(2-chloroethoxy)methane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Bis(2-chloroisopropyl)ether	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7265900
4-Bromophenyl phenyl ether	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7265900
Camphene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900
p-Chloroaniline	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900
4-Chlorophenyl phenyl ether	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Di-N-butyl phthalate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7265900
di-n-octyl phthalate	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7265900
2,4-Dinitrotoluene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Diethyl phthalate	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900
3,3'-Dichlorobenzidine	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Dimethyl phthalate	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900
2,6-Dinitrotoluene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Diphenyl Ether	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7265900
Hexachlorobutadiene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7265900
Hexachlorocyclopentadiene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7265900
Hexachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Indole	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PDK537	PDK538	PDK539	PDK540	PDK542		
Sampling Date		2021/03/22	2021/03/22	2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01	815510-01-01	815510-01-01	815510-01-01	815510-01-01		
	UNITS	T-1R	T-3R	T-3A	T-12	T-15R	RDL	QC Batch
Isophorone	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Nitrobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7265900
N-Nitroso-di-n-propylamine	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7265900
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	98	85	91	31	52		7265900
2-Fluorobiphenyl	%	65	66	71	60	58		7265900
2-Fluorophenol	%	45	39	51	12	28		7265900
D14-Terphenyl	%	102	95	97	96	93		7265900
D5-Nitrobenzene	%	79	82	86	73	70		7265900
D5-Phenol	%	29	24	32	17	25		7265900
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKD573	PKD573	PKD574		
Sampling Date		2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-02-01	815510-02-01	815510-02-01		
	UNITS	TS-1	TS-1 Lab-Dup	NORTH SUMP	RDL	QC Batch
Semivolatile Organics						
Acenaphthene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Acenaphthylene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Anthracene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Benzo(a)anthracene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Benzo(a)pyrene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Benzo(b/j)fluoranthene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Benzo(g,h,i)perylene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Benzo(k)fluoranthene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
1-Chloronaphthalene	ug/L	<1.0	<1.0	<1.0	1.0	7265900
2-Chloronaphthalene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Chrysene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Dibenzo(a,h)anthracene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Fluoranthene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Fluorene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
1-Methylnaphthalene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
2-Methylnaphthalene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Naphthalene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
5-Nitroacenaphthene	ug/L	<1.0	<1.0	<1.0	1.0	7265900
Perylene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Phenanthrene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
Pyrene	ug/L	<0.20	<0.20	<0.20	0.20	7265900
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Hexachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Pentachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2-Chlorophenol	ug/L	<0.30	<0.30	<0.30	0.30	7265900
4-Chloro-3-Methylphenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
m/p-Cresol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
o-Cresol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,4-Dichlorophenol	ug/L	<0.30	<0.30	<0.30	0.30	7265900
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate						



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKD573	PKD573	PKD574		
Sampling Date		2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-02-01	815510-02-01	815510-02-01		
	UNITS	TS-1	TS-1 Lab-Dup	NORTH SUMP	RDL	QC Batch
2,6-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,4-Dimethylphenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,4-Dinitrophenol	ug/L	<2.0	<2.0	<2.0	2.0	7265900
4,6-Dinitro-2-methylphenol	ug/L	<2.0	<2.0	<2.0	2.0	7265900
2-Nitrophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
4-Nitrophenol	ug/L	<1.4	<1.4	<1.4	1.4	7265900
Pentachlorophenol	ug/L	<1.0	<1.0	<1.0	1.0	7265900
Phenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	<0.40	<0.40	0.40	7265900
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,3,4-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,3,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,4,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
2,4,6-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
3,4,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Benzyl butyl phthalate	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Biphenyl	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Bis(2-chloroethyl)ether	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Bis(2-chloroethoxy)methane	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Bis(2-chloroisopropyl)ether	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	<2.0	<2.0	2.0	7265900
4-Bromophenyl phenyl ether	ug/L	<0.30	<0.30	<0.30	0.30	7265900
Camphene	ug/L	<1.0	<1.0	<1.0	1.0	7265900
p-Chloroaniline	ug/L	<1.0	<1.0	<1.0	1.0	7265900
4-Chlorophenyl phenyl ether	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Di-N-butyl phthalate	ug/L	<2.0	<2.0	<2.0	2.0	7265900
di-n-octyl phthalate	ug/L	<0.80	<0.80	<0.80	0.80	7265900
2,4-Dinitrotoluene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Diethyl phthalate	ug/L	<1.0	<1.0	<1.0	1.0	7265900
3,3'-Dichlorobenzidine	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Dimethyl phthalate	ug/L	<1.0	<1.0	<1.0	1.0	7265900
2,6-Dinitrotoluene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Diphenyl Ether	ug/L	<0.30	<0.30	<0.30	0.30	7265900
Hexachlorobutadiene	ug/L	<0.40	<0.40	<0.40	0.40	7265900
Hexachlorocyclopentadiene	ug/L	<2.0	<2.0	<2.0	2.0	7265900
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate						



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKD573	PKD573	PKD574		
Sampling Date		2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-02-01	815510-02-01	815510-02-01		
	UNITS	TS-1	TS-1 Lab-Dup	NORTH SUMP	RDL	QC Batch
Hexachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Indole	ug/L	<1.0	<1.0	<1.0	1.0	7265900
Isophorone	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Nitrobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	<1.0	<1.0	1.0	7265900
N-Nitroso-di-n-propylamine	ug/L	<0.50	<0.50	<0.50	0.50	7265900
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	72	83	61		7265900
2-Fluorobiphenyl	%	70	69	68		7265900
2-Fluorophenol	%	37	43	29		7265900
D14-Terphenyl	%	98	95	95		7265900
D5-Nitrobenzene	%	88	87	79		7265900
D5-Phenol	%	29	29	25		7265900
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate						



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PDK537		PDK538	PDK538	PDK539	PDK540		
Sampling Date		2021/03/22		2021/03/22	2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01		815510-01-01	815510-01-01	815510-01-01	815510-01-01		
	UNITS	T-1R	RDL	T-3R	T-3R Lab-Dup	T-3A	T-12	RDL	QC Batch
Volatile Organics									
Acetone (2-Propanone)	ug/L	<25	25	<10	<10	<10	<10	10	7264028
Benzene	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
Bromodichloromethane	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
Acrolein	ug/L	<25	25	<10	<10	<10	<10	10	7264030
Bromoform	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
Bromomethane	ug/L	<1.3	1.3	<0.50	<0.50	<0.50	<0.50	0.50	7264028
Carbon Tetrachloride	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
Chlorobenzene	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
Chloroethane	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
Chloroform	ug/L	<0.25	0.25	0.32	0.29	<0.10	<0.10	0.10	7264028
Acrylonitrile	ug/L	<13	13	<5.0	<5.0	<5.0	<5.0	5.0	7264030
Chloromethane	ug/L	<1.3	1.3	<0.50	<0.50	<0.50	<0.50	0.50	7264028
Dibromochloromethane	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
1,2-Dichlorobenzene	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
1,3-Dichlorobenzene	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
1,4-Dichlorobenzene	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
1,1-Dichloroethane	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
1,2-Dichloroethane	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
1,1-Dichloroethylene	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
cis-1,2-Dichloroethylene	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
trans-1,2-Dichloroethylene	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
1,2-Dichloropropane	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
Ethylbenzene	ug/L	<0.25	0.25	0.26	0.23	<0.10	<0.10	0.10	7264028
Ethylene Dibromide	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
Methylene Chloride(Dichloromethane)	ug/L	<1.3	1.3	<0.50	<0.50	<0.50	<0.50	0.50	7264028
Methyl Ethyl Ketone (2-Butanone)	ug/L	<13	13	<5.0	<5.0	<5.0	<5.0	5.0	7264028
Methyl Isobutyl Ketone	ug/L	<13	13	<5.0	<5.0	<5.0	<5.0	5.0	7264028
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
Styrene	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
Tetrachloroethylene	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
Toluene	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PK537		PK538	PK538	PK539	PK540		
Sampling Date		2021/03/22		2021/03/22	2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01		815510-01-01	815510-01-01	815510-01-01	815510-01-01		
	UNITS	T-1R	RDL	T-3R	T-3R Lab-Dup	T-3A	T-12	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
1,1,2-Trichloroethane	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
Trichloroethylene	ug/L	<0.25	0.25	<0.10	<0.10	<0.10	<0.10	0.10	7264028
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
Vinyl Chloride	ug/L	<0.50	0.50	<0.20	<0.20	<0.20	<0.20	0.20	7264028
p+m-Xylene	ug/L	<0.25	0.25	0.44	0.43	<0.10	<0.10	0.10	7264028
Methyl Butyl Ketone (2-Hexanone)	ug/L	<13	13	<5.0	<5.0	<5.0	<5.0	5.0	7264030
o-Xylene	ug/L	<0.25	0.25	0.60	0.52	<0.10	<0.10	0.10	7264028
Total Xylenes	ug/L	<0.25	0.25	1.0	0.95	<0.10	<0.10	0.10	7264028
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	105		101	103	105	105		7264028
D4-1,2-Dichloroethane	%	102		99	99	100	100		7264028
D8-Toluene	%	96		98	97	99	97		7264028
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PKD542	PKD573	PKD574		
Sampling Date		2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01	815510-02-01	815510-02-01		
	UNITS	T-15R	TS-1	NORTH SUMP	RDL	QC Batch
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	7264028
Benzene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Bromodichloromethane	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Acrolein	ug/L	<10	<10	<10	10	7264030
Bromoform	ug/L	<0.20	<0.20	<0.20	0.20	7264028
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	7264028
Carbon Tetrachloride	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Chlorobenzene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Chloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7264028
Chloroform	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Acrylonitrile	ug/L	<5.0	<5.0	<5.0	5.0	7264030
Chloromethane	ug/L	<0.50	<0.50	<0.50	0.50	7264028
Dibromochloromethane	ug/L	<0.20	<0.20	<0.20	0.20	7264028
1,2-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	7264028
1,3-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	7264028
1,4-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	7264028
1,1-Dichloroethane	ug/L	<0.10	<0.10	<0.10	0.10	7264028
1,2-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7264028
1,1-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
cis-1,2-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
trans-1,2-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
1,2-Dichloropropane	ug/L	<0.10	<0.10	<0.10	0.10	7264028
cis-1,3-Dichloropropene	ug/L	<0.20	<0.20	<0.20	0.20	7264028
trans-1,3-Dichloropropene	ug/L	<0.20	<0.20	<0.20	0.20	7264028
Ethylbenzene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	7264028
Methylene Chloride(Dichloromethane)	ug/L	<0.50	<0.50	<0.50	0.50	7264028
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	<5.0	<5.0	5.0	7264028
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	7264028
Methyl t-butyl ether (MTBE)	ug/L	<0.20	<0.20	<0.20	0.20	7264028
Styrene	ug/L	<0.20	<0.20	<0.20	0.20	7264028
1,1,1,2-Tetrachloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7264028
1,1,1,2,2-Tetrachloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7264028
Tetrachloroethylene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	7264028
1,1,1-Trichloroethane	ug/L	<0.10	<0.10	<0.10	0.10	7264028
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PDK542	PDK573	PDK574		
Sampling Date		2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01	815510-02-01	815510-02-01		
	UNITS	T-15R	TS-1	NORTH SUMP	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7264028
Trichloroethylene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	<0.20	<0.20	0.20	7264028
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	7264028
p+m-Xylene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	<5.0	<5.0	5.0	7264030
o-Xylene	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Total Xylenes	ug/L	<0.10	<0.10	<0.10	0.10	7264028
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	106	104	105		7264028
D4-1,2-Dichloroethane	%	102	100	101		7264028
D8-Toluene	%	98	97	96		7264028
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

BV Labs ID		PK537	PK538	PK539	PK540	PK542		
Sampling Date		2021/03/22	2021/03/22	2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01	815510-01-01	815510-01-01	815510-01-01	815510-01-01		
	UNITS	T-1R	T-3R	T-3A	T-12	T-15R	RDL	QC Batch
Calculated Parameters								
Aldrin + Dieldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7263134
Chlordane (Total)	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7263134
DDT+ Metabolites	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7263134
Heptachlor + Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7263134
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7263134
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7263134
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7263134
Total Endosulfan	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7263134
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	7263134
Total Trichlorobenzenes	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	7263134
Pesticides & Herbicides								
Aldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Dieldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
a-Chlordane	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
g-Chlordane	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
o,p-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
p,p-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
o,p-DDE	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
p,p-DDE	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
o,p-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
p,p-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Lindane	ug/L	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	7270288
Endosulfan I (alpha)	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Endosulfan II (beta)	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Endrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Heptachlor	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Hexachlorobenzene	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Methoxychlor	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	7270288
alpha-BHC	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
beta-BHC	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
delta-BHC	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Endosulfan sulfate	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Endrin aldehyde	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Endrin ketone	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Mirex	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

BV Labs ID		PDK537	PDK538	PDK539	PDK540	PDK542		
Sampling Date		2021/03/22	2021/03/22	2021/03/22	2021/03/22	2021/03/22		
COC Number		815510-01-01	815510-01-01	815510-01-01	815510-01-01	815510-01-01		
	UNITS	T-1R	T-3R	T-3A	T-12	T-15R	RDL	QC Batch
Octachlorostyrene	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	7270288
Toxaphene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	7270288
Surrogate Recovery (%)								
2,4,5,6-Tetrachloro-m-xylene	%	75	60	59	44 (1)	58		7270288
Decachlorobiphenyl	%	78	83	74	78	88		7270288

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Surrogate recovery was below the control limit as stipulated by Ontario Regulation 153, however, this recovery is still within Bureau Veritas Laboratories's performance based limits. Results reported with surrogate recoveries within this range are still valid but may have an associated low bias.



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

BV Labs ID		PKD573				PKD574				
Sampling Date		2021/03/22				2021/03/22				
COC Number		815510-02-01				815510-02-01				
	UNITS	TS-1	RDL	QC Batch	TS-1 Lab-Dup	RDL	QC Batch	NORTH SUMP	RDL	QC Batch
Calculated Parameters										
Aldrin + Dieldrin	ug/L	<0.03	0.03	7263134				<0.005	0.005	7263134
Chlordane (Total)	ug/L	<0.03	0.03	7263134				<0.005	0.005	7263134
DDT+ Metabolites	ug/L	<0.03	0.03	7263134				<0.005	0.005	7263134
Heptachlor + Heptachlor epoxide	ug/L	<0.03	0.03	7263134				<0.005	0.005	7263134
o,p-DDD + p,p-DDD	ug/L	<0.03	0.03	7263134				<0.005	0.005	7263134
o,p-DDE + p,p-DDE	ug/L	<0.03	0.03	7263134				<0.005	0.005	7263134
o,p-DDT + p,p-DDT	ug/L	<0.03	0.03	7263134				<0.005	0.005	7263134
Total Endosulfan	ug/L	<0.03	0.03	7263134				<0.005	0.005	7263134
Total PCB	ug/L	<0.3	0.3	7263134				<0.05	0.05	7263134
Total Trichlorobenzenes	ug/L	<0.5	0.5	7263134				<0.5	0.5	7263134
Pesticides & Herbicides										
Aldrin	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Dieldrin	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
a-Chlordane	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
g-Chlordane	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
o,p-DDD	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
p,p-DDD	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
o,p-DDE	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
p,p-DDE	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
o,p-DDT	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
p,p-DDT	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Lindane	ug/L	<0.02	0.02	7270288	<0.02	0.02	7270288	<0.003	0.003	7270288
Endosulfan I (alpha)	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Endosulfan II (beta)	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Endrin	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Heptachlor	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Heptachlor epoxide	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Hexachlorobenzene	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Methoxychlor	ug/L	<0.07	0.07	7270288	<0.07	0.07	7270288	<0.01	0.01	7270288
alpha-BHC	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
beta-BHC	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
delta-BHC	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Endosulfan sulfate	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Endrin aldehyde	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Endrin ketone	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

BV Labs ID		PDK573				PDK574				
Sampling Date		2021/03/22				2021/03/22				
COC Number		815510-02-01				815510-02-01				
	UNITS	TS-1	RDL	QC Batch	TS-1 Lab-Dup	RDL	QC Batch	NORTH SUMP	RDL	QC Batch
Mirex	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Octachlorostyrene	ug/L	<0.03	0.03	7270288	<0.03	0.03	7270288	<0.005	0.005	7270288
Toxaphene	ug/L	<1	1	7270288	<1	1	7270288	<0.2	0.2	7270288
Surrogate Recovery (%)										
2,4,5,6-Tetrachloro-m-xylene	%	59		7270288	58		7270288	47 (1)		7270288
Decachlorobiphenyl	%	75		7270288	90		7270288	73		7270288
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Surrogate recovery was below the control limit as stipulated by Ontario Regulation 153, however, this recovery is still within Bureau Veritas Laboratories's performance based limits. Results reported with surrogate recoveries within this range are still valid but may have an associated low bias.										



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK537
Sample ID: T-1R
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7265900	2021/03/25	2021/03/25	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7270288	2021/03/27	2021/03/28	Li Peng
OC Pesticides Summed Parameters	CALC	7263134	N/A	2021/03/25	Automated Statchk
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/25	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263918	2021/03/25	2021/03/26	Massarat Jan
Volatile Organic Compounds in Water	P&T/MS	7264028	N/A	2021/03/25	Ancheol Jeong
Non-Routine Volatile Organic Compounds	P&T/MS	7264030	N/A	2021/03/26	Ancheol Jeong

BV Labs ID: PDK538
Sample ID: T-3R
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7265900	2021/03/25	2021/03/25	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7264051	N/A	2021/03/24	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7266051	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264950	N/A	2021/03/25	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7270288	2021/03/27	2021/03/28	Li Peng
OC Pesticides Summed Parameters	CALC	7263134	N/A	2021/03/25	Automated Statchk
pH	AT	7264055	2021/03/24	2021/03/24	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263918	2021/03/25	2021/03/26	Massarat Jan
Volatile Organic Compounds in Water	P&T/MS	7264028	N/A	2021/03/25	Ancheol Jeong



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK538
Sample ID: T-3R
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Non-Routine Volatile Organic Compounds	P&T/MS	7264030	N/A	2021/03/26	Ancheol Jeong

BV Labs ID: PDK538 Dup
Sample ID: T-3R
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264950	N/A	2021/03/25	Chandra Nandlal
Volatile Organic Compounds in Water	P&T/MS	7264028	N/A	2021/03/25	Ancheol Jeong
Non-Routine Volatile Organic Compounds	P&T/MS	7264030	N/A	2021/03/26	Ancheol Jeong

BV Labs ID: PDK539
Sample ID: T-3A
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7265900	2021/03/25	2021/03/25	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7266051	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7270288	2021/03/27	2021/03/28	Li Peng
OC Pesticides Summed Parameters	CALC	7263134	N/A	2021/03/25	Automated Statchk
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan
Volatile Organic Compounds in Water	P&T/MS	7264028	N/A	2021/03/25	Ancheol Jeong
Non-Routine Volatile Organic Compounds	P&T/MS	7264030	N/A	2021/03/26	Ancheol Jeong

BV Labs ID: PDK540
Sample ID: T-12
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7265900	2021/03/25	2021/03/25	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7264051	N/A	2021/03/24	Surinder Rai



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK540
Sample ID: T-12
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7270288	2021/03/27	2021/03/28	Li Peng
OC Pesticides Summed Parameters	CALC	7263134	N/A	2021/03/25	Automated Statchk
pH	AT	7264055	2021/03/24	2021/03/24	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan
Volatile Organic Compounds in Water	P&T/MS	7264028	N/A	2021/03/25	Ancheol Jeong
Non-Routine Volatile Organic Compounds	P&T/MS	7264030	N/A	2021/03/26	Ancheol Jeong

BV Labs ID: PDK541
Sample ID: T-13
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263918	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK541 Dup
Sample ID: T-13
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden



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VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK542
Sample ID: T-15R
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7265900	2021/03/25	2021/03/25	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7264051	N/A	2021/03/24	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7266051	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7270288	2021/03/27	2021/03/28	Li Peng
OC Pesticides Summed Parameters	CALC	7263134	N/A	2021/03/25	Automated Statchk
pH	AT	7264055	2021/03/24	2021/03/24	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan
Volatile Organic Compounds in Water	P&T/MS	7264028	N/A	2021/03/25	Ancheol Jeong
Non-Routine Volatile Organic Compounds	P&T/MS	7264030	N/A	2021/03/26	Ancheol Jeong

BV Labs ID: PDK542 Dup
Sample ID: T-15R
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK543
Sample ID: T-16
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK543
Sample ID: T-16
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK544
Sample ID: T-21
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7263957	N/A	2021/03/24	Surinder Rai
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Conductivity	AT	7263966	N/A	2021/03/24	Surinder Rai
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264329	N/A	2021/03/25	Alina Dobreanu
pH	AT	7263961	2021/03/24	2021/03/24	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK545
Sample ID: T-23
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7263957	N/A	2021/03/24	Surinder Rai
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Conductivity	AT	7263966	N/A	2021/03/24	Surinder Rai
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264329	N/A	2021/03/25	Alina Dobreanu
pH	AT	7263961	2021/03/24	2021/03/24	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/25	Bramdeo Motiram
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK546
Sample ID: T-28
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7263957	N/A	2021/03/24	Surinder Rai
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Conductivity	AT	7263966	N/A	2021/03/24	Surinder Rai
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264329	N/A	2021/03/25	Alina Dobreanu
pH	AT	7263961	2021/03/24	2021/03/24	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK546
Sample ID: T-28
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK546 Dup
Sample ID: T-28
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7264329	N/A	2021/03/25	Alina Dobreanu

BV Labs ID: PDK568
Sample ID: T-29
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7266051	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263918	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK569
Sample ID: T-30
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7264051	N/A	2021/03/24	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK569
Sample ID: T-30
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7264055	2021/03/24	2021/03/24	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK570
Sample ID: T-31
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK571
Sample ID: T-32
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/25	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK571
Sample ID: T-32
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263918	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK571 Dup
Sample ID: T-32
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Total Suspended Solids	BAL	7263918	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK572
Sample ID: T-35
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7266051	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/25	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263921	2021/03/25	2021/03/26	Massarat Jan

BV Labs ID: PDK573
Sample ID: TS-1
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7265900	2021/03/25	2021/03/25	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263957	N/A	2021/03/24	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK573
Sample ID: TS-1
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7270288	2021/03/27	2021/03/28	Li Peng
OC Pesticides Summed Parameters	CALC	7263134	N/A	2021/03/25	Automated Statchk
pH	AT	7263961	2021/03/24	2021/03/24	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263918	2021/03/25	2021/03/26	Massarat Jan
Volatile Organic Compounds in Water	P&T/MS	7264028	N/A	2021/03/25	Ancheol Jeong
Non-Routine Volatile Organic Compounds	P&T/MS	7264030	N/A	2021/03/26	Ancheol Jeong

BV Labs ID: PDK573 Dup
Sample ID: TS-1
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7265900	2021/03/25	2021/03/25	Anh Lieu
OC Pesticides (Selected) & PCB	GC/ECD	7270288	2021/03/27	2021/03/28	Li Peng

BV Labs ID: PDK574
Sample ID: NORTH SUMP
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7265900	2021/03/25	2021/03/26	Anh Lieu
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7264917	N/A	2021/03/25	Prempal Bhatti
Alkalinity	AT	7263968	N/A	2021/03/25	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7264380	2021/03/24	2021/03/29	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7264023	N/A	2021/03/25	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7264098	N/A	2021/03/25	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7261733	N/A	2021/03/26	Automated Statchk
Mercury in Water by CVAA	CV/AA	7265985	2021/03/25	2021/03/25	Medhat Nasr
Total Metals Analysis by ICPMS	ICP/MS	7268117	N/A	2021/03/29	Nan Raykha
Total Ammonia-N	LACH/NH4	7264367	N/A	2021/03/25	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7264077	N/A	2021/03/25	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7270288	2021/03/27	2021/03/28	Li Peng
OC Pesticides Summed Parameters	CALC	7263134	N/A	2021/03/25	Automated Statchk
pH	AT	7263981	2021/03/24	2021/03/25	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7264026	N/A	2021/03/25	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7264065	2021/03/24	2021/03/24	Shivani Shivani
Total Suspended Solids	BAL	7263918	2021/03/25	2021/03/26	Massarat Jan
Volatile Organic Compounds in Water	P&T/MS	7264028	N/A	2021/03/25	Ancheol Jeong



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PDK574
Sample ID: NORTH SUMP
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Non-Routine Volatile Organic Compounds	P&T/MS	7264030	N/A	2021/03/26	Ancheol Jeong

BV Labs ID: PDK574 Dup
Sample ID: NORTH SUMP
Matrix: Water

Collected: 2021/03/22
Shipped:
Received: 2021/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7264400	N/A	2021/03/24	Bramdeo Motiram



GENERAL COMMENTS

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

Package 1	2.7°C
Package 2	3.0°C
Package 3	2.7°C
Package 4	3.0°C
Package 5	2.0°C
Package 6	2.7°C
Package 7	3.3°C

Sample PDK537 [T-1R] : VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

Sample PDK573 [TS-1] : OC Pesticide Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C176697

Report Date: 2021/03/29

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: SW

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
7264028	4-Bromofluorobenzene	2021/03/25	103	70 - 130	106	70 - 130	104	%				
7264028	D4-1,2-Dichloroethane	2021/03/25	97	70 - 130	99	70 - 130	101	%				
7264028	D8-Toluene	2021/03/25	99	70 - 130	100	70 - 130	96	%				
7265900	2,4,6-Tribromophenol	2021/03/25	92	10 - 130	94	10 - 130	79	%				
7265900	2-Fluorobiphenyl	2021/03/25	68	30 - 130	69	30 - 130	84	%				
7265900	2-Fluorophenol	2021/03/25	55	10 - 130	61	10 - 130	51	%				
7265900	D14-Terphenyl	2021/03/25	100	30 - 130	104	30 - 130	98	%				
7265900	D5-Nitrobenzene	2021/03/25	89	30 - 130	93	30 - 130	93	%				
7265900	D5-Phenol	2021/03/25	35	10 - 130	40	10 - 130	35	%				
7270288	2,4,5,6-Tetrachloro-m-xylene	2021/03/28	58	50 - 130	61	50 - 130	59	%				
7270288	Decachlorobiphenyl	2021/03/28	65	50 - 130	84	50 - 130	59	%				
7263918	Total Suspended Solids	2021/03/26					<10	mg/L	NC	25	99	85 - 115
7263921	Total Suspended Solids	2021/03/26					<10	mg/L	NC	25	102	85 - 115
7263957	Alkalinity (Total as CaCO3)	2021/03/24			96	85 - 115	<1.0	mg/L	2.7	20		
7263961	pH	2021/03/24			102	98 - 103			0.031	N/A		
7263966	Conductivity	2021/03/24			101	85 - 115	<1.0	umho/cm	0	25		
7263968	Alkalinity (Total as CaCO3)	2021/03/25			96	85 - 115	<1.0	mg/L	0.68	20		
7263981	pH	2021/03/25			102	98 - 103			0.24	N/A		
7264023	Dissolved Chloride (Cl-)	2021/03/25	NC	80 - 120	107	80 - 120	<1.0	mg/L	0.38	20		
7264026	Dissolved Sulphate (SO4)	2021/03/25	NC	75 - 125	106	80 - 120	<1.0	mg/L	0.82	20		
7264028	1,1,1,2-Tetrachloroethane	2021/03/25	101	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7264028	1,1,1-Trichloroethane	2021/03/25	104	70 - 130	103	70 - 130	<0.10	ug/L	NC	30		
7264028	1,1,2,2-Tetrachloroethane	2021/03/25	89	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7264028	1,1,2-Trichloroethane	2021/03/25	98	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7264028	1,1-Dichloroethane	2021/03/25	91	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7264028	1,1-Dichloroethylene	2021/03/25	102	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7264028	1,2-Dichlorobenzene	2021/03/25	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
7264028	1,2-Dichloroethane	2021/03/25	93	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7264028	1,2-Dichloropropane	2021/03/25	91	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7264028	1,3-Dichlorobenzene	2021/03/25	98	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7264028	1,4-Dichlorobenzene	2021/03/25	111	70 - 130	112	70 - 130	<0.20	ug/L	NC	30		
7264028	Acetone (2-Propanone)	2021/03/25	115	60 - 140	107	60 - 140	<10	ug/L	NC	30		
7264028	Benzene	2021/03/25	94	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7264028	Bromodichloromethane	2021/03/25	103	70 - 130	105	70 - 130	<0.10	ug/L	NC	30		
7264028	Bromoform	2021/03/25	105	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
7264028	Bromomethane	2021/03/25	81	60 - 140	96	60 - 140	<0.50	ug/L	NC	30		
7264028	Carbon Tetrachloride	2021/03/25	112	70 - 130	108	70 - 130	<0.10	ug/L	NC	30		
7264028	Chlorobenzene	2021/03/25	99	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7264028	Chloroethane	2021/03/25	91	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
7264028	Chloroform	2021/03/25	97	70 - 130	99	70 - 130	<0.10	ug/L	11	30		
7264028	Chloromethane	2021/03/25	94	60 - 140	90	60 - 140	<0.50	ug/L	NC	30		
7264028	cis-1,2-Dichloroethylene	2021/03/25	98	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7264028	cis-1,3-Dichloropropene	2021/03/25	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7264028	Dibromochloromethane	2021/03/25	102	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
7264028	Ethylbenzene	2021/03/25	97	70 - 130	94	70 - 130	<0.10	ug/L	15	30		
7264028	Ethylene Dibromide	2021/03/25	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7264028	Methyl Ethyl Ketone (2-Butanone)	2021/03/25	88	60 - 140	88	60 - 140	<5.0	ug/L	NC	30		
7264028	Methyl Isobutyl Ketone	2021/03/25	98	70 - 130	90	70 - 130	<5.0	ug/L	NC	30		
7264028	Methyl t-butyl ether (MTBE)	2021/03/25	91	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
7264028	Methylene Chloride(Dichloromethane)	2021/03/25	95	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
7264028	o-Xylene	2021/03/25	101	70 - 130	98	70 - 130	<0.10	ug/L	14	30		
7264028	p+m-Xylene	2021/03/25	108	70 - 130	101	70 - 130	<0.10	ug/L	1.7	30		
7264028	Styrene	2021/03/25	108	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7264028	Tetrachloroethylene	2021/03/25	101	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7264028	Toluene	2021/03/25	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7264028	Total Xylenes	2021/03/25					<0.10	ug/L	8.4	30		
7264028	trans-1,2-Dichloroethylene	2021/03/25	98	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7264028	trans-1,3-Dichloropropene	2021/03/25	102	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7264028	Trichloroethylene	2021/03/25	108	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7264028	Trichlorofluoromethane (FREON 11)	2021/03/25	106	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7264028	Vinyl Chloride	2021/03/25	90	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7264030	Acrolein	2021/03/26	111	60 - 140	117	60 - 140	<10	ug/L	NC	30		
7264030	Acrylonitrile	2021/03/26	120	60 - 140	121	60 - 140	<5.0	ug/L	NC	30		
7264030	Methyl Butyl Ketone (2-Hexanone)	2021/03/26			88	60 - 140	<5.0	ug/L	NC	30		
7264051	Alkalinity (Total as CaCO3)	2021/03/24			95	85 - 115	<1.0	mg/L	12	20		
7264055	pH	2021/03/24			102	98 - 103			0.47	N/A		
7264065	Total Phosphorus	2021/03/24	105	80 - 120	107	80 - 120	<0.004	mg/L	3.6	20	103	80 - 120
7264077	Nitrate (N)	2021/03/25	91	80 - 120	92	80 - 120	<0.10	mg/L	NC	20		
7264077	Nitrite (N)	2021/03/25	105	80 - 120	108	80 - 120	<0.010	mg/L				
7264098	Dissolved Organic Carbon	2021/03/25	95	80 - 120	98	80 - 120	<0.40	mg/L	1.4	20		
7264329	Total Ammonia-N	2021/03/25	103	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7264367	Total Ammonia-N	2021/03/25	102	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7264380	Total BOD	2021/03/29					<2	mg/L	11	30	94	80 - 120
7264400	Phenols-4AAP	2021/03/24	96	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
7264917	Dissolved (0.2u) Aluminum (Al)	2021/03/25	105	80 - 120	99	80 - 120	<5	ug/L	5.0	20		
7264950	Nitrate (N)	2021/03/25	105	80 - 120	92	80 - 120	<0.10	mg/L	16	20		
7264950	Nitrite (N)	2021/03/25	NC	80 - 120	108	80 - 120	<0.010	mg/L	1.5	20		
7265900	1,2,3,4-Tetrachlorobenzene	2021/03/25	42	30 - 130	38	30 - 130	<0.50	ug/L	NC	40		
7265900	1,2,3,5-Tetrachlorobenzene	2021/03/25	42	30 - 130	34	30 - 130	<0.50	ug/L	NC	40		
7265900	1,2,3-Trichlorobenzene	2021/03/25	50	30 - 130	43	30 - 130	<0.50	ug/L	NC	40		
7265900	1,2,4,5-Tetrachlorobenzene	2021/03/25	41	30 - 130	33	30 - 130	<0.50	ug/L	NC	40		
7265900	1,2,4-Trichlorobenzene	2021/03/25	49	30 - 130	40	30 - 130	<0.50	ug/L	NC	40		
7265900	1,4-Dichlorobenzene	2021/03/25	48	30 - 130	37	30 - 130	<0.50	ug/L	NC	40		
7265900	1-Chloronaphthalene	2021/03/25	62	30 - 130	50	30 - 130	<1.0	ug/L	NC	40		
7265900	1-Methylnaphthalene	2021/03/25	75	30 - 130	62	30 - 130	<0.20	ug/L	NC	40		
7265900	2,3,4,5-Tetrachlorophenol	2021/03/25	87	10 - 130	92	10 - 130	<0.40	ug/L	NC	40		
7265900	2,3,4,6-Tetrachlorophenol	2021/03/25	100	10 - 130	112	10 - 130	<0.50	ug/L	NC	40		
7265900	2,3,4-Trichlorophenol	2021/03/25	88	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7265900	2,3,5,6-Tetrachlorophenol	2021/03/25	103	10 - 130	100	10 - 130	<0.50	ug/L	NC	40		
7265900	2,3,5-Trichlorophenol	2021/03/25	97	10 - 130	94	10 - 130	<0.50	ug/L	NC	40		
7265900	2,4,5-Trichlorophenol	2021/03/25	97	10 - 130	99	10 - 130	<0.50	ug/L	NC	40		
7265900	2,4,6-Trichlorophenol	2021/03/25	94	10 - 130	97	10 - 130	<0.50	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7265900	2,4-Dichlorophenol	2021/03/25	88	10 - 130	88	10 - 130	<0.30	ug/L	NC	40		
7265900	2,4-Dimethylphenol	2021/03/25	48	10 - 130	73	10 - 130	<0.50	ug/L	NC	40		
7265900	2,4-Dinitrophenol	2021/03/25	88	10 - 130	87	10 - 130	<2.0	ug/L	NC	40		
7265900	2,4-Dinitrotoluene	2021/03/25	99	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7265900	2,6-Dichlorophenol	2021/03/25	88	10 - 130	90	10 - 130	<0.50	ug/L	NC	40		
7265900	2,6-Dinitrotoluene	2021/03/25	90	30 - 130	94	30 - 130	<0.50	ug/L	NC	40		
7265900	2-Chloronaphthalene	2021/03/25	71	30 - 130	72	30 - 130	<0.50	ug/L	NC	40		
7265900	2-Chlorophenol	2021/03/25	83	10 - 130	87	10 - 130	<0.30	ug/L	NC	40		
7265900	2-Methylnaphthalene	2021/03/25	70	30 - 130	56	30 - 130	<0.20	ug/L	NC	40		
7265900	2-Nitrophenol	2021/03/25	86	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7265900	3,3'-Dichlorobenzidine	2021/03/25	2.0 (1)	30 - 130	104	30 - 130	<0.50	ug/L	NC	40		
7265900	3,4,5-Trichlorophenol	2021/03/25	96	10 - 130	89	10 - 130	<0.50	ug/L	NC	40		
7265900	4,6-Dinitro-2-methylphenol	2021/03/25	97	10 - 130	101	10 - 130	<2.0	ug/L	NC	40		
7265900	4-Bromophenyl phenyl ether	2021/03/25	82	30 - 130	73	30 - 130	<0.30	ug/L	NC	40		
7265900	4-Chloro-3-Methylphenol	2021/03/25	84	10 - 130	85	10 - 130	<0.50	ug/L	NC	40		
7265900	4-Chlorophenyl phenyl ether	2021/03/25	74	30 - 130	68	30 - 130	<0.50	ug/L	NC	40		
7265900	4-Nitrophenol	2021/03/25	35	10 - 130	41	10 - 130	<1.4	ug/L	NC	40		
7265900	5-Nitroacenaphthene	2021/03/25	91	30 - 130	93	30 - 130	<1.0	ug/L	NC	40		
7265900	Acenaphthene	2021/03/25	87	30 - 130	84	30 - 130	<0.20	ug/L	NC	40		
7265900	Acenaphthylene	2021/03/25	85	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7265900	Anthracene	2021/03/25	88	30 - 130	91	30 - 130	<0.20	ug/L	NC	40		
7265900	Benzo(a)anthracene	2021/03/25	98	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7265900	Benzo(a)pyrene	2021/03/25	88	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7265900	Benzo(b/j)fluoranthene	2021/03/25	99	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7265900	Benzo(g,h,i)perylene	2021/03/25	106	30 - 130	104	30 - 130	<0.20	ug/L	NC	40		
7265900	Benzo(k)fluoranthene	2021/03/25	105	30 - 130	100	30 - 130	<0.20	ug/L	NC	40		
7265900	Benzyl butyl phthalate	2021/03/25	94	30 - 130	93	30 - 130	<0.50	ug/L	NC	40		
7265900	Biphenyl	2021/03/25	78	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		
7265900	Bis(2-chloroethoxy)methane	2021/03/25	71	30 - 130	74	30 - 130	<0.50	ug/L	NC	40		
7265900	Bis(2-chloroethyl)ether	2021/03/25	78	30 - 130	80	30 - 130	<0.50	ug/L	NC	40		
7265900	Bis(2-chloroisopropyl)ether	2021/03/25	67	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7265900	Bis(2-ethylhexyl)phthalate	2021/03/25	93	30 - 130	94	30 - 130	<2.0	ug/L	NC	40		
7265900	Camphene	2021/03/25	27 (1)	30 - 130	23 (1)	30 - 130	<1.0	ug/L	NC	40		
7265900	Chrysene	2021/03/25	100	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7265900	Dibenzo(a,h)anthracene	2021/03/25	109	30 - 130	108	30 - 130	<0.20	ug/L	NC	40		
7265900	Diethyl phthalate	2021/03/25	92	30 - 130	91	30 - 130	<1.0	ug/L	NC	40		
7265900	Dimethyl phthalate	2021/03/25	95	30 - 130	95	30 - 130	<1.0	ug/L	NC	40		
7265900	Di-N-butyl phthalate	2021/03/25	100	30 - 130	100	30 - 130	<2.0	ug/L	NC	40		
7265900	di-n-octyl phthalate	2021/03/25	101	30 - 130	96	30 - 130	<0.80	ug/L	NC	40		
7265900	Diphenyl Ether	2021/03/25	64	30 - 130	68	30 - 130	<0.30	ug/L	NC	40		
7265900	Fluoranthene	2021/03/25	100	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7265900	Fluorene	2021/03/25	94	30 - 130	93	30 - 130	<0.20	ug/L	NC	40		
7265900	Hexachlorobenzene	2021/03/25	88	30 - 130	88	30 - 130	<0.50	ug/L	NC	40		
7265900	Hexachlorobutadiene	2021/03/25	28 (1)	30 - 130	28 (1)	30 - 130	<0.40	ug/L	NC	40		
7265900	Hexachlorocyclopentadiene	2021/03/25	26 (1)	30 - 130	25 (1)	30 - 130	<2.0	ug/L	NC	40		
7265900	Hexachloroethane	2021/03/25	28 (1)	30 - 130	29 (1)	30 - 130	<0.50	ug/L	NC	40		
7265900	Indeno(1,2,3-cd)pyrene	2021/03/25	100	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7265900	Indole	2021/03/25	16 (1)	30 - 130	67	30 - 130	<1.0	ug/L	NC	40		
7265900	Isophorone	2021/03/25	96	30 - 130	97	30 - 130	<0.50	ug/L	NC	40		
7265900	m/p-Cresol	2021/03/25	66	10 - 130	71	10 - 130	<0.50	ug/L	NC	40		
7265900	Naphthalene	2021/03/25	77	30 - 130	70	30 - 130	<0.20	ug/L	NC	40		
7265900	Nitrobenzene	2021/03/25	85	30 - 130	85	30 - 130	<0.50	ug/L	NC	40		
7265900	Nitrosodiphenylamine/Diphenylamine	2021/03/25	90	30 - 130	111	30 - 130	<1.0	ug/L	NC	40		
7265900	N-Nitroso-di-n-propylamine	2021/03/25	91	30 - 130	93	30 - 130	<0.50	ug/L	NC	40		
7265900	o-Cresol	2021/03/25	71	10 - 130	80	10 - 130	<0.50	ug/L	NC	40		
7265900	p-Chloroaniline	2021/03/25	29 (1)	30 - 130	87	30 - 130	<1.0	ug/L	NC	40		
7265900	Pentachlorobenzene	2021/03/25	52	30 - 130	37	30 - 130	<0.50	ug/L	NC	40		
7265900	Pentachlorophenol	2021/03/25	100	10 - 130	89	10 - 130	<1.0	ug/L	NC	40		
7265900	Perylene	2021/03/25	94	30 - 130	95	30 - 130	<0.20	ug/L	NC	40		
7265900	Phenanthrene	2021/03/25	94	30 - 130	95	30 - 130	<0.20	ug/L	NC	40		
7265900	Phenol	2021/03/25	36	10 - 130	40	10 - 130	<0.50	ug/L	NC	40		
7265900	Pyrene	2021/03/25	101	30 - 130	104	30 - 130	<0.20	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7265985	Mercury (Hg)	2021/03/25	94	75 - 125	98	80 - 120	<0.00010	mg/L	NC	20		
7266051	Mercury (Hg)	2021/03/25	102	75 - 125	97	80 - 120	<0.00010	mg/L	NC	20		
7268117	Total Aluminum (Al)	2021/03/29	99	80 - 120	96	80 - 120	<0.0049	mg/L	6.8	20		
7268117	Total Arsenic (As)	2021/03/29	100	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7268117	Total Beryllium (Be)	2021/03/29	107	80 - 120	102	80 - 120	<0.00040	mg/L	NC	20		
7268117	Total Boron (B)	2021/03/29	100	80 - 120	99	80 - 120	<0.010	mg/L	6.3	20		
7268117	Total Cadmium (Cd)	2021/03/29	101	80 - 120	100	80 - 120	<0.000090	mg/L	1.3	20		
7268117	Total Calcium (Ca)	2021/03/29	NC	80 - 120	96	80 - 120	<0.20	mg/L	2.5	20		
7268117	Total Chromium (Cr)	2021/03/29	94	80 - 120	94	80 - 120	<0.0050	mg/L	NC	20		
7268117	Total Cobalt (Co)	2021/03/29	95	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
7268117	Total Copper (Cu)	2021/03/29	102	80 - 120	101	80 - 120	<0.00090	mg/L	NC	20		
7268117	Total Iron (Fe)	2021/03/29	97	80 - 120	97	80 - 120	<0.10	mg/L	NC	20		
7268117	Total Lead (Pb)	2021/03/29	96	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
7268117	Total Magnesium (Mg)	2021/03/29	NC	80 - 120	98	80 - 120	<0.050	mg/L	1.4	20		
7268117	Total Manganese (Mn)	2021/03/29	97	80 - 120	97	80 - 120	<0.0020	mg/L	3.9	20		
7268117	Total Molybdenum (Mo)	2021/03/29	104	80 - 120	100	80 - 120	<0.00050	mg/L	5.4	20		
7268117	Total Nickel (Ni)	2021/03/29	94	80 - 120	97	80 - 120	<0.0010	mg/L	1.6	20		
7268117	Total Selenium (Se)	2021/03/29	100	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
7268117	Total Silver (Ag)	2021/03/29	98	80 - 120	100	80 - 120	<0.000090	mg/L	NC	20		
7268117	Total Sodium (Na)	2021/03/29	NC	80 - 120	98	80 - 120	<0.10	mg/L	0.52	20		
7268117	Total Strontium (Sr)	2021/03/29	NC	80 - 120	94	80 - 120	<0.0010	mg/L	1.9	20		
7268117	Total Vanadium (V)	2021/03/29	98	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
7268117	Total Zinc (Zn)	2021/03/29	97	80 - 120	100	80 - 120	<0.0050	mg/L	1.0	20		
7270288	a-Chlordane	2021/03/28	71	50 - 130	77	50 - 130	<0.005	ug/L	NC	30		
7270288	Aldrin	2021/03/28	64	50 - 130	70	50 - 130	<0.005	ug/L	NC	30		
7270288	alpha-BHC	2021/03/28	72	30 - 130	79	30 - 130	<0.005	ug/L	NC	40		
7270288	beta-BHC	2021/03/28	72	30 - 130	78	30 - 130	<0.005	ug/L	NC	40		
7270288	delta-BHC	2021/03/28	71	30 - 130	78	30 - 130	<0.005	ug/L	NC	40		
7270288	Dieldrin	2021/03/28	76	50 - 130	90	50 - 130	<0.005	ug/L	NC	30		
7270288	Endosulfan I (alpha)	2021/03/28	59	50 - 130	67	50 - 130	<0.005	ug/L	NC	30		
7270288	Endosulfan II (beta)	2021/03/28	57	50 - 130	65	50 - 130	<0.005	ug/L	NC	30		



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: SW
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
7270288	Endosulfan sulfate	2021/03/28	79	30 - 130	90	30 - 130	<0.005	ug/L	NC	40		
7270288	Endrin aldehyde	2021/03/28	64	30 - 130	73	30 - 130	<0.005	ug/L	NC	40		
7270288	Endrin ketone	2021/03/28	58	30 - 130	65	30 - 130	<0.005	ug/L	NC	40		
7270288	Endrin	2021/03/28	72	50 - 130	78	50 - 130	<0.005	ug/L	NC	30		
7270288	g-Chlordane	2021/03/28	71	50 - 130	77	50 - 130	<0.005	ug/L	NC	30		
7270288	Heptachlor epoxide	2021/03/28	71	50 - 130	82	50 - 130	<0.005	ug/L	NC	30		
7270288	Heptachlor	2021/03/28	67	50 - 130	71	50 - 130	<0.005	ug/L	NC	30		
7270288	Hexachlorobenzene	2021/03/28	71	50 - 130	80	50 - 130	<0.005	ug/L	NC	30		
7270288	Lindane	2021/03/28	77	50 - 130	84	50 - 130	<0.003	ug/L	NC	30		
7270288	Methoxychlor	2021/03/28	61	50 - 130	64	50 - 130	<0.01	ug/L	NC	30		
7270288	Mirex	2021/03/28	83	30 - 130	102	30 - 130	<0.005	ug/L	NC	40		
7270288	o,p-DDD	2021/03/28	76	50 - 130	88	50 - 130	<0.005	ug/L	NC	30		
7270288	o,p-DDE	2021/03/28	86	50 - 130	89	50 - 130	<0.005	ug/L	NC	30		
7270288	o,p-DDT	2021/03/28	67	50 - 130	65	50 - 130	<0.005	ug/L	NC	30		
7270288	Octachlorostyrene	2021/03/28	73	30 - 130	79	30 - 130	<0.005	ug/L	NC	40		
7270288	p,p-DDD	2021/03/28	65	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7270288	p,p-DDE	2021/03/28	66	50 - 130	75	50 - 130	<0.005	ug/L	NC	30		
7270288	p,p-DDT	2021/03/28	60	50 - 130	56	50 - 130	<0.005	ug/L	NC	30		



BUREAU
VERITAS

BV Labs Job #: C176697

Report Date: 2021/03/29

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: SW

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
7270288	Toxaphene	2021/03/28					<0.2	ug/L	NC	40		

N/A = Not Applicable

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

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

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

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

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

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

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

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

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

(2) The recovery for the flagged target analyte was below the control limit as stipulated by Ontario Regulation 153, however, this recovery is still within Bureau Veritas Laboratories's performance based limits. Results reported for this specific analyte with spike recoveries within this range are still valid but may have an associated low bias.



BUREAU
VERITAS

BV Labs Job #: C176697
Report Date: 2021/03/29

Terrapure Environmental
Client Project #: SW
Sampler Initials: BM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Eva Pranjic

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

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

23-Mar-21 16:05

Page 1 of 2

Jolanta Goralczyk
C176697

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Only:	
Company Name: #16786 Terrapure Environmental	Company Name: * Brad Mullin - GHD Reporting *	Quotation #: B60569	P.O. #: SW		ATM ENV-907		Bottle Order #: 815519
Attention: Accounting	Attention: Brad Mullin - GHD Reporting *	Project Name: SW	COC #:		Project Manager: Jolanta Goralczyk		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Sited By:	C#815519-01-01				
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:						
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com						

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						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 / <input checked="" type="checkbox"/> Cr / <input checked="" type="checkbox"/> V	Lab "C" SW Water Quality (Full)											Regular (Standard) TAT: (will be applied if Rush TAT is not specified) <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														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"/> Agru/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____																
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	Reg 405 Table _____																
Include Criteria on Certificate of Analysis (Y/N)?																				
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix													# of Bottles	Comments		
1	T-1R	21/03/22	Am	SW	Y	✓	✓										16			
2	T-3R			SW	Y	✓	✓										16			
3	T-3A			SW	Y	✓	✓										16			
4	T-12			SW	Y	✓	✓										16			
5	T-13			SW	Y	✓											9			
6	T-15R			SW	Y	✓	✓										16			
7	T-16			SW	Y	✓											9			
8	T-21			SW	N/A												5			
9	T-23			SW	N/A												5			
10	T-28			SW	N/A												5			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only		
<i>[Signature]</i>	21/03/22	Am	<i>[Signature]</i>	21/03/22	16:05		Time Sensitive	Temperature (°C) on Receipt	Custody Seal
								<i>Ruby do AC</i>	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



INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: * Brad Mullin * GHD Reporting * Attention: * Address: * Tel: * Fax: * Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: * Project: SW Project Name: SW Site #: * Sampled By: *		Laboratory Use Only: BV Labs Job #: * Bottle Order #: * COC #: * Project Manager: Jolanta Goralczyk C#815510-02-01	
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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															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		Field Filtered (please circle): Metals (Hg/Cr/Vi) <input checked="" type="checkbox"/> List "E" SW												<input checked="" type="checkbox"/> Regular (Standard) TAT <input type="checkbox"/> Job Specific Rush TAT (if applies to entire submission)				
<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														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	<input type="checkbox"/> Reg 406 Table																		
<input type="checkbox"/> Other			<input type="checkbox"/> Other																			
Include Criteria on Certificate of Analysis (Y/N)?																						
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix														# of Bottles	Comments			
	T-29	21/03/22	AM	SW	Y	✓												9				
	T-30			SW	Y	✓												9				
	T-31			SW	Y	✓												9				
	T-32			SW	Y	✓												9				
	T-35			SW	Y	✓												9				
	TS-1			SW	Y	✓	✓											16				
	North Sump			SW	Y	✓	✓											16				

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>		21/03/22	AM	<i>[Signature]</i>		02/03/23	1605		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
										<i>[Signature]</i>			

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

Bureau Veritas Canada (2019) Inc.



Your Project #: GW
Your C.O.C. #: 819873-01-01, 819873-02-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/04/23
Report #: R6607266
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1A0241
Received: 2021/04/15, 16:08

Sample Matrix: Water
Samples Received: 16

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/04/20	2021/04/20	CAM SOP-00301	EPA 8270 m
Alkalinity	16	N/A	2021/04/19	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/04/19	CAM SOP-00435	SM 23 4110 B m
Anions	15	N/A	2021/04/20	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	1	2021/04/17	2021/04/22	CAM SOP-00427	SM 23 5210B m
Conductivity	16	N/A	2021/04/19	CAM SOP-00414	SM 23 2510 m
Fluoride	16	2021/04/19	2021/04/19	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	4	N/A	2021/04/19	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	12	N/A	2021/04/20	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	4	N/A	2021/04/19	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	12	N/A	2021/04/20	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	16	N/A	2021/04/20	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	2	N/A	2021/04/19	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	14	N/A	2021/04/20	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	1	2021/04/20	2021/04/21	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	1	N/A	2021/04/18	CAM SOP-00307	EPA 8081A/8082B m
pH	16	2021/04/19	2021/04/19	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	6	N/A	2021/04/22	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	10	N/A	2021/04/23	CAM SOP-00444	OMOE E3179 m
Orthophosphate	15	N/A	2021/04/19	CAM SOP-00461	EPA 365.1 m
Orthophosphate	1	N/A	2021/04/20	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	16	2021/04/19	2021/04/20	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	13	2021/04/19	2021/04/20	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	3	2021/04/19	2021/04/21	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	16	N/A	2021/04/20	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	1	N/A	2021/04/17	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	1	N/A	2021/04/18	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.



Your Project #: GW
Your C.O.C. #: 819873-01-01, 819873-02-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/04/23
Report #: R6607266
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1A0241

Received: 2021/04/15, 16:08

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

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
23 Apr 2021 16:13:35

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 #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PIG106			PIG106			PIG107		
Sampling Date		2021/04/13			2021/04/13			2021/04/13		
COC Number		819873-01-01			819873-01-01			819873-01-01		
	UNITS	33-I	RDL	QC Batch	33-I Lab-Dup	RDL	QC Batch	33-II	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1100	1.0	7300551				170	1.0	7300551
Inorganics										
Total Ammonia-N	mg/L	3.9	0.050	7306394				<0.050	0.050	7306394
Total BOD	mg/L							8	2	7304373
Conductivity	umho/cm	4000	1.0	7305615				580	1.0	7305615
Total Dissolved Solids	mg/L	2990	10	7303927				265	10	7303927
Fluoride (F-)	mg/L	1.8	0.10	7305609				0.36	0.10	7305609
Total Kjeldahl Nitrogen (TKN)	mg/L	4.4	0.10	7306436	4.4	0.10	7306436	0.52	0.10	7306436
Total Organic Carbon (TOC)	mg/L	27	0.40	7306447				12	0.40	7306447
Orthophosphate (P)	mg/L	0.18	0.010	7304808				0.14	0.010	7304808
pH	pH	7.72		7305610				7.92		7305610
Phenols-4AAP	mg/L	<0.0010	0.0010	7307332				0.0011	0.0010	7307318
Alkalinity (Total as CaCO3)	mg/L	48	1.0	7305613				86	1.0	7305613
Nitrite (N)	mg/L	<0.010	0.010	7304805				0.010	0.010	7304805
Dissolved Chloride (Cl-)	mg/L	420	10	7304809				35	1.0	7304809
Nitrate (N)	mg/L	0.19	0.10	7304805				0.52	0.10	7304805
Nitrate + Nitrite (N)	mg/L	0.19	0.10	7304805				0.53	0.10	7304805
Dissolved Bromide (Br-)	mg/L	<10	10	7304809				<1.0	1.0	7304809
Dissolved Sulphate (SO4)	mg/L	1600	10	7304809				120	1.0	7304809
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PIG108			PIG109			PIG109		
Sampling Date		2021/04/14			2021/04/14			2021/04/14		
COC Number		819873-01-01			819873-01-01			819873-01-01		
	UNITS	ST1	RDL	QC Batch	ST2	RDL	QC Batch	ST2 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	230	1.0	7300551	82	1.0	7300551			
Inorganics										
Total Ammonia-N	mg/L	21 (1)	0.050	7306394	56 (1)	0.25	7306394			
Conductivity	umho/cm	2000	1.0	7305615	5000	1.0	7305615			
Total Dissolved Solids	mg/L	795	10	7306461	2390	10	7303927			
Fluoride (F-)	mg/L	0.92	0.10	7305609	1.4	0.10	7305609			
Total Kjeldahl Nitrogen (TKN)	mg/L	20 (1)	1.0	7306436	51 (1)	2.0	7306436			
Total Organic Carbon (TOC)	mg/L	5.0	0.40	7306447	15	0.40	7306447			
Orthophosphate (P)	mg/L	<0.010	0.010	7304808	<0.010	0.010	7305374	<0.010	0.010	7305374
pH	pH	8.11		7305610	8.60		7305610			
Phenols-4AAP	mg/L	0.0038	0.0020	7307332	0.023	0.0050	7307318			
Alkalinity (Total as CaCO3)	mg/L	290	1.0	7305613	150	1.0	7305613			
Nitrite (N)	mg/L	<0.010	0.010	7304805	0.044	0.010	7304805			
Dissolved Chloride (Cl-)	mg/L	280	5.0	7304809	1300	10	7304809			
Nitrate (N)	mg/L	<0.10	0.10	7304805	<0.10	0.10	7304805			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7304805	<0.10	0.10	7304805			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7304809	<10	10	7304809			
Dissolved Sulphate (SO4)	mg/L	280	5.0	7304809	320	10	7304809			

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 #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PIG110			PIG111			PIG111		
Sampling Date		2021/04/14			2021/04/14			2021/04/14		
COC Number		819873-01-01			819873-01-01			819873-01-01		
	UNITS	G24	RDL	QC Batch	P16	RDL	QC Batch	P16 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	480	1.0	7300551	530	1.0	7300551			
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7306394	24 (1)	0.050	7306394			
Conductivity	umho/cm	1000	1.0	7305615	4000	1.0	7305615	4000	1.0	7305615
Total Dissolved Solids	mg/L	595	10	7303927	1900	10	7306461			
Fluoride (F-)	mg/L	0.88	0.10	7305609	1.7	0.10	7305609	1.7	0.10	7305609
Total Kjeldahl Nitrogen (TKN)	mg/L	0.27	0.10	7306436	24 (1)	1.0	7306436			
Total Organic Carbon (TOC)	mg/L	3.7	0.40	7306447	17	0.40	7306447			
Orthophosphate (P)	mg/L	<0.010	0.010	7304808	<0.010	0.010	7304808			
pH	pH	7.84		7305610	8.08		7305610	8.14		7305610
Phenols-4AAP	mg/L	<0.0010	0.0010	7307318	0.15	0.0050	7307318			
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7305613	110	1.0	7305613	110	1.0	7305613
Nitrite (N)	mg/L	<0.010	0.010	7304805	<0.010	0.010	7304805	<0.010	0.010	7304805
Dissolved Chloride (Cl-)	mg/L	8.8	1.0	7304809	970	5.0	7304809			
Nitrate (N)	mg/L	0.50	0.10	7304805	<0.10	0.10	7304805	<0.10	0.10	7304805
Nitrate + Nitrite (N)	mg/L	0.50	0.10	7304805	<0.10	0.10	7304805	<0.10	0.10	7304805
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7304809	<5.0	5.0	7304809			
Dissolved Sulphate (SO4)	mg/L	250	1.0	7304809	350	5.0	7304809			

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 #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PIG112			PIG113			PIG114		
Sampling Date		2021/04/14			2021/04/14			2021/04/14		
COC Number		819873-01-01			819873-01-01			819873-01-01		
	UNITS	P14	RDL	QC Batch	P15	RDL	56-I	RDL	QC Batch	
Calculated Parameters										
Hardness (CaCO3)	mg/L	52	1.0	7300551	95	1.0	1000	1.0	7300551	
Inorganics										
Total Ammonia-N	mg/L	24 (1)	0.050	7306394	150 (1)	1.0	1.1	0.050	7306394	
Conductivity	umho/cm	2100	1.0	7305615	11000	1.0	2900	1.0	7305615	
Total Dissolved Solids	mg/L	810	10	7303927	5820	20	1970	10	7303927	
Fluoride (F-)	mg/L	1.6	0.10	7305609	3.1	0.10	0.41	0.10	7305609	
Total Kjeldahl Nitrogen (TKN)	mg/L	23 (1)	1.0	7306436	140 (1)	5.0	1.2	0.10	7306436	
Total Organic Carbon (TOC)	mg/L	11	0.40	7306447	39	0.40	2.8	0.40	7306447	
Orthophosphate (P)	mg/L	<0.010	0.010	7304808	0.032	0.010	<0.010	0.010	7304808	
pH	pH	8.23		7305610	9.67		7.87		7305610	
Phenols-4AAP	mg/L	0.098	0.010	7307318	0.46	0.020	<0.0010	0.0010	7307332	
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7305613	410	1.0	220	1.0	7305613	
Nitrite (N)	mg/L	<0.010	0.010	7304805	0.020	0.010	<0.010	0.010	7304805	
Dissolved Chloride (Cl-)	mg/L	410	5.0	7304809	3300	20	450	5.0	7304809	
Nitrate (N)	mg/L	<0.10	0.10	7304805	<0.10	0.10	<0.10	0.10	7304805	
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7304805	<0.10	0.10	<0.10	0.10	7304805	
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7304809	<20	20	<5.0	5.0	7304809	
Dissolved Sulphate (SO4)	mg/L	200	5.0	7304809	290	20	650	5.0	7304809	
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.										



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VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PIG115			PIG115			PIG145		
Sampling Date		2021/04/14			2021/04/14			2021/04/14		
COC Number		819873-01-01			819873-01-01			819873-02-01		
	UNITS	56-II	RDL	QC Batch	56-II Lab-Dup	RDL	QC Batch	P17	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	650	1.0	7300551				13	1.0	7300551
Inorganics										
Total Ammonia-N	mg/L	0.64	0.050	7306394				170 (1)	1.0	7306394
Conductivity	umho/cm	2000	1.0	7305615				9700	1.0	7305615
Total Dissolved Solids	mg/L	1280	10	7306461	1210	10	7306461	5110	20	7306461
Fluoride (F-)	mg/L	0.55	0.10	7305609				3.9	0.10	7305609
Total Kjeldahl Nitrogen (TKN)	mg/L	0.81	0.10	7306436				160 (1)	5.0	7306436
Total Organic Carbon (TOC)	mg/L	2.6	0.40	7306447				45	0.40	7306447
Orthophosphate (P)	mg/L	<0.010	0.010	7304808				0.29	0.010	7304808
pH	pH	7.90		7305610				9.75		7305610
Phenols-4AAP	mg/L	<0.0010	0.0010	7307332	<0.0010	0.0010	7307332	0.45	0.010	7307318
Alkalinity (Total as CaCO3)	mg/L	290	1.0	7305613				560	1.0	7305613
Nitrite (N)	mg/L	<0.010	0.010	7304803	<0.010	0.010	7304803	<0.010	0.010	7304803
Dissolved Chloride (Cl-)	mg/L	270	5.0	7304809	260	5.0	7304809	3400	20	7304809
Nitrate (N)	mg/L	<0.10	0.10	7304803	<0.10	0.10	7304803	<0.10	0.10	7304803
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7304803	<0.10	0.10	7304803	<0.10	0.10	7304803
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7304809	<5.0	5.0	7304809	<20	20	7304809
Dissolved Sulphate (SO4)	mg/L	400	5.0	7304809	390	5.0	7304809	130	20	7304809

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 #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PIG145			PIG146			PIG147		
Sampling Date		2021/04/14			2021/04/14			2021/04/14		
COC Number		819873-02-01			819873-02-01			819873-02-01		
	UNITS	P17 Lab-Dup	RDL	QC Batch	P12	RDL	QC Batch	P6-IR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				300	1.0	7300551	21	1.0	7300551
Inorganics										
Total Ammonia-N	mg/L				11	0.050	7306394	190 (1)	1.0	7306394
Conductivity	umho/cm				2000	1.0	7305615	12000	1.0	7305615
Total Dissolved Solids	mg/L				1080	10	7306461	6150	20	7306461
Fluoride (F-)	mg/L				1.2	0.10	7305609	3.5	0.10	7305609
Total Kjeldahl Nitrogen (TKN)	mg/L				12	0.50	7306436	170 (1)	5.0	7306436
Total Organic Carbon (TOC)	mg/L	45	0.40	7306447	26	0.40	7306447	37	0.40	7306447
Orthophosphate (P)	mg/L				0.012	0.010	7304808	0.23	0.010	7304808
pH	pH				8.15		7305610	9.63		7305610
Phenols-4AAP	mg/L				0.62	0.050	7307332	1.1	0.050	7307318
Alkalinity (Total as CaCO3)	mg/L				69	1.0	7305613	530	1.0	7305613
Nitrite (N)	mg/L				<0.010	0.010	7304805	0.013	0.010	7304805
Dissolved Chloride (Cl-)	mg/L				300	5.0	7304809	3400	20	7304809
Nitrate (N)	mg/L				<0.10	0.10	7304805	<0.10	0.10	7304805
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7304805	<0.10	0.10	7304805
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7304809	<20	20	7304809
Dissolved Sulphate (SO4)	mg/L				420	5.0	7304809	120	20	7304809

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 #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PIG148			PIG148			PIG149		
Sampling Date		2021/04/14			2021/04/14			2021/04/14		
COC Number		819873-02-01			819873-02-01			819873-02-01		
	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	7300551				930	1.0	7300551
Inorganics										
Total Ammonia-N	mg/L	11	0.050	7306394	11	0.050	7306394	0.088	0.050	7306394
Conductivity	umho/cm	12000	1.0	7305615				2500	1.0	7305615
Total Dissolved Solids	mg/L	7670	20	7303927				1560	10	7303927
Fluoride (F-)	mg/L	0.93	0.10	7305609				0.80	0.10	7305609
Total Kjeldahl Nitrogen (TKN)	mg/L	10 (1)	0.50	7306436				0.62	0.10	7306436
Total Organic Carbon (TOC)	mg/L	3.6	0.40	7306447				2.8	0.40	7306447
Orthophosphate (P)	mg/L	<0.010	0.010	7304808				0.010	0.010	7304808
pH	pH	7.87		7305610				7.95		7305610
Phenols-4AAP	mg/L	<0.0010	0.0010	7307318	<0.0010	0.0010	7307318	<0.0010	0.0010	7307318
Alkalinity (Total as CaCO3)	mg/L	250	1.0	7305613				190	1.0	7305613
Nitrite (N)	mg/L	<0.010	0.010	7304805				<0.010	0.010	7304805
Dissolved Chloride (Cl-)	mg/L	3300	20	7304809				390	5.0	7304871
Nitrate (N)	mg/L	<0.10	0.10	7304805				0.78	0.10	7304805
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7304805				0.78	0.10	7304805
Dissolved Bromide (Br-)	mg/L	<20	20	7304809				<5.0	5.0	7304871
Dissolved Sulphate (SO4)	mg/L	1600	20	7304809				540	5.0	7304871

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 #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PIG149			PIG150			PIG150		
Sampling Date		2021/04/14			2021/04/14			2021/04/14		
COC Number		819873-02-01			819873-02-01			819873-02-01		
	UNITS	P9-II Lab-Dup	RDL	QC Batch	P9-IIIIR	RDL	QC Batch	P9-IIIIR Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1100	1.0	7300551			
Inorganics										
Total Ammonia-N	mg/L				3.8	0.050	7306394			
Conductivity	umho/cm				3700	1.0	7305615			
Total Dissolved Solids	mg/L				2610	10	7303927	2590	10	7303927
Fluoride (F-)	mg/L				1.2	0.10	7305609			
Total Kjeldahl Nitrogen (TKN)	mg/L				3.9	0.10	7306436			
Total Organic Carbon (TOC)	mg/L				2.5	0.40	7306447			
Orthophosphate (P)	mg/L				<0.010	0.010	7304808			
pH	pH				7.82		7305610			
Phenols-4AAP	mg/L				<0.0010	0.0010	7307332			
Alkalinity (Total as CaCO3)	mg/L				160	1.0	7305613			
Nitrite (N)	mg/L				<0.010	0.010	7304805			
Dissolved Chloride (Cl-)	mg/L	380	5.0	7304871	550	5.0	7304809			
Nitrate (N)	mg/L				<0.10	0.10	7304805			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7304805			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7304871	<5.0	5.0	7304809			
Dissolved Sulphate (SO4)	mg/L	540	5.0	7304871	1000	5.0	7304809			

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



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PIG106	PIG107	PIG107	PIG108		PIG109		
Sampling Date		2021/04/13	2021/04/13	2021/04/13	2021/04/14		2021/04/14		
COC Number		819873-01-01	819873-01-01	819873-01-01	819873-01-01		819873-01-01		
	UNITS	33-I	33-II	33-II Lab-Dup	ST1	RDL	ST2	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	8.4	46	51	<4.9	4.9	<4.9	4.9	7305898
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7305898
Dissolved Arsenic (As)	ug/L	2.1	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7305898
Dissolved Barium (Ba)	ug/L	110	22	22	15	2.0	17	2.0	7305898
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	<0.40	0.40	7305898
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7305898
Dissolved Boron (B)	ug/L	410	62	61	260	10	390	10	7305898
Dissolved Cadmium (Cd)	ug/L	<0.090	0.11	0.11	<0.090	0.090	<0.090	0.090	7305898
Dissolved Calcium (Ca)	ug/L	420000	57000	56000	45000	200	13000	200	7305898
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7305898
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7305898
Dissolved Copper (Cu)	ug/L	<0.90	4.8	4.8	<0.90	0.90	<0.90	0.90	7305898
Dissolved Iron (Fe)	ug/L	280	<100	<100	<100	100	<100	100	7305898
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7305898
Dissolved Lithium (Li)	ug/L	25	<5.0	<5.0	23	5.0	31	5.0	7305898
Dissolved Magnesium (Mg)	ug/L	14000	7400	7300	29000	50	12000	50	7305898
Dissolved Manganese (Mn)	ug/L	500	54	54	4.2	2.0	<2.0	2.0	7305898
Dissolved Molybdenum (Mo)	ug/L	28	2.8	2.8	4.6	0.50	9.5	0.50	7305898
Dissolved Nickel (Ni)	ug/L	1.6	<1.0	<1.0	<1.0	1.0	4.9	1.0	7305898
Dissolved Phosphorus (P)	ug/L	210	160	190	<100	100	<100	100	7305898
Dissolved Potassium (K)	ug/L	57000	11000	10000	26000	200	61000	200	7305898
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	2.0	7305898
Dissolved Silicon (Si)	ug/L	4600	3700	3600	6400	50	4800	50	7305898
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	<0.090	0.090	<0.090	0.090	7305898
Dissolved Sodium (Na)	ug/L	350000	29000	28000	240000	100	800000	500	7305898
Dissolved Strontium (Sr)	ug/L	1900	350	340	1500	1.0	1200	1.0	7305898
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7305898
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	<0.050	0.050	7305898
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7305898
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7305898
Dissolved Tungsten (W)	ug/L	4.0	1.5	1.5	2.6	1.0	6.9	1.0	7305898
Dissolved Uranium (U)	ug/L	0.20	0.35	0.35	0.31	0.10	<0.10	0.10	7305898
Dissolved Vanadium (V)	ug/L	1.8	1.4	1.4	<0.50	0.50	0.66	0.50	7305898
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7305898
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7305898
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PIG110	PIG111	PIG112		PIG113		PIG114		
Sampling Date		2021/04/14	2021/04/14	2021/04/14		2021/04/14		2021/04/14		
COC Number		819873-01-01	819873-01-01	819873-01-01		819873-01-01		819873-01-01		
	UNITS	G24	P16	P14	RDL	P15	RDL	56-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	<4.9	4.9	340	4.9	<4.9	4.9	7305898
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7305898
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	1.0	2.4	1.0	<1.0	1.0	7305898
Dissolved Barium (Ba)	ug/L	32	12	5.4	2.0	10	2.0	37	2.0	7305898
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7305898
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7305898
Dissolved Boron (B)	ug/L	130	470	230	10	510	10	330	10	7305898
Dissolved Cadmium (Cd)	ug/L	0.50	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7305898
Dissolved Calcium (Ca)	ug/L	130000	130000	13000	200	35000	200	250000	400	7305898
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7305898
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7305898
Dissolved Copper (Cu)	ug/L	2.6	<0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7305898
Dissolved Iron (Fe)	ug/L	<100	<100	<100	100	<100	100	710	100	7305898
Dissolved Lead (Pb)	ug/L	0.71	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7305898
Dissolved Lithium (Li)	ug/L	8.0	29	11	5.0	34	5.0	67	5.0	7305898
Dissolved Magnesium (Mg)	ug/L	38000	51000	5000	50	1600	50	97000	50	7305898
Dissolved Manganese (Mn)	ug/L	10	32	2.5	2.0	<2.0	2.0	74	2.0	7305898
Dissolved Molybdenum (Mo)	ug/L	3.6	8.5	1.9	0.50	11	0.50	<0.50	0.50	7305898
Dissolved Nickel (Ni)	ug/L	11	4.5	3.1	1.0	17	1.0	<1.0	1.0	7305898
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	100	170	100	<100	100	7305898
Dissolved Potassium (K)	ug/L	2500	46000	39000	200	150000	200	13000	200	7305898
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7305898
Dissolved Silicon (Si)	ug/L	4800	4000	6400	50	5000	50	3200	50	7305898
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7305898
Dissolved Sodium (Na)	ug/L	18000	460000	250000	100	1900000	500	170000	100	7305898
Dissolved Strontium (Sr)	ug/L	870	2100	250	1.0	1400	1.0	5700	1.0	7305898
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7305898
Dissolved Thallium (Tl)	ug/L	0.25	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7305898
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7305898
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7305898
Dissolved Tungsten (W)	ug/L	<1.0	5.7	4.1	1.0	19	1.0	<1.0	1.0	7305898
Dissolved Uranium (U)	ug/L	4.9	<0.10	<0.10	0.10	<0.10	0.10	0.13	0.10	7305898
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	0.50	0.73	0.50	<0.50	0.50	7305898
Dissolved Zinc (Zn)	ug/L	1500	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7305898
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7305898
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PIG115			PIG145			PIG146			PIG147		
Sampling Date		2021/04/14			2021/04/14			2021/04/14			2021/04/14		
COC Number		819873-01-01			819873-02-01			819873-02-01			819873-02-01		
	UNITS	56-II	RDL	QC Batch	P17	RDL	P12	RDL	P6-IR	RDL	QC Batch		
Metals													
Dissolved Aluminum (Al)	ug/L	19	4.9	7305898	100	4.9	<4.9	4.9	15	4.9	7304877		
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7305898	<0.50	0.50	<0.50	0.50	<0.50	0.50	7304877		
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7305898	3.8	1.0	2.1	1.0	3.4	1.0	7304877		
Dissolved Barium (Ba)	ug/L	31	2.0	7305898	5.5	2.0	34	2.0	8.2	2.0	7304877		
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7305898	<0.40	0.40	<0.40	0.40	<0.40	0.40	7304877		
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7305898	<1.0	1.0	<1.0	1.0	<1.0	1.0	7304877		
Dissolved Boron (B)	ug/L	190	10	7305898	570	10	480	10	620	10	7304877		
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7305898	<0.090	0.090	<0.090	0.090	<0.090	0.090	7304877		
Dissolved Calcium (Ca)	ug/L	160000	400	7305898	4400	200	98000	200	7600	200	7304877		
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7305898	<5.0	5.0	<5.0	5.0	<5.0	5.0	7304877		
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7305898	<0.50	0.50	<0.50	0.50	<0.50	0.50	7304877		
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7305898	<0.90	0.90	<0.90	0.90	<0.90	0.90	7304877		
Dissolved Iron (Fe)	ug/L	<100	100	7305898	<100	100	<100	100	<100	100	7304877		
Dissolved Lead (Pb)	ug/L	1.0	0.50	7305898	<0.50	0.50	<0.50	0.50	<0.50	0.50	7304877		
Dissolved Lithium (Li)	ug/L	37	5.0	7305898	20	5.0	32	5.0	27	5.0	7304877		
Dissolved Magnesium (Mg)	ug/L	61000	50	7305898	490	50	14000	50	420	50	7304877		
Dissolved Manganese (Mn)	ug/L	63	2.0	7305898	<2.0	2.0	2.4	2.0	<2.0	2.0	7304877		
Dissolved Molybdenum (Mo)	ug/L	1.6	0.50	7305898	58	0.50	11	0.50	72	0.50	7304877		
Dissolved Nickel (Ni)	ug/L	1.1	1.0	7305898	23	1.0	4.2	1.0	23	1.0	7304877		
Dissolved Phosphorus (P)	ug/L	<100	100	7305898	400	100	<100	100	320	100	7304877		
Dissolved Potassium (K)	ug/L	7100	200	7305898	110000	200	54000	200	140000	200	7304877		
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7305898	4.4	2.0	7.3	2.0	3.2	2.0	7304877		
Dissolved Silicon (Si)	ug/L	4800	50	7305898	9600	50	9900	50	10000	50	7304877		
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7305898	<0.090	0.090	<0.090	0.090	<0.090	0.090	7304877		
Dissolved Sodium (Na)	ug/L	160000	100	7305898	1900000	500	250000	100	2300000	500	7304877		
Dissolved Strontium (Sr)	ug/L	5200	1.0	7305898	690	1.0	3100	1.0	870	1.0	7304877		
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7305898	<1.0	1.0	<1.0	1.0	<1.0	1.0	7304877		
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7305898	<0.050	0.050	<0.050	0.050	<0.050	0.050	7304877		
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7305898	<1.0	1.0	<1.0	1.0	<1.0	1.0	7304877		
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7305898	<5.0	5.0	<5.0	5.0	<5.0	5.0	7304877		
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7305898	20	1.0	6.3	1.0	21	1.0	7304877		
Dissolved Uranium (U)	ug/L	2.2	0.10	7305898	<0.10	0.10	<0.10	0.10	<0.10	0.10	7304877		
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7305898	1.9	0.50	<0.50	0.50	1.3	0.50	7304877		
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7305898	<5.0	5.0	<5.0	5.0	<5.0	5.0	7304877		
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7305898	<1.0	1.0	<1.0	1.0	<1.0	1.0	7304877		
RDL = Reportable Detection Limit													
QC Batch = Quality Control Batch													



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PIG148		PIG149		PIG150		
Sampling Date		2021/04/14		2021/04/14		2021/04/14		
COC Number		819873-02-01		819873-02-01		819873-02-01		
	UNITS	P9-I	RDL	P9-II	QC Batch	P9-IIIR	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<25	25	<4.9	7305898	11	4.9	7304877
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	7305898	<0.50	0.50	7304877
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	7305898	<1.0	1.0	7304877
Dissolved Barium (Ba)	ug/L	20	10	26	7305898	10	2.0	7304877
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	7305898	<0.40	0.40	7304877
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	7305898	<1.0	1.0	7304877
Dissolved Boron (B)	ug/L	7300	50	92	7305898	1100	10	7304877
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	7305898	<0.090	0.090	7304877
Dissolved Calcium (Ca)	ug/L	820000	1000	300000	7305898	370000	200	7304877
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	7305898	<5.0	5.0	7304877
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	7305898	<0.50	0.50	7304877
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	7305898	<0.90	0.90	7304877
Dissolved Iron (Fe)	ug/L	<500	500	<100	7305898	<100	100	7304877
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	7305898	<0.50	0.50	7304877
Dissolved Lithium (Li)	ug/L	2200	25	20	7305898	95	5.0	7304877
Dissolved Magnesium (Mg)	ug/L	210000	250	42000	7305898	51000	50	7304877
Dissolved Manganese (Mn)	ug/L	69	10	16	7305898	37	2.0	7304877
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	6.1	7305898	1.0	0.50	7304877
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	6.5	7305898	1.8	1.0	7304877
Dissolved Phosphorus (P)	ug/L	<500	500	<100	7305898	<100	100	7304877
Dissolved Potassium (K)	ug/L	51000	1000	4300	7305898	21000	200	7304877
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	7305898	<2.0	2.0	7304877
Dissolved Silicon (Si)	ug/L	6300	250	3000	7305898	3400	50	7304877
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	7305898	<0.090	0.090	7304877
Dissolved Sodium (Na)	ug/L	1300000	500	220000	7305898	370000	100	7304877
Dissolved Strontium (Sr)	ug/L	14000	5.0	2400	7305898	4000	1.0	7304877
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	7305898	<1.0	1.0	7304877
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	7305898	<0.050	0.050	7304877
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	7305898	<1.0	1.0	7304877
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	7305898	<5.0	5.0	7304877
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	7305898	14	1.0	7304877
Dissolved Uranium (U)	ug/L	<0.50	0.50	8.3	7305898	2.8	0.10	7304877
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	7305898	<0.50	0.50	7304877
Dissolved Zinc (Zn)	ug/L	<25	25	<5.0	7305898	<5.0	5.0	7304877
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	7305898	<1.0	1.0	7304877
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
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BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PIG107		
Sampling Date		2021/04/13		
COC Number		819873-01-01		
	UNITS	33-II	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<0.20	0.20	7307316
Acenaphthylene	ug/L	<0.20	0.20	7307316
Anthracene	ug/L	<0.20	0.20	7307316
Benzo(a)anthracene	ug/L	0.36	0.20	7307316
Benzo(a)pyrene	ug/L	0.33	0.20	7307316
Benzo(b/j)fluoranthene	ug/L	0.41	0.20	7307316
Benzo(g,h,i)perylene	ug/L	0.31	0.20	7307316
Benzo(k)fluoranthene	ug/L	<0.20	0.20	7307316
1-Chloronaphthalene	ug/L	<1.0	1.0	7307316
2-Chloronaphthalene	ug/L	<0.50	0.50	7307316
Chrysene	ug/L	0.23	0.20	7307316
Dibenzo(a,h)anthracene	ug/L	<0.20	0.20	7307316
Fluoranthene	ug/L	0.72	0.20	7307316
Fluorene	ug/L	<0.20	0.20	7307316
Indeno(1,2,3-cd)pyrene	ug/L	0.29	0.20	7307316
1-Methylnaphthalene	ug/L	<0.20	0.20	7307316
2-Methylnaphthalene	ug/L	<0.20	0.20	7307316
Naphthalene	ug/L	0.32	0.20	7307316
5-Nitroacenaphthene	ug/L	<1.0	1.0	7307316
Perylene	ug/L	<0.20	0.20	7307316
Phenanthrene	ug/L	0.49	0.20	7307316
Pyrene	ug/L	0.65	0.20	7307316
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7307316
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7307316
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7307316
Hexachlorobenzene	ug/L	<0.50	0.50	7307316
Pentachlorobenzene	ug/L	<0.50	0.50	7307316
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	0.50	7307316
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	0.50	7307316
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	7307316
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	7307316
1,3,5-Trichlorobenzene	ug/L	<0.50	0.50	7307316
2-Chlorophenol	ug/L	<0.30	0.30	7307316
4-Chloro-3-Methylphenol	ug/L	<0.50	0.50	7307316
m/p-Cresol	ug/L	<0.50	0.50	7307316
o-Cresol	ug/L	<0.50	0.50	7307316
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PIG107		
Sampling Date		2021/04/13		
COC Number		819873-01-01		
	UNITS	33-II	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	0.50	7307316
2,3-Dichlorophenol	ug/L	<0.50	0.50	7307316
2,4-Dichlorophenol	ug/L	<0.30	0.30	7307316
2,5-Dichlorophenol	ug/L	<0.50	0.50	7307316
2,6-Dichlorophenol	ug/L	<0.50	0.50	7307316
3,4-Dichlorophenol	ug/L	<0.50	0.50	7307316
3,5-Dichlorophenol	ug/L	<0.50	0.50	7307316
2,4-Dimethylphenol	ug/L	<0.50	0.50	7307316
2,4-Dinitrophenol	ug/L	<2.0	2.0	7307316
4,6-Dinitro-2-methylphenol	ug/L	<2.0	2.0	7307316
2-Nitrophenol	ug/L	<0.50	0.50	7307316
4-Nitrophenol	ug/L	<1.4	1.4	7307316
Pentachlorophenol	ug/L	<1.0	1.0	7307316
Phenol	ug/L	<0.50	0.50	7307316
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	0.40	7307316
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	0.50	7307316
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	0.50	7307316
2,3,4-Trichlorophenol	ug/L	<0.50	0.50	7307316
2,3,5-Trichlorophenol	ug/L	<0.50	0.50	7307316
2,3,6-Trichlorophenol	ug/L	<0.50	0.50	7307316
2,4,5-Trichlorophenol	ug/L	<0.50	0.50	7307316
2,4,6-Trichlorophenol	ug/L	<0.50	0.50	7307316
3,4,5-Trichlorophenol	ug/L	<0.50	0.50	7307316
Benzyl butyl phthalate	ug/L	<0.50	0.50	7307316
Biphenyl	ug/L	<0.50	0.50	7307316
Bis(2-chloroethyl)ether	ug/L	<0.50	0.50	7307316
Bis(2-chloroethoxy)methane	ug/L	<0.50	0.50	7307316
Bis(2-chloroisopropyl)ether	ug/L	<0.50	0.50	7307316
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	2.0	7307316
4-Bromophenyl phenyl ether	ug/L	<0.30	0.30	7307316
p-Chloroaniline	ug/L	<1.0	1.0	7307316
4-Chlorophenyl phenyl ether	ug/L	<0.50	0.50	7307316
Di-N-butyl phthalate	ug/L	<2.0	2.0	7307316
di-n-octyl phthalate	ug/L	<0.80	0.80	7307316
2,4-Dinitrotoluene	ug/L	<0.50	0.50	7307316
Diethyl phthalate	ug/L	<1.0	1.0	7307316
3,3'-Dichlorobenzidine	ug/L	<0.50	0.50	7307316
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PIG107		
Sampling Date		2021/04/13		
COC Number		819873-01-01		
	UNITS	33-II	RDL	QC Batch
Dimethyl phthalate	ug/L	<1.0	1.0	7307316
2,6-Dinitrotoluene	ug/L	<0.50	0.50	7307316
Diphenyl Ether	ug/L	<0.30	0.30	7307316
Hexachlorobutadiene	ug/L	<0.40	0.40	7307316
Hexachlorocyclopentadiene	ug/L	<2.0	2.0	7307316
Hexachloroethane	ug/L	<0.50	0.50	7307316
Isophorone	ug/L	<0.50	0.50	7307316
Nitrobenzene	ug/L	<0.50	0.50	7307316
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	1.0	7307316
N-Nitroso-di-n-propylamine	ug/L	<0.50	0.50	7307316
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	101		7307316
2-Fluorobiphenyl	%	83		7307316
2-Fluorophenol	%	35		7307316
D14-Terphenyl	%	98		7307316
D5-Nitrobenzene	%	73		7307316
D5-Phenol	%	27		7307316
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PIG107	PIG107		
Sampling Date		2021/04/13	2021/04/13		
COC Number		819873-01-01	819873-01-01		
	UNITS	33-II	33-II Lab-Dup	RDL	QC Batch
Volatile Organics					
Acetone (2-Propanone)	ug/L	<25	<25	25	7300712
Benzene	ug/L	<0.25	<0.25	0.25	7300712
Bromodichloromethane	ug/L	<0.25	<0.25	0.25	7300712
Acrolein	ug/L	<25	<25	25	7302289
Bromoform	ug/L	<0.50	<0.50	0.50	7300712
Bromomethane	ug/L	<1.3	<1.3	1.3	7300712
Carbon Tetrachloride	ug/L	<0.25	<0.25	0.25	7300712
Chlorobenzene	ug/L	<0.25	<0.25	0.25	7300712
Chloroethane	ug/L	<0.50	<0.50	0.50	7300712
Chloroform	ug/L	<0.25	<0.25	0.25	7300712
Acrylonitrile	ug/L	<13	<13	13	7302289
Chloromethane	ug/L	<1.3	<1.3	1.3	7300712
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	7300712
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7300712
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7300712
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7300712
1,1-Dichloroethane	ug/L	<0.25	<0.25	0.25	7300712
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	7300712
1,1-Dichloroethylene	ug/L	<0.25	<0.25	0.25	7300712
cis-1,2-Dichloroethylene	ug/L	<0.25	<0.25	0.25	7300712
trans-1,2-Dichloroethylene	ug/L	<0.25	<0.25	0.25	7300712
1,2-Dichloropropane	ug/L	<0.25	<0.25	0.25	7300712
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50	0.50	7300712
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50	0.50	7300712
Ethylbenzene	ug/L	<0.25	<0.25	0.25	7300712
Ethylene Dibromide	ug/L	<0.50	<0.50	0.50	7300712
Methylene Chloride(Dichloromethane)	ug/L	<1.3	<1.3	1.3	7300712
Methyl Ethyl Ketone (2-Butanone)	ug/L	<13	<13	13	7300712
Methyl Isobutyl Ketone	ug/L	<13	<13	13	7300712
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	7300712
Styrene	ug/L	<0.50	<0.50	0.50	7300712
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	7300712
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	7300712
Tetrachloroethylene	ug/L	<0.25	<0.25	0.25	7300712
Toluene	ug/L	<0.50	<0.50	0.50	7300712
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate					



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PIG107	PIG107		
Sampling Date		2021/04/13	2021/04/13		
COC Number		819873-01-01	819873-01-01		
	UNITS	33-II	33-II Lab-Dup	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.25	<0.25	0.25	7300712
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	7300712
Trichloroethylene	ug/L	<0.25	<0.25	0.25	7300712
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	7300712
Vinyl Chloride	ug/L	<0.50	<0.50	0.50	7300712
p+m-Xylene	ug/L	<0.25	<0.25	0.25	7300712
Methyl Butyl Ketone (2-Hexanone)	ug/L	<13	<13	13	7302289
o-Xylene	ug/L	<0.25	<0.25	0.25	7300712
Total Xylenes	ug/L	<0.25	<0.25	0.25	7300712
Total Trihalomethanes	ug/L	<0.50	<0.50	0.50	7300712
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	101	103		7300712
D4-1,2-Dichloroethane	%	93	94		7300712
D8-Toluene	%	98	99		7300712
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate					



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

O.REG 153 OC PESTICIDES (WATER)

BV Labs ID		PIG107		
Sampling Date		2021/04/13		
COC Number		819873-01-01		
	UNITS	33-II	RDL	QC Batch
Calculated Parameters				
Chlordane (Total)	ug/L	<0.005	0.005	7301904
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	7301904
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	7301904
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	7301904
Total Endosulfan	ug/L	<0.005	0.005	7301904
Total PCB	ug/L	<0.05	0.05	7301904
Pesticides & Herbicides				
Aldrin	ug/L	<0.005	0.005	7307999
Dieldrin	ug/L	<0.005	0.005	7307999
a-Chlordane	ug/L	<0.005	0.005	7307999
g-Chlordane	ug/L	<0.005	0.005	7307999
o,p-DDD	ug/L	<0.005	0.005	7307999
p,p-DDD	ug/L	<0.005	0.005	7307999
o,p-DDE	ug/L	<0.005	0.005	7307999
p,p-DDE	ug/L	<0.005	0.005	7307999
o,p-DDT	ug/L	<0.005	0.005	7307999
p,p-DDT	ug/L	<0.005	0.005	7307999
Lindane	ug/L	<0.003	0.003	7307999
Endosulfan I (alpha)	ug/L	<0.005	0.005	7307999
Endosulfan II (beta)	ug/L	<0.005	0.005	7307999
Endrin	ug/L	<0.005	0.005	7307999
Heptachlor	ug/L	<0.005	0.005	7307999
Heptachlor epoxide	ug/L	<0.005	0.005	7307999
Hexachlorobenzene	ug/L	<0.005	0.005	7307999
Hexachlorobutadiene	ug/L	<0.009	0.009	7307999
Hexachloroethane	ug/L	<0.01	0.01	7307999
Methoxychlor	ug/L	<0.01	0.01	7307999
Aroclor 1242	ug/L	<0.05	0.05	7307999
Aroclor 1248	ug/L	<0.05	0.05	7307999
Aroclor 1254	ug/L	<0.05	0.05	7307999
Aroclor 1260	ug/L	<0.05	0.05	7307999
alpha-BHC	ug/L	<0.005	0.005	7307999
beta-BHC	ug/L	<0.03 (1)	0.03	7307999
Endrin aldehyde	ug/L	<0.005	0.005	7307999
Endrin ketone	ug/L	<0.005	0.005	7307999
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection Limit was raised due to matrix interferences.				



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

O.REG 153 OC PESTICIDES (WATER)

BV Labs ID		PIG107		
Sampling Date		2021/04/13		
COC Number		819873-01-01		
	UNITS	33-II	RDL	QC Batch
Mirex	ug/L	<0.005	0.005	7307999
Toxaphene	ug/L	<0.2	0.2	7307999
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	32 (1)		7307999
Decachlorobiphenyl	%	67		7307999
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Surrogate recovery was below the control limit as per Ont. Reg. 153, however, this recovery is still within Maxxam's performance based limits. Results reported with recoveries within this range are still valid but may have an associated low bias.				



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PIG106
Sample ID: 33-I
Matrix: Water

Collected: 2021/04/13
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307332	N/A	2021/04/22	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG106 Dup
Sample ID: 33-I
Matrix: Water

Collected: 2021/04/13
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi

BV Labs ID: PIG107
Sample ID: 33-II
Matrix: Water

Collected: 2021/04/13
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7307316	2021/04/20	2021/04/20	Anh Lieu
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7304373	2021/04/17	2021/04/22	Surleen Kaur Romana
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7307999	2021/04/20	2021/04/21	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7301904	N/A	2021/04/18	Automated Statchk
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PIG107
Sample ID: 33-II
Matrix: Water

Collected: 2021/04/13
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds in Water	P&T/MS	7300712	N/A	2021/04/17	Mariana Cojocar
Non-Routine Volatile Organic Compounds	P&T/MS	7302289	N/A	2021/04/18	Mariana Cojocar

BV Labs ID: PIG107 Dup
Sample ID: 33-II
Matrix: Water

Collected: 2021/04/13
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Volatile Organic Compounds in Water	P&T/MS	7300712	N/A	2021/04/17	Mariana Cojocar
Non-Routine Volatile Organic Compounds	P&T/MS	7302289	N/A	2021/04/18	Mariana Cojocar

BV Labs ID: PIG108
Sample ID: ST1
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307332	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7306461	2021/04/19	2021/04/20	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG109
Sample ID: ST2
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal



TEST SUMMARY

BV Labs ID: PIG109
Sample ID: ST2
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7305374	N/A	2021/04/20	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG109 Dup
Sample ID: ST2
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7305374	N/A	2021/04/20	Avneet Kour Sudan

BV Labs ID: PIG110
Sample ID: G24
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO ₃)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH ₄	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG111
Sample ID: P16
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO ₃)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PIG111
Sample ID: P16
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7306461	2021/04/19	2021/04/20	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG111 Dup
Sample ID: P16
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai

BV Labs ID: PIG112
Sample ID: P14
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PIG113
Sample ID: P15
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307332	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/21	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG114
Sample ID: 56-I
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307332	N/A	2021/04/22	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG115
Sample ID: 56-II
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PIG115
Sample ID: 56-II
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304803	N/A	2021/04/19	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307332	N/A	2021/04/22	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7306461	2021/04/19	2021/04/20	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG115 Dup
Sample ID: 56-II
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304803	N/A	2021/04/19	Chandra Nandlal
Phenols (4AAP)	TECH/PHEN	7307332	N/A	2021/04/22	Bramdeo Motiram
Total Dissolved Solids	BAL	7306461	2021/04/19	2021/04/20	Shivani Desai

BV Labs ID: PIG145
Sample ID: P17
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7304877	N/A	2021/04/19	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304803	N/A	2021/04/19	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7306461	2021/04/19	2021/04/20	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/21	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh



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BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PIG145 Dup
Sample ID: P17
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG146
Sample ID: P12
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7304877	N/A	2021/04/19	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307332	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7306461	2021/04/19	2021/04/20	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG147
Sample ID: P6-IR
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7304877	N/A	2021/04/19	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/23	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7306461	2021/04/19	2021/04/20	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/21	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh



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BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PIG148
Sample ID: P9-I
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/22	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG148 Dup
Sample ID: P9-I
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/22	Bramdeo Motiram

BV Labs ID: PIG149
Sample ID: P9-II
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304871	N/A	2021/04/19	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7305898	N/A	2021/04/20	Nan Raykha
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307318	N/A	2021/04/22	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh



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BV Labs Job #: C1A0241
Report Date: 2021/04/23

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PIG149 Dup
Sample ID: P9-II
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7304871	N/A	2021/04/19	Fari Dehdezi

BV Labs ID: PIG150
Sample ID: P9-IIIIR
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7305613	N/A	2021/04/19	Surinder Rai
Anions	IC	7304809	N/A	2021/04/20	Fari Dehdezi
Conductivity	AT	7305615	N/A	2021/04/19	Surinder Rai
Fluoride	ISE	7305609	2021/04/19	2021/04/19	Surinder Rai
Hardness (calculated as CaCO3)		7300551	N/A	2021/04/19	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7304877	N/A	2021/04/19	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7306394	N/A	2021/04/20	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7304805	N/A	2021/04/20	Chandra Nandlal
pH	AT	7305610	2021/04/19	2021/04/19	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7307332	N/A	2021/04/22	Bramdeo Motiram
Orthophosphate	KONE	7304808	N/A	2021/04/19	Avneet Kour Sudan
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7306436	2021/04/19	2021/04/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7306447	N/A	2021/04/20	Nimarta Singh

BV Labs ID: PIG150 Dup
Sample ID: P9-IIIIR
Matrix: Water

Collected: 2021/04/14
Shipped:
Received: 2021/04/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7303927	2021/04/19	2021/04/20	Sandeep Kaur



GENERAL COMMENTS

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

Package 1	0.7°C
Package 2	1.0°C
Package 3	0.7°C
Package 4	1.0°C

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

Sample PIG107 [33-II] : VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

Sample PIG108 [ST1] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample PIG109 [ST2] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample PIG112 [P14] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample PIG113 [P15] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample PIG145 [P17] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample PIG147 [P6-IR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample PIG148 [P9-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
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 #: C1A0241
Report Date: 2021/04/23

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
7300712	4-Bromofluorobenzene	2021/04/17	106	70 - 130	104	70 - 130	101	%				
7300712	D4-1,2-Dichloroethane	2021/04/17	89	70 - 130	91	70 - 130	93	%				
7300712	D8-Toluene	2021/04/17	98	70 - 130	101	70 - 130	98	%				
7307316	2,4,6-Tribromophenol	2021/04/20	87	10 - 130	82	10 - 130	67	%				
7307316	2-Fluorobiphenyl	2021/04/20	80	30 - 130	75	30 - 130	82	%				
7307316	2-Fluorophenol	2021/04/20	50	10 - 130	49	10 - 130	45	%				
7307316	D14-Terphenyl	2021/04/20	96	30 - 130	96	30 - 130	95	%				
7307316	D5-Nitrobenzene	2021/04/20	94	30 - 130	89	30 - 130	91	%				
7307316	D5-Phenol	2021/04/20	34	10 - 130	34	10 - 130	32	%				
7307999	2,4,5,6-Tetrachloro-m-xylene	2021/04/21	74	50 - 130	91	50 - 130	86	%				
7307999	Decachlorobiphenyl	2021/04/21	82	50 - 130	93	50 - 130	88	%				
7300712	1,1,1,2-Tetrachloroethane	2021/04/17	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7300712	1,1,1-Trichloroethane	2021/04/17	95	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7300712	1,1,2,2-Tetrachloroethane	2021/04/17	98	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
7300712	1,1,2-Trichloroethane	2021/04/17	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7300712	1,1-Dichloroethane	2021/04/17	91	70 - 130	93	70 - 130	<0.10	ug/L	NC	30		
7300712	1,1-Dichloroethylene	2021/04/17	93	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7300712	1,2-Dichlorobenzene	2021/04/17	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7300712	1,2-Dichloroethane	2021/04/17	84	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
7300712	1,2-Dichloropropane	2021/04/17	97	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7300712	1,3-Dichlorobenzene	2021/04/17	93	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7300712	1,4-Dichlorobenzene	2021/04/17	107	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7300712	Acetone (2-Propanone)	2021/04/17	81	60 - 140	84	60 - 140	<10	ug/L	NC	30		
7300712	Benzene	2021/04/17	91	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7300712	Bromodichloromethane	2021/04/17	97	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7300712	Bromoform	2021/04/17	97	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7300712	Bromomethane	2021/04/17	93	60 - 140	71	60 - 140	<0.50	ug/L	NC	30		
7300712	Carbon Tetrachloride	2021/04/17	99	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7300712	Chlorobenzene	2021/04/17	96	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7300712	Chloroethane	2021/04/17	94	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
7300712	Chloroform	2021/04/17	92	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		



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BV Labs Job #: C1A0241
Report Date: 2021/04/23

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
7300712	Chloromethane	2021/04/17	94	60 - 140	91	60 - 140	<0.50	ug/L	NC	30		
7300712	cis-1,2-Dichloroethylene	2021/04/17	99	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7300712	cis-1,3-Dichloropropene	2021/04/17	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7300712	Dibromochloromethane	2021/04/17	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7300712	Ethylbenzene	2021/04/17	93	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7300712	Ethylene Dibromide	2021/04/17	90	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
7300712	Methyl Ethyl Ketone (2-Butanone)	2021/04/17	87	60 - 140	86	60 - 140	<5.0	ug/L	NC	30		
7300712	Methyl Isobutyl Ketone	2021/04/17	86	70 - 130	85	70 - 130	<5.0	ug/L	NC	30		
7300712	Methyl t-butyl ether (MTBE)	2021/04/17	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7300712	Methylene Chloride(Dichloromethane)	2021/04/17	100	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
7300712	o-Xylene	2021/04/17	95	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7300712	p+m-Xylene	2021/04/17	101	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7300712	Styrene	2021/04/17	108	70 - 130	110	70 - 130	<0.20	ug/L	NC	30		
7300712	Tetrachloroethylene	2021/04/17	97	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7300712	Toluene	2021/04/17	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
7300712	Total Trihalomethanes	2021/04/17					<0.20	ug/L	NC	30		
7300712	Total Xylenes	2021/04/17					<0.10	ug/L	NC	30		
7300712	trans-1,2-Dichloroethylene	2021/04/17	99	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7300712	trans-1,3-Dichloropropene	2021/04/17	98	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7300712	Trichloroethylene	2021/04/17	105	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7300712	Trichlorofluoromethane (FREON 11)	2021/04/17	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7300712	Vinyl Chloride	2021/04/17	99	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7302289	Acrolein	2021/04/18	103	60 - 140	108	60 - 140	<10	ug/L	NC	30		
7302289	Acrylonitrile	2021/04/18	98	60 - 140	102	60 - 140	<5.0	ug/L	NC	30		
7302289	Methyl Butyl Ketone (2-Hexanone)	2021/04/18			108	60 - 140			NC	30		
7303927	Total Dissolved Solids	2021/04/20					<10	mg/L	0.77	25	100	90 - 110
7304373	Total BOD	2021/04/22					<2	mg/L	NC	30	92	80 - 120
7304803	Nitrate (N)	2021/04/19	107	80 - 120	106	80 - 120	<0.10	mg/L	NC	20		
7304803	Nitrite (N)	2021/04/19	110	80 - 120	102	80 - 120	<0.010	mg/L	NC	20		
7304805	Nitrate (N)	2021/04/20	101	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
7304805	Nitrite (N)	2021/04/20	104	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7304808	Orthophosphate (P)	2021/04/19	106	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7304809	Dissolved Bromide (Br-)	2021/04/20	107	80 - 120	111	80 - 120	<1.0	mg/L	NC	20		
7304809	Dissolved Chloride (Cl-)	2021/04/20	NC	80 - 120	98	70 - 130	<1.0	mg/L	1.2	20		
7304809	Dissolved Sulphate (SO4)	2021/04/20	NC	80 - 120	101	80 - 120	<1.0	mg/L	1.5	20		
7304871	Dissolved Bromide (Br-)	2021/04/19	106	80 - 120	110	80 - 120	<1.0	mg/L	NC	20		
7304871	Dissolved Chloride (Cl-)	2021/04/19	NC	80 - 120	97	70 - 130	<1.0	mg/L	1.7	20		
7304871	Dissolved Sulphate (SO4)	2021/04/19	NC	80 - 120	100	80 - 120	<1.0	mg/L	1.3	20		
7304877	Dissolved Aluminum (Al)	2021/04/19	102	80 - 120	102	80 - 120	<4.9	ug/L				
7304877	Dissolved Antimony (Sb)	2021/04/19	107	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7304877	Dissolved Arsenic (As)	2021/04/19	104	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7304877	Dissolved Barium (Ba)	2021/04/19	103	80 - 120	102	80 - 120	<2.0	ug/L	0.76	20		
7304877	Dissolved Beryllium (Be)	2021/04/19	105	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7304877	Dissolved Bismuth (Bi)	2021/04/19	98	80 - 120	98	80 - 120	<1.0	ug/L				
7304877	Dissolved Boron (B)	2021/04/19	104	80 - 120	96	80 - 120	<10	ug/L	2.5	20		
7304877	Dissolved Cadmium (Cd)	2021/04/19	102	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7304877	Dissolved Calcium (Ca)	2021/04/19	NC	80 - 120	101	80 - 120	<200	ug/L				
7304877	Dissolved Chromium (Cr)	2021/04/19	100	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7304877	Dissolved Cobalt (Co)	2021/04/19	98	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7304877	Dissolved Copper (Cu)	2021/04/19	102	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7304877	Dissolved Iron (Fe)	2021/04/19	98	80 - 120	99	80 - 120	<100	ug/L				
7304877	Dissolved Lead (Pb)	2021/04/19	96	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7304877	Dissolved Lithium (Li)	2021/04/19	112	80 - 120	106	80 - 120	<5.0	ug/L				
7304877	Dissolved Magnesium (Mg)	2021/04/19	NC	80 - 120	98	80 - 120	<50	ug/L				
7304877	Dissolved Manganese (Mn)	2021/04/19	99	80 - 120	101	80 - 120	<2.0	ug/L				
7304877	Dissolved Molybdenum (Mo)	2021/04/19	103	80 - 120	100	80 - 120	<0.50	ug/L	3.4	20		
7304877	Dissolved Nickel (Ni)	2021/04/19	98	80 - 120	99	80 - 120	<1.0	ug/L	9.3	20		
7304877	Dissolved Phosphorus (P)	2021/04/19	103	80 - 120	103	80 - 120	<100	ug/L				
7304877	Dissolved Potassium (K)	2021/04/19	106	80 - 120	104	80 - 120	<200	ug/L				
7304877	Dissolved Selenium (Se)	2021/04/19	101	80 - 120	104	80 - 120	<2.0	ug/L	NC	20		
7304877	Dissolved Silicon (Si)	2021/04/19	104	80 - 120	101	80 - 120	<50	ug/L				
7304877	Dissolved Silver (Ag)	2021/04/19	98	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7304877	Dissolved Sodium (Na)	2021/04/19	NC	80 - 120	101	80 - 120	<100	ug/L				
7304877	Dissolved Strontium (Sr)	2021/04/19	NC	80 - 120	100	80 - 120	<1.0	ug/L				
7304877	Dissolved Tellurium (Te)	2021/04/19	108	80 - 120	102	80 - 120	<1.0	ug/L				
7304877	Dissolved Thallium (Tl)	2021/04/19	98	80 - 120	104	80 - 120	<0.050	ug/L	NC	20		
7304877	Dissolved Tin (Sn)	2021/04/19	106	80 - 120	102	80 - 120	<1.0	ug/L				
7304877	Dissolved Titanium (Ti)	2021/04/19	103	80 - 120	101	80 - 120	<5.0	ug/L				
7304877	Dissolved Tungsten (W)	2021/04/19	98	80 - 120	102	80 - 120	<1.0	ug/L				
7304877	Dissolved Uranium (U)	2021/04/19	97	80 - 120	104	80 - 120	<0.10	ug/L	3.0	20		
7304877	Dissolved Vanadium (V)	2021/04/19	102	80 - 120	101	80 - 120	<0.50	ug/L	3.0	20		
7304877	Dissolved Zinc (Zn)	2021/04/19	99	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7304877	Dissolved Zirconium (Zr)	2021/04/19	110	80 - 120	105	80 - 120	<1.0	ug/L				
7305374	Orthophosphate (P)	2021/04/20	101	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
7305609	Fluoride (F-)	2021/04/19	94	80 - 120	100	80 - 120	<0.10	mg/L	0.47	20		
7305610	pH	2021/04/19			102	98 - 103			0.74	N/A		
7305613	Alkalinity (Total as CaCO3)	2021/04/19			99	85 - 115	<1.0	mg/L	0.093	20		
7305615	Conductivity	2021/04/19			102	85 - 115	1.3, RDL=1.0	umho/cm	0	25		
7305898	Dissolved Aluminum (Al)	2021/04/20	97	80 - 120	102	80 - 120	<4.9	ug/L	11	20		
7305898	Dissolved Antimony (Sb)	2021/04/20	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7305898	Dissolved Arsenic (As)	2021/04/20	98	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7305898	Dissolved Barium (Ba)	2021/04/20	100	80 - 120	100	80 - 120	<2.0	ug/L	1.1	20		
7305898	Dissolved Beryllium (Be)	2021/04/20	105	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
7305898	Dissolved Bismuth (Bi)	2021/04/20	94	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7305898	Dissolved Boron (B)	2021/04/20	99	80 - 120	99	80 - 120	<10	ug/L	0.62	20		
7305898	Dissolved Cadmium (Cd)	2021/04/20	98	80 - 120	100	80 - 120	<0.090	ug/L	0	20		
7305898	Dissolved Calcium (Ca)	2021/04/20	NC	80 - 120	101	80 - 120	<200	ug/L	1.9	20		
7305898	Dissolved Chromium (Cr)	2021/04/20	93	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7305898	Dissolved Cobalt (Co)	2021/04/20	97	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7305898	Dissolved Copper (Cu)	2021/04/20	97	80 - 120	98	80 - 120	<0.90	ug/L	1.2	20		
7305898	Dissolved Iron (Fe)	2021/04/20	96	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7305898	Dissolved Lead (Pb)	2021/04/20	94	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7305898	Dissolved Lithium (Li)	2021/04/20	108	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
7305898	Dissolved Magnesium (Mg)	2021/04/20	94	80 - 120	100	80 - 120	<50	ug/L	1.3	20		
7305898	Dissolved Manganese (Mn)	2021/04/20	95	80 - 120	98	80 - 120	<2.0	ug/L	1.6	20		
7305898	Dissolved Molybdenum (Mo)	2021/04/20	102	80 - 120	101	80 - 120	<0.50	ug/L	0.11	20		
7305898	Dissolved Nickel (Ni)	2021/04/20	93	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7305898	Dissolved Phosphorus (P)	2021/04/20	105	80 - 120	110	80 - 120	<100	ug/L	15	20		
7305898	Dissolved Potassium (K)	2021/04/20	97	80 - 120	102	80 - 120	<200	ug/L	1.2	20		
7305898	Dissolved Selenium (Se)	2021/04/20	96	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7305898	Dissolved Silicon (Si)	2021/04/20	96	80 - 120	101	80 - 120	<50	ug/L	0.68	20		
7305898	Dissolved Silver (Ag)	2021/04/20	78 (1)	80 - 120	87	80 - 120	<0.090	ug/L	NC	20		
7305898	Dissolved Sodium (Na)	2021/04/20	NC	80 - 120	98	80 - 120	<100	ug/L	2.2	20		
7305898	Dissolved Strontium (Sr)	2021/04/20	92	80 - 120	97	80 - 120	<1.0	ug/L	2.5	20		
7305898	Dissolved Tellurium (Te)	2021/04/20	98	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7305898	Dissolved Thallium (Tl)	2021/04/20	97	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
7305898	Dissolved Tin (Sn)	2021/04/20	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7305898	Dissolved Titanium (Ti)	2021/04/20	95	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7305898	Dissolved Tungsten (W)	2021/04/20	97	80 - 120	97	80 - 120	<1.0	ug/L	2.2	20		
7305898	Dissolved Uranium (U)	2021/04/20	94	80 - 120	97	80 - 120	<0.10	ug/L	2.0	20		
7305898	Dissolved Vanadium (V)	2021/04/20	97	80 - 120	99	80 - 120	<0.50	ug/L	1.2	20		
7305898	Dissolved Zinc (Zn)	2021/04/20	94	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7305898	Dissolved Zirconium (Zr)	2021/04/20	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7306394	Total Ammonia-N	2021/04/20	84	75 - 125	101	80 - 120	<0.050	mg/L	0.45	20		
7306436	Total Kjeldahl Nitrogen (TKN)	2021/04/20	NC	80 - 120	98	80 - 120	<0.10	mg/L	0.23	20	97	80 - 120
7306447	Total Organic Carbon (TOC)	2021/04/20	NC	80 - 120	98	80 - 120	<0.40	mg/L	0.27	20		
7306461	Total Dissolved Solids	2021/04/20					<10	mg/L	5.6	25	95	90 - 110
7307316	1,2,3,4-Tetrachlorobenzene	2021/04/20	61	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7307316	1,2,3,5-Tetrachlorobenzene	2021/04/20	63	30 - 130	52	30 - 130	<0.50	ug/L	NC	40		
7307316	1,2,3-Trichlorobenzene	2021/04/20	66	30 - 130	56	30 - 130	<0.50	ug/L	NC	40		
7307316	1,2,4,5-Tetrachlorobenzene	2021/04/20	64	30 - 130	57	30 - 130	<0.50	ug/L	NC	40		
7307316	1,2,4-Trichlorobenzene	2021/04/20	65	30 - 130	54	30 - 130	<0.50	ug/L	NC	40		
7307316	1,2-Dichlorobenzene	2021/04/20	65	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7307316	1,3,5-Trichlorobenzene	2021/04/20	66	30 - 130	61	30 - 130	<0.50	ug/L	NC	40		
7307316	1,3-Dichlorobenzene	2021/04/20	56	30 - 130	45	30 - 130	<0.50	ug/L	NC	40		
7307316	1,4-Dichlorobenzene	2021/04/20	59	30 - 130	48	30 - 130	<0.50	ug/L	NC	40		
7307316	1-Chloronaphthalene	2021/04/20	61	30 - 130	59	30 - 130	<1.0	ug/L	NC	40		
7307316	1-Methylnaphthalene	2021/04/20	81	30 - 130	74	30 - 130	<0.20	ug/L	NC	40		
7307316	2,3,4,5-Tetrachlorophenol	2021/04/20	85	10 - 130	85	10 - 130	<0.40	ug/L	NC	40		
7307316	2,3,4,6-Tetrachlorophenol	2021/04/20	98	10 - 130	95	10 - 130	<0.50	ug/L	NC	40		
7307316	2,3,4-Trichlorophenol	2021/04/20	88	10 - 130	86	10 - 130	<0.50	ug/L	NC	40		
7307316	2,3,5,6-Tetrachlorophenol	2021/04/20	83	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7307316	2,3,5-Trichlorophenol	2021/04/20	88	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7307316	2,3,6-Trichlorophenol	2021/04/20	87	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7307316	2,3-Dichlorophenol	2021/04/20	81	10 - 130	79	10 - 130	<0.50	ug/L	NC	40		
7307316	2,4,5-Trichlorophenol	2021/04/20	97	10 - 130	90	10 - 130	<0.50	ug/L	NC	40		
7307316	2,4,6-Trichlorophenol	2021/04/20	91	10 - 130	86	10 - 130	<0.50	ug/L	NC	40		
7307316	2,4-Dichlorophenol	2021/04/20	86	10 - 130	83	10 - 130	<0.30	ug/L	NC	40		
7307316	2,4-Dimethylphenol	2021/04/20	42	10 - 130	51	10 - 130	<0.50	ug/L	NC	40		
7307316	2,4-Dinitrophenol	2021/04/20	84	10 - 130	78	10 - 130	<2.0	ug/L	NC	40		
7307316	2,4-Dinitrotoluene	2021/04/20	99	30 - 130	95	30 - 130	<0.50	ug/L	NC	40		
7307316	2,5-Dichlorophenol	2021/04/20	81	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7307316	2,6-Dichlorophenol	2021/04/20	85	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7307316	2,6-Dinitrotoluene	2021/04/20	89	30 - 130	85	30 - 130	<0.50	ug/L	NC	40		
7307316	2-Chloronaphthalene	2021/04/20	79	30 - 130	74	30 - 130	<0.50	ug/L	NC	40		
7307316	2-Chlorophenol	2021/04/20	83	10 - 130	80	10 - 130	<0.30	ug/L	NC	40		
7307316	2-Methylnaphthalene	2021/04/20	75	30 - 130	68	30 - 130	<0.20	ug/L	NC	40		
7307316	2-Nitrophenol	2021/04/20	90	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7307316	3,3'-Dichlorobenzidine	2021/04/20	22 (1)	30 - 130	82	30 - 130	<0.50	ug/L	NC	40		
7307316	3,4,5-Trichlorophenol	2021/04/20	88	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7307316	3,4-Dichlorophenol	2021/04/20	93	10 - 130	90	10 - 130	<0.50	ug/L	NC	40		
7307316	3,5-Dichlorophenol	2021/04/20	107	10 - 130	106	10 - 130	<0.50	ug/L	NC	40		
7307316	4,6-Dinitro-2-methylphenol	2021/04/20	102	10 - 130	97	10 - 130	<2.0	ug/L	NC	40		
7307316	4-Bromophenyl phenyl ether	2021/04/20	87	30 - 130	80	30 - 130	<0.30	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7307316	4-Chloro-3-Methylphenol	2021/04/20	84	10 - 130	82	10 - 130	<0.50	ug/L	NC	40		
7307316	4-Chlorophenyl phenyl ether	2021/04/20	83	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7307316	4-Nitrophenol	2021/04/20	35	10 - 130	39	10 - 130	<1.4	ug/L	NC	40		
7307316	5-Nitroacenaphthene	2021/04/20	90	30 - 130	87	30 - 130	<1.0	ug/L				
7307316	Acenaphthene	2021/04/20	89	30 - 130	84	30 - 130	<0.20	ug/L	NC	40		
7307316	Acenaphthylene	2021/04/20	84	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7307316	Anthracene	2021/04/20	85	30 - 130	83	30 - 130	<0.20	ug/L	NC	40		
7307316	Benzo(a)anthracene	2021/04/20	97	30 - 130	97	30 - 130	<0.20	ug/L	NC	40		
7307316	Benzo(a)pyrene	2021/04/20	101	30 - 130	100	30 - 130	<0.20	ug/L	NC	40		
7307316	Benzo(b,j)fluoranthene	2021/04/20	94	30 - 130	94	30 - 130	<0.20	ug/L	NC	40		
7307316	Benzo(g,h,i)perylene	2021/04/20	105	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7307316	Benzo(k)fluoranthene	2021/04/20	106	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7307316	Benzyl butyl phthalate	2021/04/20	103	30 - 130	99	30 - 130	<0.50	ug/L	NC	40		
7307316	Biphenyl	2021/04/20	79	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7307316	Bis(2-chloroethoxy)methane	2021/04/20	75	30 - 130	71	30 - 130	<0.50	ug/L	NC	40		
7307316	Bis(2-chloroethyl)ether	2021/04/20	78	30 - 130	77	30 - 130	<0.50	ug/L	NC	40		
7307316	Bis(2-chloroisopropyl)ether	2021/04/20	78	30 - 130	71	30 - 130	<0.50	ug/L	NC	40		
7307316	Bis(2-ethylhexyl)phthalate	2021/04/20	100	30 - 130	97	30 - 130	<2.0	ug/L	NC	40		
7307316	Chrysene	2021/04/20	103	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7307316	Dibenzo(a,h)anthracene	2021/04/20	106	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7307316	Diethyl phthalate	2021/04/20	92	30 - 130	89	30 - 130	<1.0	ug/L	NC	40		
7307316	Dimethyl phthalate	2021/04/20	92	30 - 130	89	30 - 130	<1.0	ug/L	NC	40		
7307316	Di-N-butyl phthalate	2021/04/20	99	30 - 130	98	30 - 130	<2.0	ug/L	NC	40		
7307316	di-n-octyl phthalate	2021/04/20	104	30 - 130	97	30 - 130	<0.80	ug/L	NC	40		
7307316	Diphenyl Ether	2021/04/20	69	30 - 130	64	30 - 130	<0.30	ug/L	NC	40		
7307316	Fluoranthene	2021/04/20	94	30 - 130	93	30 - 130	<0.20	ug/L	NC	40		
7307316	Fluorene	2021/04/20	89	30 - 130	85	30 - 130	<0.20	ug/L	NC	40		
7307316	Hexachlorobenzene	2021/04/20	87	30 - 130	85	30 - 130	<0.50	ug/L	NC	40		
7307316	Hexachlorobutadiene	2021/04/20	36	30 - 130	41	30 - 130	<0.40	ug/L	NC	40		
7307316	Hexachlorocyclopentadiene	2021/04/20	50	30 - 130	50	30 - 130	<2.0	ug/L	NC	40		
7307316	Hexachloroethane	2021/04/20	39	30 - 130	41	30 - 130	<0.50	ug/L	NC	40		



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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
7307316	Indeno(1,2,3-cd)pyrene	2021/04/20	104	30 - 130	99	30 - 130	<0.20	ug/L	NC	40		
7307316	Isophorone	2021/04/20	98	30 - 130	92	30 - 130	<0.50	ug/L	NC	40		
7307316	m/p-Cresol	2021/04/20	64	10 - 130	65	10 - 130	<0.50	ug/L	NC	40		
7307316	Naphthalene	2021/04/20	68	30 - 130	63	30 - 130	<0.20	ug/L	NC	40		
7307316	Nitrobenzene	2021/04/20	88	30 - 130	84	30 - 130	<0.50	ug/L	NC	40		
7307316	Nitrosodiphenylamine/Diphenylamine	2021/04/20	99	30 - 130	106	30 - 130	<1.0	ug/L	NC	40		
7307316	N-Nitroso-di-n-propylamine	2021/04/20	95	30 - 130	91	30 - 130	<0.50	ug/L	NC	40		
7307316	o-Cresol	2021/04/20	66	10 - 130	68	10 - 130	<0.50	ug/L	NC	40		
7307316	p-Chloroaniline	2021/04/20	74	30 - 130	89	30 - 130	<1.0	ug/L	NC	40		
7307316	Pentachlorobenzene	2021/04/20	71	30 - 130	62	30 - 130	<0.50	ug/L	NC	40		
7307316	Pentachlorophenol	2021/04/20	69	10 - 130	63	10 - 130	<1.0	ug/L	NC	40		
7307316	Perylene	2021/04/20	94	30 - 130	97	30 - 130	<0.20	ug/L	NC	40		
7307316	Phenanthrene	2021/04/20	90	30 - 130	88	30 - 130	<0.20	ug/L	NC	40		
7307316	Phenol	2021/04/20	36	10 - 130	35	10 - 130	<0.50	ug/L	NC	40		
7307316	Pyrene	2021/04/20	102	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7307318	Phenols-4AAP	2021/04/22	104	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20		
7307332	Phenols-4AAP	2021/04/22	103	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
7307999	a-Chlordane	2021/04/21	72	50 - 130	85	50 - 130	<0.005	ug/L	NC	30		
7307999	Aldrin	2021/04/21	72	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7307999	alpha-BHC	2021/04/21	72	30 - 130	83	30 - 130	<0.005	ug/L	3.9	40		
7307999	Aroclor 1242	2021/04/21					<0.05	ug/L				
7307999	Aroclor 1248	2021/04/21					<0.05	ug/L				
7307999	Aroclor 1254	2021/04/21					<0.05	ug/L				
7307999	Aroclor 1260	2021/04/21					<0.05	ug/L				
7307999	beta-BHC	2021/04/21	80	30 - 130	77	30 - 130	<0.005	ug/L	4.4	40		
7307999	Dieldrin	2021/04/21	85	50 - 130	100	50 - 130	<0.005	ug/L	NC	30		
7307999	Endosulfan I (alpha)	2021/04/21	71	50 - 130	78	50 - 130	<0.005	ug/L	0.81	30		
7307999	Endosulfan II (beta)	2021/04/21	68	50 - 130	79	50 - 130	<0.005	ug/L	2.8	30		
7307999	Endrin aldehyde	2021/04/21	52	30 - 130	90	30 - 130	<0.005	ug/L	8.9	40		
7307999	Endrin ketone	2021/04/21	77	30 - 130	88	30 - 130	<0.005	ug/L	2.8	40		
7307999	Endrin	2021/04/21	83	50 - 130	89	50 - 130	<0.005	ug/L	3.4	30		



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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
7307999	g-Chlordane	2021/04/21	79	50 - 130	86	50 - 130	<0.005	ug/L	NC	30		
7307999	Heptachlor epoxide	2021/04/21	86	50 - 130	102	50 - 130	<0.005	ug/L	1.9	30		
7307999	Heptachlor	2021/04/21	77	50 - 130	80	50 - 130	<0.005	ug/L	3.0	30		
7307999	Hexachlorobenzene	2021/04/21	72	50 - 130	87	50 - 130	<0.005	ug/L	NC	30		
7307999	Hexachlorobutadiene	2021/04/21	77	50 - 130	105	50 - 130	<0.009	ug/L	5.9	30		
7307999	Hexachloroethane	2021/04/21	63	50 - 130	92	50 - 130	<0.01	ug/L	6.8	30		
7307999	Lindane	2021/04/21	67	50 - 130	80	50 - 130	<0.003	ug/L	NC	30		
7307999	Methoxychlor	2021/04/21	100	50 - 130	102	50 - 130	<0.01	ug/L	6.7	30		
7307999	Mirex	2021/04/21	78	30 - 130	88	30 - 130	<0.005	ug/L	NC	40		
7307999	o,p-DDD	2021/04/21	82	50 - 130	100	50 - 130	<0.005	ug/L	8.6	30		
7307999	o,p-DDE	2021/04/21	83	50 - 130	102	50 - 130	<0.005	ug/L	0.21	30		
7307999	o,p-DDT	2021/04/21	81	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7307999	p,p-DDD	2021/04/21	82	50 - 130	97	50 - 130	<0.005	ug/L	8.2	30		
7307999	p,p-DDE	2021/04/21	78	50 - 130	86	50 - 130	<0.005	ug/L	0.41	30		
7307999	p,p-DDT	2021/04/21	84	50 - 130	85	50 - 130	<0.005	ug/L	NC	30		
7307999	Toxaphene	2021/04/21					<0.2	ug/L				

N/A = Not Applicable

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

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

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

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

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

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

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

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

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



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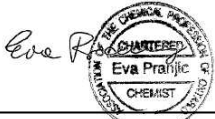
BV Labs Job #: C1A0241
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Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

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.

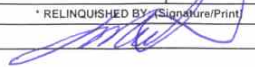
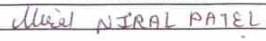


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CHAIN OF CUSTODY RECORD

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: <u>GHD Reporting</u> Attention: Brad Mullin Address: _____ Tel: _____ Fax: _____ Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: _____ Project: GW Project Name: <u>GW</u> Site #: _____ Sampled By: _____		Laboratory Use Only: BV Labs Job #: _____ Bottle Order #:  819873 COC #: _____  C#819873-01-01 Project Manager: Jolanta Goralczyk	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects								
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr VI	Last "A" GW Monitoring	Last "B" GW Monitoring	Biochemical Oxygen Demand (BOD)											# of Bottles	Comments			
<input type="checkbox"/> Table 1	<input type="checkbox"/> Ras/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"/> PWOO	Reg 406 Table _____																				
			<input type="checkbox"/> Other _____																					

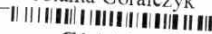
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
		21/09/15	AM		20211015	16:08		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
								See ACTR		Intact		

* 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.

White: BV Labs Yellow: Client

15-Apr-21 16:08
Jolanta Goralczyk

C1A0241
ADP ENV 1270

